ENIGMA 2000 NEWSLETTER

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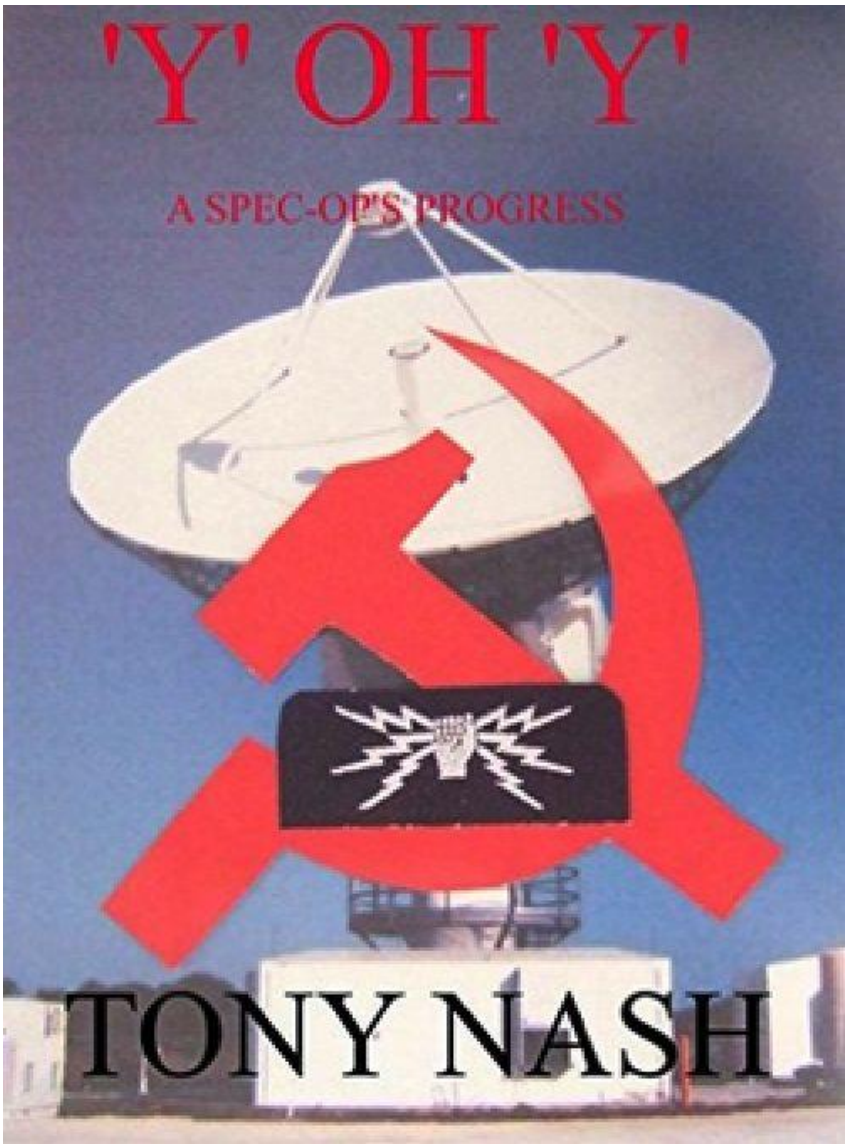

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http://www.enigma2000.org.uk

Editorial from PoSW

Several interesting developments in the world of number stations in the past few weeks.
The Monday + Wednesday E07, 1900 UTC start, failed to appear on the expected trio of frequencies in June; it turns out this schedule has not only moved to new frequencies but has also changed the mode of transmission from amplitude modulation to upper side-band
A change of frequencies has been noted before on one or two occasions but I think this is the first time an E07 AM schedule has made the change to SSB.

Most other number stations continue much as ever; one unusual logging was an S06 Russian Man transmission on Friday 13-May, just after 0800 UTC on 13,530 kHz - see my S06 report for details. This started and stopped several time over the course of three hours or so, appeared to end around 1120 UTC by which time it was a weak signal. The call used was "975" which has been noted from time to time being used by S06 and related voice and Morse stations on 10,755 kHz, and this frequency was itself noted active just a few days after the activity on 13,530:-

16-May-16, Monday:- 1302 UTC, 10,755 kHz, a weak signal down in the noise, it was the G06 German YL voice repeating, "975 975 975 98743", heard it repeated several times before ending with 5 x "null" at 1304 UTC.
This frequency noted active again at approx 1314 UTC but this time with the Spanish language V06 voice, not heard very frequently, calling "975", sank into the noise, became a bit stronger a few minutes later, heard the end of a short message, "..... 62594 84316 50517 863 863 15 15 00000".
The last time I heard this Spanish YL was also on 10,755 and with the call "975"; it was over two years ago on 6th February 2014.

The first + third Fridays in the month S06, call "761" did the same trick in June which it has often played in the past, i.e. moved by one hour ; was heard at 1900 + 2000 UTC in May but in June showed up at 2000 + 2100 UTC although on the same frequencies.
This schedule together with the first + third Saturdays in the month 1900 + 2000 UTC, call "614" seem to be the only regular S06 Russian Man activity these days.

The Thursday and Friday E06 and G06 schedules which showed up on Saturdays and Sundays in the month of March have stayed in their long-standing slots in May and June,
with their messages comprising of 63 or 90 5Fs and incorporating groups from when they had a group count of 20.

The French Morse station FAV22 continues on 6,825 // 3,881; the "XJT" which appeared on 6,825 did not stay for long. First noticed at the end of the first week in April, and heard off and on during that month and often strong enough to over-ride the Morse, it suddenly vanished and has not returned; I'm guessing that complaints were directed to the appropriate quarters!

Also gone is the "Mystery Beacon" as I called it, "JO62SK common and precious..... ", on 10,237 kHz. Don't know how long it had been in operation but I first noticed it in October of last year and it looked as if it was here to stay. I last observed it on 7-April and didn't tune that way again until early May and it was absent on the second of that month and has not been found since so I guess the plug has been pulled on it.

Request from 'E'

Anyone aware of CW on 11179kHz on several evenings; not heard by myself but wonder if M51/FAV22 style transmission?

E logged as 2013z 02/06 using call sign BVXZ, long messages with numbers and letters.

Also of mention by 'E'

5551kHz 2103z 26/05 and 27/05 'Open carrier heard for hours.'

Replies via group please

Morse Stations

Radio Direction Finding M23

We have for sometime believed that M23 may originate from France. This tentative theory is based on observation of the signal strength & propagation properties of the signals a number of years, along with some RDF (Radio Direction Finding) experiments carried out by PLdn in the last year or two.

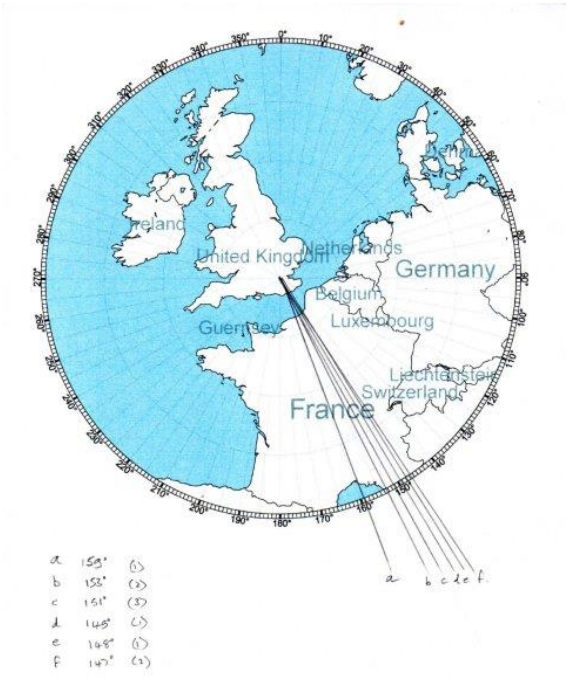
ENIGMA 2000 was recently invited to submit fresh RDF results on the recent appearance of M23 in mid-June, as part of a wider attempt with PRIYOM to establish the location of the transmissions.

An initial RDF by Derek (DoK), gave anomalous readings so Paul (PLdn) set to & repaired his identical homebrew unit , (that's amateur speak for self-built - not much in evidence these days), and managed to obtain some excellent readings that are displayed below.

Those of us with some experience are well aware of the pitfalls involved in RDF, especially when using the limited resources available to the amateur - a problem that is less likely to bother governments, radio authorities or 'other departments'. Indeed, it is nothing unusual to obtain some readings that are vastly at odds with the rest of the readings obtained, that can be caused by many different factors, which is why it is necessary to take as many bearings from as widespread an area as is possible.

It is believed that the 151 deg. bearing intersects a suspected site in France, west of Paris.

PLDn's RDF set-up with Sony ICF-SW55 & Homebrew RDF Unit



RDF bearings obtained by PLdn using the set-up shown

Morse Logs

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.

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

May 2016:

4905	2000z	03 May	'025' 407 30 = =	49365...	...LG 29074 = = 000	Good/Poor, med-fast. Errors noted	BR/CB	TUE
	2000z	05 May	'025' 114 30 = =	68007...	...LG 36400 = = 000	Weak/Fair, fast. Poor copy	BR/HFD/JkC	THU
	2000z	10 May	'025' 418 30 = =	. . . .	...LG 17819 = = 000	Strong, fast. Only last 10 grps monitored	BR	TUE
	2000z	12 May	'025' 143 30 = =	67742...	...LG 73871 = = 000	Good, Fast. Excellent CW. No errors	BR/CB	THU
	2000z	17 May	'025' 905 30 = =	64726...	...LG 73802 = 000	Strong, med-fast. Many confusing errors	CB	TUE
	2000z	19 May	'025' 264 30 = =	11695...	...LG 93603 = = 000	Strong, V.fast delivery. With errors	BR/CB	THU
	2000z	24 May	'025' 461 30 = =	57368...	...LG 62 . . . = = 000	Good with heavy QRM. Errors noted	CB	TUE
	2000z	26 May	'025' 538 30 = =	58659...	...LG 18772 = = 000	Strong, Fast, irregular. Many errors	BR/CB	THU
	2000z	31 May	'025' 703 30 = =	35980...	...LG 45474 = = 000	Strong, fast. Excellent CW. Error grp28	BR	TUE
5280	1800z	03 May	'025' 321 30 = =	74574...	...LG 82428 = = 000	Fair/Poor, med-fast. Errors noted	BR/CB	TUE
	1800z	05 May	'025' 192 30 = =	16460...	...LG 43589 = = 000	Weak, fast. Strength reduced at call-up	BR/CB/HFD/JkC	THU
	1800z	10 May	'025' 123 30 = =	41590...	...LG 44554 = = 000	Fair, fast. Good CW	BR	TUE
	1800z	12 May	'025' 381 30 = =	. . . .	...LG 94714 = = 000	V.poor. Details via Swedish SDR	BR/CB	THU
	1800z	17 May	NRH				BR/CB	TUE
	1800z	19 May	'025' 721 30 = =	31864...	...LG 32373 = = 000	Weak, V.fast. With errors	BR/CB	THU
	1800z	24 May	'025' 714 30 = =	63601...	...LG 50672 = = 000	Fair, fast. Errors noted	BR/CB	TUE
	1800z	26 May	Extremely weak - No useful copy				CB	THU
	1800z	31 May	'025' 809 30 = =	36816...	...LG 6159 . = = 000	Weak, fast. Copy difficult at times	BR	TUE

6435	1500z	07 May	'025' 197 30 = =	85342...	...LG 95863 = = 000	V.Weak, fast. Detail via Swedish SDR	BR/E.SMITH	SAT
	1500z	14 May	'025' 262 30 = =	52771...	...LG 53320 = = 000	Fair, Fast. Speed increased from grp08	BR	SAT
	1500z	28 May	.025' 876 30 = =	07269...	...LG 28 . . . = = 000	Weak, fast. Detail via Swiss SDR	BR	SAT
6780	0700z	01 May	'025' (rest unworkable) 0000z	Weak			HFD/JkC	SUN
	0700z	08 May	'025' 405 30 = =	41705...	...LG 31922 = = 000	Weak, fast. Irreg. CW for part of msg	BR/CB	SUN
	0700z	15 May	'025' 564 30 = =	60253...	...LG 39290 000	Weak. Strong from grps07-11	BR/CB	SUN
	1500z	**21 May**	'025' 453 30 = =	**60253**...	...LG **07729** = = 000	Strong, fast**.** [Note 1]	BR/E.SMITH	**SAT**
	0700z	22 May	'025' 434 30 = =	**60253**...	...LG **07729** = = 000	Fair, V.fast. Same msg as Sat 21 May	BR/CB	SUN
	0700z	29 May	'025' 456 30 AS AS	9038	...LG 75934 = = 000	Weak, fast. Detail via Twente SDR	BR/CB	SUN

[Note 1] Transmission found on Sunday frequency, (NRH on 6435kHz). Same msg sent both Saturday 21 & Sun 22 May, but with different DK. This message also started with the same first 15 groups as that sent on Sunday 15 May.

June 2016:

4905	2000z	02 Jun	'025' 635 30	46597...	...LG 83160 = = 000	Fair, fast. Preamble omitted. [Note 2]	JkC	THU
	2000z	07 Jun	'025' 836 30 = =	58559...	...LG 18662 = = 000	Strong, med-fast. Errors noted.	BR/CB	TUE
	2000z	09 Jun	'025' 339 30 = =	79156...	...LG 22244 = = 000	Fair, fast. Errors noted	CB	THU
	2000z	14 Jun	'025' 729 **39** = =	4150	...LG 54455 = = 000	Strong. Confused sending with errors	CB	TUE
	2000z	16 Jun	'025' 715 30 = =	80410...	...LG 11652 = = 000	Strong, fast. Only 27 grps sent	BR/CB	THU
	2000z	21 Jun	'025' 189 30 = =	64726...	...LG 18308 = = 000	Strong, heavy QRM. Grp10 sent once	CB	TUE
	20**02**z	23 Jun	'025' 851 30 = =	29525...	...LG 67929 = = 000	Weak, fast. Late start. Poor copy at times	BR/CB	THU
	2000z	28 Jun	'025' 317 30 / /	38875...	...LG 38551 / / 000	Strong, fast. Heavy data QRM	CB	TUE
	2000z	30 Jun	'025' . . 7 30 = =	46597..	...LG	Poor signal with R/T QRM. Errors noted	CB	THU
5280	1800z	02 Jun	'025' 496 30 AR AR	07269...	...LG 28537 AR 000	Weak. Long 0 and AR used throughout.	JkC	THU
	1800z	07 Jun	'025' 927 30 = =	65159...	...LG 5 . . .4 = = 000	Weak, med-fast. Poor copy. Errors noted	BR	TUE
	1800z	09 Jun	'025' 528 30 = =	80797...	...LG 92826 = = 000	Weak, fast. Poor copy during msg	BR/CB	THU
	1800z	14 Jun	'025' Very weak - No useful copy				BR	TUE
	1800z	16 Jun	'025' 719 30 = =	47380...	...LG 33022 = = 000	Weak, fast. Excellent CW. No errors	BR	THU
	1800z	21 Jun	'025' 275 30 = =	22835...	...LG 48415 = = 000	Weak, med-fast. Grp30 sent once only	BR	TUE
	1800z	23 Jun	'025' 708 30 SK SK	08944...	...LG 000	Weak, fast. Very poor copy.	BR	THU
	1800z	28 Jun	'025' 593 30 / /	35662...	...LG 48606 / / 000	Fair, fast. Poor copy due to high noise	BR	TUE
6435	1500z	04 Jun	'025' 521 30 = =	64771...	...LG 76777 = = 000	Fair, fast. Errors noted	BR	SAT
	1500z	11 Jun	'025' 903 30 = =	44727...	...LG 36400 000	Weak, fast. Strong sig at start of call-up	BR/HFD	SAT
	1500z	18 Jun	'025' 729 30 = =	07249...	...LG 28537 = = 000	Fair, fast. Excellent CW. No errors	BR	SAT
	1500z	25 Jun	'025' 471 30 = =	92411...	...LG 30182 = = 000	V.Weak, V.fast. Detail via Twente	BR	SAT
6780	0700z	05 Jun	'025' 237 30 = =	12699...	...LG 40703 = = 000	V.weak. Details via Swedish SDR.	BR	SUN
	0700z	12 Jun	'025' 447 30 = =	68007...	...LG 14448 000	Weak, fast. Several errors noted	BR	SUN
	0700z	19 Jun	'025' 509 30 = =	77538...	...LG 03728 = = 000	Fair. Fast. Confused sending with errors	BR/CB	SUN
	0700z	26 Jun	'025' 278 30 = =	74732...	...LG 61083 = = 000	Extremely weak., Fast. Detail via Twente	BR	SUN

[Note 2] Message body is a repeat of M01 14 May **2013** 1800z. *JkC*

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

No reports

M01b

May 2016:

4895	2010z	06 May	'467' 748 34 = 31440.... (5340 NRH)			HFD	FRI
4895//5340	2009 - 2033z	27 May	'467' 647 50 = 06723 69310 ..... 28132 82810 000		MCW	E.SMITH	FRI
4986//**5465**	2015 (IP) - 2018z	05 May	I/P ... (cuts off abruptly) Weak//Fair		[Note 1]	JkC	THU
5065//5805	1940 - 1957z	05 May	'936' 748 34 = 31440 ... 66003 000 Fair			HFD/JkC	THU
5075//5465	1902 - 1920z	05 May	'336' 748 34 = 31440 ... 66003 000 Weak//Fair			JkC	THU
	1902z	06 May	'336' 748 34 = 31440....			HFD	FRI
5465	1902z	20 May	'336' 647 50 = 06723 69310 ..			Uascan	FRI
5075//5465	1902 - 1926z	27 May	'336' 647 50 = 06723 69310 ..... 28132 82810 000		MCW	E.SMITH	FRI
5095//5760	1832 - 1849z	05 May	'815' 748 34 = 31440 ... 66003 000 Fair			HFD/JkC	THU
5125//5735	1810z	16 May	'364' 647 50 = 06723....	(5735kHz stronger)		HFD	MON
5150//5475	1915z	16 May	'858' 647 50 = 06723....			HFD	MON

[Note 1] Op. failed to retune transmitter for one freq, remaining on 5465kHz from 1902z sending. Transmission cut abruptly at GR8. Continued to monitor all four of today's scheduled frequencies until 2025z - Nothing further heard *JkC*

June 2016:

4895//5340	2010 - 2034z	03 Jun	'467' 647 50 = 06723 ... 82810 000	Fair//Fair	JkC	FRI
5065//5805	1940 - 2002z	02 Jun	'936' 647 50 = 06723 ... 82810 000	Fair//Fair	JkC	THU
5075//5465	1902 - 1926z	03 Jun	'336' 647 50 = 06723 ... 82810 000	Fair//Fair	JkC	FRI
5465	1902- 1923z	24 Jun	'336' 146 36 = 31407 38617 20647 38967...		DanielE2Kde	FRI
5095	1832 - 1845z	02 Jun	'815' 647 50 = 06723 ... 82810 000	Fair (//5760kHz NRH)	JkC	THU
5735	1810 - 1832z	06 Jun	'354' 647 50 = 06723 ... 82810 000	Weak (//5125kHZ NRH)	JkC	MON
5150//5475	1915 - 1939z	06 Jun	'858' 647 50 = 06723 ... 82810 000	Weak//Fair	JkC	MON
5150//5476	1916 - 1935z	27 Jun	'858' 146 36 = 31407 ... 32123 000	Fair//Fair Up late	DanielE2Kde/JkC	MON

M01b 5095kHz 1832z 05 May16

815 (R4m) 748 748 34 34 = =

31440 03976 66639 54885 62757
07152 45051 51069 38216 60751
81754 81582 83031 87879 34003
55919 07290 29955 68939 53000
48747 28121 09750 50265 13849
32632 46916 14122 65144 84719
42107 03977 85760 66003 = =

748 748 34 34 000

Courtesy JkC

M01b 5075//5465kHz 1902z 27 May16

336 (R4m) 647 647 50 50 = =

06723 69310 20452 43883 02167
75204 88647 17423 17406 91964
59354 42703 57342 32346 40152
99002 90955 17276 67195 00767
86195 78972 31968 41585 73312
22078 28591 64955 96918 78558
56528 05534 22785 73957 28675
65706 21984 91914 25963 92610
84900 55407 08952 68705 53401
51041 65397 74769 28132 82810 = =

647 647 50 50 000

Courtesy E.SMITH

M03 III ICW, some CW

No reports. The number of transmissions decreased dramatically during 2015, leaving only the 4505kHz & 4828kHz schedules on Mon/Wed & Thu/Sun respectively. The two remaining schedules for M03 appeared in January, but apart from a report from Ary (AB) of a weak transmission on 04 February no further transmissions have been heard or reported since.

M08a XVIII ICW / CW, some MCW

As always, we are greatly indebted to AnonUS, our Man in America, for his comprehensive & detailed logs & analysis of the Cuban stations. Here is his report.

M08a continued with the usual schedules in place. However, like at the end of April no transmissions were heard after 24 June, although brief transmitter checks were heard around 1345z on 26 & 30 June. Some of the transmissions prior to the disappearance were very weak so perhaps the Cubans are experiencing some transmitter problems. Weekend call-ups remained the same and HM01 was heard mixing in with the 2300z schedule on occasions.

Of note during the past 2 months:-

- At 1400z on 12 May all three call-ups ended with 2.

- On 03 June at 2300z, two of the call-ups started with the same digit and both were also very similar, (54235 and 54252). Given the known structure of the call-ups this was a very unusual event.

- On 06 June at 1400z a similar thing was seen when two call-ups started with 8, (83351 87472), but since this time no more instances have been noted.

May 2016:

7554	2000z	03 May	[61771 74102 86431]		AnonUS	TUE
	2000z	05 May	[16631 30152 43481]		AnonUS	THU
	2000z	08 May	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2000z	12 May	[32871 45311 58632]		AnonUS	THU
	2000z	13 May	[00161 - - - - - - - - - -]	Came up at 2002 with 00161 (R5)	AnonUS	FRI
	2000z	17 May	[18001 22322 35652]		AnonUS	TUE
	2000z	22 May	[18262 22501 35022]	Very weak, usual weekend call-ups	AnonUS	SUN
	2000z	26 May	[11141 24572 36801]		AnonUS	THU
	2000z	29 May	[18262 22501 35022]	Up early at 1956z. Usual weekend call-ups	AnonUS	SUN
	2000z	31 May	[67262 71501 84822]		AnonUS	TUE

8009	2300z	02 May	[80672 12412 24741]		AnonUS	MON
	2300z	09 May	[42421 55742 67171]		AnonUS	MON
	2300z	14 May	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2300z	16 May	[65481 78722 81241]		AnonUS	MON
	2300z	17 May	[62421 75752 88271]	HM01 call-ups mixing in during M08a call-ups	AnonUS	TUE
	2300z	25 May	[61172 - - - - - - - - -]	Came up with intermittent signal of 61172 (R5) at 2303z	AnonUS	WED
8096	1400z	02 May	[36821 40252 53571]		AnonUS	MON
	1400z	04 May	[00471 12701 25232]		AnonUS	WED
	1400z	05 May	[04072 16301 20632]	Call-ups were very weak	AnonUS	THU
	1400z	09 May	[88561 02881 14322]		AnonUS	MON
	1400z	10 May	[74171 86402 00732]		AnonUS	TUE
	1400z	11 May	[61282 74621 87042]		AnonUS	WED
	1400z	12 May	[33552 46871 50312]		AnonUS	THU
	1400z	13 May	[15372 40442 50472]	All 3 call-ups end in 2	AnonUS	FRI
	1407z	14 May	[18262 22501 35022]	Up late with the usual weekend call-ups	AnonUS	SAT
	1400z	17 May	[46071 58302 62631]		AnonUS	TUE
	1400z	18 May	Up late in progress.		AnonUS	WED
	1400z	20 May	[32561 53201 66531]		AnonUS	FRI
	1400z	23 May	[58182 62411 74742]		AnonUS	MON
	1400z	24 May	Weak transmitter hum at 1404z but no Morse heard		AnonUS	TUE
	1400z	26 May	[03412 26742 30261]		AnonUS	THU
	1400z	28 May	[18262 22501 35022]	Up late with the usual weekend call-ups	AnonUS	SAT
	1400z	29 May	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
8135	2300z	03 May	[30222 43652 55071]		AnonUS	TUE
	2300z	05 May	[40431 53762 67882]		AnonUS	THU
	2300z	06 May	[87672 01102 24431]		AnonUS	FRI
	2300z	07 May	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2300z	08 May	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	10 May	[40252 53681 66012]		AnonUS	TUE
	2300z	29 May	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	31 May	[15082 28311 32742]		AnonUS	TUE

June 2016:

7554	2000z	06 Jun	[58632 - - - - - - - - - -]	Up late with first call-up (R5), very weak	MON
	2000z	07 Jun	[73761 86182 00521]		TUE
	2000z	09 Jun	[06881 10311 23642]		THU
	2000z	14 Jun	[81602 14121 26452]		TUE
	2000z	18 Jun	[18262 22501 35022]	Usual weekend call-ups	SAT
	2000z	23 Jun	[85??? - - - - - - - - - -]	Too weak to copy	THU
8009	2300z	13 Jun	[06551 10872 23212]	HM01 mixing with the Morse	MON
8096	1400z	01 Jun	[41042 54361 67702]		WED
	1400z	05 Jun	Weak hum audible but no Morse		SUN
	1400z	06 Jun	[61621 83351 87472]	Possible format change here . 2 call-ups start with 8 (see 03 Jun 2300z)	MON
	1400z	08 Jun	[14511 27842 31361]		WED
	1400z	09 Jun	[81842 03261 26501]		THU
	1400z	10 Jun	[67621 78451 83471]		FRI
	1400z	13 Jun	[43602 56021 60452]		MON
	1400z	14 Jun	[81362 04601 17122]		TUE
	1400z	15 Jun	[80452 03881 26211]		WED
	1400z	16 Jun	[81172 13812 26241]		THU
	1400z	18 Jun	[18262 22501 35022]	Usual weekend call-ups	SAT
	1400z	23 Jun	Present but too weak to copy		THU
	1400z	24 Jun	Present but too weak to copy		FRI
8135	2300z	03 Jun	[54232 54252 77571]	Format change? Call-ups 1 & 2 both start with 5and are very similar	FRI
	2300z	07 Jun	Up at 2301z in progress.		TUE
	2300z	10 Jun	[- --- - 37241 41601?]	Very weak with HM01 mixing in unable to copy any more	FRI
	2300z	14 Jun	[30111 43532 56861]	HM01 mixing in with the Morse	TUE
	2300z	16 Jun	[34211 47632 51062]		THU
	2300z	23 Jun	No Morse on this schedule but HM01 audible		THU

Call-up Number Sequence Analysis

Analysis of call-up spacings. (Spacing between the 1st, 2nd, 3rd and 4th digits of the call-ups). Example **4 3 5 6 1 6 6 8 8 1 7 8 3 2 2 2 1 3 2 3 4 2 3**

As with previous observations the M08a call-ups follow a pattern between the three numbers. (See Issue 81 - Mar 2014 for full details)

Note: Some anomalies were observed with the call-up sequences during this period. It is too early to know if these are odd events or whether it indicates a format change to the call-up headers. See the notes from AnonUS in his opening summary.

36821 40252 53571 11 33 33 32 80672 12412 24741 21 22 73 33 61771 74102 86431 11 32 33 23 30222 43652 55071 11 32 43 32 00471 12701 25232 11 23 34 23 04072 16301 20632 11 23 33 23 16631 30152 43481 21 33 43 23 40431 53762 67882 11 34 31 32 87672 01102 24431 12 33 43 23 88561 02881 14322 11 32 34 23 42421 55742 67171 11 32 33 23 74171 86402 00732 11 23 33 23 40252 53681 66012 11 33 43 32 61282 74621 87042 11 33 43 32 33552 46871 50312 11 33 34 23 32871 45311 58632 11 33 43 32	15372 40442 50472 31 40 10 63 * 00161 - - - - - - - - - - 65481 78722 81241 11 32 34 32 46071 58302 62631 11 23 33 23 18001 22322 35652 11 33 33 23 62421 75752 88271 11 33 34 32 32561 53201 66531 21 13 63 33 58182 62411 74742 11 32 33 23 61172 - - - - - - - - - - 03412 26742 30261 21 33 34 32 11141 24572 36801 11 32 43 32 67262 71501 84822 11 33 33 32 15082 28311 32742 11 33 34 23 41042 54361 67702 11 33 34 23 54232 54252 77571 02 03 03 22 ** 61621 83351 87472 20 24 61 32 * * Unusual sequence ** Very unusual sequence	58632 ----- ----- 73761 86182 00521 11 33 34 23 14511 27842 31361 11 33 34 32 81842 03261 26501 12 23 33 23 06881 10311 23642 11 33 43 23 67621 78451 83471 11 14 70 32 ----- 37241 41601? 43602 56021 60452 11 33 34 23 06551 10872 23212 11 33 33 23 81362 04601 17122 11 33 34 32 81602 14121 26452 21 32 43 23 30111 43532 56861 11 33 43 23 80452 03881 26211 12 33 43 32 81172 13812 26241 21 23 73 33 34211 47632 51062 11 33 43 23 *Courtesy AnonUS*

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

There was a surprise for regular M12 monitors at the beginning of May when M12 failed to observe the traditional May Day holidays. In previous years it has been a regular feature of M12 to reduce their transmission schedule to a 'skeleton service', with the majority of schedules missing for the first twelve days of May. Is this due to an increased reliance on these transmissions this year, or have the authorities decided to remove this traditional break for the M12 operators?

In addition, there has been some changes to the schedules once again. Two of the regular schedules ceased at the end of April, with another two disappearing at the end of May. A number of new schedules have been logged & are shown in bold in the logs below.

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.

Asiatic M12 Scheds

12193/11103/---	0700/20/40z	02 Jun	112 000	Fair	Via Hong Kong remote	JkC	THU

European M12 Logs

May 2016: **New scheds in bold type**

6857/7557/---	0430/0450/0510z	02 May	850 000		BR	MON
	0430/0450/0510z	09 May	850 000		BR/E.SMITH	MON
	0430/0450/0510z	16 May	850 000	Strong QRM from STANAG 4285 on 7557kHz	E.SMITH/HFD	MON
	0430/0450/0510z	23 May	850 000	Strong QRM from STANAG 4285 on 7557kHz	E.SMITH	MON
	0430/0450/0510z	30 May	850 000		BR	MON
7984/9184/---	0630/0650/0710z	05 May	911 000		E.SMITH/HFD	THU
	0630/0650/0710z	12 May	911 000		E.SMITH	THU
	0630/0650/0710z	19 May	911 000		E.SMITH	THU
	0630/0650/0710z	26 May	911 000		E.SMITH	THU
8047/6802/5788	1900/20/40z	04 May	463 1 (5125 138)	88924 75200....	BR	WED
	1900/20/40z	11 May	463 1 (9316 149)	89731 78826....	BR	WED
	1900/20/40z	18 May	463 1 (1550 140)	17437 54631....	BR	WED
5788	**1950z**	**23 May**	**463 1 (3814 107)**	**41715 75882 ...54755 19372 000 000**	Uascan	MON

9167/10267/11567	0500/20/40z	07 May	125 000	E.SMITH	SAT
	0500/20/40z	14 May	125 1 (2154 83) 93626 57551 .... 24476 65458 000 000	AB/E.SMITH	SAT
	0500/20/40z	21 May	125 1 (3166 99) 58725 83651 .... 84869 14464 000 000	E.SMITH	SAT
	0500/20/40z	28 May	125 000	E.SMITH	SAT
9176/7931/6904	1800/20/40z	02 May	257 1 (3001 142) 15668 39137....	BR/Gert/HFD	MON
	1900/20/40z	02 May	257 1 (7578 80) 46376 13223....	BR	MON
	1800/20/40z	04 May	257 1 (4981 137) 10843 65215 ... 30657 31911 000 Good	JkC	WED
	1900/20/40z	05 May	257 1 (2208 103) 49822 41855 ... 20725 87258 000 Fair	JkC	THU
	1800/20/40z	09 May	257 1 (9956 144) 18824 93941....	BR	MON
	1900/20/40z	09 May	257 1 (1002 82) 47316 94933....	BR	MON
	1800/20/40z	11 May	257 1 (702 138) 42526 95027....	BR/HFD	WED
	1900/20/40z	12 May	257 1 (1415 103) 70321 73422....	BR/HFD	THU
	1800/20/40z	16 May	257 1 (4306 141) 43039 33224....	BR	MON
	1900/20/40z	16 May	257 1 (3064 87) 63136 19032....	BR	MON
	1800/20/40z	18 May	257 1 (950 145) 29205 30034....	BR	WED
	1900/20/40z	19 May	257 1 (4174 111) 59817 15425....	BR	THU
	1800/20/40z	23 May	257 1 (6119 151) 68822 53393....	BR	MON
	1900/20/40z	23 May	257 1 (4128 84) 87117 76144....	BR	MON
	1800/20/40z	25 May	257 1 (3779 140) 15801 83950....	BR	WED
	1900/20/40z	26 May	257 1 (7304 117) 15365 19317....	BR	THU
	1800/20/40z	30 May	257 1 (3978 155) 34671 58972....	BR	MON
9241/7541/6841	2100/20/40z	04 May	258 000 Good	JkC	WED
	2100/20/40z	11 May	258 1 (2154 83) 93626 57551....	BR	WED
	2100/20/40z	18 May	258 1 (3166 99) 58725 83651....	BR	WED
	2100/20/40z	25 May	258 1 000	BR	WED
11435/10598/9327	1800/20/40z	05 May	938 1 (1620 144) 77016 23770 ... 20702 58124 000 Fair	JkC	THU
	1800/20/40z	12 May	938 1 (3255 149) 25128 98318....	BR	THU
	1800/20/40z	19 May	938 1 (8352 146) 33900 99232....	BR/HFD	THU
	1800/20/40z	26 May	938 1 (1841 149) 89573 31469....	BR	THU
11469/10469/---	**0910/30/50z**	**04 May**	**441 000**	E.SMITH	SAT
12162/11566/10711	1700/20/40z	05 May	546 1 (7284 85) 37367 57540 ... 44595 39435 000 Fair	HFD/JkC	THU
	1700/20/40z	12 May	546 1 (1912 86) 71683 78939....	BR	THU
	1700/20/40z	19 May	546 1 (3862 86) 45336 07559....	BR	THU
12205/13559/14728	1100/20/40z	02 May	973 1	HFD	MON
13926/12126/10926	1310/30/50z	07 May	919 000	E.SMITH	SAT
	1310/30/50z	12 May	919 1 (1281 121) 71702 97627 ... 12824 56719 000 000	E.SMITH/HFD	THU
	1310/30/50z	14 May	919 1 (1281 121) 71792 97627....	BR	SAT
	1310/30/50z	19 May	919 1 (7930 135) 35537 21850 ... 98431 14254 000 000	E.SMITH	THU
	1310/30/50z	21 May	919 1 (7930 135) 35537 21850....	BR	SAT
	1310/30/50z	26 May	919 000	E.SMITH	THU
	1310/30/50z	28 May	919 000	BR	SAT
14728	1140z	02 May	973 1 (8289 118) 08209 02233....10064 54705 000 000	Gert	MON
14869/13569/---	2110/30/50z	04 May	851 000 Fair	JkC	WED
	2110/30/50z	07 May	851 000	E.SMITH	SAT
	2110/30/50z	11 May	851 000	BR	WED
	2110/30/50z	14 May	851 000	E.SMITH	SAT
	2110/30/50z	18 May	851 000	BR	WED
	2110/30/50z	21 May	851 000	HFD	SAT
	2110/30/50z	25 May	851 1 (6746 135) 02341 19463....	BR	WED
16294/18194/---	**0710/30/50z**	**04 May**	**215 000**	E.SMITH	WED
	0710/30/50z	11 May	215 000	E.SMITH	WED
	0710/30/50z	18 May	215 000	E.SMITH	WED
	0710/30/50z	25 May	215 000	E.SMITH	WED
19538	**1520z**	**06 May**	**058 000**	JkC	FRI
	1520z	13 May	058 000	BR	FRI
	1520z	20 May	058 000	BR	FRI
18038/19538/---	1500/20/40z	27 May	058 000 Fair/Good	BR	FRI

June2016:

6857/7557---	0430/0450/0510z	06 Jun	850 000	BR	MON
	0430/0450/0501z	13 Jun	850 000	BR	MON
	0430/0450/0510z	20 Jun	850 000	BR	MON
	0430/0450/0510z	27 Jun	850 000	HFD	MON
7984/9184/---	0630/0650/0710z	02 Jun	911 000 Fair	JkC	THU
	0630/0650/0710z	09 Jun	911 000	BR	THU
	0630/0650/0710z	23 Jun	911 000	AB/HFD	THU
9178/10287	**0820/0840z**	**14 Jun**	**816 1 (4828 51) 33001 05022 ... 80144 65768 000 000**	AB/E.SMITH	TUE
	0820/0840z	21 Jun	816 1 (8049 68) 00789 89979.... 75326 57501 000 000	AB	TUE

8047/6802/5788	1900/20/40z	01 Jun	463 1 (3390 152) 22013 82217 ... 26334 94044 000 Fair	HFD/JkC	WED
5788	**2040z**	**02 Jun**	**463 1 (4048 64) 95310 05032 ... 10248 97987 000 Fair**	JkC	THU
	1810/30/50z	**06 Jun**	**463 1 (2404 116) 66528 98694....**	BR	MON
	1900/20/40z	08 Jun	463 1 (3379 146) 95283 34264....	BR	WED
	1810/30/50z	13 Jun	463 1 (1016 110) 76101 22849....	BR	MON
	1900/20/40z	15 Jun	463 1 (1064 132) 94202 74355 ... 71058 87975 000 000 Good	Jan O	WED
	1810/30/50z	20 Jun	463 1 (7645 126) 77284 16107....	BR	MON
	1900/20/40z	22 Jun	463 1 (7775 148) 98625 38166....	BR	WED
	2000/20/40z	**23 Jun**	**463 1 (7829 79) 14299 40215 ... 61229 99881 000 000**	DanielE2Kde	THU
	1810/30/50z	27 Jun	463 1 (2702 126) 23131 50360.....	BR	MON
	1900/20/40z	29 Jun	463 1 (1737 148) 27919 85031....	BR	WED
	2000/20/40z	30 Jun	463 1 (4229 72) 23870 23582....	BR	THU
9176/7931/6904	1800/20/40z	01 Jun	257 1 (690 150) 95777 92297 ... 15148 68656 000 Fair	JkC	WED
	1900/20/40z	02 Jun	257 1 (9715 110) 11019 50465 ... 17616 40731 000 Fair	JkC	THU
	1800/20/40z	06 Jun	257 1 (6589 152) 02237 66547 ... 42551 51105 000	JkC/JPL	MON
	1800/20/40z	08 Jun	257 1 (3635 153) 06896 87986....	BR	WED
	1900/20/40z	09 Jun	257 1 (2352 117) 30976 63579....	BR	THU
	1800/20/40z	13 Jun	257 1 (2816 150) 95667 88717....	BR	MON
	1800/20/40z	15 Jun	257 1 (3353 153) 39388 71418....	BR	WED
	1900/20/40z	16 Jun	257 1 (1851 122) 67780 37160....	BR	THU
	1800/20/40z	20 Jun	257 1 (7855 140) 20707 50583....	BR	MON
	1800/20/40z	22 Jun	257 1 (1609 140) 45984 34399....	BR	WED
	1900/20/40z	23 Jun	257 1 (9339 110) 16280 94369....	BR	THU
	1800/20/40z	27 Jun	257 1 (3549 139) 93061 99217 ... 70835 07587 000 000	DanielE2Kde	MON
	1840z	29 Jun	257 1 (7152 144) 40401 02938 ... 48197 03753 000 000	DanielE2Kde	WED
	1900/20/40z	30 Jun	257 1 (1142 110) 25231 98047....	BR	THU
9282/10982/12182	0500/20/40z	04 Jun	291 1 (6079 67) 17274 48797... (Repeat of Wed 2100z ID 903 sched)	BR	SAT
	0500/20/40z	11 Jun	291 000	BR	SAT
	0500/20/40z	18 Jun	291 1 (6364 75) 24009 32930....	BR	SAT
	0500/20/40z	25 Jun	291 000	AB	SAT
9986/9086/7386	2100/20/40z	01 Jun	903 1 (6079 67) 17274 48797....	BR/HFD	WED
	2100/20/40z	22 Jun	903 000	DanielE2Kde	WED
	2100/20/40z	29 Jun	903 000	BR	WED
11435/10598/9327	1800/20/40z	02 Jun	938 1 (9739 154) 62552 68226 ... 99512 37120 000 Fair	JkC	THU
	1800/20/40z	09 Jun	938 1 (7035 145) 37624 30976....	BR	THU
	1800/20/40z	16 Jun	938 1 (3694 149) 77495 12959....	BR	THU
	1800/20/40z	23 Jun	938 1 (4074 148) 24980 84421....	BR	THU
	1800/20/40z	30 Jun	938 1 (6543 146) 30036 48003....	BR	THU
13417/14417/---	0710/30/50z	15 Jun	448 000	E.SMITH	WED
	0710/30/50z	22 Jun	448 000	AB	WED
13873/13373/11473	1310/30/50z	04 Jun	834 000	BR	SAT
	1310/30/50z	09 Jun	834 1 (1386 107) 45188 78201....	BR/HFD	THU
	1310/30/50z	11 Jun	834 1 (1386 107) 45188 78201....	BR	SAT
	1310/30/50z	18 Jun	834 000	BR	SAT
	1310/30/50z	23 Jun	834 1 (1905 155) 70885 14106....	BR	THU
	1310/30/50z	25 Jun	834 1 (1905 155) 70885 14106....	BR	SAT
	1310/30/50z	30 Jun	834 1 (1196 173) 71677 56693... 41591 16003 000 000	AB	THU
16117/14717/13417	**1400/20/40z**	**06 Jun**	**174 1 (3667 97) 91594 59442 ... 58326 99828 000 Fair**	JkC	MON
	1400/20/40z	**08 Jun**	**174 000 Fair/Fair**	BR	WED
	1400/20/40z	15 Jun	174 000	E.SMITH	WED
	1400/20/40z	22 Jun	174 1 (4334 87) 06678 10840 ... 69277 19423 000 000	AB	WED
	1400/20/40z	27 Jun	174 000 Good	JkC	MON
	1420z	29 Jun	174 000	DanielE2Kde	WED
16269/14669/13369	2110/30/50z	01 Jun	263 000	HFD	WED
	2110/30/50z	11 Jun	263 000	BR	SAT
	2110/30/50z	22 Jun	263 1 (5608 111) 42749 39400 ... 51583 79982 000 000	BR/DanielE2Kde	WED
	2110/30/50z	29 Jun	263 000	BR	WED

M14 IA MCW / ICW Short 0

May 2016:

5560	0900 - 0916z	07 May	171 (230 65) 12345 43435 ..... 03264 78967 00000 (Via Remote Silec PL.) MCW	E.SMITH	SAT
	0900z	21 May	171 **5555** (116 83) 12345 54321 65432 56784	Uascan	SAT
5826	1600z	03 May	361 00000	RNGB	TUE
6891	1800 - 1803z	06 May	382 00000 Good	HFD/JkC	FRI
7485	1700 - 1703z	06 May	382 00000 Good	HFD/JkC/tiNG	FRI
7651	0603 (IP) - 0612z	16 May	(021 77) In progress. Ends ....13196 84541 021 77 00000 0550z start?	RNGB	MON
8162	1000z	22 May	382 00000 Carrier off 10:07	Uascan	TUE

9463	1900z	31 May	801 (462 50) 65785 44372 ..... 32888 83968 00000	RNGB	TUE
14878	**0930 - 0942z**	**26 May**	**617 (592 48) 27626 60901 22929 ..... 64859 76688 00000**	E.SMITH	THU
16347	**0930 - 0942z**	**25 May**	**617 (592 48) 27626 60901 ..... 64859 76688 00000**	E.SMITH	WED

June 2016:

5825	1600 - 1604z	07 Jun	361 00000 Weak	JkC	TUE
5938	1921z	15 Jun	(2 .0 65) . .10	HFD	WED
6856	1829z	28 Jun	163 (12489) **12345 ....**	HFD	TUE
6891	1800 - 1803z	03 Jun	382 00000 Good	JkC	FRI
7358	1930 - 1945z	02 Jun	801 (724 50) 39411 ... 84482 00000 Fair	JkC	THU
	1930 - 1945z	06 Jun	801 (274 50) 90392 ... 54420 00000 Fair	JkC	MON
7360	1930 - 1945z	01 Jun	801 (397 50) 22461 ... 06366 00000 Fair	JkC	WED
	1930 - 1945z	03 Jun	801 (369 50) 22709 ... 39729 00000 Fair	JkC	FRI
7485	1700 - 1703z	03 Jun	382 00000 Good	JkC	FRI
9463	1900 - 1915z	01 Jun	801 (397 50) 22461 ... 06366 00000 Fair	JkC	WED
	1900 -1915	02 Jun	801 (724 50) 39411 ... 84482 00000 Weak	JkC	THU
	1900 - 1914z	03 Jun	801 (369 50) 22709 ... 39729 00000 Fair	JkC	FRI
	1900 - 1915z	06 Jun	801 (274 50) 90392 ... 54420 00000 Fair	JkC	MON

M14 14878kHz 0930z 26 May 16

617 (R4m) 592 592 48 48 = =

27626 60901 22929 72125 71096
84715 35869 78899 93658 13738
96669 46677 31202 35695 95822
96281 57154 95596 05115 64167
16530 87290 73236 99369 32681
35827 78771 84288 55223 07758
97263 10920 63032 98005 58725
15750 02545 48413 67661 55379
22016 54864 24730 97031 96978
19151 64859 76688 = =

592 592 48 48 00000

Courtesy E.SMITH

M14 14878kHz 0930z 31 May 16

801 (R4m) 462 462 50 50 = =

65785 44372 61486 56666 49095
61275 34404 96373 88735 92649
95314 12018 77007 57194 98715
56144 51894 96172 82641 52490
74839 06539 53030 11588 77970
18299 89286 52309 39604 20802
94470 46565 77476 67634 38550
29334 67135 14830 68164 41207
23525 72052 81323 85643 06015
71567 90486 88123 32888 83968
= =

462 462 50 50 00000

Courtesy RNGB

M14 9463kHz 1900z 01 Jun 16

801 (R4m) 397 397 50 50 = =

22461 89373 16256 37458 28549
89871 53302 16866 03394 87801
34830 50591 35945 37659 57019
13064 41000 01683 47348 98099
44741 71308 40616 42747 22720
50834 65991 06310 13718 20469
31044 34233 57923 20976 13684
61540 32864 27075 97940 35503
85527 01811 14535 62248 84117
49059 72174 06967 37865 06366
= =

397 397 50 50 00000

Courtesy JkC

M23 O ICW

A direction finding exercise was carried out during this period of activity - See the start of the Morse section for the details.

Discovered by Richard, (RNGB) in progress on 8030kHz on Wednesday 15 June & picked up by Jan, (JO). Richard also found a parallel frequency of 5185kHz during the next transmission. As expected, the station changed times, call & frequencies over the next few days.

8030	1705 (IP) - 1710z	15 Jun	943 (R)	In progress ended with a longer dash on ending at 1713z		JO/RNGB	WED
5185//8030	1731 - 1740z +	15 Jun	943 (R)	Weak		JO/RNGB	WED
5182//8030	1638 (IP) - 1642z	16 Jun	943 (R)			AB	THU
	1700z	16 Jun	943 (R)			AB	THU
	1730z	16 Jun	943 (R)			AB	THU
	1800z	16 Jun	943 (R)			AB	THU
5345 //6806	1502 (IP) - 1510z +	19 Jun	246 (R)	Still in progress at 1510z		RNGB	SUN
	Ary was able to confirm the new schedule was 1430-1530 UTC with transmissions every 30 mins.						
5345//6806	1500 - 1515z	20 Jun	246 (R15)	Fair//Strong		BR	MON
	1530 - 1545z	20 Jun	246 (R15)	Good //Weak		BR	MON
5345//6806	1430 - 1445z	21 Jun	246 (R15)	Good//Fair		BR	TUE
	1500z	21 Jun	NRH			BR	TUE
	1530 - 1545z	21 Jun	246 (R15)	Good//Strong	Some short interruptions at start of transmission	BR/DanE2kde	TUE
5345//6806	1430 - 1446z	22 Jun	246 (R)	Good//Fair	[Note 1]	AB/BR/PLdn	WED
	1500 - 1515z	22 Jun	246 (R)	Good//Fair	[Note 1]	BR/PLdn	WED
	1530 - 1545z	22 Jun	246 (R)	Good//Strong	[Note 1]	BR/PLdn	WED

5345//6806	1430 - 1446z	23 Jun	246 (R)	Weak//Good	[Note 1]	BR	THU
	1500 - 1516z	23 Jun	246 (R)	Weak//Good	[Note 1]	BR	THU
	1530 - 1545z	23 Jun	246 (R)	Good//Good	[Note 1]	BR	THU
5345	1530 - 1545z	24 Jun	246 (R)	Good. No msg		DanielE2Kde	FRI

[Note 1] These transmissions ceased for around 1 minute approximately 5 minutes into the transmission. There were also several other very short interruptions to the otherwise regular sending. These were consistent & appear to be a problem with the program being used to transmit the numbers.

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

No reports

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

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

Our thanks to Guy (GD) for managing to provide us with logs of this station under these difficult conditions, which are proving to be more challenging as the summer months unfold. As June progressed the signals became weaker & further copy was not viable, although it was still possible to hear that the station was present.

M76 Logs

Early Sched

3294	0400z	12 May	EM14 DE P1PV	QTC 416 29 = 26310 0510 . 92080...	BR	THU

Late Sched

3280	1650z	01 May	WK?D DE Y8??	QTC 383 33 = Msgs 366 36 000 30	GD	SUN
	1650z	04 May	ÀONF DE DYYR	QTC 392 34 = (Only one msg) 000 29	GD	WED

Freq change to 3294kHz

3294	1650z	11 May	Signal present but too weak for details		BR/GD	WED
	1650 - 1725z	16 May	63IH DE I7YK	QTC 443 32 = Various msgs	GD	MON
			Other Msgs: 439 25 435 42 434 52 433 54 [Faded out] 405 32 000 24			
	1650z	17 May	A?UC DE M3FE	QTC 448 28 =	GD	WED
			Other msgs: 439 23 435 42 434 52 [Then faded out]			
	1647z	21 May	RK7W DE AÀ1K	QTC 464 35 = Msgs 463 36 000 24	GD	SAT
			000 24 13094 11991 99946 93419 99489 36199 95193 81999 59931 19996			
			89301 99968 93619 9?351 99959 19996 01999 66199 97719 99811			
			99742 93419 99419 36XXX *(Courtesy GD)*			
			(Again, note the number of 99 & 999 sequences contained in the msg - Ed)			
	1650z	23 May	C5LP DE KEAB	QTC 468 26 = Msgs 463 37 000 24	GD	MON
	1648z	25 May	NF2L DE RYÀD	QTC 472 33 = Msgs 463 37 000 24	GD	WED
	1650z	27 May	Call Sign missed	QTC 476 35 = Msgs 477 38 463 37 000 24	GD	FRI
	1650z	29 May	? ?? ? DE NRGS	QTC 480 35 = Msgs 477 38 ...then faded out	GD	SUN
	1650z	10 Jun	W1C4 DE 1B56	QTC 539 21 = Only one additional msg 000 24	GD	FRI
	1650z	14 Jun	37 ? ? DE ÀÙKI	QTC 540 33 = 000 24	GD	TUE

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

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

Another short appearance in May, still with the same message. Is this activity simply an attempt by M97 to retain 'ownership' of the frequency?

10375	1454 - 1515z	05 May	SD84 SN58 Sent 3 times	Poor via Twente, Good via Swedish SDR	BR	THU
	1454 - 1515z	06 May	SD84 SN58 Sent 3 times	Poor via Twente, Good via Swedish SDR	BR	FRI

Morse Stations - Not Number Related

M51 XlX

No reports

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

3881//6825

1130 - 1218z	13 Jun	Lundi-Leçon	21-1/1 Codé	21-1/2 Clair,	21-1/3 Codé,	21-1/4 Clair (420 grps/hr)	BR	MON
1130 - 1211z	14 Jun	Mardi-Leçon	22-2/1 Codé	22-2/2 Clair,	22-2/3 Codé,	22-2/4 Clair (600 grps/hr)	BR	TUE
1130 - 1156z	30 Jun	Jeudi- Leçon	04-2/1 Codé,	04-2/2 Clair,	04-2/3 Codé,	04-2/4 Clair (840 grps/hr)	BR	THU

M89 O

This is a summary of activity from the M89 stations. The usually prolific logging by Jean-Paul, (JPL) has been frustrated of late by the unavailability of some of the online SDR's - Particularly the Hong Kong portal, a most useful resource for this & several other more distant stations.

Operator Chat from M89

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

3682	4241 4306 4444 4720	5349 5416 5419 5496 5519 5555 5566 5576 5588 5645 5670	6666 6866 6876 6893 6905 6969	7783

New Scheds for May/June 2016: **From logs submitted from JPL**

3636//NRH Known 3A7D frequency First heard 20 Jun V DKG6 (x3) DE 3A7D (x2) (Switched back to 3642kHz on 23 June).

Chart of M89 Freq & Call signs heard in May/June 2016 **New Scheds shown in Bold Type**

Freq in KHz	Call Slip
3300//NRH	V MW3D (x3) DE 2SLC (x2)
3636//NRH	**V DKG6 (x3) DE 3A7D (x2)**
3642//NRH	V DKG6 (x3) DE 3A7D (x2)
3642//7602	V DKG6 (x3) DE 3A7D (x2)
4131//NRH	V JKDJ (x3) DE SLBC (x2)
4322//NRH	V B9GJ (x3) DE FSC8 (x2)
4720//NRH	VVV WNF (x3) DE FXM (x2)
4860// NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
4860// 6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
4990//NRH	V J3SU (x3) DE RTIB (x2)

Freq in kHz	Call Slip
5177//NRH	V JKDJ (x3) DE SLBC (x2)
5588//NRH	V MW3D (x3) DE 2SLC (x2)
5801//NRH	V DKG6 (x3) DE 3A7D (x2)
5801//10180	V DKG6 (x3) DE 3A7D (x2)
6840//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
7602//NRH	V DKG6 (x3) DE 3A7D (x2)
10180//NRH	V DKG6 (x3) DE 3A7D (x2)
10640//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K

Courtesy JPL

M89 6876kHz 1709 (IP) - 1720z 06 Jun

1359 R K (IP – Hand sent – Fading – 1709z)
OK PSE .. K (Other station also on this frequency)
R R TBT A5D4 AUN7 D53N TAU5 TAD3 3T5D (Cont'd – 1709z)
R R MSG GA
R MSG
NR .037... CK .13. 06011. RMKS 4..55..59 TO 45.7.5.54 BT (1714z)
R R GA (Into tfc – too weak/fading to copy – 1715z)
R QSL 0118 R K (1718z)
R GA
NR 1098CK 62 78 0607 0200 RMKS 4537451353.. 53..452359 R K R GA K
R BT .4N3 7DNT A47. A... (Cont'd – fading – 1720z)
(Via Remote tuner Siberia)

M89 6905kHz 1726 (IP) - 1727z 06 Jun16
6TD3 6.54 35AN D.T3 D3AN AN54 (Cont'd – Machine sent – 1726z)
K QSL ? (1726z)
R GA (Other station not on this frequency – 1727z)
(Via Remote tuner Siberia)

M98 6969kHz 1729 (IP) - 1733z 06 Jun16
DE M8TK K (IP – Hand sent - 1729z)
K K K (1730z)
K R AS K (1731z)
OK QRX 26286 28712 QSY 36738 37042 QSW M EEEEE 24607 25671 (1732z)
NIL K
SK (1733z)
(Via Remote tuner Siberia)

Courtesy JPL

M89 5588kHz 1325 (IP) - 1333z 22May16

(Lately frequency being used by 2SLC) (Remote tuner Hong Kong)

73U F F F F F F (IP – Machine sent – 1325z)
NR 51001/EX 0E (1325z)
D D
FFF NR 1001/EX 0800 BT BT
AKE.G/K5N AR QSL ? (1326z)
FFF NR 1002EX 0810 BT BT
BKS1/M9N QSL ? (1327z)
BT
BKS K BT BT BT BT BT
BSK1/M9N AR QSL ? (1327z)
BH46 NB546/T7Y 9 AR
BH B5U6/T7Y BT
D3F4/E4R3 BHU6 (1329z)
.../R4H6 AR F BT BT BT
FUG5/Y6U7 D3V6 I//////////
FFF NR NR NR NR AR
FF//// B546..M7Y9 AR
D3F5/E4R3 B5V6/R4E (1330z)
B5V6/T7Y9 (1331z)
FF NR 1002/EX 0810 BT BT
BKS1/MN (1332z)
FFF NR NR NR 1002/EX 0810 BT BT
BKS1/M9N (1333z - Silent

Courtesy JPL

DP Stations

6845//8858	0958 - 1003z	01 May	CQ (x3) DE DP91 (x2) V	NIL SK GB (x12)	(Remote tuner Siberia)	JPL	SUN
	0959 - 1007z	06 May	DP91 (x3) DE CQ (x2) V	HR NIL SK GB (x8)	(Remote tuner Siberia)	JPL	FRI
	1005 - 1005z	07 May	CQ (x3) DE DP91 (x2) V	HR NIL SK GB (x5)	(Remote tuner Hong Kong)	JPL	SAT
	0956 - 1010z	10 May	CQ (x3) DE DP91 (x2) V	HR NIL SK GB (x6)	(Remote tuner Hong Kong)	JPL	TUE
	1003 - 1007z	12 May	CQ (x3) DE DP91 (x2) V	HR NIL SK GB (x10)	(Remote tuner Siberia)	JPL	THU
	1002 - 1005z	17 May	CQ (x3) DE DP91 (x2) V	HR NIL SK GB (x 6)	(Remote tuner Siberia)	JPL	TUE
6845	1004 - 1007z	07 Jun	DP91 (x3) DE CQ (x2) V	HR NIL SK GB (x3)	(Remote tuner Siberia)	JPL	TUE

M95 O XSV, XSV70, XSV85

M95 Morse Logs

4241//NRH 05 05 05 Using call KEL6

1151 (IP) - 1212z 26 May Calls to various call signs - Hand sent (Remote tuner Hong Kong) JPL THU

VVV 8GFE DE KEL6 K VVV BBV7 DE KEL6 K VVV DE3M DE KEL6 K VVV OYHX DE KEL6 K
VVV D8RG DE KEL6 K VVV 4AD3 DE KEL6 K VVV P9RT DE KEL6 K VVV C2IL DE KEL6 K
VVV 8ESQ DE KEL6 K K

4243//9054 **This appears to be a new M95 station, as message number differs from current XSV70 and XSV85 message numbers**
All logged via Remote tuner Hong Kong unless stated.

1138 (IP) - 1159z	02 May	NR 03 . 8 35 0502 1517 BT NR 04 225 35 0502 1612 BT	(Very weak/fading)	JPL	MON
1144 (IP) - 1209z	05 May	NR 045 25 35 0505 1513 BT NR 101 37 35 0505 1618 BT NR 027 24 35 0505 1616 BT		JPL	THU
1138 (IP) - 1157z	06 May	NR 0476 CK 23 35 0506 1520 BT NR 12 CK 117 35 0506 1623 BT NR 030 CK 21 35 0506 1651 BT	(NR ? – bad Op.)	JPL	FRI
1140 (IP) - 1151z	08 May	NR 0 .2 CK 11 35 0508 15 .3 NR 051 CK 1 . 35 0508 1503 NR 1 . CK 133 35 0508 1604		JPL	SUN
1142 (IP) - 1158z	09 May	NR 53 CK 23 35 0509 1521 BT NR 039 CK 31 35 0509 1540 BT NR 18 CK 098 35 0509 1618 BT		JPL	MON
1140 (IP) - 1157z	10 May	NR 05. CK 19 35 0510 1520 BT NR 20 CK 162 35 0510 1600 BT NR 042 CK 16 35 0510 0657 BT		JPL	TUE

	1138 (IP) - 1207z	12 May	NR 059 CK 33 35 0512 153 . NR 048 CK 25 35 0512 1 .35 NR 24 CK 174 35 0512 1718		JPL	THU
	1152 (IP) - 1202z	14 May	NR 005 30. 34 35 0514 1518 BT NR 28 CK 135 35 0514 1618 BT NR 054 CK 24 35 0514 1656 BT		JPL	SAT
	1149 (IP) - 1156z	17 May	A HR UP S. WK AR AR (1155z) Switched to voice		JPL	TUE
	1138 (IP) - 1204z	19 May	NR 073 19 35 0519 1521 BT NR 38 99 35 0519 1605 BT		JPL	THU
	1146 (IP) - 1208z	23 May	NR 089 CK 19 35 0523 1518 BT NR 081 CK 23 35 0523 1618 BT NR 46 CK 150 35 0523 1637 BT		JPL	MON
	1205 (IP) - 1208z	26 May	36T 33A N3U 373 4T7 445 3UN 354	(No msg headers logged)	JPL	THU
	1147 (IP) - 1152z	27 May	NR 089 CK 19 35 0527 1515 BT NR 54 CK 116 35 0527 1628 BT	(//9054 Not checked)	JPL	FRI
	1139 (IP) 1203z	31 May	NR 067 21 35 053A1 EE 16 BT NR 62 13 35 35 0531 1612 BT NR 0 .6 06 35 0531 1635 BT		JPL	TUE
	1141 (IP) - 1205z	01 Jun	NR 099 CK 19 35 0601 1511 BT NR 02 CK 139 35 0601 1617 BT NR 009 CK 15 35 0601 1659 BT		JPL	WED
	1139 (IP) - 1159z	02 Jun	NR 001 ... .. 35 0602 15.9 BT NR 12 15 35 0602 1 .47 BT NR 04 110 35 0602 1644 BT	(Weak/fading)	JPL	THU
	1138 (IP) - 1152z	03 Jun	NR 003 2 . 35 0603 051. BT NR 06 . 27 35 0603 1657 BT	(Weak/fading)	JPL	FRI
	1144z (IP)	07 Jun	NR 011 CK 22 35 0607 1525 BT	(//9054 Not checked)	JPL	TUE
	1149 (IP) - 1226z	14 Jun	NR 025 CK 23 35 0614 1525 BT NR 28 CK 153 35 0614 1548 BT NR 048 CK 42 35 0614 1612 BT		JPL	TUE
4283//7553	Call sign XSV70					
	1301 (IP) - 1339z	03 May	NR 371 CK 128 35 0503 1542 NR 372 CK 223 35 0503 1540	(Remote tuner Hong Kong)	JPL	TUE
4284//7554	Call sign XSV70					
	1001z (IP)	07 May	IP - Extremely weak - unable to copy - // 7554	(Remote tuner Hong Kong)	JPL	SAT
4780	05 05 05					
	1407 (IP) - 1412z	05May	Mainly Op. chat then 05 05 05 05 BT (Long zero)	(Remote tuner Siberia)	JPL	THU
5500	(This frequency normally used by QV5B, so probably M95)					
	0850 (IP) - 0900z	09 Jun	NR 1491 CK 67 24 0609 1630 RMKS CQ BT	(Remote tuner Hong Kong)	JPL	THU
	1927 (IP) - 1941z	09 Jun	5 05 55 05 505 05 (Long zero) & 4 character msgs	(Remote tuner Hong Kong)	JPL	THU
	2125 (IP) 0 2137z	09 Jun	NR 165. CK 66 24 0610 0600 RMKS 2209 TO 2225 K	(Remote tuner Hong Kong)	JPL	THU
5555	05 05 05					
	1114(IP) - 1117z	07 Jun	05 05 05 05 05 05 (Long zero) TTKK ... (Second stations now on freq – unable to copy either station – 1117z) 37AD A44N TT6D A44 U5A.. 763N5 557A 3D7U 66.. (Cont'd – Too weak to copy)	(Remote tuner Hong Kong)	JPL	TUE
6666	05 05 05					
	1126 (IP) - 1127z	31 May	05 05 05 VVV (Long zeros) 37N. .D7.37.GA NR 05 05 05 05 T.7.GA RT. 5TUD. 7AD3..	(Remote tuner Hong Kong)	JPL	TUE
7554//9152	Call sign XSV70					
	0904 (IP) - 0942z	18 May	NR 415 CK 111 35 0518 0654 NR 416 CK 9 . 35 0518 15 .7 NR 417 CK 192 35 0518 1607	(Remote tuner Hong Kong)	JPL	WED

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.

1130 - 1137z	02 May	NR 0347 CK 133 35 0502 1555 BT		JPL	MON
1128 - 1136z	06 May	NR 0355 CK 149 35 0506 1542 BT		JPL	FRI
1130 - 1141z	09 May	NR 0361 CK 283 35 0509 1608 BT		JPL	MON
1129 - 1139z	10 May	NR 0363 CK 220 35 0510 1553 BT		JPL	TUE
1130 - 1137z	12 May	NR 0367 CK 170 35 0512 1608 BT		JPL	THU
1133 - 1212z	14 May	NR 0371 CK 306 35 05A4 1603 BT		JPL	SAT
		NR 0372 CK 42 35 0514 1610 BT			
1130 - 1149z	17 May	NR 0383 CK 99 35 0517 1533 BT		JPL	TUE
		NR 0384 CK 25 35 0517 1536 BT			
1128 - 1138z	19 May	NR 0388 CK 249 35 0519 1607 BT		JPL	THU
1130 - 1147z	22 May	NR 0394 CK 44 35 0522 1603 BT		JPL	SUN
		NR 0395 CK 212 35 0522 1607 BT			
0001 - 0016z	23 May	NR 0396 CK 109 35 0523 0708 BT		JPL	MON
		NR 0397 CK 44 35 0523 0716 BT			
1129 - 1144z	23 May	NR 0398 CK 20. 35 0523 1547 BT		JPL	MON
1131 - 1146z	26 May	NR 0410 CK 76 35 0526 1628 BT		JPL	THU
		NR 0411 CK 281 35 0526 1728 BT			
0001 - 1138z	31 May	NR 04.5 CK 110 35 0531 0705 BT	(Message number probably 0425)	JPL	TUE
1128 - 1138z	31 May	NR 0426 CK 191 35 0531 1521 BT		JPL	TUE
1131 - 1140z	01 Jun	NR 0428 CK 175 35 0601 1630 BT		JPL	WED
1131 - 1137z	02 Jun	NR 0430 CK 163 35 0602 16 . . BT	(Weak/fading)	JPL	THU
1130 - 1137z	03 Jun	NR 0432 CK 94 35 0604 0. 35		JPL	FRI
1129 - 1143z	07 Jun	NR 0440 CK 137 35 0607 1546 BT		JPL	TUE
1132 - 1140z	09 Jun	NR 0444 CK 289 35 0609 1559 BT		JPL	THU
0006z	14 Jun	In progress	(Too weak to copy message number)	JPL	TUE
1129 - 1143z	14 Jun	NR 0463 CK 53 35 0614 1530 BT		JPL	TUE
		NR 0464 CK 154 35 0614 1558 BT			

9054 Call sign XSV85 All logged via Remote tuner Hong Kong unless stated

2338z (IP)	02 May	(Too weak to copy)		JPL	MON
2340 (IP) - 2358z	05 May	NR 0128 CK 25 35 0506 0..2 BT (Fading badly)	(Remote tuner Siberia)	JPL	THU
		NR 046 CK 25 35 0506 062. BT (Too weak to copy any longer)			
2340 (IP) - 2359z	09 May	NR 040 CK 18 35 0510 06	(Remote tuner Siberia)	JPL	MON
		NR 040 CK 18 35 0510 0622 BT			
		NR 054 CK 21 35 0510 0616			
2338 (IP) - 2340z	18 May	(Switched to CW - 2343z - Too weak to copy)		JPL	WED
2342 (IP) - 2350z	22 May	VVV (Switched to CW – To weak to copy - 2350z)		JPL	SUN
2340 (IP) - 2350z	30 May	VVV (Switched to CW - To weak/noisy to copy - 2350z)			

M95 4243kHz 1140 (IP) - 1157z 10 May 2016
(Remote tuner Hong Kong)

In progress Chinese digital 4+4 QPSK 75/3000 - LSB)
V (Switched to CW - Hand sent - 1145z)
VVV (1145z)
HR 7G TOYR PSE CY
NR 05. CK 19 35 0510 1520 BT
5TD UTT TAT (Cont'd – 1146z)
AR
A HR 7G TOYR EEEEEE
A HR 7G GA
NR 20 CK 162 35 0510 1600 BT
UTU TAT 3U6 3A4 TTU 773 35A (Cont'd – 1148z)
AR (1155z)
A HR 7G GA
NR 042 CK 16 35 0510 0657 BT
UT5 TAT 3U6 3A4 TTA TTU TT3 773 35. (Cont'd –1156z)
AR
A HR UP SB WK AR AR AR (1156z)

Switched to Voice – USB – Female – Chinese
Now V26 Sked – 1157z

M95 3682kHz 1415 (IP) - 1425z 14 May 2016
(Remote tuner Siberia)

QSL 2213 KK
MSG NR 1480 CK 61 51 0514 2150 RMKS 7620080 TO 7620085 K K (1416z)
BT BT
..ND TU3A 6TN7 34UA N6U7 64AU AN4U 4NUT 537U 5A74 5AT3 (Cont'd – Machine sent – 1417z)
AR K K (1419z)
R GA (1419z)
GA GA (1421z)
R QSL 2223 QSL 2223 K K (1425z)
KP KP (1425z)

Courtesy JPL

M95 8073kHz 1130 - 1149z 17 May 2016

V BNGC (x3) DE XSV85 (x2) (Cont'd)

(Remote tuner Hong Kong)

Initial call-up in voice USB - 1130z - Male operator
Then to Chinese digital 4+4 QPSK 75/3000 - LSB

V BNGC (x3) DE XSV85 (x2)

Switched to CW - Cont'd – Hand sent - 1134z

HR MSGS GA PSE CY (1136Z)
NR 0383 CK 99 35 0517 1533 BT BT
TA7 3U6 3AN 3U7 TAU 773 TA. 773 (Cont'd – 1137z)
AR
MSG AGN
NR 0383 CK 99 35 0517 1533 BT BT
TA7 3U6 3AN 3U7 TAU 773 TA7 773 353 4T3 NN3 (Cont'd – 1142z)
AR
A HR MSG GA
NR 0384 CK 25 35 0517 1536 BT BT
TT5 N5U TA7 N53 TAD N54 7TT TT7 746 7T5 (Cont'd – 1146z)
AR
MSG AGN
NR 0384 CK 25 35 0517 1536 BT BT
TT5 N5U TA7 N53 TAD N54 7TT TT7 (Cont'd – 1148z)
AR AR

Switched to voice – USB – Male – Chinese

Now V26 sked – 1149z

Courtesy JPL

Marker Beacons (MX MXI)

4150	2026z	14 Jun	MX CW Beacon "V" CW Beacon	TUE
5153.7	0130z	14 Jun	MXI CW Beacon "D" Sevastopol	TUE
5153.9	0130z	14 Jun	MXI CW Beacon "S" Sevoromorsk	TUE
5154	0130z	14 Jun	MXI CW Beacon "C" Moscow	TUE
5156.8	2028z	14 Jun	MX CW Beacon "L" (Fast)	TUE
7508.7	0135z	14 Jun	MXI CW Beacon "D" Sevastopol	TUE
7508.9	0135z	14 Jun	MXI CW Beacon "S" Sevoromorsk	TUE
8494.9	0138z	14 Jun	MXI CW Beacon "S" Sevoromorsk	TUE
8497.8	0140z	14 Jun	MX CW Beacon "L" St Petersburg	TUE
10871.7	0141z	14 Jun	MXI CW Beacon "D" Sevastopol	TUE
10871.9	0141z	14 Jun	MXI CW Beacon "S" Sevoromorsk	TUE
10872	2032z	14 Jun	MXI CW Beacon "C" Moscow	TUE
13527.7	0143z	14 Jun	MXI CW Beacon "D" Sevastopol	TUE
13527.9	0143z	14 Jun	MXI CW Beacon "S" Sevoromorsk	TUE

Contributors: AB, AnonUS, BR, CB, Daniel/AR, DanielE2Kde, E.SMITH, GD, Gert, HFD, Jan O, JkC, JPL, PLdn, RNGB, tiNG, Uascan
Thank you all for your logs.

Voice Stations and other modes

E06

PoSW writes, Not too much activity from the depressed sounding E06 man these days.

First + Third Thursdays in the Month 2030 UTC Schedule:-
5-May-16:- 5,948 kHz, a seasonal change of frequency to a spot inside the 49 metre broadcast band, a very strong station on 5,950 making E06 just about unreadable, as has been the case during the summer months for the past few years. But something most unusual happened on the third Thursday in May:-

19-May-16:- 5,940 kHz - a move in frequency to be well clear of any broadcast interference; someone must have reported the difficulty of copying the message, this has not happened in past summers. Calling "724", DK/GC "569 569 63 63, same as heard on the Friday E06 on 6-May and later in the month on the German language Thursday G06 on 26-May. S9 signal, started about a minute before the half-hour.

2-June-16:- 5,948 kHz, has moved back to a spot 2 kHz away from a rock-crusher of a broadcast station; strange! Extremely difficult copy.

Friday 2130 UTC Schedule following First + Third Thursdays:-
6-May-16:- 5,731 kHz, call "315", DK/GC "569 569 63 63".

20-May-16:- 5,731 kHz, "315" and "569 569 63 63" again as on 6-May and the same 5Fs as yesterday's 2030Z transmission on 5,940. S9+, very strong signal.

3-June-16:- 5,731 kHz, "315" and "569 569 63 63", started early, in progress when tuned in just before the half-hour, into 5Fs at 2133Z.

17-June-16:- 5,731 kHz, started a few seconds before the half-hour, "315" and "569 569 63 63" yet again.

E07

An unexpected change to the Monday + Wednesday 1900 UTC schedule in June:- did not show up on the frequencies used in June of past few years, but found on new frequencies and with SSB instead of the hitherto AM.

Sunday + Wednesday Schedule, 1700 UTC Start:-
1-May-16, Sunday:- 1700 UTC, 14,763 kHz, "731 731 731 000", S8, audio low but readable.
1720 UTC, 13,363 kHz, second sending, over S9.

4-May-16, Wednesday:- 1700 UTC, 14,763 kHz, "731 731 731 000", S9 carrier, audio low.

11-May-16, Wednesday:- 1720 UTC, 13,363 kHz, second sending, "731 731 731 000", over S9 with better than usual audio.

15-May-16, Sunday:- 1700 UTC, 14,763 kHz, "731 731 731 000", S9, reasonable audio

18-May-16, Wednesday:- 1700 UTC, 14,763 kHz, and 1720 UTC, 13,363 kHz, both S9 with reasonable audio, "731 731 731 000".

25-May-16, Wednesday:- 1700 UTC, 14,763 kHz, and 1720 UTC, 13,363 kHz, both S9, audio low but readable, "731 731 731 000".

1-June-16, Wednesday:- 1700 UTC, 14,842 kHz, a "full message" for a change, "841 841 841 1", DK/GC "884 41" x 2. S9 with reasonable audio.

1720 UTC, 13,442 kHz, second sending, over S9.
1740 UTC, 12,142 kHz, third sending, very strong S9+ signal, over-riding BC station on 12,140.

8-June-16, Wednesday:- 1700 UTC, 14,842 kHz, another "full message", DK/GC "528 42" x 2, peaking over S9.
1720 UTC, 13,442 kHz, second sending, and 1740 UTC, 12,142 kHz, third sending over-riding the broadcaster on 12,140.

12-June-16, Sunday:- 1720 UTC, 13,442 kHz, second sending, "841 841 841 1", DK/GC "528 42" x 2, same as on Wednesday. S9 signal. Thunderstorm nearby, thunder in the distance and loud crashes of lightning static on the radio.
1740 UTC, 12,142 kHz, third sending, S9 with QSB, no sign of the broadcast station on 12,140 noted on past occasions in June; thunderstorm very close, unplug the radios and ground the antennas at this point!

22-June-16, Wednesday:- 1700 UTC, 14,842 kHz, "841 841 841 000", S6 at best.
1720 UTC, 13,442 kHz, second sending, stronger signal, S9 with QSB.

26-June-16, Sunday:- 1700 UTC, 14,842 kHz, "841 841 841 000", peaking S9, audio low but readable.

Monday + Wednesday Schedule, 1900 UTC Start:-
2-May-16, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", over S9, audio low but readable.
1920 UTC, 13,412 kHz, second sending on the same frequency as a strong "XJT" which was also churning away in the month of May in past years.

11-May-16, Wednesday:- 1900 UTC, 14,812 kHz, "845 845 845 1" for a full message, DK/GC "9323 59" x 2.
1920 UTC, 13,412 kHz, second sending, unreadable under strong "XJT".
1940 UTC, 11,512 kHz, third sending, over S9 with reasonable audio.

16-May-16, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", over S9 with better than usual audio.
1920 UTC, 13,413 kHz, second sending, suffering from strong "XJT".

23-May-16, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9+ with reasonable audio.

6-June-17, Monday:- unable to find this schedule, frequencies in June of past years were 15,824 + 14,624 + 13,524 kHz, call "865". Contact re-established a couple of days later, new frequencies and mode of transmission:-

8-June-16, Wednesday:- 1902 UTC, 16,328 kHz, just caught the end of the call-up, S9 SSB signal, or "upper side-band suppressed carrier", "384 384 384 1", DK/GC "688 34" x 2.
1920 UTC, 14,828 kHz, second sending, S9+ SSB signal.
1940 UTC, 13,428 kHz, third sending, also S9+.

13-June-16, Monday:- 1900 UTC, 16,328 kHz, "384 384 384 1", DK/GC "688 34" x 2, same as on the 8th, total transmission time 6 minutes.
1920 UTC, 14,828 kHz, second sending, S9.
1940 UTC, 13,428 kHz, third sending, also S9.

15-June-16, Wednesday:- 1900 UTC, 16,328 kHz, "384" and "688 34" again, much weaker signal, only just moving the 'S' – meter.
1920 UTC, 14,828 kHz, second sending, much stronger signal, S9.
1940 UTC, 13,428 kHz, third sending, very strong S9+ SSB signal.

20-June-16, Monday:- 1900 UTC, 16,328 kHz, "384 384 384 1", DK/GC "255 21" x 2, weak signal, sinking into the noise and becoming inaudible at times.
1920 UTC, 14,828 kHz, second sending, much stronger signal, peaking S9, total transmission time 4 minutes 35 seconds.
1940 UTC, 13,428 kHz, third sending, S9+, what a contrast with the 1900Z transmission.

22-June-16, Wednesday:- 1900 UTC, 16,328 kHz, "384" and "255 21" again, stronger signal than on Monday, S5.
1920 UTC, 14,828 kHz, and 1940 UTC, 13,428 kHz, repeats both S9.

27-June-16, Monday:- 1900 UTC, 16,328 kHz, "384 384 384 000", very weak signal, difficult copy.
1920 UTC, 14,828 kHz, second sending with a stronger signal although only about S4 to S5.

Thursday Schedule, 2010 UTC Start:-
5-May-16:- 2010 UTC, 11,539 kHz, "553 553 553 000", over S9, audio low but readable.
2030 UTC, 10,547 kHz, second sending, also with low audio.

12-May-16:- 2010 UTC, 11,539 kHz, S9 with reasonable audio, "553 553 553 000".

26-May-16:- 2010 UTC, 11,539 kHz, "553 553 553 000", over S9, reasonable audio.
2030 UTC, 10,547 kHz, second sending, S9.

2-June-16:- 2010 UTC, 12,213 kHz, "273 273 273 000", S9+ with reasonable audio.
2030 UTC, 10,714 kHz, second sending, also S9+.

9-June-16:- 2010 UTC, 12,213 kHz, S9 with QSB, and 2030 UTC, 10,714 kHz, S9+, slight interference from a weaker FSK signal on a close frequency, "273 273 273 000".

Other's logs

Sunday/Wednesday

May 2016

1700z	**14763kHz**	**1720z**	**13363kHz**	**1740z**	**12163kHz**	
01/05	731 000			[1700z NRH, poor condx]		Fair, noisy
04/05	731 000					Strong

08/05	731 000	[1700z NRH, poor condx]	Strong
11/05	731 000		Very strong
18/05	731 000		Strong
22/05	731 000		Fair
29/05	731 1 884 41.....		Very weak, unworkable

June 2016

1700z	**14842kHz**	**1720z**	**13442kHz**	**1740z**	**12142kHz**	
01/06	841 1 884 41 40735 ... 37025 000 000					Very strong

841 1 884 41
40735 28532 30128 30909 96771 78003 36602 11473 80117 00463
71800 79279 56124 83811 39686 95651 38858 28045 13812 26565
52487 83567 84899 34224 52209 53047 15381 93351 08371 24521
43331 60231 81162 04826 88460 75908 58670 69634 10431 92392
37025
000 000 *Courtesy JkL*

05/06	841 000	Very strong
08/06	841 1 528 42 64624 … 00290 000 000	Strong
12/06	841 1 528 42 64624 … 00290 000 000	Weak, noisy
15/06	841 000	Very strong
19/06	841 000	Fair
22/06	841 000	Fair
26/06	841 000	Fair
29/06	841 1 315 125 47724 ... 53107 000 000	[Brk tx 1721z] Very strong

841 1 315 125
47724 00834 86968 50886 14370 92517 86723 01518 80144 66586
35369 52716 49551 98151 16044 36845 79428 42915 40247 65092
78276 94987 03335 15404 68349 92262 35707 30915 99666 33018
67578 74436 12126 37226 35416 83070 50207 31230 44652 57524
73879 23379 36901 09040 84819 28596 86271 19407 44133 60161
83370 82964 46182 46172 61674 52026 71544 32433 48770 47118
26159 06802 68037 16949 01652 30573 43479 50936 49334 83046
59487 24190 27377 74070 50805 83687 77604 08895 05024 19399
37338 39461 28871 70408 90505 36914 60585 18149 91924 37137
26993 35844 89981 82701 59544 15430 31052 36258 84616 24239
97562 95878 68690 08975 18435 48584 10790 75175 72226 77710
45644 76687 39102 56550 55835 04446 42849 96378 32590 57825
34516 74104 33922 10313 53107
000 000 *Courtesy AB*

Monday/Wednesday

May 2016

1900z	**14812kHz**	**1920z**	**13412kHz**	**1940z**	**11512kHz**	
02/05	845 000			[BCQRM3 present on both]		Strong
04/05	845 000			[BCQRM3 present on both]		Fair
09/05	845 1 9323 59 39896 ... 49727 000 000			[1900/1920z weak]		Very strong
11/05	845 1 9323 59 39896 ... 49727 000 000			[1900z weak,1920z NRH QRM5]		Very strong
16/05	845 000					Very strong
18/05	845 000					Very strong
30/05	845 1 837 25 99245 ... 87534 000 000					Very strong

June 2016

Change of expected freqs and mode to USB

1900z	**16328kHz**	**1920z**	**14828kHz**	**1940z**	**13428kHz**	
01/06	865 1 837 25 99245 ... 87534 000 000					Very strong

865 1 837 25
99245 71174 46671 19549 53174 47051 04215 78754 54607 54066
24353 36977 97489 27640 66767 92652 60647 00265 36459 88055
94257 61332 28727 40617 87534
000 000 *Courtesy JkL*

06/06 384 1 688 34 20828 ... 26911 000 000 [1900/1920z NRH] Fair

384 1 688 34
20828 63024 54686 15217 33820 19147 57245 46892 83694 57060
42102 73449 66089 29065 63632 00313 80781 10806 23600 41639
98170 45981 82389 69683 47391 12910 95433 64776 97343 01978
47786 22688 69928 26911
000 000 *Courtesy JkC*

15/06 384 1 688 34 20828 ... 26911 000 000 [1900z QRM5] Very strong

20/06 384 1 255 21 25083 ... 13641 000 000 [1900z unworkable] Strong

384 1 255 21
25083 08288 27062 55135 15354
99857 75571 64692 75001 49542
21910 92458 82144 64285 75935
76461 83511 79130 79917 86000
13641
000 000 *Courtesy M8*

22/06 384 1 255 21 25083 ... 13641 000 000 [1900z unworkable] Strong

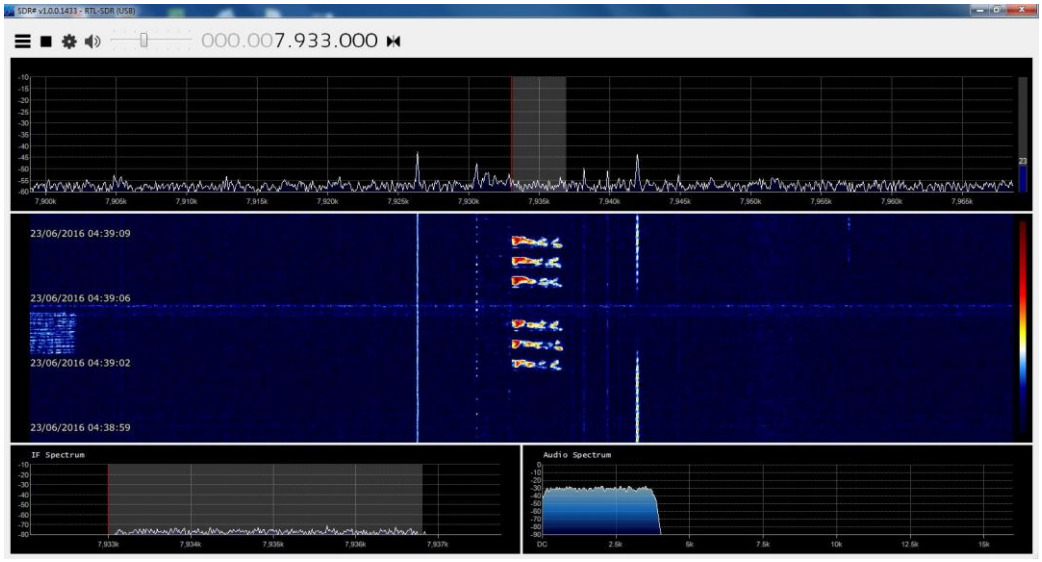
27/06 384 000 Weak

29/06 384 000 Very strong

Thursday

May 2016

2010z	**11539kHz**	**2030z**	**10547kHz**	**2050z**	**9388kHz**	
05/05	553 000					Fair
19/05	553 000					Weak audio, strong carrier
26/05	553 000					Weak audio, strong carrier



End of E07 23/06 273 000 Fair, QSB3

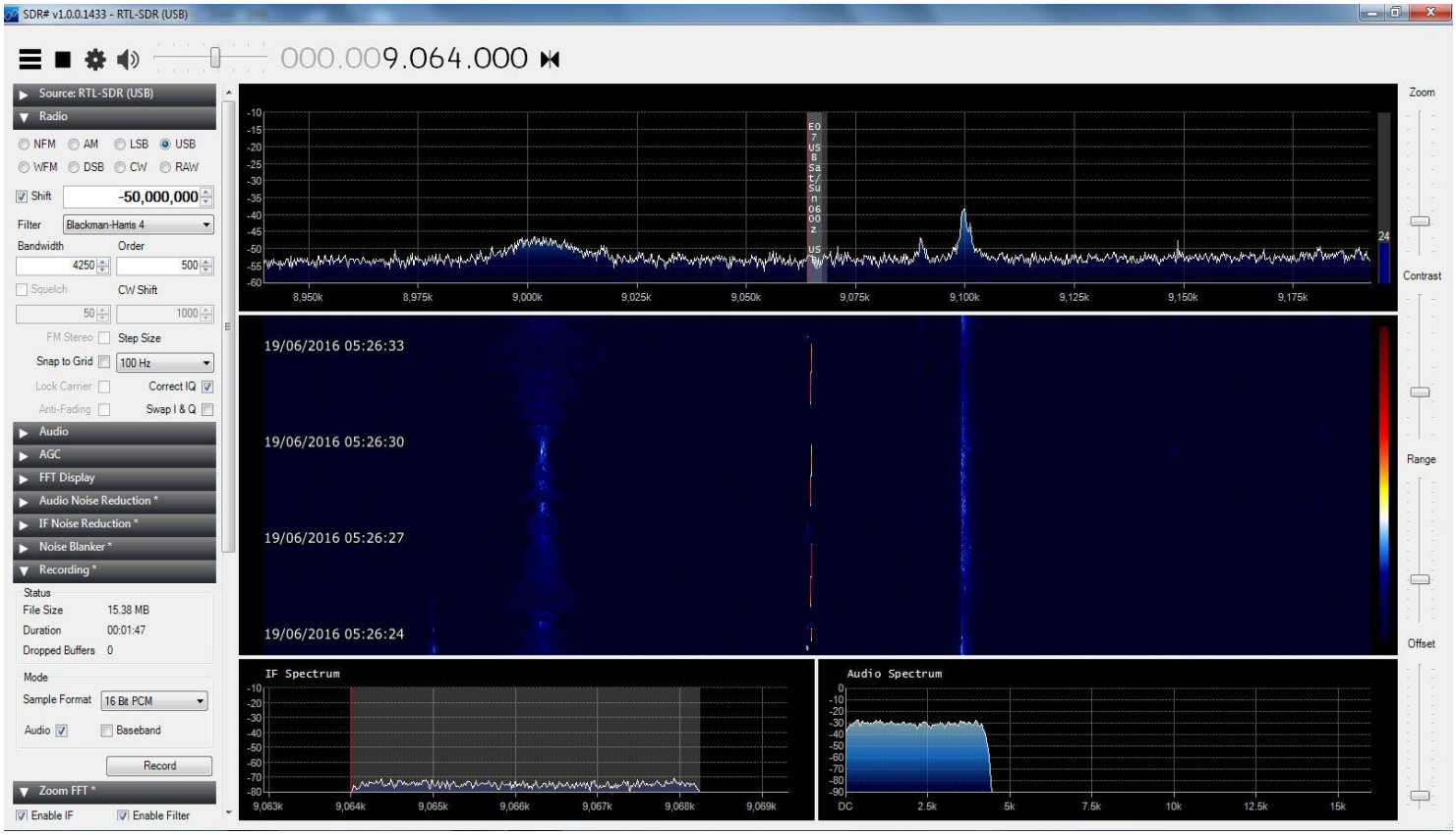
June 2016

2010z	**12213kHz**	**2030z**	**10714kHz**	**2050z**	**9347kHz**	
02/06	273 000					Very strong
09/06	273 000					Weak
16/06	273 000					Fair
23/06	273 000		[See image above]			Fair, QSB3
30/06	273 000					Fair to strong

Saturday/Sunday

May 2016

0600z	**9064kHz**	**0620z**	**10264kHz**	**0640z**	**11464kHz**	
01/05	024 000					Very strong
07/05	024 000					Very weak
08/05	024 000					Very weak
14/05	024 000					Fair
15/05	024 000			[0620z Extremely weak]		Strong
21/05	024 296 70 90750 ... 07232 000 000					Fair
22/05	024 296 70 90750 ... 07232 000 000					Very strong
29/05	024 296 70 90750 ... 07232 000 000					poor copy UK



X06 1/6 sequence ahead of E07 transmission [19/06 024 1 259 28 95452 ... 14042 000 000]

June 2016

04/06	024 1 296 70 90750 ... 07232 000 000		Weak
05/16	024 1 290 70 90750 ... 07232 000 000	[0620z Unworkable]	Weak
11/06	Unworkable	5m25s lg	Poor Condx NRH
12/06	024 1 259 28 95452 ... 14042 000 000	5m25s lg	Strong
18/06	024 1 259 28 95452 ... 14042 000 000		Strong
19/06	024 1 259 28 95452 ... 14042 000 000		Weak
25/06	024 1 259 28 95452 ... 14042 000 000	[0643z, late start]	Fair
26/06	Unworkable [Rpt of msg - 259]		

E07a

PoSW's logs:

Wednesday Schedule, 2000 UTC Start:-
4-May-16:- 2000 UTC, 12,166 kHz, "172 172 172 000", S9+ SSB signal. And a seasonal change of frequencies to those used in May of last year. 2020 UTC, 10,766 kHz, second sending, also S9+.

11-May-16:- 2000 UTC, 12,166 kHz, a "full message" this evening, "172 172 172 1 33936",
DK/GC "6769 61" x 2, S9+ signal.
2020 UTC, 10,766 kHz, second sending.
2040 UTC, 9,266 kHz, third sending, S9+.

25-May-16:- 2000 UTC, 12,166 kHz, "full message" again, "172 172 172 1 36764", DK/GC "7918 91" x 2, S9+ SSB signal.
2020 UTC, 10,766 kHz, and 2040 UTC, 9,266 kHz, the repeats both S9+ signals.

1-June-16:- 2000 UTC, 12,166 kHz, "172 172 172 000", S9+ signal.

8-June-16:- 2000 UTC, 12,166 kHz, looks like the return of the message heard on 25-May,
172 172 172 1 36764", DK/GC "7918 91" x 2, S9+ signal.
2020 UTC, 10,766 kHz and 2040 UTC, 9,266 kHz, both S9+.

15-June-16:- 2000 UTC, 12,166 kHz, and 2020 UTC, 10,766 kHz, both S9+, "172 172 172 000".

22-June-16:- 2000 UTC, 12,166 kHz, "172 172 172 1 64632", another "full message", DK/GC "7071 79" x 2, the usual S9+ signal.
2020 UTC, 10,766 kHz, and 2040 UTC, 9,266 kHz, both repeats S9+.

Saturday Schedule, 0800 UTC Start:-
7-May-16:- 0800 UTC, 12,177 kHz, "148 148 148 000", S6 to S7.
0820 UTC, 13,477 kHz, second sending, weaker, S5.

14-May-16:- 0800 UTC, 12,177 kHz, "148 148 148 1 31411" for a "full message". DK/GC "2303 57" x 2, S7.
0820 UTC, 13,477 kHz, second sending peaking S7.
0840 UTC, 14,877 kHz, third sending, peaking S7 but fading down into the noise at times.

28-May-16:- 0800 UTC, 12,177 kHz, "148 148 148 000", weak signal, only just audible.
0820 UTC, 13,477 kHz, second sending much stronger, S7.

4-June-16:- 0800 UTC, 13,373 kHz, "338 338 338 000", S8 to S9.
0820 UTC, 14,373 kHz, second sending, slightly weaker signal.

11-June-16:- 0800 UTC, 13,373 kHz, "338 338 338 1 30401" for a "full message", DK/GC "2548 83" x 2, S4 to S5 at best.
0820 UTC, 14,373 kHz, second sending, peaking S6 but sinking into the noise at times.
0840 UTC, 14,873 kHz, third sending, the strongest, up to S8.

18-June-16:- 0800 UTC, 13,373 kHz, S9 signal, and 0820 UTC, 14,373 kHz, much weaker,
"338 338 338 000".

Wednesday

May 2016

2000z	**12166kHz**	**2020z**	**10766kHz**	**2040z**	**9266kHz**	
04/05	172 000					Very strong QSB3
11/05	172 1 33936 6769 61 95503 ... 75726 000 000					Very strong
18/05	172 000					Very strong
25/05	172 1 36764 7918 91 98151 ... 45756 000 000					Very strong

June 2016

01/06	172 000	Very strong, ICW under:

82728 80857 42365 83728 02973
17-11 638-3 53014 2-224 010--
K [0 sent as 'T']

08/06	172 1 36764 7918 91 98151 ... 45756 000 000	Very strong
15/06	172 000	Very strong
22/06	172 1 64632 7071 79 33725 ... 02837 000 000	Very strong
29/06	172 000	Very strong

Thursday

May 2016

0430z	**7933kHz**	**0450z**	**9133kHz**	**2040z**	**10233kHz**	
05/05	912 000					Very strong
12/05	912 1 33936 6769 61 95503 ... 75726 000 000					Strong
19/05	912 000					Very strong
26/05	912 1 36764 7918 91 98151 ... 45756 000 000					Very strong

June 2016

02/06	912 000	Very strong
09/06	912 1 36764 7918 91 98151 ... 45756 000 000	Very strong
16/06	912 000	Very strong
23/06	912 1 64632 7071 79 33725 ... 02837 000 000	Very strong

912 1 64632 7071 79
33725 05175 91173 22165 83808 52252 54302 53583 45825 74615
47556 92743 11724 69310 51688 62820 90496 15767 74726 26500
84405 28183 26917 68128 07227 49306 72512 46656 60122 62397
02633 87795 09386 62866 38752 36243 14280 23488 54394 85396
05635 58167 65469 23306 06799 86050 16827 58167 49893 07030
95565 96111 67099 09742 52961 69228 28459 99651 58527 75007
15484 55668 21240 04962 72142 96593 37557 74973 35594 82502
59024 56281 18079 70139 04354 78751 57852 47189 02837
000 000 *Courtesy AB*

30/06	912 000	Very strong

Friday

May 2016

1510z	**12182kHz**	**1530z**	**11082kHz**	**1550z**	**10182kHz**	
06/05	101 000					Fair
13/05	101 1 31411 2303 57 75046 ... 98201 000 000					Strong
20/05	101 000					Weak

June 2016

03/06	101 000	Fair
10/06	101 2548 83 2548 83 89987 ... 10529 000 000	Fair
24/06	101 000	Fair

Saturday

May 2016

0800z	**12177kHz**	**0820z**	**13477kHz**	**0840z**	**14877kHz**	
07/05	148 000					Fair
14/05	148 1 31411 2303 57 75046 ... 98201 000 000					Fair
21/05	148 000					Strong/Very strong
28/05	148 000					Fair

June 2016

0800z	**13373kHz**	**0820z**	**14373kHz**	**0840z**	**14873kHz**	
04/06	338 000					Weak/Fair
11/06	338 2548 83 2548 83 89987 ... 10529 000 000					Fair
18/08	338 000					Strong
25/06	338 000					Weak

E11 log May/June

4783kHz	1605z	03/05 [232/00] Out 1608z S2	Malc	TUE
	1605z	08/05 [232/00] Out 1608z S2	Malc	SUN
	1605z	10/05 [232/00] Out 1608z QSA3 QRM1 QSB1	JkC, Malc	TUE
	1605z	31/05 [232/00] Out 1608z S2	Malc	TUE
	1605z	07/06 [232/00] Out 1608z S2	Malc , JkC	TUE
	1605z	28/06 [232/00] Out 1608z S2	Malc	TUE
5149kHz	0455z	24/06 [363/00]	Ary	FRI
6797kHz	0820z	09/05 [438/00] Out 0823z S3	Malc	MON
	0820z	12/05 [438/00]	RNGB	THU
	0820z	23/05 [438/00] Out 0823z	Ed Smith	MON
	0820z	30/05 [438/00] Out 0823z S2	Malc	MON
6807kHz	0820z	02/06 [438/00] Surprised to find this 10kcs up from usual frequency	RNGB, JkC	THU
	0820z	06/06 [438/00] Out 0823z S2	Malc	MON
	0820z	09/06 [438/00] Weak	RNGB	THU
	0820z	13/06 [438/00] Out 0823z S2	Malc	MON
	0820z	16/06 [438/00] Fair	RNGB	THU
	0820z	27/06 [438/00] Out 0823z S4	Malc	MON
	0820z	30/06 [438/00] Out 0823z S3	Malc	THU
7984kHz	1730z	01/06 [405/00] Out 1733z QSA3 QRM1 QSB1	JkC	WED
	1730z	15/06 [405/00] Out 1733z S9	Malc	WED
	1730z	18/06 [405/00] Out 1733z S3	Malc	SAT
	1730z	22/06 [405/00] Out 1733z S9	Malc	WED
	1730z	29/06 [405/00] Out 1733z S7	Malc	WED
8088kHz	1730z	05/05 [416/00] Out 1733z S7	Malc	THU
	1730z	02/06 [416/00] Out 1733z QSA4 QRM1 QSB1	JkC	THU
	1730z	23/06 [416/00] Out 1733z S5	Malc	THU
	1730z	30/06 [416/00] Out 1733z S3	Malc	THU
8530kHz	2000z	06/05 [576/00] Out 2003z QSA4 QRM1 QSB1	JkC	FRI
	2000z	13/05 [576/00] Out 2003z S9+10	Malc	FRI
	2000z	03/06 [576/00] Out 2003z S9	Malc	FRI
	2000z	10/06 [576/00] Out 2003z S9	Malc	FRI
	2000z	17/06 [576/00] Bleed through from S11a message on 4870kHz)	RNGB	FRI
8565kHz	0315z	19/05 [253/00] Out 0318z QRM5 STANAG 4285	Ed Smith	THU
	0315z	15/06 [253/00] Out 0318z	Ed Smith	WED
9052kHz	1450z	05/05 [441/00] Out 1453z S2	Malc, JkC	THU
	1450z	17/05 [441/00] Out 1453z S2	Malc	TUE
	1450z	19/05 [441/00] Out 1453z S2	Malc	THU
	1450z	31/05 [441/00] out 1453z S4	Malc	TUE
	1450z	02/06 [441/00] Out 1453z QSA4 QRM1 QSB1	JkC	THU
	1450z	07/06 [441/00] Out 1453z S2	Malc	TUE
	1450z	28/06 [441/00] Out 1453z S4	Malc	TUE
	1450z	30/06 [441/00] Out 1453z S2	Malc	THU
9130kHz	2005z	01/05 [363/00] Out 2008z S9	Malc	SUN
	2005z	14/05 [363/00] Out 2008z S8	Malc	SAT
	2005z	21/05 [363/00] Out 2008z S9	Malc	SAT
	2005z	22/05 [363/00]	Ed smith	SUN
	2005z	29/05 [363/00]	Malc	SUN
	2005z	05/06 [363/00] Out 2008z S9	Malc	SUN
	2005z	18/06 [363/00] Out 2008z S6	Malc	SAT
	2005z	19/06 [363/00] Out 2008z S9	Malc	SUN
	2005z	26/06 [363/00] Out 2008z S9	Malc	SUN
9610kHz	0745z	02/05 [262/00] Out 0748z S6	Malc	MON
	0745z	09/05 [262/00] Out 0748z S7	Malc	MON
	0745z	16/05 [262/00] Out 0748z S4	Malc	MON
	0745z	30/05 [262/00] Out 0748z S3	Malc	MON
	0745z	06/06 [262/00] Out 0748z S3	Malc	MON
	0745z	13/06 [262/00] Out 0748z S5	Malc	MON
	0745z	27/06 [262/00] Out 0748z S3	Malc	MON

10213kHz	0930z	05/05 [270/00] Out 0933z S2	Malc	THU
	0930z	11/05 [270/00] QRM	RNGB	WED
	0930z	18/05 [270/00] Heavy QRM	RNGB	WED
	0930z	08/06 [270/00] Out 0933z S3	Malc	WED
	0930z	15/06 [270/00] Out 0933z	Ed Smith	WED
	0930z	16/06 [270/00]	RNGB	THU
	0930z	22/06 [270/00] Out 0933z S4	Malc	WED
	0930z	29/06 [270/00] Out 0933z S3	Malc	WED
10302kHz	1205z	03/05 [469/00] Out 1208z S2	Malc	TUE
	1205z	04/05 [469/00] Out 1208z S2	Malc	WED
	1205z	10/05 [469/00] Out 1208z S3	Malc	TUE
	1205z	17/05 [469/001 Out 1208z S3	Malc	TUE
	1205z	18/05 [469/00] Out 1208z QSA3 QRM1 QRN1 QSB2	Thomas	WED
	1205z	31/05 [469/00] Out 1208z S2	Malc	TUE
	1205z	01/06 [469/00] Out 1208z S3	Malc	WED
	1205z	07/06 [469/00] Out 1208z S2	Malc	TUE
	1205z	08/06 [469/00] Out 1208z S3	Malc	WED
	1205z	22/06 [469/00] Out 1208z S4	Malc	WED
	1205z	28/06 [469/00] Out 1208z S2	Malc	TUE
10356kHz	1530z	05/05 [262/00] Out 1533z S9	Malc	THU
	1530z	19/05 [262/00] Good	RNGB	THU
	1530z	02/06 [262/00] Out 1533z QSA4 QRM1 QSB1	JkC	THU
	1530z	09/06 [262/00] Good	RNGB	THU
	1530z	16/06 [262/00]	RNGB	THU
	1530z	30/06 [262/00] Out 1533z S3	Malc	THU
10800kHz	0450z	23/05 [416/00] Out 0453z	Ed Smith	MON
11581kHz	1925z	10/05 [551/00] Out 1928z QSA3 QRM1 QSB1	JkC, Malc	TUE
	1925z	17/05 [551/00] Out 1928z S9+10	Malc	TUE
	1925z	24/05 [551/00] Out 1928z	Thomas	TUE
	1300z	28/05 [585/00] Good	RNGB	SAT
	1925z	31/05 [551/00]	Gary H	TUE
	1925z	02/06 [551/00]	Gary H, Thomas	THU
	1300z	04/06 [585/00] Out 1303z S8	Malc	SAT
	1925z	07/06 [551/00] Out 1928z S9	Malc	TUE
	1300z	11/06 [585/00] Out 1303z S5	RNGB, Malc	SAT
	1925z	21/06 [551/00] Out 1928z S9+10	Malc	TUE
	1925z	23/06 [551/00] Out 1928z S4	Malc	THU
	1300z	30/06 [585/00] Out 1303z S2	Malc	THU
	1925z	30/06 [551/00] Out 1928z S9+15	Malc	THU
13424kHz	0645z	03/05 [517/00] Out 0648z S3	Malc	TUE
	0645z	05/05 [517/00] Out 0648z S2	Malc	THU
	0645z	17/05 [517/00] Out 0648z S4	Malc	TUE
	0645z	19/05 [517/00] Out 0648z	Ed Smith	THU
	0645z	24/05 [517/00] Out 0648z	Ed Smith	TUE
	0545z	25/05 [348/00] Out 0548z	Ed Smith	WED
	0645z	31/05 [517/00] Out 0648z S2	Malc	TUE
	0645z	02/06 [517/00] Out 0648z QSA3 QRM1 QSB1	JkC	THU
	0645z	07/06 [517/00] Out 0648z S5	Malc	TUE
	0545z	15/06 [348/00] Out 0548z QSA2	Ed Smith	WED
	0645z	21/06 [517/00] Out 0648z S8	Malc	TUE
	0645z	28/06 [517/00] Out 0648z S8	Malc	TUE
	0645z	30/06 [517/00] Out 0648z S5	Malc	THU
13427kHz	0900z	02/05 [534/00] Out 0903z S4	Malc, RNGB	MON
	0900z	09/05 [534/00] Out 0903z S2	Malc	MON
	0900z	23/05 [534/00]	Ed Smith	MON
	0900z	30/05 [534/00] Out 0903z S2	Malc	MON
	0900z	01/06 [534/00] Out 0903z S3	Malc	WED
	0900z	06/06 [534/00] Out 0903z S2	Malc	MON
	0900z	13/06 [534/00] Out 0903z S3	Malc	MON
	0900z	15/06 [534/00] Out 0903z	Ed Smith	WED
	0900z	20/06 [534/00] Out 0903z S3	Malc	MON
	0900z	22/06 [534/00] Out 0903z S3	Malc	WED

13537kHz	1205z	02/05 [521/00]	RNGB	MON
	1225z	09/05 [521/00] Out 1228z S4	Malc	MON
	1225z	13/05 [521/00] Out 1228z S7	Malc	FRI
	1225z	03/06 [521/00] Out 1228z S9	Malc	FRI
	1225z	06/06 [521/00] Out 1228z S5	Malc	MON
	1225z	13/06 [521/00]	Gary H	MON
	1225z	27/06 [521/00] Out 1228z S7	Malc	MON
13873kHz	1045z	03/05 [576/00] Out 1048z S3	Malc	TUE
	1045z	10/05 [576/00] Out 1048z S3	Malc	TUE
	1045z	24/05 [576/00]	Ed Smith	TUE
	1045z	14/06 [576/00] Out 1048z	Ed Smith	TUE
	1045z	28/06 [576/00] Out 048z S3	Malc	TUE
13908kHz	0600z	16/05 [181/00] Fair	RNGB	MON
	0600z	24/06 [181/00] Out 0603z S2	Malc	FRI
14410kHz	1745z	22/05 [242/00] Out 1748z	Ed Smith	SUN
	1745z	05/06 [242/00] Out 1748z S8	Malc	SUN
	1745z	19/06 [242/00] Out 1748z S4	Malc	SUN
14753kHz	0710z	03/05 [633/00] Weak	RNGB	TUE
	0710z	10/05 [633/00] Out 0713z S3	Malc	TUE
	0710z	13/05 [633/00] Out 0713z S5	Malc	FRI
	0710z	31/05 [633/00] Out 0713z S3	Malc	TUE
	0710z	03/06 [633/00] Out 0718z S4	Malc	FRI
	0710z	07/06 [633/00] Out 0713z S3	Malc	TUE
	0710z	10/06 [633/00] Out 0713z S5	Malc	FRI
	0710z	21/06 [633/00] Out 0713z S3	Malc	TUE
	0710z	24/06 [633/00] Out 0713z S3	Malc	FRI
	0710z	28/06 [633/00] Out 0713z S5	Malc	TUE
14865kHz	1705z	14/05 [392/00] Out 1708z S9	Malc	SAT
	1705z	21/05 [392/00] Out 1708z S7	Malc	SAT
	1705z	01/06 [392/00] Out 1708z QSA4 QRM1 QSB1	JkC, Malc	WED
	1705z	15/06 [392/00] Out 1708z S2	Malc	WED
	1705z	18/06 [392/00] Out 1708z S8	Malc	SAT
	1705z	29/06 [392/00] Out 1708z S7	Malc	WED
14975kHz	0805z	04/05 [311/00] Out 0808z S4	Malc	WED
	0805z	08/05 [311/00] Out 0808z S5	Malc	SUN
	0805z	15/05 [311/00] Out 0808z S8	Malc	SUN
	0805z	25/05 [311/00] Out 0808z	Ed Smith	WED
	0805z	01/06 [311/00] Out 0808z S5	Malc	WED
	0805z	05/06 [311/00] Out 0808z S9	Malc	SUN
	0805z	15/06 [311/00] Out 0808z	Ed Smith	WED
	0805z	19/06 [311/00] Out 0808z S8	Malc	SUN
	0805z	22/06 [311/00] Out 0808z S2	Malc	WED
	0805z	26/06 [311/00] Out 0808z S6	Malc	SUN
	0805z	29/06 [311/00] Out 0808z S4	Malc	WED
15632kHz	0745z	05/05 [335/00] Out 0745z S2	Malc	THU
	0745z	10/05 [335/00] Out 0748z S5	Malc, RNGB	TUE
	0745z	17/05 [335/00] Out 0748z S3	Malc	TUE
	0745z	19/05 [335/00] Out 0748z S2	Malc, Ed Smith	THU
	0745z	31/05 [335/00] Out 0748z S8	Malc	TUE
	0745z	02/06 [335/00] Out 0748z QSA3 QRM1 QSB1	JkC	THU
	0745z	21/06 [335/00] Out 0748z S2	Malc	TUE
	0745z	28/06 [335/00] Out 0748z S5	Malc	TUE
	0745z	30/06 [335/00] Out 0748z S4	Malc	THU
15795kHz	1625z	01/05 [972/001Out 1628z S2	Malc	SUN
	1625z	08/06 [972/00] Out 1708z S3	Malc	WED
	1625z	15/06 [972/00] Out 1628z S2	Malc	WED
	1625z	22/06 [972/00] Out 1628z S2	Malc	WED
	1625z	29/06 [972/00] Out 1628z S6	Malc	WED

15803kHz	1300z	11/05 [133/00] QRM	RNGB	WED
	1300z	17/05 [133/001 Out 1303z S3	Malc	TUE
	1300z	31/05 [133/00] Out 1303z S2	Malc	TUE
	1300z	01/06 [133/00] Out 1303z S2	Malc	WED
	1300z	08/06 [133/00] Out 1303z S3	Malc	WED
	1300z	22/06 [133/00] Out 1303z S3	Malc	WED
	1300z	28/06 [133/00] Out 1303z S5	Malc	TUE
	1300z	29/06 [133/00] Out 1303z S3	Malc	WED
15825kHz	1345z	17/05 [911/00] Out 1348z S3	Malc	TUE
	1345z	31/05 [911/00] Out 1348z S2	Malc	TUE
	1345z	04/06 [911/00] Out 1348z S3 QRM	Malc	SAT
	1345z	07/06 [911/00] Out 1348z S2	Malc	TUE
	1345z	11/06 [911/00] Out 1348z S6	Malc	SAT
	1345z	21/06 [911/00] Out 1348z S3	Malc	TUE
	1345z	28/06 [911/00] Out 1348z S8	Malc	TUE
15905kHz	0710z	19/05 [491/00] Out 0713z S3	Malc, Ed Smith	THU
	0710z	09/06 [491/00] Fair	RNGB	THU
	0710z	11/06 [491/00] Weak	RNGB	SAT
	0710z	16/06 [491/00] Weak	RNGB	THU
	0710z	23/06 [491/00] out 0713z S3	Malc	THU
	0710z	25/06 [491/00] Out 0713z S5	Malc	SAT
	0710z	30/06 [491/00] Out 0713z S7	Malc	THU
17120kHz	0730z	01/05 [352/00] Out 0733z S3	Malc	SUN
	0730z	13/05 [352/00] Weak	RNGB	FRI
	0730z	03/06 [352/00] Out 0733z S2	Malc	FRI
	0730z	05/06 [352/00] Out 0733z S3	Malc	SUN
	0730z	19/06 [352/00] Out 0733z S3	Malc	SUN

E11a log May/June

4783kHz	1605z	17/05 [232/36…….too weak to copy msg] Out 1614z S1	Malc	TUE
	1605z	22/05 [232/36 38986 88816 91453 97705 94097 51138 57675.....38146 61890] Out 1614z	Ed Smith	SUN
	1605z	21/06 [238/38 46995…….82715] Out 1715z S2	Malc	TUE
6797kHz	0820z	16/05 [438/32 61878 52296 76011 14409 88409 56720 95519……49617 65305] Out 0827z S3	Ed Smith, Malc	MON
		19/05 [438/32 61878 52296 ….etc] repeat of Monday	Ed Smith	THU
6807kHz	0820z	20/06 [431/35 79406……..10599] Out 0829z S2	Malc	MON
	0820z	23/06 [431/35 79406 60153 47163 65276 98337 46796 77968 07964……31955 10599]	Ary	THU
7984kHz	1730z	08/06 [408/38 29243 33098 74404 18101 66212 65839 73018 22927……25851 77277] Strong	RNGB	WED
	1730z	11/06 [408/38 29243……etc] Repeat of Wednesday	Malc	SAT
8088kHz	1730z	19/05 [414/32 79632…….63954] Out 1738z S6	Malc	THU
8530kHz	2000z	20/05 [576/33 05353 21352 82149 09501 58381 05135 54697……84253 17792]	Gary H	FRI
	2000z	24/06 [571/39 39363…….33646] Out 2010z S5	Malc	FRI
9052kHz	1450z	10/05 [446/40 06636 33741 99077 09425 62345 22079 45983 33272 98315……10198 44511]	JkC, Malc	TUE
	1450z	23/06 [443/35 81661…….28194] Out 1559z S4	Malc	THU
9130kHz	2005z	08/05 [366/32 49128…….59837] Out 2014z S4	Malc	SUN
	2005z	11/06 [363/34 38118…….65190] Out 2014z S9	Malc	SAT
9610kHz	0745z	20/06 [269/38 07634……..07555] Out 0755z S4	Malc	MON
10213kHz	0930z	25/05 [271/36 33383 37343 31152 43619 69321 67188 22168……48810 49273] Out 0939z	Ed Smith	WED
	0930z	01/06 [270/36 03943……57041] Out 0939z S3	Malc	WED
	0930z	02/06 [270/36 03943 43023 24385 71986 43597 02667 61712……11618 57041]	RNGB	THU
10302kHz	1205z	25/05 [463/37 24128 33920 48397 66625 32382 59949 78999 25217……01201 98626] Out 1215z	Ed Smith	WED
	1205z	14/06 [466/33 83934 53092 89946 11772 37727 49947 10255 25454 40078……66371 84023]	Ary, Ed Smith	TUE
	1205z	15/06 [466/33 83934…….etc] Repeat of Tuesday	Malc	WED
10356khz	1530z	23/06 [269/38 07634……07555] Out 1539z S7 QSB3	Malc	THU
10800kHz	0450z	16/05 [414/32 79632 84468 59075 39635 83214 60405 43512 04416……61082 63954] Out 0459z	Ed Smith	MON

11581kHz	1925z	03/05 [528/35…….] too weak to copy msg 1934z S1	Malc	TUE
	1925z	05/05 [528/35 57041 76448 60886 65995 24164 10278 33341….80650 75883] Out 1934z S9	JkC, Malc	THU
	1300z	21/05 [586/26 77971…….12280] Out 1309z S8	Malc	SAT
	19256z	14/06 [527/33 58279 89215 44435 49050 64205 07742 49178 17867……61942 64686] Strong	RNGB	TUE
13424kHz	0645z	10/05 [519/31 72250…….00328] Out 0654z S5	Malc	TUE
	0645z	14/06 [515/35 56278 60555 08928 86730 06432 59530 64499 24156……97863 90449]	Ary	TUE
13427kHz	0900z	16/05 [534/32 66940……34755] Out 0909z S3	Malc	MON
	0900z	27/06 [534/38 71063…….20336] S7	Malc	MON
	0900z	29/06 [534/38 71063……etc} Repeat of Monday	Malc	WED
13537kHz	1225z	06/05 [520/33 12244……..29010] Out 1234z S9+10	Malc	MON
	1225z	20/06 [527/32 92331……..86244] Out 1234z S8	Malc	MON
13873kHz	1045z	17/05 [576/33 05353 21352 82149 09501 58381 05135 54697……84253 17792] Out 1055z S9	Ed Smith, Malc	TUE
	1045z	21/06 [571/39 39363……...33646] Out 1055z S7	Malc	TUE
14753kHz	0710z	17/05 [634/38 69241 21352 82149 09501 58381 05135 54697……80614 71588] Out 0720z S4	Ed Smith, Malc	TUE
	0710z	14/06 [639/36 20578 53878 75669 39941 87015 67227 09894……02628 77927]	Ary, Ed Smith	TUE
14865kHz	1705z	04/05 [399/37 01881 14278 25165 53931 42486 42833 78782 43089……71233 46581]	JkC	WED
	1705z	07/05 399/37 01881……etc] Repeat of Wednesday	RNGB	SAT
	1705z	08/06 [393/34 54007……19832] Out 1714z S8	Malc	WED
	1705z	11/06 [393/34 54007……etc] Repeat of Wednesday	Malc	SAT
14940kHz	1650z	26/06 [922/40 55554…….48358] Out 1700z S4	Malc	SUN
15632kHz	0745z	07/06 [335/39 09284…….06020] Out 0755z S4	Malc	TUE
	0745z	09/06 [335/39 09284 86939 64264 19871 27370 33996 84102 87524……19282 06020]	RNGB	THU
15795kHz	1625z	22/05 [978/34 45796 11924 19530 09350 93475 00152 66639……45946 46884] Out 1634z	Ed Smith	SUN
	1625z	01/06 [975/39 42160 57878 81006 28876 72687 58357 11583…...26§154 82971] Out 1635z	JkC, Malc	WED
15803kHz	1300z	03/05 [132/36 96922 75027 24495 47559 92657 51185 65071……49111 72668] Out 1309z S5	Malc, RNGB	TUE
	1300z	04/05 [132/36 96922……etc] Repeat of Tuesday	Malc, Ed Smith	WED
	1300z	14/06 [135/38 71175 88561 42641 92126 73491 82911 07116 64053 01971……09277 76507]	Ary	TUE
	1300z	15/06 [135/38 71175…..etc] repeat of Tuesday	Malc	WED
	1300z	21/06 [133/00] Out 303z S4	Malc	TUE
15825kHz	1345z	14/06 [910/30 92619 15049 23536 20702 08903 42901 48713 64090 53346……49085 40053]	Ary	TUE
15905khz	0710z	07/05 [497/38 14348 65152 71264 20272 22303 25862 48737 ……25722 88079]	RNGB	SAT
	0710z	02/06 [495/36 68437…..……..43025] Out 0719z	JkC	THU
	0710z	04/06 [495/36 68437……...…43025] Repeat of Thursday	Malc	SAT
17120kHz	0730z	06/05 [359/34…….] Too weak to copy message	RNGB	FRI
	0730z	24/06 [354/34 55703……..42305] Out 0739z S2	Malc	FRI

E17z

0800z 16780kHz 0810z 12850kHz

05/05	674 258 9 37391 37446 86525 89203 33244 39054 35843 37259 37633 258 9 00000	Weak
12/05	674 258 9 37391 37446 86525 89203 33244 39054 3584? 37259 37633 258 9 00000	Weak
19/05	674 953 8 88620 ... 47660 953 8 00000	Weak

June 2016

02/06	674 209 5 31900 48366 36534 32840 48436 209 5 00000	Weak
09/06	674 209 5 31900 48366 36534 32840 48436 209 5 00000	Weak, 0810z NRH
23/06	674 210 5 88280 84116 53718 78927 34694 210 5 00000	Weak
30/06	674 00000	Weak

E25

6140kHz1030z 03/05 [672 1025 9083 1652 9122 8312 4532 6652] 1032z Started at 1023z with random beeps and

Windows sounds calling 672, random pauses, AM QSA2 QSB3 MG TUE

6140kHz0835z 10/05

701 701 701 701 701 701 701 701 701 701 701 701
Message Message Message
2415 7580 1001 3732 0545 1887 4857 7705 3321 7580
Rebeat Rebeat Rebeat
2415 7580 1001 3732 0545 1887 457 7705 3321 780
End of Message. End of Transmission
Carrier on and off at 0828 and 0832z. Clicks and errors
Courtesy Ary

6140kHz 0832z 05/05 446Hz TEST TONES with Win sound heard. 0834z AM E.SMITH THU

6140kHz 0908z 05/05 [169 MESSAGE 1049 0620 9164 3371 5977 9936 7106 REBEAT 1049 0620 9164 3371 5977

9936 7106 END OF MESSAGE, END OF TRANSMISSION] Repeated, Ending 0913z AM E.SMITH THU

6140 kHz0744z 15/06 AM AB WED
250 250 250 250 250 250 250 250 250 250 250 250
Message Message Message
9044
250 250 250 250 250 <long pause>
250 250 250 250 250 250 250 250 250 250 250 250
Message Message Message
904 3080 2710 4416 1124 5683 0628 2710
Rebeat Rebeat Rebeat
9044 3080 2710 4416 1124 5683 0628 2710
End of message. End of transmission
Female operator. Beeps and windows sounds during and at the end the
transmission

6140kHz0736z 16/06 AM AB THU
Female operator. Windows sounds, beeps
250 250 250 260 250 260 250 260 250 260 250 260 250 260 250 260 260 260 260
260 260
Message Message Message
5344 4090 2610 5731 7574 8055 2695 4428 2610
Rebeat Rebeat Rebeat
5344 4090 2610 5731 7574 8055 2695 4428 2610
End of message. End of transmission

G06

PoSW writes

Seasonal changes of frequency in May, “Summer is a coming in”:-

Second + Fourth Thursdays in the Month 1830 UTC Schedule:-
12-May-16:- 6,887 kHz, the frequency used in the past during the summer months, started over a minute before the half-hour, calling “842”, DK/GC “317 317 90 90”, 5Fs appear to be the same as when the Friday 1930Z G06 made a temporary move to a *Sunday* in the month of March.

26-May-16:- 6,887 kHz, started about a minute early again, “842” but not the same message as on the 12th, DK/GC “569 569 63 63”, same 5Fs as heard on the English E06 transmissions on Thursday the 19th and Friday the 20th of this month.

9-June-16:- 6,887 kHz, started about 25 seconds late, “842” and “317 317 90 90”, looks like the same message as on 12-May.

Friday 1930 UTC Schedule Following Second + Fourth Thursdays in the Month:-
13-May-16:- 5,943 kHz, difficult copy due to S9+ broadcast station on 5,945, call “218”,
DK/GC “317 317 90 90”, started with, “37839 35787 98273... ”, looks like the same message as yesterday's 1830Z.

27-May-16:- 5,943 kHz, suffering from very strong broadcaster on 5,945, call “218”, DK/GC “569 569 63 63”, message starting with, “14259 22676 32782 32782.... ”.

24-June-16:- 5,943 kHz, coping better than in the past with the BC station 'two up'; this came on air at around 1923 UTC and until then the G06 carrier on 5,943 was warming up
the frequency in splendid isolation. Call “218”, DK/GC “317 317 90 90”, message beginning with, “37839 35787 98273 60187.... ”.

First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-
2-May-16:- 1700 UTC, 5,348 kHz, call “574”, DK/GC “071 071 137 137”, long message, S7 at first, was S9 by the time it ended at 1738 UTC.
1805 UTC, 5,859 kHz, second sending in progress, inside the bottom end of the 49 metre broadcast band although no stations nearby to cause interference. S9 signal. There was still a carrier up on 5,859 when checked at 1900 UTC, presumably the TX had not been turned off.

9-May-16:- 1659:10s UTC, 5,348 kHz, “574” and “071 071 137 137”, same as last time, S8 signal.
1759 UTC, started when tuned in about one minute before the hour, 5,859 kHz, second sending, unusually slightly weaker than the first transmission.

6-June-16:- 1659 UTC, in progress when tuned in about one minute before the hour, 5,348 kHz, “574 574 574 00000”, S7 signal. Stopped approx 1702:35s UTC.
1758 UTC, just after, 5,859 kHz, second sending, S6 to S7.

Monday

May 2016

0800z 7320kHz

02/05 329 00000 Weak

16/05 329 00000 Weak

June 2016

06/06 329 00000 Weak

20/06 329 00000 Weak

1700z 5348kHz 1800z 5859kHz

02/05 574 071 137 04593 ... 16049 071 137 00000

09/05 574 071 137 04593 ... 16049 071 137 00000 Strong

Wednesday

May 2016

1200z 7425kHz 1300z 6956kHz

04/05 574 071 137 04593 ... 16049 071 137 00000

574 071 137
04593 78423 10208 86750 01137 10711 23454 39677 79338 07837
96472 24186 09771 93346 88185 52202 77296 56829 32138 40065
89500 97627 38191 27402 58272 37608 55660 33710 75915 84363
71641 45639 39187 83899 53143 99163 87671 32829 20746 46198
32552 23454 22365 14469 42916 39777 59947 52165 11371 41216
89876 41279 51517 68368 46340 84547 95387 17931 36386 69850
57718 20430 74031 00355 80190 94259 41051 57837 12411 52768
31732 43078 97059 94397 70557 13196 84541 84070 61822 00618
97767 45028 37135 16710 31968 51724 14345 93831 81144 17987
73729 54748 03458 72460 73739 89864 23185 31771 20073 04065
04286 96912 46065 44101 49054 84432 27506 14984 93387 12346
05349 11518 80324 15996 96662 32023 64742 53326 95638 80808
67659 02132 49054 10019 33938 30810 67887 39535 10293 83256
52532 46098 58062 90699 20388 10607 16049 00000
Courtesy Edd/JkC

11/05 574 261 134 too weak to copy msg 00000 Weak, unworkable

June 2016

06/06 574 00000 Weak

08/06 574 ?? Unworkable

13/06 574 00000 [1200z weak] Fair

15/06 574 00000 Fair

Thursday

May 2016

1300z 5890kHz

19/05 329 00000 Fair

1830z 6887kHz

12/05 842 317 92 37839 ... 84784 317 92 00000 Fair

Friday

May 2016

1930z 5943kHz

13/05 218 317 92 36839……too weak behind S9+15 B/C Stations…….00000 Unworkable

June 2016

10/06 218 317 60 37839 … 34344 317 60 00000 Very strong

23/06 842 317 60 37839 ... 34344 317 60 00000
The message consists of the first 60 groups of the transmission on 09/06
842 317 60
37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
77878 46766 09098 78643 09548 46677 90906 89898 56566 67677
76748 84848 84877 16891 63781 34820 04842 87874 78788 78888
93296 67423 40968 16891 63781 34820 04842 60491 75924 56784
Courtesy AB

S06 series

PoSW's intercepts and analysis

S06 OM:-
Something a bit unusual to begin with:-
13-May-16, Friday:- 0802 UTC, 13,530 kHz, S06 in upper side-band suppressed carrier mode, calling "975", went into 5Fs without DK or GC didn't get too far before stopping abruptly, "11111 22222 33333 444....", slight interference from the rapidly swept carrier which resides here, SLT cluster on a close frequency, "S" the strongest.
Noted "975" call up again a little later, went into 5Fs, I counted seven but may have missed a few, stopped suddenly again after "41899". Noted with 5Fs again later, counted 24
of them, but must have missed most of the transmission if the GC was for real, last two "18958 98579", then "999 999 300 300". Heard "975" call again at around 0830Z followed by "111 111 23 23" and "11111 22222 33333 44444 55555 66666 77777 88888 99999 00000 12121 13131....", got as far as "17171" then stopped.
Was noted active again later in the morning with 5Fs at 1119 UTC, heard "52320 42513 37448 96237 869....", stopped suddenly again, appeared to be the end of activity, nothing further heard. Call "975" has often been reported in the past on 10,755 kHz from S06 and related voice and Morse stations.

Onto the more usual schedules:-
First + Third Fridays in the Month 1900 + 2000 UTC Schedule :-
6-May-16:- 1900 UTC, 10,204 kHz, "761 761 761 00000", weak signal, not found until about three minutes into the transmission.
2000 UTC, 8,058 kHz, second sending, much stronger, over S9.

20-May-16:- 1900 UTC, 10,204 kHz, "761 761 761 00000", much stronger signal than last time, over S9.
2000 UTC, 8,058 kHz, second sending, also over S9.

This schedule often shifts by one hour for no apparent reason which is what happened in June:-
3-June-16:- 2000 UTC, 10,204 kHz, nothing found at 1900 UTC, 8 PM in the UK, but showed up an hour later, "761 761 761 00000", S9 with QSB.
2100 UTC, 8,058 kHz, second sending, S9.

17-June-16:- 2000 UTC, 10,204 kHz, and 2100 UTC, 8,058 kHz, both peaking over S9, "761 761 761 00000".

First + Third Saturdays in the Month 1900 + 2000 UTC Schedule:-
21-May-16:- 1900 UTC, 6,875 kHz, "614 614 614 00000". S9 signal, carrier was warming up on 6,875 around 1841 UTC. Unable to find a repeat transmission at 2000 UTC.
Frequencies in April were 4,756 + 4,059 kHz.

4-June-16:- 1900 UTC, 6,875 kHz, "614 614 614 00000", S9, carrier with tone noted at 1846 UTC, single spoken "614" shortly afterwards.
2000 UTC, 5,936 kHz, the elusive second sending, found a couple of minutes into the transmission, S5 to S6, very strong BC station on 5,930 making copy difficult in AM mode, much better with the receiver in USB.

S06s YL - a small selection of some of the more readily received schedules in the UK:-

Monday 0830 + 0840 UTC Schedule, call "371":-
23-May-16:- 0830 UTC, 8,221 kHz, DK/GC "869 869 5 5", "37363 31429 33642 36688 32805", S6 to S7.
0840 UTC, 9,353 kHz, second sending, slightly weaker signal.

20-June-16:- 0830 UTC, 8,221 kHz, DK/GC "849 849 5 5", "48310 47917 44509 67859 38786", S6 at best.
0840 UTC, 9,353 kHz, second sending, much weaker, down in the local noise.

Monday 1200 + 1210 UTC Schedule, call "831":-
9-May-16:- 1200 UTC, 10,230 kHz, DK/GC "975 975 6 6", 5Fs "46062 33796 13577 74526 46647 10597", weak signal.
1210 UTC, 12,165 kHz, second sending, much stronger signal, peaking over S9.

20-June-16:- 1200 UTC, 10,230 kHz, very weak signal, could just about make out the "831" call.
1210 UTC, 12,165 kHz, second sending, much stronger signal, DK/GC "294 294 5 5", "47530 27810 66483 98234 00618", S6 to S7.

Tuesday 0730 + 0740 UTC, call "427":-
3-May-16:- 0730 UTC, 7,365 kHz, DK/GC "510 510 6 6", 5Fs "88146 57856 46186 16945 80744, S7 signal.
0740 UTC, 11,655 kHz, second sending, S8 to S9.

10 May-16:- 0730 UTC, 7,365 kHz, tuned in late after 0734Z just in time to hear the ending, "510 510 6 6 00000", weak signal on the same frequency as an equally weak broadcast station.
0740 UTC, 11,655 kHz, second sending, much stronger signal on a clear frequency, DK/GC "510 510 6 6", 5Fs "88146 57856 98835 46186 16945 80744. Same as on the 3rd.

31-May-16:- 0730 UTC, 7,365 kHz, "427 427 427 00000", S7 over-riding a weaker BC station.
0739 UTC, 11,655 kHz, second sending, started about a minute early, seems to be the standard procedure with these end of the month "no message" transmissions.

7-June-16:- 0731 UTC – no voice heard until after 0731Z, 7,365 kHz, DK/GC "580 580 6 6", DK/GC "46062 68672 97478 39685 30485 96632", S7.
0741 and 7 seconds UTC, also started late, second sending.

21-June-16:- 0730 - +30s UTC, 7,365 kHz, DK/GC "910 910 6 6", "52401 63919 92699 14600 74248 48754", S9 signal.
0740 UTC, started about 20s late, 11,655 kHz, second sending, also S9.

Wednesday 0730 + 0740 UTC Schedule, call "745":-
18-May-16:- 0730 UTC, 12,110 kHz, DK/GC "980 980 6 6", "33796 13577 74526 46647 79302 53516", over S9.
0740 UTC, 14,977 kHz, second sending, also over S9.

1-June-16:- 0730 UTC, 12,110 kHz, DK/GC "201 201 6 6", "52401 63919 92699 14600 74248 48754", S7.
0740 UTC, 14,977 kHz, second sending, over S9.

Wednesday 1000 + 1010 UTC Schedule, call "729":-
4-May-16:- 1000 UTC, 14,580 kHz, DK/GC "840 840 5 5", "88620 58069 61732 74537 57440", S9 signal.
1010 UTC, 16,020 kHz, second sending, over S9.

11-May-16:- 1000 UTC, 14,580 kHz, "840 840 5 5" and 5Fs as last time, weak signal with idling FSK signal on a close frequency.
1010 UTC, 16,020 kHz, second sending, S6.

18-May-16:- 1000 UTC, 14,580 kHz, DK/GC "480 480 5 5", "21767 53672 11834 81022 36903", peaking over S9.
1010 UTC, 16,020 kHz, second sending, S8 to S9.

1-June-16:- 1000 UTC, 14,580 kHz, DK/GC "843 843 5 5", "32478 32388 49873 32492 34793", S8 to S9.
1010 UTC, 16,020 kHz, second sending, over S9.

8-June-16:- 1001 and 15s UTC - several S06s schedules have started late over the past few days, 14,580 kHz, DK/GC "843 843 5 5", same 5Fs as on 1-June.
1011 UTC, just after, 16,020 kHz, second sending also started over a minute late. Both transmissions S9 signals.

15-June-16:- 1000 UTC, 14,580 kHz, only 8 seconds late today! DK/GC "561 561 8 8", "24357 60583 54545 50128 99477 83574 48874 94031", highest group count heard in recent weeks, S9+ signal.
1010 UTC, 16,020 kHz, second sending, over S9.

Thursday 1200 + 1210 UTC Schedule, call "425":-
19-May-16:- 1200 UTC, 13,145 kHz, DK/GC "803 803 6 6", "16945 80744 86200 84706 42227 61736", S7 to S8.
1210 UTC, 14,535 kHz, second sending, S7.

2-June-16:- 1200 UTC, 13,145 kHz, started late, usually these S06s transmissions start about 8,9,10 seconds late, but no voice heard here until 1200 and 45 seconds UTC. DK/GC "970 970 6 6", "14893 73264 66707 59695 11589 56214", peaking over S9.
1210 and 45 seconds UTC, 14,535 kHz, second sending starting late, peaking over S9.

9-June-16:- 1200 UTC, 13,145 kHz, DK/GC "970 970 6 6", 5Fs same as on 2-June, over S9.
1210 UTC, 14,535 kHz, second sending, also over S9.

RNGB's logs and analysis:

S06 log May 2016

Daily Mon- Fri 0400z 15721kHz
No reports

Thursdays (Repeats following day) 0830z 17475kHz 0930zkHz 14736kHz (frequencies may vary slightly)
05/05 '842' 960 33 97331 39795 40136 23022 73541 82590 15103 64026 15571 08543 77684 10089 56862 9596 49980 99410 01967 10363
48305 32293 21028 20595 82598 61932 72473 56083 61402 13037 64881 59883 75834 95468 93929 960 33 00000

12/05 '842' 715 34 70588 51416 60340 61532 38551 44984 39046 19837 06197 25070 54899 06996 35264 05802 80769 73464 83566 78970
64154 74478 91030 37920 15405 54936 22844 87091 24176 75393 18188 79389 15036 33859 17960 48580 715 34 00000

26/05 '842' 105 36 96400 95433 17162 45825 09762 50066 11062 20292 46676 02338 31127 15198 99792 86950 83621 96214 54512 93386 03332
49123 74333 86381 25145 79393 16766 79236 19351 32392 53244 27146 27032 14102 91483 32734 56498 17016 00000] 0940z

Fridays (1st & 3rd) 1900z 10204khz 2000z 8058kHz (frequencies may vary slightly)
06/05 '761' 00000

Saturdays (1st/3rd) 1900z 6875kHz 2000z 5935kHz (frequencies may vary slightly)
07/05 '614' 00000

Non- scheduled:

9073kHz 04/05 1425z [975 975 975 11111 … 9 00000 … 975 975 975 111 975 133 133 98 98 12962 12962 975 975 975 975 133 133 98 98 12962 12962 87351 87351 975 975 975 975 … 10396 10396 87401 975 975 975 11111 975 975 975 11111 … 975 975 975 975 … 10396 1 975 975 … 10396 10396 87401 87401 95706 95706 57555] 1433z Schorschi WED

1437z [975 975 975 133 133 98 98 12962 12962 87351 87351 99515 99515 511 975 975 975 11111 … 975 11 975 975 … 12962 1296] 1441z Schorschi WED

1625z [975 123 12 39355 ... 123 12 975] 1632z QSA4 QRM1 QSB1 JkC WED See transcript
'975' 123 12 39355 73841 99887 56875 99328 90142 89750 82740 78063 17962 90792 35751 123 12 (1631z)
975 (R1m) (1632z - silent)

Also sent messages in French, German and Spanish during the afternoon. Family 1a training school?

Plus received by Ed from
Remote Tuner - Cherepovets City, Russia.

S06 test/training variant:
11423.2kHz 1252z 16/05 IP [104 81705 ... 11111 *1 x104 ... 104 81705 *817 *104 ... 104 81705 11111 55555 89360 88165 98188 97836 85794 55555 89405 88965 98188 97836 85794 00000 00000 *104 1311z USB E.SMITH THU

11423.2kHz 1319z 16/05 [11111 11111 104] 1319z USB E.SMITH THU
**OMITTANCE OF MISTAKES

11423.2kHz 1252z 16/05 IP [104 81705 ... 11111 ... 104 81705 ... 104 81705 11111 55555 89360 88165 98188 97836 85794 55555 89405 88965 98188 97836 85794 00000 00000 1311z
11423.2kHz 1319z 16/05 [11111 11111 104] 1319z USB Ed Smith THU

—

S06s May log:

Sunday			
1st/8th	0730/0740z	16320/14835	'524' 968 7 40328 35929 47234 33940 48075 30349 31283
15th/22nd			'524' 807 6 33231 37610 98902 27553 31453 30387
Monday			
2nd/9th	0830/0840z	8221/9353	'371' 954 6 88620 68069 61732 74537 57440 10597
16th/23rd			'371' 869 5 37363 31429 33642 36688 32805
2nd/9th	0900/0910z	16380/14835	'872' 905 6 33796 13577 74526 46647 79302 53516
16th/23rd			'872' 913 5 90406 36113 31107 37806 37137
2nd/9th	1200/1210z	10230/12165	'831' 975 6 46062 33796 13577 74526 46647 10597
16th/23rd			'831' 469 5 46062 68672 97478 39685 30485
Tuesday			
3rd/10th	0600/0610z	15945/16945	'438' 951 6 17099 94961 35826 65906 77233 06123
17th/24th			'438' 291 5 21767 53672 11834 81022 36903
3rd/10th	0700/0715z	5430/6780	'374' 812 5 88569 89617 25757 77159 95225
17th/24th			'374' 816 5 52401 73919 92699 14600 74248
3rd/10th	0730/0740z	7365/11655	'427' 510 6 88146 57856 98835 46186 16945 80744
17th/24th			'427' 518 6 09394 76911 75155 92918 97067 58604
3rd/10th	0800/0810z	14373/12935	'352' 469 7 60583 54545 50128 99477 83574 48874 94031
17th/24th			'352' 461 7 20534 11160 43494 37638 16070 48834 53735
3rd/10th	1000/1010z	6440/5660	'893' 471 5 52401 63919 92699 14600 74248
17th/24th			'893' 462 5 46064 68672 96478 39685 56632
3rd/10th	1100/1110z	6810/7560	'754' 928 6 10534 43494 94184 48374 74154 08531
17th/24th			'754' 238 6 37363 31429 33642 36677 32803 34075
3rd/10th	1500/1510z	6666/7744	'537' 208 6 95225 84090 09531 88430 33240 61135
17th/24th			'537' 982? 6 43247 43329 38088 36748 39013 82604 982?
Wednesday			
4th/11th	0530/0540	11565/12560	'464' 293 5 46186 16945 82045 97067 26634
18th/25th			'464' 283 5 47461 36461 46977 36553 32453
4th/11th	0730/0740z	12110/14977	'745' 239 6 52401 63919 92699 14600 74248 48754
18th/25th			'745' 980 6 33796 13577 74526 46647 79302 53516
4th/11th	1000/1010z	14580/16020	'729' 840 5 88620 58069 61732 74537 57440
18th/25th			'729' 480 5 21767 53672 11834 81022 36903
Thursday			
5th/12th (E17z)	0800/0810z	16780/12850	'674' 258 9 37391 37446 86535 89303 33344 39054 35843 37259 37633
19th/26th			'674' 953 8 88620 58069 61732 74537 57440 10597 23521 47660
5th/12th	0900/0910z	12952/13565	'167' 254 8 83270 96798 34469 37144 48980 44405 46159 33729
19th/26th			'167' 804 5 96320 36793 53038 76342 15009
5th/12th	0900/0910z	6844/7161	'624' 815 7 48318 30605 43003 83659 86760 36014 44319
19th/26th			'624' 930 5 10597 23521 47660 92883 69904

5th/12th	0930/0940z	9255/10325	'314' 560 7 33699 39998 30667 35947 83964 40774 45983
19th/26th			'314' 920 5 53038 76342 15009 34140 78386

Friday

6th/13th	0930/0940z	10290/9655	'516' No reports
20th/27th			'516' 908 7 46062 68672 97478 29685 30485 96632 52537

Thanks to RNGB, Malc (M8), Ed Smith

S06 log June 2016

Daily Mon- Fri 0400z 15721kHz
No reports

Thursdays (Repeats following day) 0830z 16022kHz 0930zkHz 13925kHz

02/06 '842' ?59 37 20920 75486 81810 19787 60910 95028 94564 94206 13503 96697 77583 88463 09374 43066 64718 01659 68344 29704 91107 70984 51848 86252 17337 36279 39526 7815? 06838 70712 ….. 6?220 67423 32274 93976 56392 92936 15738 73981 ?59 37 00000

09/06 '842' 651 38 73726 02348 06145 20996 61603 56595 17219 03186 44847 25216 76911 57553 60940 50669 47794 23289 12539 54817 57011 00349 95597 73260 36754 95571 48676 95650 94522 17713 46880 29126 99099 51099 88863 27099 93196 62577 50344 50545 651 38 00000

23/06 '842' 136 40 ……..…63357 77851 26800 62594 76288 63798 48712 96965 99971 55320 16672 11653 78673 51080 27117 97784 57066 75907 70764 15826 57534 85714 37897 45787 97866 35219 00712 136 40 00000 (missing groups at start)

30/06 '842' 579 41 02350 74020 93417 72522 14668 72106 85837 77138 21719? 95510 25638 27514 92831 22758 32381 21866 99199 23492 56070 93220 579 41 00000 (21 missing groups – a very difficult copy)

Fridays (1st & 3rd) 2000z 10204khz 2100z 8058kHz (frequencies may vary slightly)
03/06 '761' 00000

Saturdays (1st/3rd) 1900z 6875kHz 2000z 5935kHz (frequencies may vary slightly)
18/06 '614' 00000

Non- scheduled:

1500z 13944kHz 1600z 11496kHz

08/06 & 09/06 '387' 160 54 74680 00642 98860 83898 63194 77203 94898 46531 70120 88352 71808 29767 44087 68906 37051 12779 65309 16683 38481 03666 93402 00357 47375 73336 30547 43972 24759 05896 67149 24061 50719 63962 02230 40286 21398 92382 55693 45563 43346 08747 14685 46593 79926 54165 81218 10741 29459 02736 13256 40198 39792 53137 76437 99368 160 54 00000

S06s June log:

Monday

6th/13th	0830/0840z	8221/9353	'371' 524 6 16945 80744 62600 84706 42227 08531
20th/27th			'371' 849 5 48310 47917 44509 67859 38786
6th/13th	0900/0910z	16380/14835	'872' no reports
20th/27th			'872' 916 5 37651 09807 47538 90081 44381
6th/13th	1200/1210z	10230/12165	'831' 407 5 88620 58069 61732 74537 56440
20th/27th			'831' 294 5 47530 27810 66483 98234 00618

Tuesday

7th/14th	0600/0610z	15945/16945	'438' 295 6 49294 38064 31724 37324 49416 35660
21st/28th			'438' 271 5 76584 55901 33254 65021 33533
7th/14th	0700/0715z	5430/6780	'374' 815 6 38034 37823 38230 48245 38702 44520
21st/28th			'374' 861 5 46062 68672 97478 93685 30485
7th/14th	0730/0740z	7365/11655	'427' 580 6 46062 68672 97478 39685 30485 96632
21st/28th			'427' 910 6 52401 63919 92699 14600 74248 48754
7th/14th	0800/0810z	14373/12935	'352' 814 6 52401 63919 92699 14600 74248 48754
21st/28th			'352' 916 7 33796 13577 74526 46647 79302 53516 25616
7th/14th	1000/1010z	6440/5660	'893' 214 5 33796 13577 74526 46647 79302?
21st/28th			'893' 251 6 40614 77249 40678 17976 21816 42997
7th/14th	1100/1110z	6810/7560	'754' 209 6 33796 13577 74526 46647 79402 53516
21st/28th			'754' 290 6 88146 57856 98835 46186 16945 80744
7th/14th	1500/1510z	6766/7744	'537' no reports
21st/28th			'537' 280 6 39534 17228 15636 47891 23247 17099

Wednesday

1st/8th	0530/0540	11565/12560	'464' 830 5 65906 6…. 20336 87301 88554 ?
15th/22nd			'464' 291 5 38453 48324 33885 31830 34645
1st/8th	0730/0740z	12110/14977	'745' 201 6 52401 63919 92699 14600 74248 48754
15th/22nd			'745' 203 6 52401 63919 92699 14600 74248 48754
1st/8th	0820/0830z	9485/11085	'471' 980 5 33796 13577 64526 46647 79302
15th/22nd			'471' 530 6 46062 68672 97478 39685 30485 96632
1st/8th	1000/1010z	14580/16020	'729' 843 5 32478 32388 49873 32492 34793

15th/22nd			‘729’ 561 8 24357 60583 54545 50128 99477 83574 48874 94031
Thursday			
2nd/9th (E17z)	0800/0810z	16780/12850	‘674’ 209 5 31900 48366 36534 32840 48436
16th/23rd			‘674’ 210 5 88280 84116 53718 78927 34694
2nd/9th	0900/0910z	12952/13565	‘167’ 942 5 04868 44645 54958 80316 16556
16th/23rd			‘167’ 498 5 53516 25616 56069 96813 14199
2nd/9th	0900/0910z	6844/7161	‘624’ 893 5 68765 73779 57539 21414 17659
16th/23rd			‘624’ 830 5 52343 79628 42432 56075 56281
2nd/9th	0930/0940z	9255/10325	‘314’ 806 5 19244 10276 97774 18538 98832
16th/23rd			‘314’ 208 5 ????? 14690 95592 60386 ?8147 (very weak)
2nd/9th	1200/1210z	13145/14535	‘425’ 970 6 14893 73264 66707 59695 11589 56214
16th/23rd			‘425’ 968 7 47891 23247 14099 94961 35826 65906 77243
Friday			
3rd/10th	0930/0940z	10290/9655	‘516’ 920 7 68765 73779 57539 21414 17658 99790 84388
17th/24th			‘516’ 973 8 46062 68672 97478 39685 30485 96632 52537 53317
Saturday			
4th	0800/0810z	12460/10259	‘254’ 860 7 14111 21484 10618 85692 32018 12886
Sunday			
5th/12th	0730/0740z	16320/14875	‘524’ 896 7 67286 74059 72532 59526 30430 58158 99790
19th/26th			‘524’ 803 6 44365 43025 39283 33578 47568 40573

Thanks to RNGB, Malc (M8), Ed Smith, Ary, JkC

S11a log May/June

4870kHz	1955z	04/05 [377/30 85841 54702 76749 30721 95285 97444 71028 92517……52046 33117]	JkC	WED
	1955z	06/05 [377/00 84841 ... 33117] КОНЕЦ 2004z Repeat of Wednesday	JkC	FRI
	1955z	13/05 [371/00] Konyetz 1958z S9+10	Malc	FRI
	1955z	18/05 [371/00] Konyetz 1958z QSA5 QRM1 QRN1 QSB2	Thomas	WED
	1955z	01/06 [371/00] КОНЕЦ 1958z QSA4 QRM1 QSB1	JkC, Malc	WED
	1955z	10/06 [371/00] Konyetz 1958z S9+10	Malc	FRI
	1955z	15/06 [377/31 40978……..65788] Konyetz 2005z S9+10	Malc	WED
	1955z	17/06 [377/31 40978 85515 48327 64349 79540 79515 90527 79678……23231 65788]	RNGB	FRI
	1955z	24/06 [371/00] Konyetz 1958z S9	Malc	FRI
	1955z	29/06 [371/00] Konyetz 1958z S9	Malc	WED
5149kHz	0455z	17/05 [325/30 71159 60199 71983 98984 98303 59686 21021…… 83798 66333] КОНЕЦ 0505z	Ed Smith	TUE
	0455z	14/06 [322/39 18790 98209 66726 82363 24319 09764.....01474 67144] КОНЕЦ 0506z	Ed Smith	TUE
8530kHz	0915z	03/05 [486/33 25761 85195 22692 51099 61008 85025 58388 24463……64029 04630]	RNGB	TUE
	0915z	13/05 [484/00] Konyetz 0918z S3	Malc	FRI
	0915z	17/05 [484/00] Konyetz 0918z S2	Malc	TUE
	0915z	31/05 [484/00] Konyetz 0918z S3	RNGB, Malc	TUE
	0915z	03/06 [484/00] Konyetz 0918z S4	Malc	FRI
	0915z	07/06 [484/00] Konyetz 0918z S2	Malc	TUE
	0915z	10/06 [484/00] Konyetz 0918z S2	Malc	FRI
	0915z	21/06 [487/39 81244 ????…….00288] S4	Malc	TUE
	0915z	24/06 [487/39 35474 ????…….00288] S5	Malc	FRI
	0915z	28/06 [484/00] Konyetz 0918z S3	Malc	TUE
11092kHz	1540z	21/05 [563/00] Konyetz 1543z S2	Malc	SAT
	1540z	01/06 [563/00] Konyetz 1543z S3	Malc	WED
	1540z	04/06 [563/00]	RNGB	SAT
	1540z	11/06 [563/00] Konyetz 1543z S2	Malc	SAT
	1540z	15/06 [565/39 87118……..50577] Konyetz 1551z S9	Malc	WED
	1540z	29/06 [563/00] Konyetz 1543z S8	Malc	WED
11581kHz	1020z	03/05 [426/00] Fair with QRM	RNGB	TUE
	1020z	10/05 [427/36…….VNIMANIE 12137…….11236]	Malc	TUE
	1020z	13/05 [427/36 12137…..etc] repeat of Tuesday	Malc	FRI
	1020z	31/05 [426/00] Konyetz 1023z S2 QRM	Malc	TUE
	1020z	07/06 [421/36 24207 60300 32567 34293 15844 86950 70152…..78044 57443]	RNGB, Malc	TUE
	1020z	10/06 [421/36 24207……etc] Repeat of Tuesday	Malc	FRI
	1020z	21/06 [426/00] Konyetz 1023z S2	Malc	TUE
	1020z	24/06 [426/00] 1023z S4	Malc	FRI
	1020z	28/06 [426/001 Out 023z S2	Malc	TUE

16530kHz	1015z	02/05 [475/00] Weak	RNGB	MON
	1015z	09/05 [475/00] Konyetz1018z S3	Malc	MON
	1015z	19/05 [479/32 43069 83466 42065 70298 19522 17477 52192…… 36729 79288] КОНЕЦ 1025z	Ed Smith, RNGB	THU
	1015z	06/06 [475/00] Konyetz 1018z S2	Malc	MON
	1015z	13/06 [475/00] Konyetz 1018z S7	Malc	MON
	1015z	16/06 [475/00] Weak	RNGB	THU
	1015z	20/06 [475/00] Konyetz1018z S3	Malc	MON
	1015z	30/06 [475/00] Konyetz 1018z S5	Malc	THU
20180kHz	0715z	01/06 [382/00] Konyetz 0718z S8	Malc	WED
	0715z	08/06 [382/36 39457 01051 91741 06822 96136 46164……96234 32057] S5	RNGB, Malc	WED
	0715z	13/06 [382/00] Konyetz 0718z S7	Malc	MON
	0715z	20/06 [382/00] Out 0718z S5	Malc	MON
	0715z	29/06 [382/00] Konyetz 07188z S2	Malc	WED

V07

Sunday

May 2016

0500z 13582kHz 0520z 12182kHz 0540z 11182kHz

08/05 511 549 51 2831? ... 57858 000 000 Very weak

June 2016

0700z 12182kHz 0720z 11182kHz 0740z 10282kHz

05/06 112 511 35 50831 ... 72203 000 000 Very weak

112 511 35
50831 21979 23948 43225 25547
22153 92714 91430 93595 71944
88342 23732 17778 93518 59044
52319 31497 32307 31733 33243
55558 18894 33032 77014 24132
93241 07445 20979 59372 89103
23532 31437 82233 28100 72203
000 000 *Courtesy DanAr*

26/06 112 113 93 33007 … 73338 000 000 Weak with hum

112 1 113 93

33007 03225 37373 93173 90187
40553 40133 37305 13531 43122
38359 18432 54330 17584 18537
47000 19758 40148 81099 80255
42013 35829 13275 21178 80223
21782 31308 75872 40044 84811
38900 39733 37341 32703 93527
47324 25149 89822 28334 14593
11332 74205 41338 04051 45280
45731 73340 19922 37300 11131
89370 83743 38731 14795 48098
55585 42138 12239 02433 24218
37313 31834 87315 29539 54807
07912 17207 03373 04215 83338
30002 25023 00819 79977 28913
45133 74350 43839 47903 73487
34408 49137 34951 19343 93171
75371 74532 95994 04851 34982
99044 95220 73338 000 000
Courtesy DanAr

V13

New schedules from Ary [N&O]

15388 kHz New Star Broadcasting #1 0200 UTC
15388 kHz New Star Broadcasting #1 0300 UTC
15388 kHz New Star Broadcasting #2 0400 UTC
11430 kHz New Star Broadcasting #4 0500 UTC
11430 kHz New Star Broadcasting #4 0600 UTC
15388 kHz New Star Broadcasting #3 0700 UTC
15388 kHz New Star Broadcasting #3 0800 UTC
9725 kHz New Star Broadcasting #4 1200 UTC
9725 kHz New Star Broadcasting #4 1300 UTC

Thanks Ary

V21

The Babbler continues to be mostly weak and difficult to copy. The 5637kHz transmission heard on 8/6 started with a 00 at the beginning of each count. (See notes from previous newsletter. On 17/6 operational traffic/coordinates were being passed and this TX continued for over an hour.

Logs

V21 6529kHz 1302z 7/5 Present but too weak to copy.	SAT
V21 5637kHz 1400z 30/5 Very weak but some counts to at least 92 heard pausing on every number ending with 2 starting at 22.	MON
V21 5637kHz 1310z 8/6 [60, 60, 60, 60] Starts and ends all his counts with 00, pauses on 22, 32, 42, 52	
V21 6529kHz 1310z 8/6 In progress, one count to 60 heard.	WED
V21 6529kHz 1323z 9/6 In progress very weak.	THU
V21 5637kHz 1300z 15/6 Present but too weak to copy.	WED
V21 5637kHz 1300z 17/6 In progress with operational traffic.	FRI
V21 5637kHz 1323z 29/6 Weak	
V21 6529kHz 1323z 29/6 Weak but counts to 40 audible.	WED

V26

4243kHz1209z	05/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Siberia)]	JPL	THU
9054kHz1209z	05/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Siberia)]	JPL	THU
4243kHz1157z	06/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	FRI
8073kHz1151z	06/05/16[(From M95 Sked - Voice - USB - Chinese - Male) (Remote tuner Hong Kong)]	JPL	FRI
9054kHz1157z	06/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	FRI
4243kHz1157z	09/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	MON
8073kHz1157z	09/05/16[(From M95 Sked - Voice - USB - Chinese - Male) (Remote tuner Hong Kong)]	JPL	MON
9054kHz1157z	09/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	MON
4243kHz1157z	10/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	TUE
8073kHz1153z	10/05/16[IP - (From M95 Sked - Voice - USB - Chinese - Male) (Remote tuner Hong Kong)]	JPL	TUE
9054kHz1157z	10/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	TUE
7553kHz1000z	10/05/16[Into Voice - USB - Chinese - Female - Silent - 1028z) (Remote tuner Hong Kong)]	JPL	WED
4243kHz1208z	12/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	THU
8073kHz1154z	12/05/16[(From M95 Sked - Voice - USB - Chinese - Male) (Remote tuner Hong Kong)]	JPL	THU
9054kHz1208z	12/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	THU
4243kHz1204z	14/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	SAT
8073kHz1212z	14/05/16[(From M95 Sked - Voice - USB - Chinese - Female) (Remote tuner Hong Kong)]	JPL	SAT
9054kHz1204z	14/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	SAT
4243kHz1156z	17/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	TUE
8073kHz1149z	17/05/16[(From M95 Sked - Voice - USB - Chinese - Female) (Remote tuner Hong Kong)]	JPL	TUE
9054kHz1156z	17/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	TUE
4243kHz1204z	19/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	THU
9054kHz1204z	19/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	THU
4243kHz1209z	23/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	MON
8073kHz0016z	23/05/16[(From M95 Sked - Voice - USB - Chinese - Male) (Remote tuner Hong Kong)]	JPL	MON
8073kHz1201z	23/05/16[(From M95 Sked - Voice - USB - Chinese - Male) (Remote tuner Hong Kong)]	JPL	MON
9054kHz1209z	23/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	MON
4243kHz1203z	31/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	TUE
8073kHz0021z	31/05/16[(From M95 Sked - Voice - USB - Chinese - Male) (Remote tuner Hong Kong)]	JPL	TUE
9054kHz1203z	31/05/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	TUE

June 2016

4243kHz1205z	01/06/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	WED

9054kHz1205z	01/06/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	WED
4243kHz1159z	02/06/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	THU
9054kHz1159z	02/06/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	THU
4243kHz1226z	14/06/16[(From M95 Sked - Voice - USB - Chinese - Female - //9054) (Remote tuner Hong Kong)]	JPL	TUE
9054kHz1226z	14/06/16[(From M95 Sked - Voice - USB - Chinese - Female - //4243) (Remote tuner Hong Kong)]	JPL	TUE

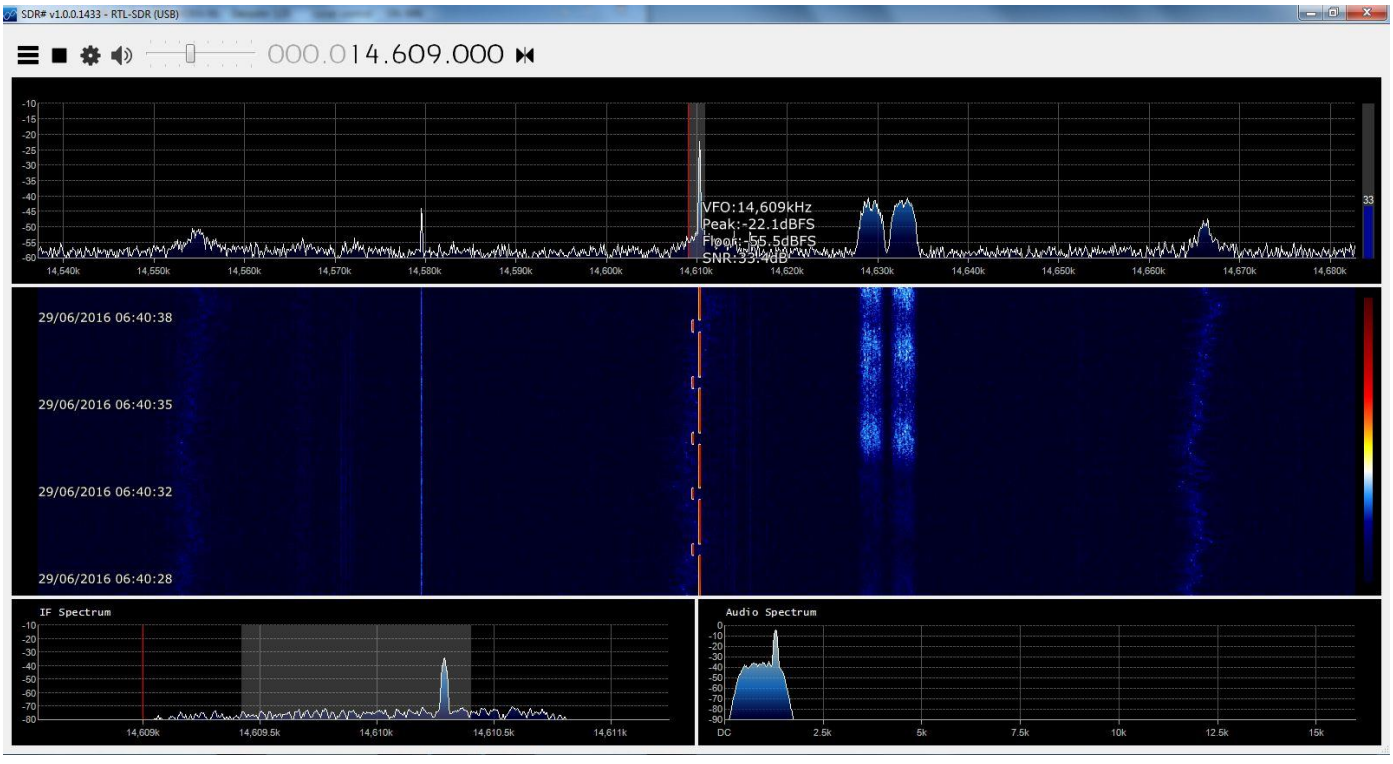
POLYTONES

XPA c

Wednesday/Saturday

May 2016

0600z	**10868kHz**	**0620z**	**12168kHz**	**0640z**	**13368kHz**	
04/05	813 000 08930 00001 00000 10140					Very strong
07/05	813 000 02500 00001 00000 10140			[0640z Very weak]		Very strong
11/05	813 1 06734 00115 06617 65004					Very strong
14/05	813 1 06734 00115 06617 65004					Very strong
18/05	813 000 02880 00001 00000 10140					Very strong
21/05	813 1 09081 00143 19166 40227					Very strong
25/05	813 1 09081 00143 19166 40227					Very strong
28/05	813 000 07647 00001 00000 10140					Very strong



Intro to XPA c 0640z 29/06 456 1 08762 00197 23554 25001 Very strong

XPA c continued …

June 2016

0600z	**11409kHz**	**0620z**	**13509kHz**	**0640z**	**14609kHz**	
01/06	456 1 01037 00241 86200 55633					Very strong, QSB
04/06	456 1 01037 00241 86200 55633					Fair
08/06	456 1 08766 00179 52198 14437					Very strong
11/06	456 1 08766 00179 52198 14437					Strong
15/06	456 000 09615 00001 00000 10140					Very strong
18/06	456 000 04694 00001 00000 10140					Very strong
22/06	456 1 03062 00191 12119 53600					Very strong
25/06	456 1 03062 00191 12119 53600					Very strong
29/06	456 1 08762 00197 23554 25001					Very strong, QSB2

XPA e

Tuesday/Thursday

May 2016

1730z	**10438kHz**	**1750z**	**9938kHz**	**1810z**	**9138kHz**	
03/05	491 000 06780 00001 00000 10140					Strong
05/05	491 000 05095 00001 00000 10140					Fair, QSB3
10/05	491 1 06878 00161 54604 72764					Fair
12/05	491 1 06878 00161 54604 72764					Fair, QSB3
17/05	491 000 07257 00001 00000 10140					Fair, QSB3
19/05	491 000 03014 00001 00000 10140					Fair
24/05	491 1 07718 00237 99634 33201					Fair
26/05	491 1 07718 00237 99634 33201					Fair
31/05	491 000 07766 00001 00000 10140					Weak

June 2016

1730z	**10438kHz**	**1750z**	**9938kHz**	**1810z**	**9138kHz**	
02/06	491 000 06118 00001 00000 10140					Fair
07/06	Msg, 3m53s lg					Unworkable
09/06	491 1 02843 00143 57526 24201			[1730/1750z Uunworkable]		Weak [3m53s lg]
14/06	491 000 09306 00001 00000 10140					Very weak
16/06	491 000 09478 00001 00000 10140			[1730/1750z Unworkable]		Very weak
21/06	491 000 05823 00001 00000 10140			[1730/1750z Unworkable]		Fair
23/06	491 000 07936 00001 00000 10140			[1730/1750z Unworkable]		Weak
28/06	491 1 02373 00085 75349 31676					Weak
30/06	491 1 02373 00085 75349 31676					Strong

XPA2 m

Sunday/Tuesday

May 2016

2000z	**14538kHz**	**2020z**	**13538kHz**	**2040z**	**12138kHz**	
01/05	0928n 00001 00000 10140			[Poor condx across schedule]		Very weak
03/05	03759 00001 00000 10140					Strong
08/05	Solar flares; 2000/2020z NRH, 2040z Extremely weak, unworkable					
10/05	06283 00061 66619 12132					Fair
15/05	06725 00001 00000 10140					Very strong
17/05	08503 00001 00000 10140					Very strong
22/05	04715 00001 00000 10140					Very strong
24/05	07209 00001 00000 10140					Very strong
29/05	02851 00001 00000 10140					Very strong
31/05	06993 00001 00000 10140					Very strong

June 2016

2100z	**14738kHz**	**2120z**	**13438kHz**	**2140z**	**12138kHz**	
05/06	06994 00001 00000 10140			[2100/2120z Unworkable]		Very strong
07/06	03103 00001 00000 10140					Very strong
12/06	06743 00001 00000 10140					Very strong
14/06	09188 00001 00000 10140					Fair
19/06						
21/06	06831 00081 57111 04666			[2100z LOS after 2m44s]		Strong
23/06	491 000 07936 00001 00000 10140			[1730/1750z Unworkable]		Weak
26/06	07352 00057 44510 64507					Very strong
28/06	07352 00057 44510 64507					Very strong

XPA2 p

Sunday/Friday

May 2016

1500z	**16314kHz**	**1520z**	**15814kHz**	**1540z**	**14514kHz**	
01/05	07378 00001 00000 10140			[1500/1520z NRH, poor condx]		Fair
06/05	01968 00097 33049 21672			[1500z Very weak]		Very strong
08/05	Solar flares; 2000/2020z NRH, 2040z			Extremely weak, unworkable		
13/05	01089 00001 00000 10140					Fair
15/05	06618 00001 00000 10140			[1500z Very weak]		Strong
20/05	03337 00129 04355 63034					Strong
22/05	03337 00129 04355 63034					Very strong
29/05	03924 00243 64052 13425					Very strong

XPA2p continued

June 2016

Tuesday/Thursday

1900z	**15884kHz**	**1920z**	**14984kHz**	**1940z**	**14384kHz**	
02/06	02572 00001 00000 10140					Very strong
07/06	09284 00001 00000 10140					Very strong
09/06	05244 00001 00000 10140					Very strong
14/06	08807 00239 49419 05337					Very strong
16/06	08807 00239 49419 05337					Very strong
21/06	06862 00001 00000 10140					Very strong
23/06	05274 00001 00000 10140					Very strong
25/06	08673 00001 00000 10140					Strong
28/06	07395 00257 13688 22720					Fair
30/06	07395 00257 13688 22720					Very strong

XPA2 r

Friday/Saturday

May 2016

1900z	**17462kHz**	**1920z**	**16114kHz**	**1940z**	**14828kHz**	
06/05	03004 00001 00000 10140			[1900/1920 Very weak, unworkable]		Very strong
07/05	05245 00001 00000 10140			[1900z Weak]		Very strong
13/05	04110 00001 00000 10140					Very strong
14/05	05736 00001 00000 10140			[1900z Very weak, unworkable]		Fair
20/05	05902 00057 02618 16516					Strong
21/05	05902 00057 02618 16516					Very strong
27/05	05793 00001 00000 10140					Very strong
28/05	02899 00001 00000 10140					Very strong

June 2016

2100z	**16167kHz**	**2120z**	**14663kHz**	**2140z**	**13923kHz**	
03/06	00367 00117 00889 61447					Fair
04/06	00367 00117 00889 61447					Very strong
10/06	06711 00001 00000 10140					Very strong
11/06	07840 00001 00000 10140					Very strong
17/06	07055 00101 55874 24047			[2100z incomplete sending]		Very strong
18/06	02249 00001 00000 10140			[2140z NRH]		Very strong
24/06	08673 00001 00000 10140					Very strong
25/06	07103 00001 00000 10140					Very strong

XPA2 t

Tuesday/Friday

May 2016

0700z	**19667kHz**	**0720z**	**18767kHz**	**0740z**	**17467kHz**	
03/05	03225 00125 08749 15122			[0700z NRH, 0720z Weak/Fair]		Strong
06/05	03225 00125 08749 15122			[0700z/0720z Very weak, u/w]		Strong
10/05	01088 00001 00000 10140					Fair to strong
13/05	04432 00001 00000 10140					Fair to strong
17/05	08916 00001 00000 10140					Strong
20/05	03801 00001 00000 10140					Fair
24/05	03065 00093 61487 01566					Fair
27/05	03065 00093 61487 01566					Fair
31/05	01545 00001 00000 10140					Strong

June 2016

0700z	**19514kHz**	**0720z**	**18214kHz**	**0740z**	**16314kHz**	
03/06	MISSED					
07/06	03004 00103 80660 44767					Fair/Strong
10/06						
14/06	00949 00179 37691 06026					Fair

00949 00179 37691 05161 39954 47641 34361 55668 22853 35119
09717 67219 95548 72226 70445 39785 19619 13015 74827 59090
56193 66420 28472 80435 47881 89841 24505 72572 81397 78556
34978 97721 21293 11020 09177 80511 63025 57530 97960 65193
52098 47320 65060 86780 65556 82209 80085 35297 48446 91599
20801 07150 89631 14295 94831 58175 61502 39821 98483 88379
82949 91353 51505 14069 54847 60647 29364 53437 47349 14452
66346 48714 22359 55726 74461 06754 78264 34982 97767 20686
94547 98763 29852 51686 05652 87763 37524 73488 25258 80582
44271 47422 15462 52041 33161 60782 31957 04493 31940 85254
75673 83027 80561 90758 51023 60574 01463 10882 54934 26804
34499 99722 33119 39044 32328 57571 55697 23760 96777 27079
77944 01758 85884 47701 12232 12249 98385 43679 44772 91284
55326 04848 79258 77328 92287 17486 64325 39547 62200 95687
50525 50055 75009 74855 41582 12708 95985 25300 42880 15346
79787 34109 43652 89471 37978 04376 62188 43956 61327 39827
21020 92169 37253 60125 59438 64336 55375 16941 61489 98026
21666 66917 51102 85157 77924 80861 81027 01061 70429 39461
29752 06026
Courtesy Ary

16/06	00949 00179 37691 06026					Very strong
21/06	07376 00001 00000 10140					Fair
24/06	07376 00141 076352 35645					Very strong
28/06	01791 00001 00000 10140					Strong, QSB2

HM01

HM01 continues mostly on the usual schedules except that the 0500z slot on 5855kHz appears to have gone by the wayside, it has – at least partially – been replaced by transmissions on 10860kHz although we don't have the revised schedule yet.

The practice of starting the 1600z schedule with the previous day's callups continues quite frequently.

Most file extensions transmitted were .TXT files but .F1C and .F1G extensions were also transmitted. These files included 36576862.F1G, 50367035.F1C, 50312440.F1C, 50324161.F1C, 50430781.F1C, 36107405.F1G, 36743860.F1G and as usual F1G extensions' file names began with 36 and F1Cs with 50.

On 10/6 at 2100z, new callup 93780 appeared, this contained a 9 and the last digit incremented +1 the following day in keeping with the usual behavior of callups ending with a 0.

On 10/6 at 1800z the transmission came up late with repeated "Uno" only, not noted by us before is the fact that the voice on the repeated Uno is different from the usual HM01 voice.

Logs

HM01 11435kHz 1600z 1/5 [11666 28605 51846 43044 76593 88475] SUN
HM01 11435kHz 1600z 2/5 [11667 28606 51847 43045 76594 88476] Started with yesterday's callups befor switching to the correct ones. MON
HM01 11435kHz 1600z 3/5 [11668 28607 51848 43046 76595 88477] TUE
HM01 11435kHz 1600z 4/5 [65811 06321 20081 43047 76596 88478] New callups positions 1, 2 and 3, 65811 = 06321 = 20081 = WED
HM01 11435kHz 1600z 5/5 [65811 06321 20081 43048 76597 88479] THU
HM01 11435kHz 1600z 6/5 [65813 06323 20083 18811 68621 57531] New callups positions 4, 5 and 6, 18811 = 04711881.TXT, 68621 = 36576862.F1G, 57531 = 54715753.TXT. Callups appear to have skipped one day ahead. FRI
HM01 11435kHz 1600z 7/5 [65814 06324 20084 18812 68621 57532] Callups incremented +1 from yesterday, note that based on last digits callup 5 should have appeared on Wednesday. SAT
HM01 11435kHz 1600z 8/5 [65815 06325 20085 18813 68622 57533] SUN
HM01 11435kHz 1600z 9/5 [65816 06326 20086 18814 68623 57534] MON
HM01 11435kHz 1600z 10/5 [65817 06327 20087 18815 68624 57535] TUE
HM01 11435kHz 1600z 11/5 [11811 06328 20088 18816 68625 57536] New callup position 1, 11811 = 42301181.TXT. WED
HM01 11435kHz 1600z 12/5 [11811 44871 20089 18817 68626 57537] New callup position 2, 48871 = WED
HM01 11435kHz 1600z 13/5 [11812 44871 43761 27731 68627 74331] New callups positions 3, 4, 6, 43761 = 03304376.TXT, 27731 = 73282773.TXT, 74331 = 66677433.TXT. FRI
HM01 11435kHz 1600z 14/5 [11813 44872 43761 27731 68628 74331] FRI
HM01 11435kHz 1600z 15/5 [11814 44873 43762 27732 01131 74332] New callup position 5, 01131 = 46480113.TXT. SAT
HM01 11435kHz 1600z 16/5 [11815 44874 43763 27733 01131 74333] SUN
HM01 11435kHz 1600z 17/5 [11816 44875 43764 27734 01132 74334] MON
HM01 11435kHz 1600z 18/5 [43031 44876 43765 27735 01133 74335] New callup position 1, 43031 = 86014303.TXT. WED
HM01 11435kHz 1600z 21/5 [43034 70351 43768 10211 01136 74338] New callups positions 2 and 4, 70351 = 50367035.F1C, 10211 = 13471021.TXT. SAT
HM01 11435kHz 1600z 22/5 [43035 70352 06831 10211 01137 74339] New callup position 3, 06831 = 38580683.TXT. SUN
HM01 11435kHz 1600z 23/5 [43036 70353 06831 10212 01138 71241] New callup position 6, 71241 = 77847124.TXT. MON
HM01 11435kHz 1600z 24/5 [43037 70354 06832 10213 01139 71241] TUE
HM01 11435kHz 1600z 25/5 [45611 70355 06833 10214 24401 71242] New callups positions 1 and 5, 45611 = 32284561.TXT, 24401 = 50312440.F1C. WED
HM01 11435kHz 1600z 26/5 [45611 70356 06834 10215 24401 71243] THU
HM01 11435kHz 1600z 28/5 [45613 70358 06836 10217 24403 71245] SAT
HM01 11435kHz 1600z 29/5 [45614 70359 06837 10218 24404 71246] Started with yesterday's callups before switching to the correct ones. SUN
HM01 11435kHz 1600z 30/5 [45615 41611 06838 10219 24405 71247] New callup position 2, 41611 = 50324161.F1C. MON
HM01 11435kHz 1600z 31/5 [45616 41611 07811 80521 24406 71248] New callup position 3, 07811 = 50430781.F1C. TUE
HM01 11435kHz 1600z 1/6 [45617 41612 07811 80521 24407 74051] New callups position 6, 74051 = 36107405.F1G. WED
HM01 11435kHz 1600z 2/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. THU
HM01 11435kHz 1600z 3/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. FRI
HM01 11435kHz 1600z 4/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. SAT
HM01 11435kHz 1600z 5/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. SUN
HM01 11435kHz 1600z 6/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. MON
HM01 11435kHz 1600z 7/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. TUE
HM01 11435kHz 1600z 8/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. WED
HM01 11435kHz 1600z 9/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. THU
HM01 11435kHz 1600z 10/6 [45617 41612 07811 80521 24407 74051] Same callups as yesterday. FRI
HM01 11635kHz 1800z 10/6 Up late with repeated 1s only. Note different voice to normal HM01 SS/YL FRI
HM01 11635kHz 2100z 10/6 [93780 58521 43431 16311 57578 40771] All new callups. 93780 = 23879378.TXT, 58521 = 16515852.TXT, 43431 = 31414343.TXT, 16311 = 55261631.TXT, 57578 = 66555757.TXT, 40771 = 10414077.TXT Callup 1 ends with 0 which is unusual. FRI
HM01 11435kHz 1600z 11/6 [93780 58521 43431 16311 57578 40771] Same callups as yesterday. SAT
HM01 11435kHz 1600z 13/6 [93783 58524 43434 16313 23312 40773] Callups have incremented +3 since sunday putting the schedule back on track. New callup position 5, 23312 = 15562331.TXT. TUE
HM01 11435kHz 1600z 14/6 [93784 58525 43435 16314 23313 40774] WED
HM01 11435kHz 1600z 15/6 [93785 58526 43436 16315 23314 40775] THU
HM01 11435kHz 1600z 16/6 [93786 58527 43437 16316 23315 40776] Started with yesterday's callups before switching to the correct ones. FRI
HM01 11435kHz 1600z 17/6 [93787 58528 43438 16317 23316 40777] SAT
HM01 11435kHz 1600z 18/6 [93788 58529 43439 16318 23317 40778] SUN
HM01 11435kHz 1600z 19/6 [74641 06251 38601 16319 23318 11181] New callups positions 1, 2, 3, 6, 74641 = 48557464.TXT, 06251 = 03530625.TXT, 38601 = 36743860.F1G, 11181 = 62561118.TXT. MON
HM01 11435kHz 1600z 20/6 [74641 06251 38601 67331 23319 11181] New callup position 4, 67331 = 77776733.TXT. TUE
HM01 11435kHz 1600z 22/6 [74643 06253 38603 67332 18101 11183] New callup position 5, 18101 = 88011810.TXT. WED
HM01 11435kHz 1600z 23/6 [74644 06254 38604 67333 18102 11184] THU
HM01 11435kHz 1600z 23/6 [74645 06255 38605 67334 18103 11185] FRI
HM01 11435kHz 1600z 24/6 [74645 06255 38605 67334 18103 11185] SAT
HM01 11435kHz 1600z 25/6 [74646 06256 38606 67335 18104 11186] Started with yesterday's messages in progress before switching. SUN
HM01 11435kHz 1600z 27/6 [74648 06258 38608 67337 18106 11188] MON
HM01 11435kHz 1600z 28/6 [58561 33821 52231 86201 18107 08561] New callups positions 1, 2, 3, 4, 6, 58561 = 88255856.TXT, 33821 = 83323382.TXT, 52231 = 60335233.TXT, 86201 = 00138620.TXT, 08561 = 88280856.TXT. TUE
HM01 11435kHz 1600z 29/6 [58561 33821 52231 86201 18108 08561] WED
HM01 11435kHz 1600z 30/6 [58562 33822 52232 86202 18109 08562] THU

Others' logs:

10345kHz0603z	15/05[11813 44872 43761 27731 68628 74331 with associated RDFT]	Fair, QSB2
	Repeated at 0630z	Strong

9065kHz 0826z 12/06 HM01 in progress, good signal

16515852.TXT
10414077.TXT
15562331.TXT
55261631.TXT
31414343.TXT
23879378.TXT

9240kHz 0859z 12/06 HM01 excellent signal, strong audio

16515852.TXT
10414077.TXT
15562331.TXT
55261631.TXT
31414343.TXT
23879378.TXT

11635kHz 2058z 12/06 HM01 fair signal, good audio, heavy fading, unable to deco

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

Transmission times are variable with the carrier often appearing some time before the transmissions start.

Schedule:	Current Daily:	7351kHz	0440 - 0500z (Variable) From 14 April.
	Previously:	6261kHz	0540 - 0600z (Variable) Up to March28
			0440 - 0500z (Variable) From 29 March change due to Daylight Saving adjustment.

The station consists of a repeated short FSK sequence, for a minute or more followed by a Morse message, which is repeated, although there has been some variations to this on a few occasions.

As can be seen from the logs, an occasional addition is the sending of the figures 999 just prior to the decode key & group count. This is hand sent & could represent the ID of the station - possibly a generic ID - if the station is using the same format as the other Family I stations, such as M12 & M14.

The ending 000 is also hand sent showing that only the message & the data sequence are pre-prepared, with the overall order of the transmission being manually managed by an operator.

The station is still exhibiting the same irregular start time on a daily basis, with the start time varying around 0440z, but has been as early as 0418z & as late as 0450z. An even wider variation of times was experienced with the starting time of the carrier, which appears prior to the transmission.

Morse msg Logs:

May2016

7351	0440 - 0457z	01 May	721 70 = 64045	21536....66807	000	Good	FSK-19.8bd/129Hz/FSK-CW	AB/BR	SUN
	0449 - 0500z	02 May	791 64 = 47800	41322....82044	000	Good strong Signal		AB/BR	MON
	0443 - 0454z	03 May	682 62 = 82790	41583....78076	000	Fair with QSB		AB/BR	TUE
	0441 - 0453z	04 May	573 65 = 23440	13764....96374	000		999 sent just prior to Morse DK/GC	AB/BR	WED
	0440 - 0450z	05 May	414 58 = 37864	91799....03888	000	Good		AB/BR	THU
	0445z	06 May	365 67 = 27954	63059....84517	000	Poor		AB	FRI
	0438z	07 May	276 63 = 80951	76787....07136	000	Good		AB	SAT
	0447 - 0459z	08 May	127 66 = 95396	42885....57387	000	Fair	999 sent just prior to Morse DK/GC	BR	SUN
	0441 - 0452z	09 May	945 69 = 83949	57995....26372	000	Good with QSB		AB/BR	MON
	0439 - 0449z	10 May	105 54 = 71350	57962....81092	000	Good		AB/BR	TUE
	0442 - 0453z	11 May	323 70 = 01904	67017....47409	000	Good with QSB		AB/BR	WED
	0445 - 0456z	12 May	273 62 = 20037	78059....18412	000	Good with QSB		AB/BR	THU
	0437 - 0456z	13 May	369 68 = 74243	67712....19742	000	Good	(Sent on 7352kHz - In Error?)	AB/BR	FRI
	0443z	14 May	632 68 = 08254	55119....34972	000			AB	SAT
	0440 - 0451z	15 May	816 62 = 15555	67818....29457	000	Good		AB/BR	SUN
	0449 - 0502z	16 May	520 68 = 80898	53131....50247	000	Good	999 sent just prior to Morse DK/GC	AB/BR	MON
	0441 - 0451z	17 May	945 65 = 62253	45475....77581	000	Good		AB/BR	TUE
	0442 - 0454z	18 May	235 71 = 39008	87969....09080	000	Good		AB/BR	WED
	0440z	19 May	483 68 = 34062	01423....00080	000	Poor with deep QSB		AB	THU
	0441 - 0452z	20 May	176 68 = 66421	60493....43345	000	Strong	999 sent just prior to Morse DK/GC	AB/BR	FRI
	0438 - 0453z	21 May	814 68 = 95015	94163....61915	000	Good	Data sent at 0438z & again at 0442z	BR	SAT
	0438 - 0449z	22 May	712 62 = 99064	06630....62320	000	Strong		BR	SUN
	0442 - 0453z	23 May	235 62 = 32340	55014....02769	000	Good		BR	MON
	0440 - 0452z	24 May	348 67 = 44226	91016....49315	000	Good		BR	TUE
	0446 - 0459z	25 May	571 71 = 57927	14860....22295	000	Good	Carrier up until 0506z	BR	WED

7351	0448 - 0500z	26 May	247 65 = 09720 34403....94475 000	Strong	BR	THU
	0445 - 0455z	27 May	593 64 = 33036 72064....42162 000	Good	BR	FRI
	0445z	28 May	896 62 = 40859 85162....42033 000	Good with QSB	BR	SAT
	0445 - 0456z	29 May	704 63 = 84796 61204....89529 000	Good with QSB	BR	SUN
	0444 - 0455z	30 May	135 65 = 40036 13909....49405 000	Strong	BR	MON
	0446 - 0458z	31May	264 67 = 18856 06363....21864 000	Strong	BR	TUE

Jun 2016

7351	0447 - 0501z	01 Jun	968 74 = 93120 16752....79291 000	Fair with QSB	BR	WED
	0439 - 0450z	02 Jun	824 65 = 12768 43900....11220 000	Fair	BR	THU
	0446 - 0458z	03 Jun	629 64 = 20967 69262....07140 000	Strong	BR	FRI
	0443 - 0508z	04 Jun	381 62 = 18909 19517....13872 000	Strong [Note 1]	BR	SAT
	0441 - 0453z	05 Jun	529 61 = 30381 03454.....33456 000	Strong	AB/BR	SUN
	0440 - 0452z	06 Jun	587 65 = 91160 31598.....11325 000	Fair with QSB	AB/BR	MON
	0449 - 0502z	07 Jun	259 63 = 13956 01350.....06321 000	Good with QSB	AB/BR	TUE
	0450 - 0502z	08 Jun	230 65 = 17603 06857.....73780 000	Strong	AB/BR	WED
	0448 - 0459z	09 Jun	974 64 = 98834 64307....44036 000	Strong	BR	THU
	0425 - 0438z	10 Jun	583 65 = 23697 56957....29860 000	Strong [Note 2]	BR	FRI
	0445z	11 Jun	367 65 = 16196 95592....76751 000		AB	SAT
	0431 - 0443z	12 Jun	340 69 = 62072 08773....06546 000	Fair with QSB	AB/BR	SUN
	0418z	13 Jun	879 69 = 10987 17122....16947 000	Early start! Caught in progress at rpt call-up	AB	MON
	0438 - 0451z	14 Jun	171 71 = 91287 98198....78040 000		AB/BR	TUE
	0448 - 0503z	15 Jun	926 76 = 91287 98198....44575 000	Good. 1st sending at slower speed, 2nd fast as usual	AB/BR	WED
	0432 - 0445z	16 Jun	195 68 = 48078 82117....40142 000	Good	AB/BR	THU
	0445 - 0458z	17 Jun	238 67 = 90047 83793....74755	Good. No 000 sent at EOM [Note 3]	BR	FRI
	0430z	18 Jun	413 67 = 16371 03517.... 54857 000		AB	SAT
	0441 - 0455z	19 Jun	947 67 = 85555 80815.... 74891 000	Strong 1st sending at slower speed, 2nd fast as usual	AB/BR	SUN
	0437 - 0449z	20 Jun	654 70 = 46819 33246.... 91866 000	Strong	AB/BR	MON
	0437 - 0451z	21 Jun	179 73 = 12752 18435.... 65647 000	Good with QSB	AB/BR	TUE
	0443 - 0456z	22 Jun	903 63 = 39903 65234.... 42444 000	Good	AB/BR	WED
	0440 - 0452z	23 Jun	826 68 = 60519 39016.... 70619 000	Good with QSB	AB/BR	THU
	0437z	24 Jun	436 74 = 08495 81295.... 47207 000		AB	FRI
	0447 - 0501z	25 Jun	294 64 = 85799 83055.... 56993 000	999 sent just prior to Morse DK/GC	AB/BR	SAT
	0443 - 0508z	26 Jun	543 69 = 63365 69173.... 34079 000	Good [Note 4]	AB/BR	SUN
	0436 - 0450z	27 Jun	611 77 = 36933 40819.... 21610 000	Good	AB/BR	MON
	0436 - 0449z	28 Jun	849 68 = 00791 11984.... 03956 000	Fair	AB/BR	TUE
	0432 - 0447z	29 Jun	825 73 = 34821 94522.... 69136 000	Good	AB/BR	WED
	0436 - 0449z	30 Jun	572 69 = 05051 25412.... 78720 000	Good with QSB	AB/BR	THU

[Note 1] The DK GC & first 14 grps of the msg from 31 May were sent out before being abruptly stopped after the first figure of grp15. After a pause the correct DK /GC & msg were then transmitted.

[Note 2] The first 20 grps of the first sending were partly unreadable due to a technical problem, with characters not forming correctly or forming just a long tone, probably overloading the input or similar.

[Note 3] 000 was not sent at the end of the transmission, and the carrier was cut very quickly after the ending DK GC.

[Note 4] Transmission problems evident. Part of first sending was broken & partially unreadable, particularly the first 20 starting groups at the start of the message. The message was stopped after group 32 of the repeat, then following a short pause the whole transmission was sent again. The problem had been solved as this sending was faultless. The carrier remained on air until 0541z. *(Thanks Ary!)*

HM02 7351kHz 0449z 02 May16

FSK-19.8bd/129Hz/FSK-CW

791 64 = (FSK Morse)

47800 41322 84209 40285 51226 14408 09887 68363 84564 89918
27826 36673 26183 63007 67818 66366 81005 39052 75458 86059
43248 01242 21669 57447 75956 75704 21380 70728 37945 73135
51882 73988 24656 29124 43519 58613 20245 72903 54496 60924
97846 22079 62178 40745 54895 29302 11745 44553 62552 15797
84415 83133 85480 24082 90879 93314 61298 85516 91892 51809
30119 04422 47168 82044 =

791 64

791 64 = (Repeat of msg) =

791 64 000 *Courtesy AB*

HM02 7351kHz 0447z 08 May16

Carrier up 0433z
Data transmission 0447z.

999 127 66 = (FSK Morse)

95396 42885 34978 53482 54941 90679 94654 17158 18414 83808
47496 08606 76631 45278 54865 81527 44329 34484 76506 86444
41708 83025 79068 09230 79894 15815 29940 22784 16393 26804
77177 00460 93916 86431 29996 53896 29924 32601 06477 59672
10723 37483 57082 64739 74293 28098 97477 56141 53933 86696
32953 14697 13209 02365 41279 71967 63685 60271 82523 23467
83049 62282 56316 35273 37553 57387 =

127 66

127 66 = (Repeat of msg) =

127 66 <Long Pause> 000

Courtesy BR

X06 report

NOTE : Image of 1/6 sequence preceeding E07 transmission 0600z Sunday 19/06/2016 Page 20

X06 Mazielka (1c) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20160504	Wed	0621-0625	13838	256341	Peter/UK	Poor, G311
20160505	Thu	0728-0732	14447	162543	Peter	Alert 7 (G39) 1 Good
20160505	Thu	0733-0734	14447	162543	Peter	7.2 S1
20160505	Thu	0736-0745	14447	162543	Danix/PL	7.3
20160505	Thu	0745-0759	13448	162543	Danix	7.4
20160506	Fri	0829-0830	14570	324615	Peter	G52
20160506	Fri	0930-0933	18197	645321	Danix	G57
20160506	Fri	1003-1007	12215	361245	Peter	G53
20160506	Fri	1026	13547	625413	Peter	Shortie (only 39 secs), G56
20160510	Tue	0800-0802	13420	534216	Peter	Alert 1 (G87) 1
20160510	Tue	0828-0836	13420	534216	Peter	1.2
20160510	Tue	1009-1020	14675	612534	Peter	Alert 2 (G89) 1
20160510	Tue	1021-1039	13510	612534	Peter	2.2
20160510	Tue	1927&1930	14538	1-6---	LU5EMM	X06b before XPA2m
20160511	Wed	0728-0731	13369	412356	Peter	G97
20160511	Wed	0742-0748	14655	164253	Peter	G395
20160511	Wed	0845	13985	134265	Peter	Shortie, G90
20160511	Wed	1008	18591	435621	Peter	Another shortie, G98
20160511	Wed	1042	15878	621543	Peter	Next shortie, G102
20160512	Thu	1518-1519	10535	564213	Peter	Alert 2 (G118) 1
20160512	Thu	1522	14442	564213	Peter	2.2 Shortie
20160513	Fri	0829-0831	10653	356412	Peter	G126
20160513	Fri	0956-0959	12213	615243	Danix,Peter	Weak in UK, G127
20160513	Fri	1409	16314	1--6--	André/FR	X06b before XPA2p
20160515	Sun	0721-0726	14595	452163	Peter	Weak, G403
20160515	Sun	1422	16314	1--6--	LU5EMM	X06b before XPA2p, QSA1
20160515	Sun	1924	12138	1--6--	LU5EMM	X06b before XPA2m, QSA2
20160515	Sun	1931	13538	1--6--	LU5EMM	X06b before XPA2m, QSA1
20160515	Sun	1934	14538	1--6--	LU5EMM	X06b before XPA2m, QSA2
20160516	Mon	0730-0737	14377	432516	Peter	Weak, G341
20160516	Mon	1533-1543	13395	532614	Peter	Good and strong, G147
20160517	Tue	0752-0754	12157	165423	Peter	Good, G151
20160517	Tue	0828-0839	15687	154263	Peter	Good, G148
20160517	Tue	0920-0923	18206	246531	Peter	Alert 1 (G153) 1 S1, only visible
20160517	Tue	0927	18206	246531	Peter	1.2 Single tone set only
20160517	Tue	1204-1212	16188	325614	Danix,Peter	Fair in UK, G400
20160517	Tue	1838	12138	1--6--	LU5EMM	X06b before XPA2
20160517	Tue	1843&1856	13538	1--6--	LU5EMM	X06b before XPA2
20160518	Wed	1102-1108	16115	215346	Peter	Alert 1 (G167) 1 Weak
20160518	Wed	1110-1111	16115	215346	Peter	1.2 Weaker than above
20160519	Thu	0713-0715	19511	314265	Peter	S1, G178
20160519	Thu	0722	14447	162543	Peter	S1 (inaudible, only visible), G175
20160519	Thu	0901	18532	325614	Peter	S1 (also only visible), G409 (new)
20160520	Fri	1002-1004	14501	361245	Danix,Peter	Alert 2 (G190, good in UK) 1
20160520	Fri	1004-1009	12215	361245	Danix,Peter	2.2
20160520	Fri	0815-0820	14570	324615	Peter	Good, G189
20160520	Fri	0945-0947	18197	645321	Peter	Alert 1 (G194) 1 Good
20160520	Fri	0949-0950	18197	645321	Peter	1.2 Fair
20160522	Sun	1905&1907	14538	1--6-5	LU5EMM	Rare X06b before XPA2
20160522	Sun	1922&1926	14538	1--6-5	LU5EMM	Rare X06b before XPA2
20160522	Sun	1924	13538	1--6-5	LU5EMM	Rare X06b before XPA2
20160522	Sun	1925	12138	1--6-5	LU5EMM	Rare X06b before XPA2
20160523	Mon	0928-0931	13517	463125	Peter	Strong, G222
20160523	Mon	1242-1253	15656	364152	Peter	S1, G73
20160524	Tue	0800-0807	13420	534216	Peter	S1, G232
20160524	Tue	0810-0816	16257	542136	Peter	Good, G88
20160524	Tue	1001-1009	16317	612534	Danix,Peter	Alert 2 (G234, poor in UK) 1
20160524	Tue	1009-1033	13510	612534	Danix,Peter	2.2
20160525	Wed	0723-0740	13369	412356	Peter	Fair, G243
20160525	Wed	0759-0800	13419	465132	Peter	Good (only 1 tone set), G246
20160525	Wed	0806-0812	18177	164253	Peter	Strong and clear, G402
20160525	Wed	1033-1039	14944	621543	Peter	Good, G248
20160526	Thu	0952	13506	164532	Peter	Alert 2 (G252, good) 1
20160526	Thu	1000	16223	164532	Peter	2.2
20160526	Thu	1409	13441	532614	Peter	Shortie (only 1 tone set), R
20160526	Thu	1412	14811	263145	Peter	Alert 3 (G256, fair) 1
20160526	Thu	1418	13811	263145	Peter	3.2
20160526	Thu	1427	10214	263145	Peter	3.3
20160526	Thu	1518-1522	12158	564213	Peter	Fair, G263
20160527	Fri	0841-0844	10653	356412	Schorschi	I. p., S9+20, G271
20160527	Fri	1008-1013	12213	615243	Danix	Alert 2 (G305) 1
20160527	Fri	1013-1020	14863	615243	Danix	2.2
20160529	Sun	1629-1630	14763	1--6--	Schorschi	X06b before E07, S9
20160529	Sun	1905&1908	14538	1--6--	LU5EMM	X06b before XPA2
20160601	Wed	1134-1138	16115	215346	Antonio/IT	G25

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20160603 Fri 0544-0546 13954 213546 Peter       Weak, G338
20160603 Fri 0625-0626 16320 241563 Peter       Weak, G50
20160603 Fri 0819-0823 16219 324615 Peter       Good, G52
20160603 Fri 0934-0937 18197 645321 Peter       Good, G57
20160603 Fri 1004-1012 14501 361245 Peter       Fair, G53
20160603 Fri 1028-1032 14824 625413 Peter       Fair, G56
20160603 Fri 1228      20837 645321 Peter       Fair, G57
20160603 Fri 1237      13547 625413 Peter       Alert 2 (G56, fair) 1
20160603 Fri 1248      14824 625413 Peter       2.2
20160603 Fri 1320      12091 216354 Peter       Fair, G49
20160606 Mon 0625      13452 165324 Antonio     G1
20160606 Mon 0736-0752 12152 432516 Peter       Fair, G6 (carrier off at 0756)
20160606 Mon 0740-0750 14825 641523 André,Peter S1 in UK, G5
20160607 Tue 1508      15884 1-6-1- LU5EMM      X06b before XPA2
20160608 Wed 0728-0729 13369 412356 Peter       Weak, G97
20160608 Wed 0844      16116 134265 Peter       Weak shortie (only 1 tone set), G90
20160608 Wed 1027-1033 14944 621543 Peter       Good, G102
20160609 Thu 1402-1404 14812 263145 Peter       Strong, G111
20160610 Fri 0828-0829 10653 356412 Peter       S1 (only visible), G126
20160610 Fri 0953-0956 19611 256134 Peter       Good, G125
20160615 Wed 0835      13465 362154 Antonio     G394
20160616 Thu 1035-1038 16230 323232 Schorschi   Special X06a with S9
20160617 Fri 0931-0934 18197 645321 Danix       G194
20160620 Mon 0705      13452 165324 André       G145
20160623 Thu 0846-0849 16223 164532 Peter       Good, G252
20160625 Sat 0513      11464 1--6-- Ary/NL      X06b before E07
20160625 Sat 0514       9064 1--6-- Ary         X06b before E07
20160625 Sat 0515      10264 1--6-- Ary         X06b before E07
20160628 Tue 1013-1018 13510 612534 Peter       Fair, G234
20160629 Wed 1622      12142 1--6-- Schorschi   X06b before E07 with S9
20160630 Thu 0820-1110 14450 123456 Danix,
                                    Schorschi   X06c with S9 in DE
20160630 Thu 1754&1816 15884 2--6-- LU5EMM      X06b before XPA2
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From Jochen and Group – thanks.

A splendid addition from the pen of Hans Haydn for ENIGMA 2000:

SUFFER THE CHILDREN - FAMILIES BEHIND THE NUMBERS
By Hans Haydn

On 7th May 2016 *The Guardian* published an article concerning the children of two of the illegal Russian agents arrested in the US as part of a spy ring in 2010. Anna Chapman was its most famous member for some obscure reason..... This haul represented the biggest round up of Russian illegals in US history. Some of the couples who were apprehended had offspring as part of their normal family life and the newspaper recently got to meet two of them; Tim and Alex. This offered an interesting insight into how the world of espionage has an impact on those who do not participate
and how the innocent sometimes suffer. It highlighted betrayal, intrigue, trust and deception. Also of interest are the personal stories behind the emotionless broadcast of number stations and to put identities to these anonymous inhabitants of the short wave band.

Tim and Alex are the sons of Russian illegal agents "Donald Heathfield" and "Tracey Foley' who lived in Cambridge, Mass, USA. Both children were born in Canada and Donald, their father, had done qualifications in the US and France. They had lived in the former for lo years. Their father was a consultant in a firm based in Boston, USA and their mother, Tracey, an estate agent. Everyone saw them as an ordinary family who did a lot of travel abroad, often to Asia. The parents encouraged their sons to take an interest in the wider world, studying and reading widely for the future.. .....

On 27 June 2010, the FBI raided their suburban home after Tim's 20th birthday party and arrested the parents for espionage. One son thought that the raid was over underage drinking a party they had attended but it was more serious than that!

The parents were taken away, the house was searched and the boys taken to a hotel. They were informed that their parents were not boring suburbanites but actually spies and Russians ones at that.

Donald and Tracey were Canadians who had died long ago and their identities stolen by the couple the boys knew as Mom and Pop. This was quite a revelation to the children as their lives were shattered, finding that they had lived a lie with strangers for years. The boys assumed that the arrests were all an error but as more information emerged, the whole bizarre tale unravelled.

Donald and Tracey were actually Andrei Bezrukov and Elena Vavilova who were both born in the USSR.

The KGB had recruited and trained them before being sent abroad as illegals. The FBI had monitored the couple in the US for years along with eight other illegals.

They were likely betrayed by a CIA source inside the KGB. The two had initially lived in Canada, had their children and then moved to the US to build their cover. Court papers reveal the usual dead-drops, coded radio messages and secret meetings seen in espionage cases.

All the arrested spies were traded with the Russians for western spies held by Moscow. After the transfer, the sons had to decide what to do next and they followed their parents east. *The Guardian* met one son in Moscow when he visited his parents.
He was still trying to learn Russian because he had no knowledge of the language when he went there and knew nobody other than his parents. Both the sons now live outside Russia and pursue careers and studies in Europe and Asia.

Their details were not disclosed so that they could move on with their lives.

One boy was in a legal battle with the Canadian government to win back his Canadian citizenship which was stripped from him when his parents were exposed as Russians. It left his confused as to his identity because his parents used false names and a false nationality. He didn't know who or what his parents were.

When the boys went to Russia they were met at the airport by men who put them in a van and spoke to them in English. They were shown photos of their parents in their 20s wearing uniforms with medals. Only then did the boys realise that the whole incredible story was true. Over several days they were taken around the city to museums and the ballet. Russian relatives they had no idea existed came to see them including an unknown grandmother. The elderly lady could speak no

English and they had not one word of Russian. It was not a successful session and the summer of 2010 must have been the ultimate in teenage angst and identity crisis!

Few details emerged about their parents other than they were recruited as a couple. They were young and clever and went through years of training to prepare them for their mission. None of the agents has commented on their activities in the US or their training.

Directorate S which runs the illegals programme is the most secretive part of the KGB SVR. A former illegal stated that he had two years of training in Moscow with daily English lessons given by an American female defector. He was also trained in communications and tradecraft on a solo basis.
He never met other agents on the programme. Some people assumed that this activity ended with the demise of the Cold War, but this case exploded that myth. With ex-KGB chief Vladimir Putin in charge, Russia still trains agents to be foreigners and Canada was a favourite staging ground before moving to a third country such as the US or Britain.

The illegals acted as a link between the Soviet embassy in a country and sources recruited in a target country. This was so diplomats did not meet certain sources. They were also sleeper agents to be activated in a war or a crisis. Mr Heathfield ran a company in Canada called "Diapers Direct" which sold nappies and likely provided him (like the babies) with good cover. His degree from a Soviet university was useless to him, and undeclared, so he studied in a Canadian college to build his cover before moving with the family to Paris to undertake an MBA.

This was likely on Moscow's orders but at the same time the KGB and the USSR were turned upside down so it must have been an interesting time to be an illegal!

The family then moved to the US as hard-working and highly qualified Canadians working for Mr Putin's SVR. Mr Heathfield enrolled at Harvard University, a highly prestigious institution, for a postgraduate degree. He graduated but Harvard withdrew the degree when it emerged that he was not Mr Heathfield and was a Russian spy! The sons never had a suspicion of espionage or a family connection with Russia.

They commented what mundane lives their parents led with their father in a global business development consultancy. The boys went to a bilingual FrenchfEnglish school in Boston to keep them in touch with European culture and likely to portray them as being cosmopolitan Americans. It would also provide excuses for travelling outside the US. No Russian words were ever used by their parents and the country was seldom mentioned. Russian food was not consumed and the parents rarely spoke of their childhood. There was no indication that they could speak Russian or were not Canadians.

Intercepted communications released by the FBI mentioned Mrs Foley taking a flight to Paris and then a train to Vienna. She would then pick up a fake British passport and travel on to Moscow after destroying the instructions in the passport and practicing a fake signature. Mr Heathfield does not seem to have obtained classified data in his attempts to penetrate US official circles but he had numerous official contacts with retired and serving government personnel. He could act as a talent spotter and support covert operations.

The irony was their house was bugged and the FBI knew they were spies even if their children did not, despite living under the same roof! Communication was done using data encrypted in the pixels of images on the internet via an SVR supplied algorithm and through receipt of SW radio signals (likely polytones).

A typical message from the SVR said that no data was held in its files on several individuals Mr Heathfield had met and who were referred to by letters. It also suggested that an individual could be used to build a network amongst students in Washington. A suitable contact in politics had also been identified and The Centre wanted more data to develop the case. The SVR also asked questions about current affairs and Mr Heathfield seemed to use contacts to help answer these queries from a US point of view.

Why the FBI moved when they did is unclear.

They had observed the illegals for years. Perhaps the US source in the SVR had to defect or was about to be caught or the ring was about to collect sensitive data. It is also in dispute whether one of the sons was also going to work for the SVR as a second generation illegal agent with a stronger background than his parents, being more embedded in American life. He denies it but officials say that the process was underway.

Interesting in the communications there was a university contact looking at building a network .....The family had planned to visit Russia that summer and had visas.. ...Would they spend a week in Moscow with the parents pretending not to understand anything being said around them? Would they have revealed the truth to their children now that they were older or was that a risk too far? Was it time to introduce a son to the SVR to continue the family business ....The sons also remembered meeting elderly grandparents in Europe when they were younger but they vanished from their lives soon after. Photos of them appeared occasionally with a snowy background and the parents said it was Canada ...rather than Siberia!

In 2010 all the agents were welcomed back to Russia and received medals from the president. They had a grand tour of modern Russia, two couples with their young children. One agent struggled to speak Russian as he had been away so long. All left SVR service and had state jobs provided. Mr Heathfield works in a Moscow university. Their sons struggled to get visas for certain countries and they do not feel Russian nor wish to live there. Their parents risked their liberty for a country their offspring do not want to live in and now have an identity crisis. Few western countries would want the sons because they may be Russian agents so their lives are in limbo.

The Russians won't want to use them because they have been identified. Perhaps it would have been better if their parents had not had children and the personal had clearly collided with the political. They will also never know their relatives and parents properly and relations are likely to be tense; do they hate them or feel betrayed? How many more people like this are out there hiding in the suburbs with those around them not knowing what or who they are? However, with the two sons, their parents raised them and cared for them regardless of what hidden lives they led and radio transmissions they received!

Many thanks Mr Haydn [*Please note any undiscovered errors due to OCR process*].

PoSW's Items of Interest in the Media:-

Death of a Communist bitch:- One of the most notable things about the fall of Communism was that very few of the movers and shakers in the former Communist nations of Eastern Europe were ever brought to trial in the way that leading figures of Nazi Germany were called to account for their crimes after World War 2. Most Communist party officials in Eastern Europe when they saw the way things were going just tore up their party membership cards, threw away their hammer and sickle badges, declared themselves to be believers in the free market and carried on bossing people around much as they had done previously notwithstanding the fact that when it comes to organised killing and mass murder the Communists had slaughtered such numbers of human beings that the make the efforts of the Nazis in that area of activity mild by comparison.

All of which has inspired conspiracy theorists to speculate that the whole Communist project from the 1917 October Revolution until the fall of the Soviet Union was secretly set up and financed by Western Capitalism all along in order to divert the attention of the common people while they, the Capitalists, set about the task of acquiring the vast majority of the world's wealth. The death of one former Communist high-flier was reported in the Life in Brief column of the *I* newspaper of 9-May, which says:-

"Margot Honecker, Politician:-
Margot Honecker, a much reviled minister of education who established mandatory courses in socialist ideals in the former East Germany - ruled in its final 18 years of existence by her husband Erich Honecker - has died in Chile, where she had spent the past 24 years in exile. She was was 89.

During her 26 years as the chief architect of East Germany's educational system, Honecker shaped a generation of young minds and, in the process, became one of the most powerful and feared figures in the repressive Communist regime. She was described as the 'Purple Witch' for the tinted wash she used in her hair, and was called the country's most-hated person, after the head of the Stasi, the ruthless East German secret police.

Margot Honecker joined the Communist Party as a teenager and was said to be even more doctrinaire than her husband who was in charge of building the Berlin Wall in 1961.

He ruled East Germany as a virtual dictator from 1971 until 1989, the year the wall came down.
Afterwards, the Honeckers took refuge in a Soviet hospital in Germany, then fled to Moscow, where they eventually found sanctuary in the Chilean embassy, thanks to a diplomatic acquaintance. Erich Honecker was sent back to Berlin in 1992 to face charges that he had engineered the deaths of East Germans attempting to flee the country. His wife ,who was dubbed 'ice-cold Margot' by the *Berliner Zeitung* newspaper, promptly took up residence in Chile, where her daughter lived.

Erich Honecker's trial was called off when it was revealed he had terminal cancer. He then joined his wife in Chile, where he died in 1994.

As a minister of education from 1963 to 1989, Margot Honecker shaped a programme of indoctrination that began in nursery school, where pictures of the country's leaders – including her husband's - were displayed. Teachers were expected to inform on rebellious students. The Russian language was taught in East German schools, and there were compulsory courses extolling Socialism. Beginning in the 1970's, students were required to undergo military training.

After the fall of the wall, documents were found suggesting that Honecker may have instigated a nefarious programme of forced adoptions in which the children of dissidents were taken from their homes to be raised by party loyalists. Honecker denied knowledge of such a programme.

In 2000 Honecker gave a series of interviews to Luis Corvalan, a Communist political figure in Chile. The conversations, later published as a book, showed that Honecker continued to see East Germany as a Socialist paradise with 'no unemployment, no homelessness, no property speculation, no rent extortion'. Even though the country had a one-party system that allowed her husband to hold on to power for 18 years, Honecker maintained the 'the elections were free, secret and equal'.

Margot Honecker, born 17 April 1927, died 6 May 2016".

"I love the smell of napalm in the morning ….. smells like victory";- a memorable line from the motion picture, *Apocalypse Now*, probably the best film on the theme of America's disastrous involvement in Vietnam. Over 50,000 young Americans died in that war and I guess the men who were drafted to fight there and were fortunate enough to return home unscathed are getting on a bit now, probably in their late sixties and into their seventies.
I wonder what they make of the news that the current US government is seeking to sell weapons to Vietnam, reported in the *I* newspaper of 24-May which contained an item by Foster King in Hanoi with the headline, "Obama cuts 'vestige of Cold War' by lifting embargo on arms sales", which says, "President Obama has lifted a half-century ban on selling arms to Vietnam during his first visit to the communist country.

The US leader announced the full removal of the embargo and signalled he is keen to leave the troubled history between the former war enemies behind and reward what he described as modest progress in the one-party state.
'At this stage, both sides have established a level of trust and cooperation, including between our militaries, that is reflective of common interests and mutual respect,' Mr Obama said, adding that every US arms sale would be reviewed case by case. 'This change will ensure that Vietnam has access to the equipment it needs to defend itself and removes a lingering vestige of the Cold War.'

Mr Obama is seeking to build bridges with Vietnam, which he called a vital country in one of the world's most vital regions, amid Chinese efforts to strengthen claims to disputed territory in the South China Sea, one of the world's most important waterways.

The leading defence publication, *IHS Jane's* said the US was trying to strengthen engagement with Vietnam as part of its 'rebalancing' strategy, which is aimed at enhancing US ties with countries in the Asia – Pacific region. A key element of this, it said, was military sales.

US politicians and activists had urged the President to press the communist leadership for greater freedoms before lifting the arms sale embargo. Vietnam holds around 100 political prisoners and there have been more detentions this year.

America is eager to boost trade with a fast-growing middle class in Vietnam that is expected to sky-rocket in coming years. That would mean knocking down high food and machine tariffs to get more US products into Vietnam."

I had not paid too much attention to the mainstream media in the month of June because the main story being reported on was the E.U. Referendum held in the UK on 23-June. I had supposed that it was a forgone conclusion that the vote was going to be "remain" - but, wrong again. I couldn't believe it when the newsreader on the morning of the 24th told us it was a majority vote for "leave".

I wish I had gone down to the bookies and put a few pounds on "leave" when that outcome seemed very unlikely. Political and economic turmoil now being forecast, lots of shouting between those for and against a rapid exit from the E.U., and rumours that all sorts of dirty tricks are about to be enacted by the operatives of the "Secret State" to make sure we stay in. As is also the case when there is a General Election, lots of "experts" were yelling at us to vote this way or that otherwise the "markets" will react unfavourably which will lead to financial collapse. Which begs the question, why pretend to be a democracy then? If we have to vote in such a so way as not to offend International Finance why not just hand over the government of the country to the boards of directors of the likes of Goldman-Sachs and Rothschild's and be done with it?

Still, if we do leave I guess it will mean that, with predictions that Turkey is soon to be brought into the E.U., the one million-plus Turks which were to be re-located to the UK will no longer be showing up and that the British Army will not now be integrated into the soon to be established E.U. Army and sent to fight in futile wars on the orders of unelected vainglorious bureaucrats in Brussels.

In the aftermath of the referendum it seems that great divisions have opened up between the supporters of the "remain" and "leave" sections of the British population. Some reports say that such bitterness and antagonism have not been seen in this country since the run up to the English Civil War in the 1640's. All of which reminds us of that old Chinese saying, "May you live in interesting times", and inspires this time's:-
Point to ponder:- "Babylon Is Fallen, To Rise No More", title of song popular with Oliver Cromwell's New Model Army.

Thanks Peter

From 'E'

Spy chiefs' Mumsnet mission to recruit Jane Bonds
By Kate McCann, Senior Political Correspondent
27 May 2016 • 12:22am

http://www.telegraph.co.uk/news/2016/05/26/spy-chiefs-mumsnet-mission-to-recruit-jane-bonds/

British intelligence agencies no longer insist new recruits have a university degree and favour "emotional intelligence" instead as part of a plan to recruit more middle-aged Mums, it has emerged.

MI5, MI6 and GCHQ have all used Mumsnet to find new female spies, dubbed Jane Bonds, while some agencies are targeting older women working in social care who may be bored with their careers.

It marks the first time the intelligence agencies have admitted to using female-friendly websites to recruit more women, as it emerged local newspapers are also being targeted by spy agencies to get a better balance of staff from both genders.

A new report on plans to rebalance the intelligence workforce states that the security services are looking for women with "high emotional intelligence, rather than focusing on standard qualifications" and are keen to demonstrate the family-friendly nature of working as a spy.

Flexible working and allowing women with new babies to bring their children to so-called keep in touch days in the office are part of plans to boost the number of female spies.

MI5 has set itself a target of a a 45% female workforce by 2021, the report found, while GCHQ has changed maths recruitment criteria for some posts and has seen applicants by female staff increase by 40% as a result.

A recommendation sent to intelligence bosses in 2015 states: "The Agencies should explore groups other than graduates. Women or mothers in middle-age or midcareer, who may have taken some years out to bring up children, may offer an untapped recruitment pool."

As part of this, both GCHQ and MI5 have now dropped the requirement for a 2:1 degree from their key recruitment schemes, preferring life experience and emotional intelligence instead.
"These kinds of jobs require highly specialist skills but the broader the base from which they recruit, the more likely it is they get the best people so it's important that's widened."Gisela Stuart MP

Middle-aged women working in social or care professions or who do not work at all are being targeted, because they have valuable life experience which could lend itself to working in the secret agencies.

Recruiters are also being given "unconscious bias training" to prevent them from sidelining older women or those who may be considering children, as part of plans to stop women ending up in HR or administration jobs.

Gisela Stuart MP, a member of the Intelligence and Security committee, said the report is welcome.

She told The Telegraph: "These kinds of jobs require highly specialist skills but the broader the base from which they recruit, the more likely it is they get the best people so it's important that's widened.

"Half the population are women so this is a recognition that the intelligence services must respond to the population within which they operate.

"But I would also hope that with that target comes recognition that women need to be fairly represented at all levels of the organisation because in order to have institutional change you need critical mass and determination by management to make it happen.

The report follows speculation that Gillian Anderson, the actress famous for her role as Scully in the X-Files, could be the next 007 in the famous James Bond franchise.

Fans mocked up a picture of the actress posing as the next Bond character amid calls for the films to cast a women in the leading role after Daniel Craig revealed he will not continue in the job.

http://www.telegraph.co.uk/news/2016/05/26/spy-chiefs-mumsnet-mission-to-recruit-jane-bonds/

NATO's Big New Russian Spy Scandal
A Russian mole has been uncovered inside NATO intelligence. What does this mean for Western security?
By John R. Schindler • 05/25/16 8:45am
http://observer.com/2016/05/natos-big-new-russian-spy-scandal/

Frederico Carvalhão Gil, a senior intelligence official was arrested this weekend in Rome.
Last weekend, in the latest development in the secret espionage struggle between Vladimir Putin's Kremlin and the West, a major Russian spy was arrested in Italy. On Saturday, Frederico Carvalhão Gil, a senior intelligence official from Portugal, was picked up by Italian police along with his Russian intelligence handler, whom he was meeting clandestinely in Rome.

Although Portugal is hardly a big player in the global spy game, it has been a member of the Atlantic Alliance since its founding in 1949, and Lisbon's intelligence services are full members of the West's secret spy network. Finding a mole like Mr. Carvalhão in any NATO security service is a serious matter for the whole alliance.

A career intelligence officer, the 57-year-old Mr. Carvalhão, who went into the espionage business in the late 1980s, had risen to the senior ranks of Portugal's domestic spy agency, the Security Intelligence Service—SIS for short. He is a division chief in that service, according to Portuguese press reports, what SIS terms an area director. Mr. Carvalhão's previous assignments have included operational work in counterintelligence and counterterrorism. A philosophy graduate, the suspected traitor is described as highly intelligent—an intellectual. It's evident Mr. Carvalhão had access to a wide array of NATO secrets thanks to his official position.

Portuguese intelligence suspected it had a mole for some time, and a secret hunt for the turncoat commenced in 2014. With help from spy partners, including the CIA, Lisbon developed a list of suspects. Mr. Carvalhão was high on that list, not least because of his open affection for all things Eastern European, which he made plain on his Facebook page.

He also likes Eastern European women. "Zipper problems" as they are known in the spy trade have been the downfall of many turncoats, and reports of a Georgian woman Mr. Carvalhão was romantically involved with offer hints of a possible honey-trap. That deserves investigation, since such operations are textbook for the Russian intelligence services. One reason he wound up on NATO counterintelligence radar was multiple reports of indiscreet liaisons with women from the former Soviet Union.

The SVR is every bit as audacious at stealing our secrets as the KGB ever was.

Greed seems to have also played a role. Mr. Carvalhão was allegedly charging the Kremlin's Foreign Intelligence Service, the SVR, 10,000 Euros ($11,100) for each classified document he was selling them—a princely sum by spy standards. We know that the SVR's main interest in the information it sought from its Portuguese mole were secrets about NATO and the European Union. If the Russians were willing to pay that much per purloined document, it's evident to any veteran counterintelligence hand that the classified information he was giving the SVR was important. The Kremlin won't pay that much for junk.

Mr. Carvalhão had been through a divorce, which may have been a motivation as well—both financially and psychologically. Reeling from a divorce that left him financially strapped, the notorious CIA turncoat Aldrich Ames reached out to the KGB, the SVR's predecessor, in 1985, offering them top secret information in exchange for $50,000. Thus began Mr. Ames' nine years of betrayal that lasted until his 1994 arrest—a huge success for the Kremlin that cost the lives of several Soviets who were spying for the CIA.

Once SIS realized Mr. Carvalhão may have gone rogue, he was moved to a less sensitive position at work, where he had access to fewer secrets and was placed under surveillance. By last autumn, he was being watched and his phones were tapped as his employer looked for evidence of his betrayal. They soon discovered that Mr. Carvalhão made regular trips across Europe, which SIS assessed were actually clandestine meetings with the SVR to pass secrets to the Russians outside Portugal. That was less risky than meeting Russians on his home turf, as the career spy knew from his own service with Portuguese counterintelligence.

This culminated in the top secret operation in Rome last weekend which led to Mr. Carvalhão's arrest. In coordination with Italian partners, SIS watched his movements as he took a flight to Rome last Friday, in preparation for the next day's planned meeting with the Russians. That clandestine rendezvous was spoiled for Mr. Carvalhão when Italian police appeared at the Roman café, downtown on the Tiber, to bring him into custody on espionage charges proffered by Lisbon. He did not resist arrest.

Neither did the Russian he was meeting. In an interesting twist, his SVR handler was not in Rome under official cover, posing as a diplomat or trade representative—the default setting in espionage circles. Rather, his SVR handler was what the Russian term an Illegal, meaning he was operating without any official protection. He therefore was subject to arrest, whereas a Russian spy pretending to work at their embassy could claim diplomatic immunity to avoid police detention.

The identity of the SVR officer in custody has not been released by Italian authorities, but Illegals are an elite cadre in Russian intelligence circles, much less frequently encountered than their counterparts posing as diplomats. They are also much tougher to detect, since they aren't working at any embassy or consulate, and last year's FBI arrest of an SVR Illegal in New York City—where he was spying on Wall Street—was a coup for American counterintelligence.

Rome and Lisbon may have unraveled an important spy ring here. Illegals are used to handle high-value agents, for instance moles inside Western spy services like Mr. Carvalhão for whom meetings with SVR officers under official cover—who are often known to the local security service, which watches their movements closely—would pose a serious risk of exposure.

Just what this Portuguese mole gave the Russians is not yet known. Assessing that, and therefore the damage he caused to Western security, is the major task facing investigators in Lisbon and other NATO capitals right now. The Atlantic Alliances have been penetrated by the SVR many times—the most recent big case was Herman Simm, a senior Estonian security official who was arrested in 2008 after spying for the Kremlin for years, during which he had access to countless NATO secrets.

The disastrous case of Edward Snowden, the National Security agency IT contractor who defected to Moscow nearly three years ago, was an unprecedented blow to American intelligence and the entire Western spy partnership. In response, NATO has belatedly begun to get serious about the threat posed by Russian espionage. There was a major increase in Kremlin spying against the West beginning a decade ago, reaching and in some cases even surpassing Cold War levels of intensity. Last year, NATO forced the Russians to cut back their official delegation to alliance headquarters in Brussels, since so many of them were actually spies, brazenly stealing NATO secrets.

The SVR is every bit as audacious at stealing our secrets as the KGB ever was. The SpyWar between East and West never ended, and under Vladimir Putin—that onetime KGB officer who values espionage highly—it forms a core component of Kremlin foreign and security policy. The case of Frederico Carvalhão demonstrates that Moscow is still stealing our secrets at every opportunity. The West ignores counterintelligence, particularly against an increasingly aggressive Russia, at its peril.

John Schindler is a security expert and former National Security Agency analyst and counterintelligence officer. A specialist in espionage and terrorism, he's also been a Navy officer and a War College professor. He's published four books and is on Twitter at @20committee.
http://observer.com/2016/05/natos-big-new-russian-spy-scandal/

Spectre's News Round

Japan times 11/04/2016

U.S. Navy signals intelligence officer charged with spying, possibly for China, Taiwan

WASHINGTON – A U.S. Navy officer with access to sensitive U.S. intelligence faces espionage charges over accusations he passed state secrets, possibly to China and Taiwan, a U.S. official said on Sunday.

The official, speaking on condition of anonymity, identified the suspect as Lt. Cmdr. Edward Lin, who was born in Taiwan and later became a naturalized U.S. citizen, according a Navy profile article written about him in 2008.

A redacted Navy charge sheet said the suspect was assigned to the headquarters for the Navy's Patrol and Reconnaissance Group, which oversees intelligence collection activities.

The charge sheet redacted out the name of the suspect and the Navy declined to provide details on his identity.

It accused him twice of communicating secret information and three times of attempting to do so to a representative of a foreign government "with intent or reason to believe it would be used to the advantage of a foreign nation."

The document did not identify what foreign country or countries were involved.

The U.S. official said both China and Taiwan were possible but stressed the investigation was still ongoing.

The suspect was also accused of engaging in prostitution and adultery. He has been held in pre-trial confinement for the past eight months or so, the official added.

USNI News, which first reported Lin's identity, said he spoke fluent Mandarin and managed the collection of electronic signals from the EP3-E Aries II signals intelligence aircraft.

The U.S. Navy profiled Lin in a 2008 article that focused on his naturalization to the United States, saying his family left Taiwan when he was 14 and stopping in different countries before coming to America.

"I always dreamt about coming to America, the 'promised land,' " he said. "I grew up believing that all the roads in America lead to Disneyland."

China's Foreign and Defence Ministries did not immediately respond to a request for comment.

Taiwan's Defense Ministry said it had no information on the case. Taiwan's Foreign Ministry declined to comment.

The Guardian 07/05/2016

The day we discovered our parents were Russian spies

For years Donald Heathfield, Tracey Foley and their two children lived the American dream. Then an FBI raid revealed the truth: they were agents of Putin's Russia. Their sons tell their story

Tim Foley turned 20 on 27 June 2010. To celebrate, his parents took him and his younger brother Alex out for lunch at an Indian restaurant not far from their home in Cambridge, Massachusetts. Both brothers were born in Canada, but for the past decade the family had lived in the US. The boys' father, Donald Heathfield, had studied in Paris and at Harvard, and now had a senior role at a consultancy firm based in Boston. Their mother, Tracey Foley, had spent many years focused on raising her children, before taking a job as a real estate agent. To those who knew them, they seemed a very ordinary American family, albeit with Canadian roots and a penchant for foreign travel. Both brothers were fascinated by Asia, a favoured holiday destination, and the parents encouraged their sons to be inquisitive about the world: Alex was only 16, but had just returned from a six-month student exchange in Singapore.

After a buffet lunch, the four returned home and opened a bottle of champagne to toast Tim reaching his third decade. The brothers were tired; they had thrown a small house party the night before to mark Alex's return from Singapore, and Tim planned to go out later. After the champagne, he went upstairs to message his friends about the evening's plans. There came a knock at the door, and Tim's mother called up that his friends must have come early, as a surprise.

At the door, she was met by a different kind of surprise altogether: a team of armed, black-clad men holding a battering ram. They streamed into the house, screaming, "FBI!" Another team entered from the back; men dashed up the stairs, shouting at everyone to put their hands in the air. Upstairs, Tim had heard the knock and the shouting, and his first thought was that the police could be after him for underage drinking: nobody at the party the night before had been 21, and Boston police took alcohol regulations seriously.

When he emerged on to the landing, it became clear the FBI was here for something far more serious. The two brothers watched, stunned, as their parents were put in handcuffs and driven away in separate black cars. Tim and Alex were left behind with a number of agents, who said they needed to begin a 24-hour forensic search of the home; they had prepared a hotel room for the brothers. One of the men told them their parents had been arrested on suspicion of being "unlawful agents of a foreign government".

Alex presumed there had been some mistake – the wrong house, or a mix-up over his father's consultancy work. Donald travelled frequently for his job; perhaps this had been confused with espionage. At worst, perhaps he had been tricked by an international client. Even when the brothers heard on the radio a few days later that 10 Russian spies had been rounded up across the US, in an FBI operation dubbed Ghost Stories, they remained sure there had been a terrible mistake.

But the FBI had not made a mistake, and the truth was so outlandish, it defied comprehension. Not only were their parents indeed Russian spies, they were Russians. The man and woman the boys knew as Mom and Dad really were their parents, but their names were not Donald Heathfield and Tracey Foley. Those were Canadians who had died long ago, as children; their identities had been stolen and adopted by the boys' parents.

Their real names were Andrei Bezrukov and Elena Vavilova. They were both born in the Soviet Union, had undergone training in the KGB and been dispatched abroad as part of a Soviet programme of deep-cover secret agents, known in Russia as the "illegals". After a slow-burning career building up an ordinary North American background, the pair were now active agents for the SVR, the foreign spy agency of modern Russia and a successor to the KGB. They, along with eight other agents, had been betrayed by a Russian spy who had defected to the Americans.

The FBI indictment detailing their misdeeds was a catalogue of espionage cliches: dead drops, brush-pasts, coded messages and plastic bags stuffed with crisp dollar bills. The footage of a plane carrying the 10 touching down at Vienna airport, to be swapped for four Russians who had been held in Russian prisons on charges of spying for the west, brought back memories of the cold war. The media had a field day with the Bond-girl looks of 28-year-old Anna Chapman, one of two Russians arrested not to have pretended to be of western origin; she worked as an international estate agent in Manhattan. Russia didn't know whether to be embarrassed or emboldened: its agents had been busted, but what other country would think of mounting such a complex, slow-drip espionage operation in the first place?

For Alex and Tim, the geopolitics behind the spy swap was the least of their worries. The pair had grown up as ordinary Canadians, and now discovered they were the children of Russian spies. Ahead of them was a long flight to Moscow, and an even longer emotional and psychological journey.

Nearly six years since the FBI raid, I meet Alex in a cafe near the Kiev railway station in Moscow. He is now officially Alexander Vavilov; his brother is Timofei Vavilov, though many of their friends still use their old surname, Foley. Alex is 21, his still-boyish looks offset by a serious manner and businesslike clothes: black V-neck over a crisp white shirt. A gentle North American lilt and the careful aspiration of final consonants give him the unplaceable accent of those who have been schooled internationally – in Paris, Singapore and the US. These days, he speaks enough Russian to order lunch, but is by no means fluent. He is studying in a European city and is here to visit his parents; Tim works in finance in Asia. (In the interests of privacy, both brothers have asked me not to reveal details about their working lives.)

Since 2010, they have made a conscious decision to avoid the media. They have agreed to talk to me now, Alex explains, because they are fighting a legal battle to win back their Canadian citizenship, stripped from them six years ago. They believe it is unfair and illegal that they are expected to answer for the sins of their parents, and have decided to tell their story for the first time.

As we eat khachapuri, a Georgian bread stuffed with gooey cheese, Alex recalls the days after the raid. He and Tim stayed up until the early hours in the hotel room the FBI had provided, trying to understand what was going on. When they went home the next day, they found every piece of electronic equipment, every photograph and document had been taken. The FBI's search and seizure warrant lists 191 items removed from the Foley/Heathfield residence, including computers, mobile phones, photographs and medicines. They even took Tim and Alex's PlayStation.

News crews held a vigil outside; the brothers sat inside with the blinds drawn, their phones and computers confiscated. Early next morning Tim snuck out to get online at the public library and try to find a lawyer for his parents. All the family bank accounts had been frozen, leaving the boys with just the money they had in their pockets and whatever they could borrow from friends.

FBI agents drove them to an initial court hearing in Boston, where their parents were informed of the charges. There was a brief meeting with their mother inside jail. Alex tells me he did not ask her what she and his father were accused of. This seems surprising, I say: surely he must have been dying to ask?

They were promising, young, smart people. They were asked if they wanted to help their country and they said yes
"Here's the thing: I knew that if I was going to testify in court, the less I knew, the better. I didn't want to cloud my opinion with anything. I didn't want to ask questions, because it was obvious people were listening," he says. A boisterous group of women are celebrating a birthday at the next table, and he raises his voice. "I refused to let myself be convinced they were actually guilty of anything, because I realised the case would probably draw on for a long time. They were facing life in prison, and if I was to testify, I would have to completely believe they were innocent."

The family had been planning a month-long summer break in Paris, Moscow and Turkey; their mother told them to escape the media circus and fly to Russia. After a stopover in Paris, Alex and Tim boarded a plane to Moscow, unsure of what to expect on arrival. They had never been to Russia before. "It was a really terrifying moment," Alex recalls. "You're sitting on the plane, you have a few hours to kill and you don't know what's coming. You just sit there and think and think."

As the brothers disembarked, they were met at the plane door by a group of people who introduced themselves in English as colleagues of their parents. They told the brothers to trust them, and led them outside the terminal to a van.

"They showed us photos of our parents in their 20s in uniform, photos of them with medals. That was the moment when I thought, 'OK, this is real.' Until that moment, I'd refused to believe any of it was true," Alex says. He and Tim were taken to an apartment and told to make themselves at home; one of their minders spent the next few days showing them around Moscow; they took them to museums, even the ballet. An uncle and a cousin the brothers had no idea existed paid a visit; a grandmother also dropped by, but she spoke no English and the boys not a word of Russian.

It would be a few days before their parents would arrive, having admitted at a court hearing in New York on 8 July that they were Russian nationals. An exchange was already in the offing, and they arrived in Moscow, via Vienna, on 9 July, still wearing the orange prison jumpsuits they had been given in America. My face must give away some of my amazement: how does a 16-year-old process such an extraordinary turn of events?

Alex smirks at me wryly. "Typical high school identity crisis, right?"

Alex and Tim's father was born Andrei Olegovich Bezrukov, in Krasnoyarsk region, in the heart of Siberia. Since his return to Moscow in 2010, he has given just a handful of interviews to Russian media outlets, mainly concerning the more recent work he has done as a geopolitical analyst. Details of his past, or that of his wife, Elena Vavilova, are scarce.

Alex tells me what he knows about his parents' recruitment, based on the little they have told him: "They got recruited into it together, as a couple. They were promising, young, smart people, they were asked if they wanted to help their country and they said yes. They went through years of training and preparing."

None of the 10 deportees has spoken publicly about their mission in the US, or their training by the SVR or KGB. Department S, which runs the illegals programme they were on, was the most secretive part of the KGB. One former "illegal" tells me his training in the late 1970s included two years in Moscow with daily English lessons, taught by an American woman who had defected. He was also trained in other basics such as communicating in code and surveillance. All the training was done on a one-to-one basis: he never met other agents.

The programme was the only one of its kind in international espionage. (Many assumed it had been stopped, until the 2010 FBI swoop.) Many intelligence agencies use agents operating without diplomatic cover; some have recruited second-generation immigrants already living abroad, but the Russians have been the only ones to train agents to pretend to be foreigners. Canada was a common place for the illegals to go, to build up their "legend" of being an ordinary western citizen before being deployed to target countries, often the US or Britain. During Soviet times, the illegals had two main functions: to aid in communications between embassy KGB officers and their US sources (an illegal would be less likely to be put under surveillance than a diplomat); and to be sleeper cells for a potential "special period" – a war between the US and the Soviet Union. The illegals could then spring into action.

The KGB sent the couple to Canada in the 80s. In June 1990, Vavilova, under the assumed identity of Tracey Foley, gave birth to Tim at the Women's College hospital in Toronto. His first memories are of attending a French-language school in the city and visiting the warehouse of his dad's company, Diapers Direct, a nappy delivery service. It was hardly James Bond, but the work of an agent has always been more tortoise than hare – years spent painstakingly building up the legend.

Andrei Bezrukov already had a degree from a Soviet university, but “Donald Heathfield” had no educational records. Between 1992 and 1995, he studied for a bachelor’s degree in international economics at York University in Toronto. In 1994, Alex was born; a year later the family moved to Paris. We don’t know whether this was on the orders of the SVR, but it seems a safe assumption. Donald studied for an MBA at the École des Ponts and the family lived frugally in a small flat not far from the Eiffel Tower; both brothers shared the only bedroom while the parents slept on the sofa.

As Bezrukov and Vavilova built up their story, the country that had recruited and trained them ceased to exist. The ideology of communism had failed; the fearsome spy agency that had dispatched agents across the globe was discredited and renamed. Under Boris Yeltsin, post-Soviet Russia seemed on the verge of becoming a failed state. But in 1999, as the family planned a move from France to the US, a new man entered the Kremlin who himself had a KGB background. In the subsequent years, he would work to make the KGB’s successors important and respected again.

With the legend of a hardworking, well-educated Canadian perfected over the years, Heathfield got into Harvard University’s Kennedy School of Government towards the end of that year, and was ready to deploy as an agent of the SVR. He would be spying not for the Soviet system that had trained him, but for the new Russia of Vladimir Putin.

I never had anything close to a suspicion. It seemed all my friends' parents led much more exciting lives
Alex
Heathfield and Foley sent their sons to a bilingual French-English school in Boston, so they could maintain their French and stay in touch with European culture. They could not teach their children about Russia; perhaps the emphasis on French was a way of ensuring their children were not “ordinary” Americans without ringing alarm bells. At home, the family spoke a mixture of English and French. (An online video of Bezrukov, appearing in his post-deportation role as a political analyst, shows him speaking smooth North American with the faintest of twangs.) When he completed his postgraduate degree at Harvard, Heathfield got a job working for Global Partners, a business development consultancy.

I speak to Tim on a Sunday afternoon, talking to me on Skype from his kitchen. He has the same facial features and careful parting as his younger brother, but his hair is blond rather than dark. Looking back on his youth, he tells me his father worked hard, making frequent business trips. He encouraged his sons to read and educate themselves about the world, and “was like a best friend to us”. Foley, Tim says, was a “soccer mom”, picking her sons up from school and taking them to sports practice. When the boys were in their teens, she started work as a real estate agent.

In 2008, Tim got a place at George Washington University, in DC, to study international relations. He focused on Asia, taking Mandarin lessons and spending a semester in Beijing. The same year, the family became naturalised Americans, with US passports in addition to their Canadian nationality.

The brothers would never live in Canada again; Alex had been one when they left Toronto and Tim only five – but both felt Canadian. The family returned often to ski, and when the boys went on school trips from Boston to Montreal, they took pride in showing the other students around their “home” country. Alex made a big fuss about his Canadian background, because “at high school you always want to go counterculture”.

Tim describes their childhood as “absolutely normal”: the family was close and spent time together at weekends; his parents had many friends. He has no recollection of them discussing Russia or the Soviet Union; they never ate Russian food, and the closest Tim says he came to a Russian was a polite boy from Kazakhstan at school.

Their parents did not discuss their childhood much, but this was how they had always been and the boys had little reason to question it. “I never had anything close to a suspicion regarding my parents,” Alex says. In fact, he often felt disappointed by how boring and mundane they were: “It seemed all my friends’ parents led much more exciting and successful lives.”

Little did he know. Bezrukov and Vavilova had been put under FBI surveillance soon after they moved to the US, probably because of a mole in the Russian agency. Excerpts from their 2010 indictment suggest the couple lived with a level of intrigue most people would assume exists only within the pages of a spy novel. One paragraph recounts an intercepted communication from Moscow Centre (SVR headquarters), explaining how Vavilova should plan for a trip back to her motherland. She was to fly to Paris and take the train to Vienna, where she would pick up a fake British passport. “Very important: 1. Sign your passport on page 32. Train yourself to be able to reproduce your signature when necessary… In the passport you’ll get a memo with recommendation. Pls, destroy the memo after reading. Be well.”

Their father, meanwhile, was using his work as a consultant to penetrate US political and business circles. It is not clear whether he managed to access classified material, but FBI intercepts reported a number of contacts with former and current American officials.

In the few public remarks Bezrukov has made about his job, he makes it sound more like that of a thinktank analyst than a super-spy. “Intelligence work is not about risky escapades,” he told Expert magazine in 2012. “If you behave like Bond, you’ll last half a day, maybe a day. Even if there was an imaginary safe where all the secrets are kept, by tomorrow half of them will be outdated and useless. The best kind of intelligence is to understand what your opponent will think tomorrow, not find out what he thought yesterday.”

The family home had been bugged for years. The FBI knew the couple's real identities, even if their own children did not
Bezrukov and Vavilova communicated with the SVR using digital steganography: they would post images online that contained messages hidden in the pixels, encoded using an algorithm written for them by the SVR. A message the FBI believes was sent in 2007 to Bezrukov by SVR headquarters was decoded as follows: “Got your note and signal. No info in our files about E.F., BT, DK, RR. Agree with your proposal to use ‘Farmer’ to start building network of students in DC. Your relationship with ‘Parrot’ looks very promising as a valid source of info from US power circles. To start working on him professionally we need all available details on his background, current position, habits, contacts, opportunities, etc.”

Way back in 2001, nearly a decade before her arrest, the FBI had searched a safe-deposit box belonging to Tracey Foley. There they found photographs of her in her 20s, one of which bore the Cyrillic imprint of the Soviet company that had printed it. The family home had been bugged, possibly for many years. The FBI knew the couple’s real identities, even if their own children did not, but the Americans preferred to keep an eye on the Russian spy ring, rather than make a move.

Why the FBI finally acted is unclear. One suggestion is that Alexander Poteyev, the SVR officer believed to have betrayed the group, felt his cover was blown. He reportedly fled Russia in the days before the arrests; in 2011, a Russian court sentenced him to 25 years in prison for treason in absentia. Another possibility is that one of the group was getting close to sensitive information. Whatever the reason, in June 2010 the FBI decided to wrap up Operation Ghost Stories and bust the Russian spy ring.

I speak to Tim and Alex many times, in person, over Skype and email. They are not uncomfortable talking about their experiences, but neither do they enjoy it much. Initially, they want to speak only about their court case in Canada; but gradually they open up, answering all my questions about their extraordinary family life.

I have to admit there are some details that bother me. Did they really never suspect a thing?

In 2012, the Wall Street Journal reported that unnamed US officials claimed an FBI bug placed at the family’s Boston home had picked up the parents revealing their true identities to Tim long before the arrest. Furthermore, the officials said, his parents had told Tim they wanted to groom him as a Russian spy. A second-generation spy would be a much more impressive asset than first-generation illegals, who had built up personas that were solid but not impregnable to background checks. Tim, according to the unnamed officials, agreed he would travel to Moscow for SVR training and even “saluted Mother Russia”.

Tim strenuously denies the story, insisting it was a total fabrication. “Why would a kid who grew up his whole life believing himself to be Canadian, decide to risk life in prison for a country he had never been to nor had any ties to? Furthermore, why would my parents take a similar risk in telling their teenage son their identities?”

The claim that he saluted Mother Russia is “just as ridiculous as it sounds”, Tim says. He would be happy to answer the allegations in court, but it is impossible to argue with anonymous sources. When contacted by the Guardian, the FBI declined to comment on the Wall Street Journal article.

There was another thing that bothered me: was it really just coincidence that the family had planned to travel to Russia that summer, and that the brothers therefore had Russian visas? Yes, Alex says. “It was very much my idea to go to Russia. We had this world map at home and when you looked at the pins on it, you could see we’d been almost everywhere but Russia, so I was very curious and I was pushing for it. It was just going to be one part of our summer trip.”

In hindsight, surely, that summer trip to Paris, Turkey and Moscow must have looked rather different. When the family were reunited in Moscow in July 2010, did the boys ask their parents what the plan had been? Had they intended to reveal everything? Or were they really going to spend a week in Moscow pretending not to understand a word spoken around them?

“I actually think that was the plan,” Alex says. “That we would travel to Russia, and maybe they might go and meet people without us. But I don’t think there was a plan to tell us anything.”

Tim agrees. If their parents had revealed the truth, it would have made Tim and Alex a huge liability; “as professionals”, he says, it’s unlikely they would have taken the risk. They doubt their parents ever planned to tell them about their real identities. “Honestly,” Tim says, “I really don’t think so. It sounds strange, but yeah.”

Both brothers tell me they remember, as young children, seeing their grandparents. Where? On vacation, Alex says, “somewhere in Europe”; he can’t remember where, exactly. Asked if he was sure the people he met were his real grandparents, he says, “I think so.” Were they speaking Russian? “I was really young, I have no idea,” he says firmly.

I raise the question with Tim, who would have been older. He remembers seeing his grandparents every few years until he was around 11, when they disappeared from his life. “Obviously, now when I think back on it, I kind of understand how it worked. If I had seen them when I was older, I would have realised that they don’t speak English – they don’t seem very Canadian.”

At Christmas, the boys would receive gifts marked “from grandparents”. Their parents told them they lived in Alberta, far from Toronto, which was why they never saw them. Occasionally, new photographs would arrive of the grandparents against a snowy backdrop; it helped that the climates of Alberta and Siberia are not so different.

If Tim and Alex’s story sounds eerily familiar to fans of The Americans, the television drama about a KGB couple living in the US with their two children, that’s because it’s partly based on them. The show is set in the 1980s, providing a cold war backdrop, but the 2010 spy round-up served as an inspiration. The show’s creator, Joe Weisberg, trained to be a CIA case officer in the early 1990s and, when I speak to him on the phone, tells me he always wanted to put family at the heart of the plot. “One of the interesting things I saw when I worked at the CIA was people lying to their children. If you have young children, you can’t tell them you work for the CIA. And then, at some point, you have to pick an age and a time, and they find out that they’ve been lied to for most of their lives. It’s a difficult moment.”

When I meet Alex in Moscow, he has just finished watching the first season. (He had started on previous occasions, but found it too difficult; he and Tim joked that they should sue the creators.) His parents like the show, he tells me. “Obviously it’s glamorised, all this killing people and action everywhere. But it reminded them of when they were young agents, and how they felt about being in a strange new place.” Watching it, Alex says, has made him more curious: what set his parents off on this path, and why?

In 2010, the spies were welcomed back to Russia as heroes. After a debriefing at SVR headquarters, Bezrukov, Vavilova and the other deportees met with then-president Dmitry Medvedev to receive medals for their service. Later, they met with Putin, and the group reportedly sang the patriotic Soviet song From Where The Motherland Begins. The authorities put on a tour: the agents and their families travelled to St Petersburg, Lake Baikal in Siberia and Sochi on the Black Sea. The idea was to show off modern Russia, and to provide them with an opportunity to bond.

Do they still meet up, I ask Alex. “From time to time,” he says. He and Tim were the only adolescents; of the four couples arrested, two had younger children, while another had adult sons. Even so, the other families were probably the only people in the world who could even begin to understand their surreal situation.

Bezrukov and Vavilova found themselves back in a very different Russia from the one they had left. The oldest of the agents had been retired from active espionage work for a decade, Alex says, and barely remembered how to speak Russian. The group were told they would no longer work for the SVR, but jobs were found for them in state banks and oil companies. Anna Chapman was given a television series and now has her own fashion line. Bezrukov was given a job at MGIMO, a prestigious Moscow university, and has written a book on the geopolitical challenges facing Russia.

Tim and Alex were given Russian passports at the end of December 2010; suddenly, they became Timofei and Alexander Vavilov. The names were “completely new, foreign and unpronounceable for us”, Tim says. “A real identity crisis,” he adds with a hint of bitterness. Unable to return to university for his final year, he managed to transfer to a Russian university and complete his degree there, before doing an MBA in London.

Alex was less lucky. He finished high school at the British International School in Moscow, but did not want to stay in Russia. He applied to university in Canada, but was told he would first have to apply for a new birth certificate, and then a citizenship certificate; only then could he renew his Canadian passport. In 2012 he was admitted to the University of Toronto, and applied for a four-year student visa on his Russian passport. The visa was issued and he planned to depart for Canada on 2 September. But four days before he was due to leave, as he was packing his bags and exchanging emails with his future roommate, he received a phone call from the Canadian embassy in Moscow demanding he come for an urgent interview. The meeting was hostile; there were a lot of questions about his life and his parents. The visa was annulled before his eyes, and he lost his university place. Alex has since been rejected for French and British visas. Twice, he has been accepted to study at the London School of Economics, but both times did not get a visa. Eventually, he was able to get a visa to study elsewhere in Europe; Tim travels mainly in Asia, where many countries can be visited visa-free on a Russian passport.

I'm glad they had a cause they believed in, but I wish the world wouldn’t punish me for their choices
Alex

The brothers’ battle to regain Canadian citizenship is not just about logistics. Moscow is not a city that embraces newcomers, and neither of them feels particularly Russian. “I feel like I have been stripped of my own identity for something I had nothing to do with,” Alex tells me. Both are keen to work in Asia for the time being, but want to move to Canada when they feel ready to start families. More than anything, their Canadian identity is the last straw they have left to grasp on to, after so much of the rest of their previous reality fell away.

“I lived for 20 years believing that I was Canadian and I still believe I am Canadian, nothing can change that,” Tim wrote in his affidavit to the Toronto court. “I do not have any attachment to Russia, I do not speak the language, I do not know many friends there, I have not lived there for any extended periods of time and I do not want to live there.”

Everyone who is born in Canada is eligible for Canadian citizenship, with one exception: those who are born to employees of foreign governments. But the brothers' Toronto-based lawyer, Hadayt Nazami, argues that it is ridiculous to apply the provision to their case; the whole point of the law, he says, is to prevent those who don't have the responsibilities of citizenship from enjoying its privileges.

Ultimately, the court seems to be operating as much on emotional as on legal grounds, possibly with the Wall Street Journal story about Tim's apparent recruitment at the back of its mind. But even if the brothers knew about their parents' activities (and there is no hard evidence of this), I wondered what the court expected of them. What is a 16-year-old who finds out he is the child of Russian spies supposed to do? Call the FBI?

Tim and Alex have been through many months of questioning themselves and their identities, and of wondering whether they should be angry with their parents. They don't want their childhood to define them as they grow older. Many of their close friends know, but most of their casual acquaintances don't. When asked where they are from, the default response for both is "Canada".

They remain friends with many people from their previous life in Boston, though Tim says some broke off contact, mainly those whose parents were friends with his parents and felt betrayed.

While they have no wish to live in Russia, both brothers visit Moscow every few months to see their parents. I ask them how hard it has been to keep that relationship going. Was there a confrontation? Tim and Alex choose their words carefully; they want to appear rational and pragmatic, rather than emotional, it seems. "Of course, there were some very difficult times," Tim says. "But if I get angry with them, it's not going to lead to any beneficial outcomes." He admits it is sad that, even though he can now spend time with his grandparents, the language barrier means he will never know them properly. "In terms of family and keeping this whole thing together, it really doesn't work out well when you choose this kind of path," he says, his voice trailing off wistfully.

Alex tells me that he sometimes wonders why his parents decided to have children at all. "They live their lives like everyone else, making choices along the way. I am glad they had a cause they believed in so strongly, but their choices mean I feel no connection to the country they risked their lives for. I wish the world wouldn't punish me for their choices and actions. It has been deeply unjust."

A number of times, Alex tells me that it is not his place to judge his parents, but that six years ago he spent a long period wrestling with "the big question" of whether he hated them or felt betrayed. In the end, he came to one conclusion: that they were the same people who had raised him lovingly, whatever secrets they hid.

Channelnewsasia 01/06/2016

Chinese cyber spies hack Taiwan ruling party: Security firm

The party's website came under attack in early April, redirecting visitors to a fake website, California-based FireEye said in a statement, a tactic often used by Chinese hackers.

TAIPEI: Mainland hackers were likely to be behind an attack on the website of Taiwan's ruling party, a US-based security firm said on Thursday (Jun 2), as the island warns of growing cyber threats.

Cross-strait relations have turned increasingly frosty since Taiwan's new president Tsai Ing-wen of the China-sceptic Democratic Progressive Party (DPP) won elections in January and took office last month, with Beijing wary the new government may seek independence.

Taiwan has been self-ruling since the two sides split in 1949 after a civil war - but China still sees it as part of its territory.

The party's website came under attack in early April, redirecting visitors to a fake website, California-based FireEye said in a statement on Thursday. The tactic is one often used by Chinese hackers, it said.

Administrators fixed the problem the next day but the website was compromised again a few days later, suggesting the site is being monitored, according to the statement.

"FireEye believes this operation likely reflects continued efforts by China-based cyber espionage operators to collect intelligence related to the DPP as it moves Taiwan away from pro-mainland China policies," it said.

The government has raised concerns that its websites frequently fall prey to Chinese hackers.

Taiwan's Ministry of Transportation and Communication said in a report to a legislative committee last month that the scale of cyber attacks on Taiwan is "near warfare."

It added the most active hackers are from the mainland and had infiltrated the island's systems including defence, air traffic, and communication.

The defence ministry says it will establish a "cyber army", one of the policies put forward by Tsai during her presidential campaign.

A "Fourth Service" should be formed along with army, navy, and air force to protect "national digital territory," according to the DPP's proposal.

However, the DPP played down the findings of the new FireEye report and said it was not currently seeing "unusual hacking activities".

"The DPP has always put great importance on cyber safety," spokesman Wang Min-sheng told AFP.

Wang added that the party is not in contact with FireEye and that the security firm had been monitoring its website independently.

The Daily Star 08/04/2016

Spies, aliens or secret cult? The mystery broadcasts that'll send shivers down your spine

STARTING with an eerie melody or several beeps, these extremely creepy messages are often followed by an unnerving sounding voice reciting number after number after number.

Like transmissions from a lonely post-apocalyptic world, they are quite possibly the freakiest phenomena you will ever hear ...if you know where to look.

Forget the Internet though, these incredibly spooky sounds can only be heard by tuning into old fashioned shortwave radio.

One theory is that spies embedded in enemy countries listen to the messages as a way of receiving coded instructions from their paranoid spy handlers.

Called "numbers stations", they start with a short burst of music followed by a monotone announcer broadcasting a sequence of numbers – often in a variety of languages.

But who or what are behind them?

No-one admits to them.

And strangely no-one ever seems to reply with their own messages.

Obviously whoever or whatever is behind this doesn't want anyone finding out who they are, or what they are talking about.

But now, in the age of the web, the sinister mystery is now gaining greater attention because it is all happening on low tech shortwave radio.

Like never before, spies are finding new ways of communicating without being foiled by intelligence agencies and it is thought agents are resorting to old school methods that cannot be traced.

Experts told Daily Star Online that although numbers stations are being used by many nations, Russian agents are behind the more recent the broadcasts.

Some are being made from secret locations in Ukraine – part of which Russia invaded last year after coup that brought a pro-EU government to power.

Poland is another spot where the messages are being transmitted from and a country now at the centre of row that some fear could spark a war in Europe.

Russia's strongman leader Vladimir Putin is furious at the US and NATO for locating a new missile defence system which would shoot down all his nukes.

With growing tensions between Moscow and the West a build up of forces is underway and a new arms race is on the horizon.

Spying is now at levels not seen since the Cold War amid fears Russia is attempting to regain an empire it lost after the collapse of the Soviet Union.

But with the advent of encrypted emails and documents, why does the world of espionage use old-fashioned shortwave?

Speaking to Daily Star Online, Maris Goldmanis, from the Numbers Stations Research and Information Centre, said: "Despite other modern means of communications this method is quite effective.

"It can only fail if agent is caught red handed listening and decoding the broadcast – such things have happened to Russian spies."

More recently a very normal looking middle aged Russian couple living in a German suburb – whose undercover surname means "attack"– were jailed after being caught spying for the Kremlin.

During a trial in 2013, it emerged that Heidrun and Andreas Anschlag were caught listening to encoded number station messages on short-wave frequency when armed police stormed into their homes.

But despite this explanation there still many conspiracy theories.

One explanation is that the number stations are transmissions from another world, with or without government collusion, perhaps to alien operatives living among us.
Certainly NASA has reported that planet Saturn is a source of radio activity after signals were monitored by its Cassini spacecraft.

Some even speculate Saturn's rings are acting as a form of relay station, for interstellar transmissions.

Other theories point the finger at secret cults, drug and people smugglers.

But while we can try to find an explanation for the weird numbers stations, for the time we just cannot be sure.

Perhaps that is the way the culprits would like it.

The Independent 31/05/2016

Does this case show the FBI is going too far to defend the US from Chinese spies?

Keith Gartenlaub man claims that, when the authorities couldn't prove a hunch – based on racial profiling – they framed him on a child pornography charge.

Three years ago, Keith Gartenlaub was living a seemingly normal life in southern California. He had a high-paying job as a senior engineer with Boeing, where he had worked for 20 years. His wife ran an art gallery and dabbled in real estate. Once in a while, they were able to visit her elderly parents in Shanghai, and they even bought property there.

Today, that life has been destroyed. The 47-year-old is under house arrest, with an electronic monitoring device on his ankle. He's not allowed to have a computer—or anything else that could give him access to the internet, even a PlayStation 3. He has to submit a drug test three times a month and give his court supervisors two hours' notice to go to the local Starbucks. He and his wife are living on borrowed money.

All this because an FBI agent read a magazine article saying Chinese intelligence might have a spy at Boeing and began poking around. He noted Gartenlaub's wife was born in China and picked up some company grousing about their regular trips there. With a secret warrant from the Foreign Intelligence Surveillance Court, the bureau obtained records of their telephone calls, emails and bank records and broke into their house to copy their computer hard drives. After a 21-month investigation, which included following them around, the FBI could not make an espionage case against Gartenlaub. But it did find something else: child porn on his computer.

The odd thing is that there is no definitive proof Gartenlaub, a computer systems specialist, ever viewed the pictures. Nor is there any evidence he ever traded in pornography, took photos or videos of children or chatted about his collection of photos online—common practices among paedophiles.

But the porno files gave prosecutors a cudgel: "They said if I helped them on Chinese espionage, they could make the pornography thing go away," recalls Gartenlaub, who heatedly denies any interest in child pornography. "I told them I'd like to help but I didn't know anything about Chinese espionage!" Thom Mrozek, spokesman for the US Attorney's office in Los Angeles, declined to comment on Gartenlaub's assertion, which was backed up by three others in his camp.

security clearance and any chance of working in the defence industry again. His nightmarish experience should worry any American, says Karen Greenberg, director of the Centre on National Security at Fordham University's School of Law — especially the 4.5 million US citizens who hold security clearances. "The most upsetting thing" about the case, she says, "is the question: 'Did evidence get planted?'" With so much of the case wrapped in secrecy, she adds, it's "a disturbing possibility."

Jeff Fischback, a noted computer forensics expert who examined Gartenlaub's hard drives for the defence and concluded the porno files hadn't been viewed, agrees. "The important question about this case," he says, "is why go after this guy so hard. Why go after this guy so aggressively? What I suspect … is that this was more about a failed national security investigation."

The Gartenlaub case was just the latest government stumble in some of its most-ballyhooed prosecutions of alleged Chinese spies. In recent months, the Justice Department has been forced to drop charges against a former National Weather Service hydrologist and the head of the physics department at Temple University—in each case because the government misinterpreted their communications with people in China.

But facing "an onslaught," as The New York Times recently put it, of Chinese espionage, it's easy to understand how the FBI would jump at the slightest hint of suspicious behaviour. According to an affidavit in the Gartenlaub case, the government has prosecuted about 45 cases involving outright spying, illegal technology transfers and massive covert infiltration of US government computers, among other things. In the most brazen case on record, the Obama administration accused Beijing in 2015 of hacking into US government files and stealing the personal data on 21 million Americans, including their fingerprints and Social Security numbers. Chinese probes of US industrial, technical and military targets have been constant, intelligence officials say. Someone in China hacked into the home computer of a former top lawyer for the FBI, says one.

To the FBI, it must seem like Chinese spies are everywhere. And in many cases, its targets, right or wrongly, have been Chinese-American. Peter Zeidenberg, a former prosecutor who represented the Temple University physicist and National Weather Service hydrologist, says the government may be giving in to racial profiling in its frantic search for spies. "I think prosecutors are feeling pressure to bring these cases," Zeidenberg recently told the TV news show 60 Minutes. "I think investigators are excited about bringing cases that may be high-profile." Recognising that the federal investigators had a problem, Deputy Attorney General Sally Yates has implemented tighter controls over spying cases involving Chinese-Americans.

But in 2013, it would've been hard to find a higher-profile case than a possible spy inside Boeing, a prime government contractor. After China unveiled its giant Y-20 transport plane, Wired magazine reported that "Beijing may also have acquired some of the C-17's blueprints from a spy working at Boeing". And in the FBI's thinking, Gartenlaub had the access and means to steal those blueprints for China.

As it turned out, Beijing did have a spy trying to steal the C-17's blueprints. In July 2014, Su Bin, a China-based businessman, was arrested in Canada and charged with conspiring with two unnamed Chinese hackers to steal secrets about the C-17, as well as the F-22 and F-35 warplanes made by Lockheed Martin. The FBI, according to court papers reviewed by the Associated Press, took notice of the case and began to look for Su's accomplices. Eventually, it homed in on Gartenlaub.

"They triangulated Keith as the guy at Boeing who would have been Su Bin's inside source," according to Gartenlaub's attorney, Mark Werksman. Gartenlaub calls the FBI's suspicions "ridiculous", adding, "I've been a good Boeing employee for years. Just because I married somebody from China doesn't mean I'm going to betray my country. If they think I'm a spy, then charge me with it."

The lack of an indictment suggests the bureau couldn't make a spy case. But it did have the pornography files, which it was able to view in secret with the Foreign Intelligence Surveillance Act (FISA) court's authorisation for an espionage investigation and then obtain with a criminal warrant.

This manoeuvre, permissible under post-9/11 legislation, disturbs civil liberties advocates. Greenberg, whose latest book, Rogue Justice: The Making of the National Security State, was published in May, reports that "using a FISA warrant in an espionage or terrorism case and then finding another crime" is "not unusual." And it gives the government tremendous power over defendants: because the FISA warrant in Gartenlaub's case remains classified, he cannot examine whether the FBI had probable cause to hunt for the pornography seized from his computer—or whether anyone tampered with those files.

The government's attitude is "trust us," says Werksman. "Trust us that we had a legitimate reason to go there on the FISA warrant, and once we saw the kiddie porn, now you have to take our word for it that [the warrant] was lawful in the first place."

"Everyone in this country should be pissed off about this," Greenberg says. "It can happen to you. It can happen to anyone."

Russia Today 03/06/2016

Snowden leak: GCHQ & America's NSA regularly intercept British MPs emails

American spies and the UK's listening post GCHQ regularly intercept the emails of British MPs and peers, including privileged correspondence between parliamentarians and their constituents.
The US National Security Agency (NSA) reportedly has access to intercepted emails sent and received by all MPs and peers through Parliament's Microsoft computer system, Office 365.

Intelligence agency GCHQ on the other hand, allegedly accesses the data when it leaves UK's borders on its way to Microsoft's data centers in Dublin and the Netherlands.

The revelations have been made public through an investigation by Computer Weekly, based on leaked documents by the now-exiled former NSA contractor Edward Snowden.

GCHQ has harvested details of all parliamentary emails, including sender, recipient and subject matter, for at least three years using its Tempora bulk interception system, according to Computer Weekly.

The magazine reports documents released by Snowden reveal how GCHQ is also able to scan the content of parliamentary emails for keywords through a cyber defense network connected to spam-filtering software.

US spy agency the NSA allegedly uses Microsoft's cloud system, Office 365, to access parliamentary emails and documents.

The Prism system is able to intercept the communications after secret directives were given to Microsoft under controversial surveillance laws, passed by Congress in 2008.
The directives came into force at the same time Microsoft sold its cloud data system to Parliament.

“The House of Commons administration has serious questions to answer,” Tory MP David Davis told Computer Weekly.

“On whose authority was ‘consent’ granted to view members’ emails? How did they manage to obtain that consent from every one of the 650 members whose constituents’ confidentiality is affected?” the former Home Office minister asked.

“The government should also make it clear to parliament the extent to which scanning of all mail by a US-controlled company has made Parliamentary communications vulnerable to agencies of a foreign power, namely the American NSA,” he added.

Labour Party Deputy Leader Tom Watson described the revelations as a “shock.”

He said it is essential for Home Secretary Theresa May to include protections for MPs, lawyers and journalists in the Investigatory Powers (IP) Bill, which is currently going through Parliament in its draft form.

The controversial legislation was recently described as “inherently incompatible” with privacy rights by Parliament’s Human Rights Committee.

“Protection for MP communications from unjustified interference is vital, as it is for confidential communications between lawyers and clients, and for journalists’ sources, the bill must provide tougher safeguards to ensure that the government cannot abuse its powers to undermine Parliament’s ability to hold the government to account,” committee chairwoman Harriet Harman wrote.

The Telegraph 28/06/2016

Moscow's spies accused of breaking into American diplomats' homes, killing a pet and paying for smear stories

John Kerry, the US secretary of state, has complained personally to Russia's President Vladimir Putin over an officially sanctioned campaign of intimidation against US diplomats in Moscow, the US State Department has said.

The complaints follow two years of low-level harassment directed at US diplomats and their families that is believed to include frequent traffic police checks, following diplomatic staff around the city, and even breaking into their homes.

“Over the past two years, harassment and surveillance of our diplomatic personnel in Moscow by security personnel and traffic police have increased significantly,” said Elizabeth Trudeau, a spokeswoman for the US State Department.

"We see an increase and we take it seriously.”

Mr Kerry, the US secretary of state, raised the issue with the Russian president in March, she said.

Ms Trudeau was commenting on a report in the Washington Post that said some diplomats said intruders had broken into their homes at night to rearrange furniture, turn on lights and even defecate on a living room carpet.

Staff at the US embassy confirmed to the Telegraph that low level intimidation had noticeably increased over the past two years.

The Russian foreign ministry rejected the accusations on Tuesday, instead accusing the United States of “constantly inventing new restrictions against Russian diplomats.”

Maria Zakharova, a spokeswoman for the Russian foreign ministry, said publication of the Washington Post story suggested the United States was trying to “undermine bilateral relations.”
Last week, Ms Zakharova said Russia had "recently felt a significant increase in pressure on the Russian embassy and consulates general of our country in the United States."

Russian diplomats "regularly become the objects of provocations by the American secret services, face obstacles in making official contacts and other restrictions," such as travel, she said at the time.

Ms Trudeau denied the accusation on Monday. "Russia's claims of harassment are without foundation," she said.

The spat follows a serious deterioration in relations between Moscow and Washington following Russia's 2014 annexation of Crimea and support for a secessionist uprising that led to war in east Ukraine.

In January, the United States withdrew accreditation of five of six Russian honorary consuls in the US, partially in response to harassment.
“This action was taken in response to continued Russian interference with our diplomatic and consular operations in Russia, including, but not limited to, widespread harassment of our personnel, as well as the forced closure of the American Center in Moscow and 28 American Spaces throughout Russia,” said Will Stevens, an embassy spokesman.

As an example of harassment, Mr Stevens said it is now not unusual for US embassy staff to be flagged down by traffic police “four to five times over two or three hours” when driving in Moscow.

“We are prepared to take further appropriate measures if there are additional efforts to impede our diplomatic and consular activities in Russia,” he added.

Low level harassment of foreign diplomats was common during the Cold War, and there have been several complaints about the return of such tactics in recent years.

Tony Brenton, the British ambassador to Russia between 2004 and 2008, was subjected to a sustained campaign of harassment by pro-Kremlin youth groups as bilateral relations plunged following the 2006 murder of Alexander Litvinenko in London.

Michael McFaul, the US ambassador to Moscow between 2012 and 2014, complained of being constantly doorstepped by pro-Kremlin television crews who were apparently tipped off in advance about his movements.

Thanks, The Spectre 3000

Chart Section Index

July 2016

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
x	x	x	x	x	x	x	0200		V13	0	15388	15388
x	x	x	x	x	x	x	0300		V13	0	15388	15388
		x	x				0315		E11	03	8565 253/00	8565 253/00
x	x	x	x	x			0400		S06	01A	15721 480	15721 480
x	x	x	x	x	x	x	0400		V13	0	15388	15388
			x				0430/0450/0510		E07A	01B	7933/ 9133/10233 741	7933/ 9133/10233 741
x							0430/0450/0510		M12	01B	6857/ 7557 850	5792/ 6992 796, search
x	x	x	x	x	x	x	0440 (var)		HM02	01C	7351	7351
x							0450		E11	03	10800 416/00	10800 416/00
	x			x			0455		S11A	03	5149 321/00	5149 321/00
x	x	x	x	x	x	x	0500		HM01	18	10860 or 11462	10860 or 11462
x	x	x	x	x	x	x	0500		V13	0	11430	11430
					x		0500/0520/0540		M12	01B	9217/10617/12217 262	9167/10267/11567 125
						x	0500/0520/0540		V07	01B		14823/13423/11523 845
			x	x			0500/0600	1/3	E06	01A	13825/15615 679	13540/16115 210
		x					0530/0540		S06S	01A	11565/12560 464	11565/12560 464
		x		x			0545		E11	03	13424 348/00	13424 348/00
x		x		x		x	0600		HM01	18	10345	10345
	x		x		x		0600		HM01	18	14375	14375
x	x	x	x	x	x	x	0600		V13	0	11430	11430
x				x			0600		E11	03	13908 181/00	13908 181/00
	x						0600/0610		S06S	01A	15945/16945 438	15945/16945 438
		x			x		0600/0620/0640		E07	01B	9064/10264/11464 024	9064/10264/11464 024
		x			x		0600/0620/0640		XPAc	01B	11409/13509/14609	10868/12168/13368
						x	0600/0700		M14	01A	7590/ 8162 382	7590/ 8162 382
						x	0630/0640		S06S	01A	16320/14875 524	16320/14875 524
			x				0630/0650/0710		M12	01B	7984/ 9184/ 911, search	7484/ 8084/ 402, search
	x		x				0645		E11	03	13424 517/00	13424 517/00
x		x		x		x	0700		HM01	18	9330	9330
	x		x		x		0700		HM01	18	13435	13435
						x	0700		M01	01B	6780 025	6780 025
	x						0700/0710(15)		S06S	01A	5430/ 6780 374	5430/ 6780 374
x	x	x	x	x	x	x	0700		V13	0	15388	15388
	x			x			0700/0720/0740		XPAt	01B	20173/18673/17473	20049/18549/17449

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
	x			x			0710		E11	03	14753 633/00	14753 633/00
			x		x		0710		E11	03	15905 491/00	15905 491/00
x		x					0715		S11A	03	**20180** 382/00	**20180** 382/00
				x		x	0730		E11	03	17120 352/00	17120 352/00
	x						0730/0740		S06S	01A	7245/12080 7365/11655 427	7245/12080 7365/11655 427
		x					0730/0740		S06S	01A	12110/14977 745	12110/14977 745
x							0745		E11	03	9610 262/00	9610 262/00
	x		x				0745		E11	03	15632 335/00	15632 335/00
x							0800	1/3	G06	01A	7320 329	7320 329
x		x		x		x	0800		HM01	18	9065	9065
	x		x		x		0800		HM01	18	10635	10635
x	x	x	x	x	x	x	0800		V13	0	15388	15388
			x				0800/0810		E17Z	01A	16780/12850/ 674	16780/12850/ 674
	x						0800/0810		S06S	01A	14373/12935 352	14373/12935 352
					x		0800/0820/0840		E07A	01B	12173/13973/14873 198	12177/13477/14877 148
		x				x	0805		E11	03	14975 311/00	14975 311/00
x			x				0820		E11	03	**6807** 438/00	**6807** 438/00
		x					0820/0830		S06S	01A	9485/11085 471, check!	9485/11085 471, check!
x				x			0830		E11	03	12924 649/00	12924 649/00
x							0830/0840		S06S	01A	8221/ 9353 371	8221/ 9353 371
			x	x			0830/0930		S06	01A	842, search	16327/13875 842
x		x					0900		E11	03	13427 534/00	13427 534/00
x		x		x		x	0900		HM01	18	9240	9240
	x		x		x		0900		HM01	18	11462	11462
x							0900/0910		S06S	01A	16380/14835 872	16380/14835 872
			x				0900/0910		S06S	01A	12952/13565 167	12952/13565 167
			x				0900/0910		S06S	01A	6844/ 7161 624	6844/ 7161 624
	x			x			0915		S11A	03	8530 484/00	8530 484/00
		x	x				0930		E11	03	10213 270/00	10213 270/00
			x				0930/0940		S06S	01A	9255/10325 314	9255/10325 314

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
				x			0930/0940		S06S	01A	10290/ 9655 516	10290/ 9655 516
x		x		x		x	1000		HM01	18	5855/ 9155	5855/ 9155
	x		x		x		1000		HM01	18	12180	12180
	x						1000/1010		S06S	01A	6440/ 5660 893	6440/ 5660 893
		x					1000/1010		S06S	01A	14580/16020 729	14580/16020 729
x			x				1015		S11A	03	16530 475/00	16530 475/00
	x			x			1020		S11A	03	11581 426/00	11581 426/00
	x						1045		E11	03	13873 576/00	13873 576/00
	x						1100/1110		S06S	01A	6810/ 7560 754	6810/ 7560 754
x							1100/1120/1140		M12	01B	12205/13559/14728 973	12205/13559/14728 973
		x					1200	?	G06	01A	**7425** **574**	**7425** **574**
x	x	x	x	x	x	x	1200		V13	0	9725	9725
x							1200/1210		S06S	01A	10230/12165 831	10230/12165 831
			x				1200/1210		S06S	01A	13145/14535 425	13145/14535 425
					x		1200/1210/1220		M42C	01C	16329/14641/12187	17482/15967/13396
	x	x					1205		E11	03	10302 469/00	10302 469/00
x				x			1225		E11	03	13537 521/00	13537 521/00
	x	x					1300		E11	03	15803 133/00	15803 133/00
		x					1300	?	G06	01A	6956 574	6956 574
			x				1300		G06	01A	5890 329	5890 329
x	x	x	x	x	x	x	1300		V13	0	9725	9725
			x		x		1310/1330/1350		M12	01B	13926/12126/10926 919	14468/13568/12178 451
	x				**x**		1345		E11	03	**15825** 911/00	**15825** 911/00
	x		**x**				**1450**		**E11**	**03**	**9052** **441/00**	**9052** **441/00**
					x		1500		M01	14	6435 025	6435 025
	x						1500/1510		S06S	01A	6666/ 7744 537, search	6666/ 7744 537, search
			x				1500/1520/1540		M12	01B	13386/12189/11491 725	13386/12189/11491 725
				x			1510/1530/1550		E07A	01B	12213/11413/10113 241	12213/11413/10113 241

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
			x				1530		E11	03	10356 262/00	10356 262/00
x						**x**	1540		E11	03	16335 228/00	16335 228/00
		x			**x**		**1540**		**S11A**	**03**	**11092** **563/00**	**11092** **563/00**
x	x	x	x	x	x	**x**	1600		HM01	18	11435	11435
	x					x	1605		E11	03	**4783** 232/00	**4783** 232/00
		x				x	1625		E11	03	15795 972/00	15795 972/00
x							1700	1/2	G06	01A	**5348** 574	**5348** 574
x	x	x	x	x	x	**x**	1700		HM01	18	11530	11530
		x				x	1700/1720/1740		E07	01B	13898/12198/10798 817	13881/12181/10881 818
			x				1700/1720/1740		M12	01B	12162/11566/10711 546	12162/11566/10711 546
				x			1700/1800	1/3	M14	01A	7485/ 6891 382	7485/ 6891 382
		x			x		1705		E11	03	14865 392/00	14865 392/00
			x				1730		E11	03	8088 416/00	8088 416/00
	x		x				1730/1750/1810		XPAe	01B	10943/10243/ 9243	12187/10787/ 9387
x							1800	1/2	G06	01A	**5849** 574	**5849** 574
x	x	x	x	x	x	**x**	1800		HM01	18	11635	11635
	x		x				1800		M01	14	5280 025	5280 025
x		x					1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
			x				1800/1820/1840		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
x							1810		M01B	14	5125, 5735 364	5125, 5735 364
x							1810/1830/1850		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
					x		1810/1820/1830		M42C	01C	16147/14389/12214	search
	x						1820	2/4	M14	01A	6856 163	6856 163
			x				1830	2/4	G06	01A	6887 842	6887 842
			x				1832		M01B	14	5095, 5760 815	5095, 5760 815
x		x					1900/1920/1940		E07	01B	14812/13412/11512 845	14378/13458/10958 349
x			x				1900/1920/1940		M12	01B	9176/ 7931/ 6904 257	9176/ 7931/ 6904 257
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
	x		x				1900/1920/1940		XPA2p	01B	15884/14984/14384	16314/15814/14514
				x	x		1900/1920/1940		XPA2r	01B		16167/14663/13923

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
				x			1900/2000	1/3	S06	01A		11.../ 9... 761, search
					x		1900/2000	1/3	S06	01A	6875/ 5935 614	6875/ 5935 614
				x			1902		M01B	14	5075, 5465 336	5075, 5465 336
x							1915		M01B	14	5150, 5475 858	5150, 5475 858
		x					1920	2/4	M14	01A	5938 417	5938 417
	x		x				1925		E11	03	11581 551/00	11581 551/00
				x			1930	2/4	G06	01A	5943 218	5943 218
	x						1930/1950/2010		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
		x		x			1955		S11A	03	4870 371/00	4870 371/00
				x			2000		E11	03	8530 576/00	8530 576/00
	x		x				2000		M01	14	4905 025	4905 025
		x					2000/2020/2040		E07A	01A	12166/10766/ 9266 172	12166/10766/ 9266 172
	x					x	2000/2020/2040		XPA2m	01B		14738/13438/12138
				x			2000/2100	1/3	S06	01A	11.../ 9... 761, search	
					x	x	2005		E11	03	9130 363/00	9130 363/00
				x			2010		M01B	14	4895, 5340 467	4895, 5340 467
			x				2010/2030/2050		E07	01B	11539/10547/ 9388 553	10752/ 9147/ 7637 716
			x				2030	1/3	E06	01A	5948 724	5948 724
x		x		x		x	2100		HM01	18	11635	11635
	x		x		x		2100		HM01	18	16180	16180
		x					2100/2120/2140		M12	01B	9379/ 7979/ 6879 398	8123/ 6923/ 5823 198, search
	x					x	2100/2120/2140		XPA2m	01B	14538/13538/12138	
				x	x		2100/2120/2140		XPA2r	01B	15967/13884/12217	
		x			x		2110/2130/2150		M12	01B	14869/13569/12179 851	13369/12179/10469 314
				x			2130	1/3	E06	01A	5731 315	5731 315
x		x		x		x	2200		HM01	18	10715	10715
	x		x		x		2200		HM01	18	17480	17480

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	May kHz, ID, ...	Jun kHz, ID, ...	Jul kHz, ID, ...	Aug kHz, ID, ...	Remarks
		x	x				0315		E11	03	8565 253/00	8565 253/00	8565 253/00	8565 253/00	since 01/14, last log 06/16
x							0450		E11	03	10800 416/00	10800 416/00	10800 416/00	10800 416/00	since 02/10, last log 05/16 2nd transmission Thu 1730z
	x			x			0455		S11A	03	5149 321/00	5149 321/00	5149 321/00	5149 321/00	since 09/14, last log 06/16
		x		x			0545		E11	03	13424 348/00	13424 348/00	13424 348/00	13424 348/00	since 06/11, last log 06/16
x				x			0600		E11	03	13908 181/00	13908 181/00	13908 181/00	13908 181/00	since 07/15, last log 05/16
	x		x				0645		E11	03	13424 517/00	13424 517/00	13424 517/00	13424 517/00	since 07/09, last log 06/16
	x			x			0710		E11	03	14753 633/00	14753 633/00	14753 633/00	14753 633/00	since 02/11, last log 06/16
			x		x		0710		E11	03	15905 491/00	15905 491/00	15905 491/00	15905 491/00	since 07/15, last log 06/16
x		x					0715		S11A	03	**20180** 382/00	**20180** 382/00	**20180** 382/00	**20180** 382/00	since 05/14, last log 06/16
				x		x	0730		E11	03	17120 352/00	17120 352/00	17120 352/00	17120 352/00	since 04/15, last log 06/16
x							0745		E11	03	9610 262/00	9610 262/00	9610 262/00	9610 262/00	since 03/14, last log 05/16 2nd transmission Thu 1530z
	x		x				0745		E11	03	15632 335/00	15632 335/00	15632 335/00	15632 335/00	since 10/11, last log 06/16
		x				x	0805		E11	03	14975 311/00	14975 311/00	14975 311/00	14975 311/00	since 07/14, last log 06/16
x			x				0820		E11	03	**6797** 438/00	**6807** 438/00	**6807** 438/00	**6807** 438/00	since 10/09, last log 06/16
x				x			0830		E11	03	12924 649/00	12924 649/00	12924 649/00	12924 649/00	since 01/10, last log 04/16 **d e l e t e d ?**
x		x					0900		E11	03	13427 534/00	13427 534/00	13427 534/00	13427 534/00	since 10/05, last log 06/16
	x			x			0915		S11A	03	8530 484/00	8530 484/00	8530 484/00	8530 484/00	since 01/10, last log 06/16
		x	x				0930		E11	03	10213 270/00	10213 270/00	10213 270/00	10213 270/00	since 02/14, last log 06/16
x			x				1015		S11A	03	16530 475/00	16530 475/00	16530 475/00	16530 475/00	since 04/10, last log 06/16 yearly changing frequencies + id repeat at 1800Z
	x			x			1020		S11A	03	11581 426/00	11581 426/00	11581 426/00	11581 426/00	since 02/10, last log 06/16 2nd transmission Thu 1730z
	x						1045		E11	03	13873 576/00	13873 576/00	13873 576/00	13873 576/00	since 01/12, last log 06/16 2nd transmission Fri 2000z
	x	x					1205		E11	03	10302 469/00	10302 469/00	10302 469/00	10302 469/00	since 03/10, last log 06/16
x				x			1225		E11	03	13537 521/00	13537 521/00	13537 521/00	13537 521/00	since 05/15, last log 06/16
	x	x					1300		E11	03	15803 133/00	15803 133/00	15803 133/00	15803 133/00	since 08/13, last log 06/16
	x				**x**		1345		E11	03	**15825** 911/00	**15825** 911/00	**15825** 911/00	**15825** 911/00	since 10/15, last log 06/16
	x		**x**				**1450**		**E11**	**03**	**9052** **441/00**	**9052** **441/00**	**9052** **441/00**	**9052** **441/00**	**since 02/16, last log 06/16**
			x				1530		E11	03	10356 262/00	10356 262/00	10356 262/00	10356 262/00	since 06/14, last log 06/16 2nd transmission Mon 0745z
x						**x**	1540		E11	03	16335 228/00	16335 228/00	16335 228/00	16335 228/00	since 03/11, last log 03/16 **d e l e t e d ?**
		x			**x**		**1540**		**S11A**	**03**	**11092** **563/00**	**11092** **563/00**	**11092** **563/00**	**11092** **563/00**	**since 03/16, last log 06/16**
	x					x	1605		E11	03	**4783** 232/00	**4783** 232/00	**4783** 232/00	**4783** 232/00	since 11/15, last log 06/16
		x				x	1625		E11	03	15795 972/00	15795 972/00	15795 972/00	15795 972/00	since 02/15, last log 06/16
		x			x		1705		E11	03	14865 392/00	14865 392/00	14865 392/00	14865 392/00	since 02/14, last log 06/16
			x				1730		E11	03	8088 416/00	8088 416/00	8088 416/00	8088 416/00	since 03/10, last log 06/16 2nd transmission Mon 0450z
	x		x				1925		E11	03	11581 551/00	11581 551/00	11581 551/00	11581 551/00	since 07/15, last log 06/16
		x		x			1955		S11A	03	4870 371/00	4870 371/00	4870 371/00	4870 371/00	since 02/14, last log 06/16
				x			2000		E11	03	8530 576/00	8530 576/00	8530 576/00	8530 576/00	since 03/12, last log 06/16 2nd transmission Tue 1045z
					x	x	2005		E11	03	9130 363/00	9130 363/00	9130 363/00	9130 363/00	since 03/14, last log 06/16 2nd transmission Thu 1530z

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...	Jul kHz, ID, ...	Aug kHz, ID, ...	Remarks
x							0800	1/3	G06	01A	7320 329	7320 329	7320 329	7320 329	since 07/10, last log 06/16 repeat at Thu 1300Z
		x					1200	?	G06	01A	**7425** **574**	**7425** **574**	**7425** **574**	**7425** **574**	since 10/14, last log 06/16 yearly changing frequencies + id repeat at 1300Z
		x					1300	?	G06	01A	**6956** 574	**6956** 574	6956 574	6956 574	since 10/14, last log 06/16 yearly changing frequencies + id repeat from 1200Z
			x				1300		G06	01A	5890 329	5890 329	5890 329	5890 329	since 09/11, last log 05/16 repeat from Mon 0800Z
x							1700	1/2	G06	01A	**5348** 574	**5348** 574	**5348** 574	**5348** 574	since 04/10, last log 06/16 yearly changing frequencies + id repeat at 1800Z
x							1800	1/2	G06	01A	**5849** 574	**5849** 574	**5849** 574	**5849** 574	since 05/09, last log 06/16 yearly changing frequencies + id repeat from 1700Z
			x				1830	2/4	G06	01A	6887 842	6887 842	6887 842	6887 842	since 05/01, last log 06/16 repeat at Fri 1930Z
				x			1930	2/4	G06	01A	5943 218	5943 218	5943 218	5943 218	since 04/01, last log 06/16 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

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

Zulu > / Month v	0600/0700 Sched c Wednesday/Saturday USB 10baud			1730/1900 Sched e Tuesday / Thursday USB 10baud			XPA2 Sched m Various Sun/Tue H 00 H+20 H+40 1300,1500,1800,2000,2100			XPA2 Sched r Various Fri/Sat H 00 H+20 H+40 1400, 1900, 2100			XPA2 Sched t Tuesday/Friday H 00 H+20 H+40 0700		
Jan	9108	10908	12208	7891	6791	5391	16138	14438	13438	16167	14663	13923	13472	14772	16272
Feb	11409	13509	14609	8123	7523	6823	16338	14538	13538	18667	17419	16212	14558	15958	17458
Mar	11409	13509	14609	9362	8062	7462	16138	14438	13438	18667	17419	16212	13431	14631	15931
Apr	10359	11559	13559	10943	10243	9243	14538	13538	12138	17462	16114	14828	16347	17447	18747
May	10868	12168	13368	10438	9938	9138	14538	13538	12138	17462	16114	14828	19667	18767	17467
June	11409	13509	14609	10438	9938	9138	14738	13438	12138	16167	14663	13923	19514	18214	16314
July	11409	13509	14609	10943	10243	9243	14538	13538	12138	15967	13884	12217	20173	18673	17473
Aug	10868	12168	13368	12187	10787	9387	14738	13438	12138	16167	14663	13923	20049	18549	17449
Sept	10359	11559	13559	11576	10476	9276	14538	13538	12138	16167	14663	13923	17429	18629	20129
Oct	10868	12168	13368	9362	8062	7462	16338	14538	13538	17462	16114	14828	16284	18184	19584
Nov	11409	13509	14609	8123	7523	6823	18238	16238	14438	17462	16114	14828	14517	16017	17417
Dec	7756	9056	10656	8164	7364	5864	14538	13538	12138	15967	13884	12217	13393	14493	16293

Notes: Freqs shown in *italics* indicate unsure freqs, or en bloc transmissions that are believed to have closed.

XPA c 0600/0700z schedule appears to be robust with reasonably strong signals into UK
XPA e 1730/1900z schedule E appears robust; sometimes difficult to receive in Great Britain, monitor in Slovenia has good success.
XPA2 m Repetitive frequency triplets, appears robust, generally strong into UK
XPA2 r Schedule appears robust; generally very strong signals to UK
XPA2 t Replaces E07, remains weak in UK. Intercept via online SDR. Tertiary freq sometimes difficult to hear.

XPA2 p Six day variable schedule, separate document

Updated 19/04/2016

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
Strong into UK

05/09/2015

SPECIAL MATTERS

Thanks to all our contributors:
Ary, Edd, BR, DanAr, DoK, E, HH, HJH, JkC, Jochen, Malc, MaleAnon, MNSDB, PoSW, PLdn, RNGB, Schorshi, T!, tING,

Apologies to anyone missed.

Operation Jallaa: Nil Return

MESSAGES:

'E' Many thanks for your offering. See also beneath the Editorial.

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