

ENIGMA 2000 NEWSLETTER



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Art in a London Underground Station [Subway/Metro]
[Gloucester Road Stn: Circle, District and Piccadily Lines]

Features RAF Menwith Hill, better known as the NSA station F83
Or according to NZ Press, codenamed 'Moonpenny'

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Editorial

The numbers scene continues with many transmissions from Eastern Europe. The transmissions are, in the main, much as we have heard for many years. The sad loss when the wall fell were the glut of STASI stations that were sometimes chilling, sometimes entertaining and just once in a while entertaining.

The 'recent' changes include the changes to the Polytones where XPH was accompanied by XP, then XPA and its variants.

The polytone schedules, now proven, have been added to this month's issue.

V02 became V02a [surprisingly still heard] and eventually accompanied by SK01 which mutated into an Hybrid, HM01 consisting of V02a voice and RDFT data. M08a is still reported, not as prevalent.

The latest station to be heard is HM02; Morse and Data it is thought to be attached to the Family 1 stations.

Control List; a new one is much required and work started sometime back to produce an 'Active Stations List'. The data is gathered but time has to be found to put this together. Illness and other matters have slowed the writing of this down but it is still being chipped at - please be patient.

For some of us this time of year is particularly manic; with this in mind there will be no Digital, Incursions and Unexplained Signals this time, Ian being otherwise busy. Hopefully the column will return next time.

We start with Brian's excellent Morse columns:

Morse Station Roundup

Morse - Number Stations

- RDL Karsten (HRT) sends up some interesting logs from RDL, Smolensk, Russia received in the VLF band.
- M01 Poor signal strength has been a problem in receiving some of the M01 transmissions, particularly the 1800z weekday scheds. On several occasions no useable logs were possible.
- Many of the training techniques used by M01 become familiar to those monitoring the station. Use of a 4-fig group sent both times & the transposing of two numbers (22853 22583 - Tue 05 May) have become regular features in recent months.
- A very late start of 0715z was noted on Sun 24 May, with a hurried call-up before the message was sent.
- We also have a good set of M01b logs again - Many thanks to those additional logs sent in by monitors who do not usually monitor this station.
- M03 Activity from M03 continues to be steady on all the remaining schedules.
- M08a AnonUS gives us his usual quality round-up & analysis of the output from the Cuban numbers & all with the usual anomalies & errors from M08a
- M12 As usual, many of the regular 'core' transmissions from M12 were missing during the first week of May as Russia celebrated the May Day holiday. Most of those that did appear were null messages. Token (T!) reports that the Asiatic schedules were unaffected.
- Thanks to Edd Smith who has supplied a good number of the M12 logs & helped to fill the column while Jim (JkC) is taking a well earned break
- M14 Another good set of logs thanks to our Morse monitors. Thanks to all contributors. Peter (PoSW) logged a 1700z/1730z schedule in May, continuing from April. However, this has not appeared all in June & appears to have ceased.
- M23 No reports again from this elusive station. Very little activity reported this year so far.
- M24 Just a couple of reports this time, both relating to an early morning schedule on 753kHz
- M97 Heard on just two days at the beginning of May - still using the SD84 message. No further transmissions heard for the remainder of May or for June.

Morse Stations - Not Number related

- M51 Several M51 transmissions found on various frequencies using the standard format of 5-fig groups with headers in the first half of May.
- From 21 - 26 May a change in format was noted consisting of continuous groups without breaks or headers - Full details in the newsletter.
- The daily Morse lessons from M51a continue as usual daily at 1130z with 5 fig grps & plain text.
- M89 The usual comprehensive logs from Jean-Paul of this station. As usual, some small changes to frequency use & pairings. Some of the chatter logged would indicate some exercise activity taking place.

Beacons & Oddities

Ary reports on some new frequencies, around 7500kHz, being used by the Russians for cluster beacons, & we have some logs of beacons heard over the last two months.

The marker on 5292kHz has changed from sending a 'D' or 'B' in Morse & has been heard sending an intermittent tone similar to 'The Buzzer'.

This issue also features our occasional brief round-up of beacon & oddities logs.

Morse Stations

All frequencies listed in kHz. Freqs are generally +- 1k

This is a representative sample of the logs received, giving an indication of station behaviour and the range of times/freqs heard. These need to be read in conjunction with any other articles/charts/comments appended to this issue.

Morse - Number Stations

From The Basement...

Karsten (HRT) tells us he has no shortwave antennas at the moment due to reconstruction work. But he did manage to catch these transmissions from RDL, Smolensk, Russia on VLF using an active antenna. Great job Karsten, it just shows there is some interesting listening to be found - even this low.

RDL	18.1kHz	1449 - 1450z	28 May	RDL with CW messages (FSK CW with 75Hz shift)	Strong		HRT	THU
RDL	RDL	RDL						
		15724 76916 15724 76916 15724 76916						
		K						
RDL	18.1kHz	1406 - 1412z	31 May	RDL (x3) 11111 67883 67725.....47540 31059 K	Strong		HRT	SUN
RDL	18.1kHz	1551 - 1553z	31 May	RDL (x3) 22222 45769 42442.....69846 31022 K	Strong		HRT	SUN

RDL	18.1kHz	1406z	31 May15
RDL RDL RDL			
11111 67883 67725 81723 81723 43712 75525 93535 19082 12061			
19611 53172 49885 83641 46101 73341 23460 74384 53677 41427			
73677 42573 91958 99748 40948 95279 25602 45113 79583 91150			
80920 20534 99720 53204 52555 38062 84245 32512 49112 62857			
77319 02458 41485 32912 53714 11186 35661 05897 56197 71318			
29915 90513 61142 78168 87642 79167 78978 57477 47540 31059			
K			
Courtesy HRT			

RDL	18.1kHz	1551z	31 May
RDL RDL RDL			
22222 45769 42442 56436 56436 11646 48321 43378 05842 78458			
16750 22186 43703 50142 43595 72035 86439 93000 38208 61317			
33603 69846 31022			
K			
Courtesy HRT			

Karsten writes; *Group 01 looks interesting and groups 03 & 04 are equal. Maybe message key?* We have also spotted that the last group in both msgs start 310 followed by the group count.

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

Use of a 4-fig grp sent both times & the transposing of two numbers (22853 22583 - Tue 05 May) are both becoming regular features of these transmissions.

Examples of the 4-fig grp are 5803, sent on 1800z transmission on Tue 05 May & 8796, sent at 2000z on Thu 07 May. Transposition of two numbers was also present on the 2000z transmission on 05 May, with 22853 22583 & at 2000z on Thu 07 May with 64163 61463.

Scheds are usually quite punctual, but can vary by a few minutes. However, a very late start was noted on Sun 24 May with a hurried call-up sent at 0715z, which was followed by a fast, but flawed sending of the message, before signing off at 0720z.

May 2015:

4905	2000z	05 May	'025' 745 30 ==	17503...	...LG 98292 ==	Strong, fast.	BR/HFD	TUE
	2000z	07 May	'025' 326 30 ==	18158...	...LG 30821 ==	Good, Slow. Numerous errors noted	BR	THU
	2000z	12 May	'025' 545 30 ==	27528...	...LG 39497 ==	Strong, med-fast. Starting DK sent 545 054	BR	TUE
	2000z	14 May	' 203 ' 203 30 ==	12123...	...LG 09130 ==	Strong, fast. DK used as call. No GC given	BR	THU
	2000z	19 May	'025' 296 30 ==	17627...	...LG 60704 ==	Strong, med-fast. No starting DK GC ==	BR/CB	TUE
	2000z	21 May	'025' 255 30 ==	42081...	...LG 12223 ==	Strong, slow. No noted errors	BR/CB	THU
	2000z	26 May	'025' 727 30 ==	90389...	...LG 75834 ==	Strong, fast. Excellent CW. Grp30 sent once	BR	TUE
	2002z	28 May	'025' 518 30 ==	53560...	...LG 17719 ==	Strong, med-fast. Numerous errors noted	BR/CB	THU
5280	1800z	05 May	'025' 398 30 ==	74746...	...LG 36104 ==	Fair, med-fast. Several errors noted	BR	TUE
	1800z	07 May	'025' 517 30 ==	.....	...LG 04179 ==	Weak, slow. Heavy QSB. Poor copy	BR	THU
	1800z	12 May	'025' 060 30 ==	99663...	...LG 20398 ==	Good/Fair, med-fast. No noted errors	BR/Kopf	TUE
	1800z	14 May	'025' 817 30 ==	27528...	...LG 39497 ==	Fair, fast. Excellent CW. No errors	BR	THU

	1800z	19 May	'025' 301 30 ==	76987...	...LG 50658 ==	Fair, med-fast.	BR	TUE
	1800z	21 May	'025' 384 30 ==	06214...	...LG 77724 ==	Weak, med-fast. Poor copy, possible errors	BR	THU
	1800z	26 May	'025' 058 30 ==	68007...	...LG 96531 ==	Good, fast. One error & ending DK sent once	BR	TUE
	1800z	28 May	'025' 129 30 ==	07269...	...LG 28537 ==	Weak, med-fast. Numerous errors noted	BR/JkC	THU
6435	1500z	02 May	'025' 333 30 ==	52854...	...LG 74972 ==	Fair. Ends 1509z	HFD/JkC	SAT
	1500z	09 May	'025' 258 30 / /	22954...	...LG 25676 / /	Fair, Med-fast. No errors // in place of ==	BR	SAT
	1500z	16 May	'025' 712 30 ==	77066...	...LG 33085 ==	Ends 1507z. Repeat errors noted grps 11/12	E.SMITH	SAT
	1500z	23 May	'025' 713 30 ==	34919...	...LG 65113 ==	Fair, fast. Grp24 sent x 4 & error in last grp	BR	SAT
	1500z	30 May	'025' 138 30 ==	41590...	...LG 44554 ==	Ends 1510z	E.SMITH	SAT
6780	0700z	03 May	'025' 081 30 ==	12579...	...LG 10029 ==	Good, fast. Excellent CW. Grp22 sent once	BR	SUN
	0700z	10 May	'025' 176 30 ==	28397...	...LG 51205 ==	Strong, Fast. No errors	BR	SUN
	0700z	17 May	'025' 903 30 ==	05508...	...LG 25267 ==	Weak, med-fast. // sent at start of msg	BR	SUN
	0715z	24 May	'025' 426 30 ==	12644...	...LG 43724 ==	Weak, fast. Late start, many errors	BR	SUN
	0700z	31 May	'025' 918 30 ==	96209...	...LG 29255 ==	Good, med-fast. Two errors grps 13 & 26	BR/CB/HFD	SUN

June 2015:

4905	2000z	02 Jun	'025' 335 30 ==	69466...	...LG 22141 ==	Strong, med-fast. Several errors noted.	BR	TUE
	2000z	04 Jun	'025' 681 30 ==	. . . . .	...LG 12780 ==	Strong. Only monitored last grps	BR	THU
	2000z	09 Jun	'025' 712 30 ==	42107...	...LG 03162 ==	Strong, slow. High noise. Errors noted	BR/CB	TUE
	2000z	11 Jun	'025' 607 30 ==	46597...	...LG 83160 ==	Strong, slow. Error in grp03	BR/CB	THU
	2000z	16 Jun	'025' 403 30 ==	34428...	...LG 53743 ==	Good/Strong, Numerous errors - 29 grps sent	BR/CB/E.SMITH	TUE
	2000z	18 Jun	'025' 255 30 ==	94831...	...LG 05023 ==	Fair, fast. Irregular sending with errors	BR/CB	THU
	2000z	23 Jun	'025' 175 30 ==	04268...	...LG 16574 ==	Good, fast. Excellent CW. No errors	BR	TUE
	2000z	25 Jun	'025' 750 30 ==	67934...	...LG 35366 ? / /	Strong, v.fast. One error & odd ending	BR	THU
	2000z	30 Jun	'025' 156 30 ==	52851....	...LG 74972 ==	Strong. 0925 sent several times in call-up	BR	TUE
5280	1800z	02 Jun	'025' 256 30 ==	77063...	...LG 17935 ==	Weak, med-fast. Error in grp06	BR	TUE
	1800z	04 Jun	'025' 447 30 ==	. . . . .	...LG	Very weak. No useful copy	BR	THU
	1800z	09 Jun	'025' 615 30 ==	31440...	...LG 84719 ==	Weak, slow. No errors. Via Twente	BR	TUE
	1800z	11 Jun	'025' . . . 30 ==	1.4.60..	...LG	V.weak. Very poor copy Via Twente	BR	THU
	1800z	18 Jun	'025' 177 30 ==	.4842...	...LG	V.weak. Very poor copy Via Twente	BR	THU
	1800z	23 Jun	'025' 906 30 ==	06113...	...LG 45187 ==	Fair, fast. Excellent CW. No errors	BR	TUE
	1800z	25 Jun	'025'	Very weak - No useful copy			BR	THU
	1800z	30 Jun	'025' 289 30 ==	. . . . .	...LG 34045 ==	V.weak. Poor copy - improved towards end	BR	TUE
6435	1500z	06 Jun	'025' 428 30 ==	69 .30...	...LG 61452 ==	Weak, med-fast. Poor copy with errors	BR	SAT
	1500z	13 Jun	'025' 291 30 ==	01504...	...LG 82062 ==	Weak, med-fast. One error noted.	BR/CB	SAT
	1500z	20 Jun	'025' 513 30 ==	95677...	...LG 96455 ==	Weak, V.fast. Error in grp16 Via Twente	BR	SAT
	1500z	27 Jun	'025'	Extremely weak - Barely audible			BR	SAT
6780	0700z	07 Jun	'025' 325 30 ==	14329...	...LG 27064 ==	Weak, med-fast. Poor copy with errors	BR/CB	SUN
	0705z	14 Jun	'025' 423 30 ==	52771...	...LG 53320 ==	Weak. Slow until grp06, then V fast.	BR/CB	SUN
	0700z	21 Jun	'025' 386 30 ==	55943...	...LG 14926 ==	Weak, slow. Several errors noted	BR	SUN
	0700z	28 Jun	'025'	Extremely weak - Barely audible			BR	SUN

M01 6435kHz 1500z 30 May15

025 (R4m) 138 138 30 30 ==

41590 61655 88270 36411 22160 87022 39005 68165 55516 13847
18638 27718 37115 85388 59901 20390 57882 73138 45975 93458
39891 90604 37177 59993 70564 08749 98771 19257 50042 44554
= =

138 138 30 30 000

Courtesy E.SMITH

M01 5280kHz 1800z 23 Jun15

025 (R4m) 906 906 30 30 ==

06113 73467 99376 26074 13211 23194 97259 78830 08482 66619
62397 35680 90360 59906 92248 86827 61063 52600 94439 09691
86183 82219 53101 86357 83420 30814 94418 18377 24161 45187
= =

906 906 30 30 000

Courtesy BR

M01a (formerly end of month TXs, now random)

No reports

M01b

May 2015:

4895//5340	2010 - 2030z	01 May	'467' 159 38 = 65727 36522	12569 73149 000	MCW	DanE2K/HFD/JkC	FRI
	2010 - 2030z	22 May	'336' 159 38 = 65727 36522	12569 73149 000	MCW	E.SMITH	FRI
5065//5805	1942z	07 May	'936' 159 38 = 65727			HFD	THU
5075//5465	1902 - 1922	01 May	'336' 159 38 = 65727 ...	73149 = 159 38 000	Fair//Fair	HFD/JkC	FRI
	1902 - 1920z	22 May	'336' 159 38 = 65727 36522	12569 73149 000	MCW	E.SMITH	FRI
5095//5760	1832z	07 May	'815' 159 38 = 65727			HFD	THU
	1832 - 1852z	28 May	'815' 159 38 = 65727 ...	73149 = 159 38 000	Fair//Fair	JkC	THU
5125//5735	1810 - 1830z	04 May	'364' 159 38 = 65727 ...	73149 = 159 38 000	Strong//Strong	HFD/JkC	MON
5150//5475	1915 - 1935z	04 May	'858' 159 38 = 65727 ...	73149 = 159 38 000	Strong//Strong	HFD/JkC	MON

June 2015:

4895//5340	2010 - 2026z	05 Jun	'467' 373 31 = 57818 ... 31189 000	MCW	E.SMITH/tiNG	FRI
	2010z	19 Jun	'467' (Only to confirm)		tiNG	FRI

M01b 5075//5465kHz 1902z 22 May15 336 (R4m) 159 159 38 38 = = 65727 36522 31847 59259 25310 91866 23421 01069 26086 46894 86025 86423 96574 40460 34002 00467 62773 69028 53738 03382 69828 49124 62754 03121 40131 27335 33387 21836 86724 25957 14752 95200 28549 13387 32196 62002 12569 73149 = = 159 159 38 38 000 <i>Courtesy E.SMITH</i>	M01b 4895//5340kHz 2010z 05 Jun15 467 (R4m) 373 373 31 31 = = 57818 39860 79304 09305 89602 71709 47563 58384 00633 56304 90462 24239 83072 49855 50545 28022 43875 89393 81763 83201 89077 42923 11982 13562 83877 84106 11706 31843 12464 02753 31189 = = 373 373 31 31 000 <i>Courtesy E.SMITH</i>
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M01c

No reports

M03 III ICW, some CW**May 2015:**

7727	1320 - 1323z	04 May	543/00 = = 000	Strong	HFD/JkC	MON
	1320 - 1323z	06 May	543/00 = = 000	Strong	JkC	WED
	1320 - 1323z	18 May	543/00 = = 000	Fair	AB/BR	MON
	1320 - 1323z	20 May	543/00 = = 000		AB	WED
	1320 - 1323z	25 May	543/00 = = 000	Strong	JkC	MON
7837	1320z	03 May	437/00 = = 000		HFD	SUN
	1320z	21 May	435/38 = = 94181 36974 45579 ... 56558 50536 69013 = = 000		AB	THU
	1320 - 1339z	24 May	435/38 = = 94181 36974.... 69013 = = 000		BR	SUN
	1320 - 1323z	28 May	437/00 = = 000		E.SMITH/JkC	THU
15632	1420 - 1438z	01 May	874/37 = = 79702 ... 87693 = 000	Strong	HFD/JkC	FRI
	1420 - 1438z	03 May	874/37 = = 79702 ... 87693 = 000	Weak	JkC	SUN
	1420 - 1423z	08 May	879/00 = = 000	Fair	JkC	FRI
	1420 - 1423z	15 May	879/00 = = 000	Weak	BR	FRI
	1420 - 1423z	17 May	879/00 = = 000	Fair	BR	SUN
	1420 - 1423z	22 May	879/00 = = 000	Fair	E.SMITH	FRI
	1420 - 1423z	24 May	879/00 = = 000	Fair	BR	SUN
	1420 - 1422z	29 May	879/00 = = 000		E.SMITH	FRI

June 2015:

7727	1320 - 1323z	03 Jun	543/00 = = 000		E.SMITH	WED
	1320 - 1323z	08 Jun	543/00 = = 000	Fair	Spectre	MON
	1320 - 1323z	15 Jun	543/00 = = 000	Weak	BR	MON
	1320 - 1323z	17 Jun	543/00 = = 000	Strong	Schorschi	WED
7837	1320 - 1323z	04 Jun	437/00 = = 000		E.SMITH	THU
	1320 - 1323z	11 Jun	437/00 = = 000		E.SMITH	THU
	1320 - 1323z	18 Jun	437/00 = = 000		E.SMITH	THU
	1320 - 1336z	28 Jun	437/30 = = 06917 28938 .. 55942 = = 000		BR	SUN
15632	1420 - 1423z	05 Jun	879/00 = = 000		E.SMITH	FRI
	1420 - 1423z	28 Jun	879/00 = = 000	Good	BR	SUN

M03 15632kHz 1420z 03 May15 874/37 (R3m) = = 79702 41588 42885 89493 36605 17643 61122 77221 51362 01461 90656 15148 89563 27637 32399 95722 32931 79012 96830 46739 96521 26074 20261 12288 32023 84856 40332 54136 08307 91332 40196 45971 12384 45643 12037 41310 87693 = = 874/37 (single group repeat) = 000 <i>Courtesy JkC</i>	M03 7837kHz 1320z 24 May15 435/38 (R3m) = = 94181 36974 45579 21958 73302 55493 77417 70448 88549 64516 40895 92829 78648 95886 89101 99166 68676 55095 60039 93345 93015 31575 09256 79782 24386 60945 79541 44963 48310 42830 75563 69370 59651 41786 03120 56558 50536 69013 = = 435/38 (single group repeat) = 000 <i>Courtesy BR</i>	M03 7837kHz 1320z 28 Jun15 437/30 (R3m) = = 06917 28938 48880 03085 18693 57960 36395 80887 03191 84463 85004 08173 66857 12271 51226 68192 56314 84911 59110 21111 64620 76335 10518 11730 21842 99519 86513 05286 80913 55942 = = 437/30 (single group repeat) = 000 <i>Courtesy BR</i>
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M08a XVIII ICW / CW, some MCW

M08a continued on its regular times and frequencies during May & June. Mentioned under the HM01 report is the fact that HM01 appeared quite regularly mixing in with the 2300z Morse schedule. Notably the HM01 call-ups remained the same for multiple days. The early starts continued with the call-ups starting approximately 2 minutes before the hour. As of the end of June the Cubans still have not reset their clocks.

The weekend call-ups remain the same as they have for previous months.

Of note:

On 25 May in the 2000z slot all three call-ups ended with a 1.

On 27 May at 2000z **12345 67890** was sent repeatedly.

On 10 Jun at 1400z two of the call-ups started with the same digit. From what we know about the sequencing of numbers this is very unusual.

May 2015:

7554	2000z	04 May	Up at 2002 already in progress	AnonUS	MON
	2000z	05 May	[81301 04632 17052]	AnonUS	TUE
	2000z	07 May	Came up in progress at 2002z		
	2000z	12 May	[08871 12302 35632]	AnonUS	TUE
	2000z	14 May	[38712 42231 55562]	AnonUS	THU
	2000z	17 May	[18262 22501 35022]	AnonUS	SUN
	2000z	19 May	[00242 13562 25201]	AnonUS	TUE
	2000z	20 May	[55152 66882 70221]	AnonUS	WED
	2000z	21 May	[46122 50442 63771]	AnonUS	THU
	2000z	25 May	[78841 80571 05501]	AnonUS	MON
	2000z	26 May	[67612 71141 84461]	AnonUS	TUE
	2000z	27 May	[12345 67890]	AnonUS	WED
8009	2000z	29 May	[Up late in progress]	AnonUS	FRI
	2300z	06 May	Brief carrier only	AnonUS	WED
	2258z	11 May	[86601 00032 13451]	AnonUS	MON
	2300z	12 May	[51712 64141 77462]	AnonUS	TUE
	2300z	13 May	[22181 - - - - -] Up early as usual, HM01 mixing in with this schedule	AnonUS	WED
	2300z	14 May	[01872 - - - - -] Up late at the end of the 5th repeat of the first call-up	AnonUS	THU
			HM01 mixing here again using call-ups from 12 May 05749 11091 08623 84021 03647 62426.		
	2300z	16 May	[12345 67890] Repeated continually	AnonUS	SAT
8096	1400z	01 May	[27062 42212 54621]	AnonUS	FRI
	1400z	04 May	[38882 42211 54542]	AnonUS	MON
	1400z	05 May	[34742 47171 61402]	AnonUS	TUE
	1400z	06 May	[12001 25322 48751]	AnonUS	WED
	1400z	07 May	[07001 11332 24752]	AnonUS	THU
	1400z	08 May	[20371 41021 45031]	AnonUS	FRI
	1400z	11 May	[70472 82811 05232]	AnonUS	MON
	1400z	12 May	[73701 86222 08551]	AnonUS	TUE
	1400z	13 May	[56012 68331 82662]	AnonUS	WED
	1400z	17 May	[18262 22501 35022]	AnonUS	SUN
	1400z	19 May	[85702 08121 12551]	AnonUS	TUE
	1400z	20 May	[64851 77282 01511]	AnonUS	WED
	1400z	22 May	[22021 34751 48771]	AnonUS	FRI
	1400z	25 May	[83522 06051 10371]	AnonUS	MON
	1400z	26 May	[58382 62612 75141]	AnonUS	TUE
	1400z	27 May	[80462 03781 16122]	AnonUS	WED
	1400z	28 May	[53742 66161 80401]	AnonUS	THU
	1400z	29 May	[51032 64451 86782]	AnonUS	FRI
8134	2300z	01 May	[08451 12771 24112]	AnonUS	FRI
	2300z	05 May	[85862 08282 11521]	AnonUS	TUE
	2300z	19 May	[45361 58682 62022]	AnonUS	TUE
	2300z	20 May	Up late in progress, expected on 8009 kHz	AnonUS	WED
	2300z	22 May	Up late in progress	AnonUS	FRI
	2300z	28 May	[74142 87461 04142]	AnonUS	THU
	2300z	29 May	HM01 [Expected M08a in this slot]	AnonUS	FRI
	2300z	31 May	HM01 [Expected M08a in this slot]	AnonUS	SUN

June 2015:

7554	2000z	01 Jun	[30401 43732 56252]	AnonUS	MON
	2000z	02 Jun	[43531 65381 77612]	AnonUS	TUE
	2000z	08 Jun	[75732 08151 10881]	AnonUS	MON
	2000z	09 Jun	Up late in progress	AnonUS	TUE
	2000z	15 Jun	[80752 13181 25421]	AnonUS	MON
	2000z	16 Jun	[52881 65212 78641]	AnonUS	TUE
	2000z	18 Jun	[74632 87051 11482]	AnonUS	THU
	2000z	21 Jun	Up late in progress	AnonUS	SUN
	2000z	22 Jun	Noisy carrier only	AnonUS	MON
	2000z	23 Jun	Came up late in progress, very weak	AnonUS	TUE
	2000z	25 Jun	[38111 42432 65761]	AnonUS	THU
8009	2300z	01 Jun	HM01 [30582 37163 32555 09502 25259 57588] Expected M08a in this slot	AnonUS	MON
	2300z	03 Jun	Note HM01 using yesterday's call-ups [56411 60842 73261] HM01 simultaneous with 30582 37163 32555 09502 25259 57588. Note same call-ups as last 3 days.	AnonUS	WED

	2300z	10 Jun	[83182 06511 20842] HM01 simultaneous with 30582 37163 32555 09502 25259 57588. Note same call-ups as last week. Suspect they left the HM01 recording running on this computer.	AnonUS	WED
	2300z	13 Jun	HM01 [30582 37163 32555 09502 25259 57588] Expected M08a in this slot Same call-ups still being transmitted.	AnonUS	SAT
	2300z	15 Jun	HM01 [64012 77341 80662] HM01 audible still with 30582 37163 32555 09502 25259 57588	AnonUS	MON
	2300z	22 Jun	Noisy carrier only	AnonUS	MON
	2300z	23 Jun	[51002 62732 75151]	AnonUS	TUE
	2300z	27 Jun	[18262 22501 35022] Usual weekend call-ups	AnonUS	SAT
	2300z	29 Jun	[38531 41062 54382]	AnonUS	MON
8096	1400z	01 Jun	[51801 64221 77552]	AnonUS	MON
	1400z	02 Jun	[44221 57552 60071]	AnonUS	TUE
	1400z	03 Jun	[20181 33422 46742]	AnonUS	WED
	1400z	04 Jun	[26482 30811 43242]	AnonUS	THU
	1400z	05 Jun	[15681 38112 41441]	AnonUS	FRI
	1400z	08 Jun	[11242 24571 37801]	AnonUS	MON
	1400z	09 Jun	[12752 23582 46821]	AnonUS	TUE
	1400z	10 Jun	[58451 72782 77711] Second and third call-ups start with the same digit, very unusual	AnonUS	WED
	1400z	11 Jun	[40671 53011 76332]	AnonUS	THU
	1400z	12 Jun	[76471 80711 03142]	AnonUS	FRI
	1400z	15 Jun	[17772 31201 43532]	AnonUS	MON
	1400z	16 Jun	[44252 57572 61811]	AnonUS	TUE
	1400z	17 Jun	[04502 17821 21352]	AnonUS	WED
	1400z	18 Jun	[74302 87631 01151]	AnonUS	THU
	1400z	22 Jun	[54261 77602 81021] Came up during 5th repeat of the first call-up but recording confirmed on run through the call-ups at 1357z.	AnonUS	MON
	1400z	23 Jun	[- - - - -] Transmitter check at 1345z then came up late in progress at 1406z, weak	AnonUS	TUE
	1400z	26 Jun	HM01 [14741 27162 31401]	AnonUS	FRI
	1400z	27 Jun	HM01 Up late in progress	AnonUS	SAT
	1400z	28 Jun	[18262 22501 35022] Usual weekend call-ups	AnonUS	SAT
	1400z	29 Jun	[81482 04721 17142]	AnonUS	MON
	1400z	30 Jun	[23082 35321 48641]	AnonUS	TUE
8134	2300z	02 Jun	[82052 05481 18712] HM01 simultaneous with 30582 37163 32555 09502 25259 57588. Note same call-ups as previous days.	AnonUS	TUE
	2300z	04 Jun	HM01 [30582 37163 32555 09502 25259 57588] Expected M08a in this slot Same call-ups as previous days.	AnonUS	THU
	2300z	09 Jun	Present but too weak to copy	AnonUS	TUE
8135	2300z	11 Jun	[54361 68382 72711] HM01 in background with same call-ups as previous days	AnonUS	THU
	2300z	12 Jun	HM01 [30582 37163 32555 09502 25259 57588] Expected M08a in this slot Same call-ups still being transmitted.	AnonUS	FRI
	2300z	14 Jun	HM01 [30582 37163 32555 09502 25259 57588] Expected M08a in this slot Same call-ups still being transmitted	AnonUS	SUN
	2300z	16 Jun	HM01 [81302 12032 27152] HM01 audible still with 30582 37163 32555 09502 25259 57588	AnonUS	TUE
	2300z	18 Jun	HM01 [80082 02421 15742]	AnonUS	THU
	2300z	19 Jun	HM01 [43851 66382 70612]	AnonUS	FRI
	2300z	21 Jun	[18262 22501 35022] Usual weekend call-ups	AnonUS	SUN
	2300z	25 Jun	HM01 [44461 57782 61221]	AnonUS	THU
	2300z	26 Jun	HM01 [24341 37662 41001]	AnonUS	FRI
	2300z	30 Jun	[70132 83461 05882]	AnonUS	TUE

Call-up Number Sequence Analysis

As with previous observations the M08a call-ups follow a pattern between the three numbers. (See Issue 81 - Mar 2014 for full details)
A few anomalies here but clearly the sequence of digits between call-ups is not random.

*Unusual sequence and all call-ups end in 1.

27062 42212 54621 21 42 24 41	78841 80571 05501 11 15 69 32 *	76471 80711 03142 11 33 33 33
08451 12771 24112 11 32 33 23	58382 62612 75141 11 33 34 23	17772 31201 43532 21 32 43 23
38882 42211 54542 11 32 33 23	67612 71141 84461 11 33 43 32	80752 13181 25421 21 32 33 33
34742 47171 61402 12 33 33 32	80462 03781 16122 11 33 33 23	64012 77341 80662 11 32 33 32
81301 04632 17052 11 33 33 32	53742 66161 80401 12 33 33 23	44252 57572 61811 11 33 33 23
85862 08282 11521 11 32 33 23	35632 48051 62481 12 33 34 23 V02a	52881 65212 78641 11 33 34 23
12001 25322 48751 12 33 34 23	74142 87461 04142 11 36 36 27	81302 12032 27152 21 15 61 32
07001 11332 24752 11 33 34 32	51032 64451 86782 12 32 43 23	04502 17821 21352 11 33 34 23
20371 41021 45031 20 14 60 41	51801 64221 77552 11 33 33 23	74302 87631 01151 11 33 34 32
70472 82811 05232 11 23 43 32	30401 43732 56252 11 33 34 32	74632 87051 11482 12 33 34 23
86601 00032 13451 11 33 34 32	43531 65381 77612 21 22 73 52	80082 02421 15742 11 23 43 32
73701 86222 08551 11 32 43 23	82052 05481 18712 11 33 43 32	43851 66382 70612 21 33 43 32
08871 12302 35632 12 33 43 23	20181 33422 46742 11 33 33 32	51002 62732 75151 11 13 73 32
51712 64141 77462 11 33 33 32	56411 60842 73261 11 33 43 32	38111 42432 65761 12 33 33 23
56012 68331 82662 12 23 33 24	26482 30811 43242 11 33 43 23	44461 57782 61221 11 33 34 23
38712 42231 55562 11 33 23 24	15681 38112 41441 21 32 43 23	14741 27162 31401 11 33 33 23
85702 08121 12551 11 33 34 23	11242 24571 37801 11 33 33 32	24341 37662 41001 11 33 33 23
00242 13562 25201 11 32 36 23	75732 08151 10881 21 31 37 23	81482 04721 17142 11 33 33 32
45361 58682 62022 11 33 33 23	12752 23582 46821 12 13 73 33	38531 41062 54382 11 23 43 32
64851 77282 01511 12 33 33 32	58451 72782 77711 20 35 30 32 **.	23082 35321 48641 11 23 33 32
55152 66882 70221 11 13 83 33	83182 06511 20842 12 33 43 23	70132 83461 05882 11 32 34 32
46122 50442 63771 11 33 33 23	40671 53011 76332 12 33 33 32	
22021 34751 48771 11 24 70 32	25852 38271 42512 11 33 33 23 V02a	
83522 06051 10371 11 33 43 32	54361 68382 72711 11 43 04 22	

Courtesy AnonUS

**Two call-ups start with the same digit and 3rd digit the same

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

To be read in conjunction with Brian's monthly logs available in the charts section. New ID's may be only for the month/sched shown, but not necessarily unknown, all are clearly identified on Brian's charts. The reason for their reuse, some after long periods of time, is unknown.

As usual, many of the regular 'core' transmissions from M12 were missing during the first week of May as Russia celebrated the May Day holiday. Most of those that did appear were null messages. Token (T!) reports that the Asiatic schedules were unaffected.

All schedules returned to normal from Tue 12 May.

May 2015:

6857/7557/---	0430/0450/0510z	04 May	850 000		HFD	MON
7984/9184/---	0630/0650/0710z	21 May	911 000		E.SMITH/HFD	THU
8047/6802/5788	1800/20/40z	04 May	[NRH]		JkC	MON
	1900/20/40z	06 May	[NRH]		JkC	WED
	1900/20/40z	20 May	463 1		HFD	WED
9167/10267/----	0500/20/40z	23 May	125 000		E.SMITH	SAT
	0500/20/40z	30 May	125 1 (3306 81) 40782 31589 93979 77804 000 000		E.SMITH	SAT
9176/7931/6904	1800/20/40z	06 May	[NRH]		JkC	WED
	1800/20/40z	20 May	257 1		HFD	WED
9241/7541/6841	2100/20/40z	06 May	258 1 (6594 175) 31259 99684 ... 00062 000 Strong/Strong/Strong		HFD/JkC	WED
	2100/20/40z	20 May	258 000		HFD	WED
10343/9264/8116	1930/1950/2010z	12 May	124 1		HFD	TUE
	1800/20/40z	21 May	124 1		HFD	THU
	1900/20/40z	21 May	124 1		HFD	THU
10343	1800 - 1810z	28 May	124 1 (7547 149) 95390 06668 ....55749 17773 000 Strong		JkC	THU
11435/10598/9327	1700/20/40z	04 May	[NRH]		JkC	MON
	1930/1950/2010z	06 May	[NRH]		JkC	WED
	1700/20/40z	18 May	938 1 (8314 101) 96521 34917 .....91462 85544 000 000		AB/HFD	MON
	1930/1950/2010z	20 May	938 1		HFD	WED
13386/12189/11491	1700/20/40z	14 May	725 1		HFD	THU
	1500/20/40z	28 May	725 1 (4056 130) 00168 39295 .....69764 89654 000 000 <i>12189kHz 1520z Transmitted a Zero instead of a One in the First Group</i>		E.SMITH/JkC	THU
	1700/20/40z	28 May	725 1 (2048 106) 56885 25945 65323 000 Strong/Strong/Strong		JkC	THU
13926/12126/10926	1310/30/50z	02 May	919 000		E.SMITH	SAT
	1310/30/50z	16 May	919 000		E.SMITH	SAT
13926	1310z	23 May	919 000 Strong		E.SMITH	SAT
	1310/30/50z	28 May	919 1 (3265 133) 35734 13765 07083 22425 000 000		E.SMITH/HFD/JkC	THU
	1310/30/50z	30 May	919 1 (3265 133) 35734 13765 07083 22425 000 000		E.SMITH	SAT
14869/13569/12169	2110/30/50z	02 May	851 1		HFD	SAT
		30 May	851 1 (9524 119) 42421 39168 74262 31660 000 000		E.SMITH	SAT

June 2015:

6857/7557/---	0430/0450/0510z	15 Jun	850 000		E.SMITH	MON
	0430/0450/0510z	22 Jun	850 000		E.SMITH	MON
	0430/0450/0510z	29 Jun	850 000		E.SMITH	MON
7984/9184/---	0630/0650/0710z	04 Jun	911 000		E.SMITH	THU
	0630/0650/0710z	11 Jun	911 000		E.SMITH	THU
	0630/0650/0710z	18 Jun	911 000		E.SMITH	THU
	0630/0650/0710z	25 Jun	911 000		E.SMITH	THU
8047/6802/5788	1900/20/40z	03 Jun	463 1 (5815 131) 17701 95644 29665 31092 000 000		E.SMITH	WED
	1800/20/40z	15 Jun	463 1		HFD	MON
9176/7931/6804	1800/20/40z	03 Jun	257 1 (9745 142) 60292 12410 09898 19588 000 000		E.SMITH	WED
	1900/20/40z	15 Jun	257 1		HFD	MON
9282/10982/12182	0500/20/40z	13 Jun	291 000		E.SMITH	SAT
	0500/20/40z	20 Jun	291 1 (2981 199) 99967 59648 53295 15378 000 000		E.SMITH	SAT
	0500/20/40z	27 Jun	291 1 (9989 97) 59028 91484 68976 40135 000 000		E.SMITH	SAT
9986/9086/----	2100/20/40z	03 Jun	903 000		HFD	WED
10343/9264/8116	1900/20/40z	04 Jun	124 1		HFD	THU
	1930/1950/2010z	16 Jun	124 1 (6598 65) 49715 11770 14418 26630 000 000		E.SMITH	TUE
	1800/20/40z	25 Jun	124 1 (7439 152) 48740 28146 31035 37486 000 000		E.SMITH	THU
	1900/20/40z	25 Jun	124 1 (2158 118) 04750 21137 90417 07389 000 000		E.SMITH	THU

11435/10598/9327	1700/20/40z	01 Jun	938 1			HFD	MON
	1930/1950/2010z	03 Jun	938 1 (2679 56)	72135 28179	35954 49641 000 000	E.SMITH	WED
	1930/1950/2010z	17 Jun	938 1 (5654 67)	98663 04400	77049 32872 000 000	E.SMITH	WED
12205/13559/14728	1100/20/40z	15 Jun	973 1 (4934 126)	31766 99423	01481 80666 000 000	E.SMITH	MON
	1100/20/40z	22 Jun	973 1 (9514 112)	02074 92649	81138 24398 000 000	E.SMITH	MON
	1100/20/40z	29 Jun	973 1 (8771 142)	24128 29906	72514 13491 000 000	E.SMITH	MON
13386/12189/11491	1500/20/40z	04 Jun	725 1 (1231 120)	38480 79695	01930 13341 000 000	E.SMITH	THU
	1500/20/40z	11 Jun	725 1 (7488 137)	99651 02347	79248 92248 000 000	E.SMITH	THU
	1500/20/40z	18 Jun	725 1 (9943 117)	17830 23469	53351 46072 000 000	E.SMITH	THU
13873/13373/---	1310/30/50z	04 Jun	834 000			HFD	THU
	1310/30/50z	11 Jun	834 000			E.SMITH	THU
	1310/30/50z	18 Jun	834 1 (2268 181)	23497 98805	39142 09287 000 000	E.SMITH	THU
	1310/30/50z	20 Jun	834 000			E.SMITH	SAT
	1310/30/50z	27 Jun	834 1 (3844 201)	08796 35757	36149 88453 000 000	E.SMITH	SAT
16269/14669/13369	2110/30/50z	03 Jun	263 1			HFD	WED
		13 Jun	263 1 (557 131)	83436 43212	55746 73737 000 000	E.SMITH	SAT

M14 IA MCW / ICW / MCWCC, short 0

PoSW followed up on a schedule noted in April on Wednesdays with call "636", 1700 UTC, 10755 kHz, repeated 1730 UTC on 9073 kHz & notes that this schedule continued in May on the same frequencies:-

10755/9073	1700/1730z	06 May	636 (941 83)		PoSW	WED
	1700/1730z	13 May	636 (750 82)		PoSW	WED
	1700/1730z	20 May	636 (429 88)		PoSW	WED
	1700/1730z	27 May	636 (157 80)		PoSW	WED

...and this was the end of it, not found in June. Jim (JkC) also logged this schedule on 06 May at 1700z (see logs section, below).

Another M14 was noted by PoSW on the first day of June:-

10423	1907z (IP) - 1915z	01 Jun	(217 50) In progress	ending == 217 217 50 50 00000	PoSW	MON
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PoSW reports that this frequency was noted with M14 CW in the early summer of last year - but an hour earlier at 1800 UTC. The call then was '058' and the repeat was half an hour later on 8167kHz, and this was the case on 01 Jun :-

8167	1930z	01 Jun	'058' (217 50)	Strong signal, well over S9.	PoSW	MON
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Not found on Mondays 8 & 15 Jun. Great report PoSW, thanks!. Interestingly, Jim (JkC) had also logged this sched on 28 May on 10423kHz at 1900z (see logs section below).

May 2015:

5240	2300 - 2308z	03 May	376 (524 020) 93295 ... 23051 00000	Strong (Repeat of Mar 2015 msg)	JkC	SUN
5825	0000 - 0008z	04 May	376 (524 020) 93295 ... 23051 00000	Strong	JkC	MON
5938	1920z	27 May	417 (129 20) = 23105		HFD	WED
6856	1820z	12 May	163 (516 020) = #3378		HFD	TUE
6891	1800 - 1892z	01 May	382 00000	Strong	HFD/JkC	FRI
7485	1700 - 1702z	01 May	382 00000	Strong	HFD/JkC	FRI
8167	1943(IP) - 1945z	25 May	(237 50) (In progress) ... LG 06734 = 237 50 00000	Strong	JkC	MON
10423	1900 - 1915z	28 May	058 (761 50) = 64610 48206 ... 25207 18763 = 761 50 00000	Strong	JkC	THU
10755	1700 - 1717z	06 May	636 (941 83) = 84255 31825 ... 83762 85137 = 00000	Strong 20wpm	JkC	MON

June 2015:

6856	1819z	24 Jun	163 (972 020) 43765 19832 28881 93711		RNGB	WED
6891	1800 - 1803z	05 Jun	382 00000	MCW	E.SMITH	FRI
7485	1700 - 1703z	05 Jun	382 00000	MCW	E.SMITH	FRI
8167	(IP)	05 Jun	(361 50) (In progress) 37865 06366 == 361 361 50 50 00000		tiNG	FRI

M14 6856kHz 1819z 24 Jun 15

163 (R4m) 972 972 020 020 ==

43765 19832 72308 59265 71534 67442 02617 59292 81721 62043
 91633 40237 51189 52966 21205 48810 52981 48206 28881 93711
 ==

972 972 020 020 00000

*Courtesy RNGB***M14a** (two message variant)

Jean-Paul (JPL) caught this now rare variant in progress on Wed 03 Jun - Good catch JPL!

8116	0603z	03 Jun	(IP - Strong signal) (Remote tuner Siberia)	JPL	WED
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....41227 69188 69188 40133 30376 83207 00711 06150 BT BT (IP – Short zero – QSZ – 0603z)
 468 468 23 23

910(x22) (0605z)

275 275 36 36 BT BT

19903 82666 09848 74715 79535 09364 28885 12018 48382 24275
 51013 32680 62658 54589 18499 54657 20195 05019 06927 91005
 36931 83498 72458 79922 65848 39880 64029 39508 39508 22295
 23935 64409 22045 80885 25221 14587 BT BT
 275 275 36 36 00000 (0614z – Silent)

M23 O ICW

No reports

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

7353	0530 - 0545z	20 May	801 (279 83)	52192 79877 ... 22597 98898 == 00000	Fair	BR/E.SMITH	WED
	0530 - 0544z	27 May	801 (354 81)	71113 67124 ... 59346 17707 00000		E.SMITH	WED

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

Due to the poor reception of this signal in both the UK, 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 poor now.

10375	1454 - 1515z	06 May	SD84 SN58	Weak Sig into S.E. England	BR	WED
10375	1454 - 1515z	07 May	SD84 SN58	NRH S.E. England. Monitored via Twente SDR	BR	THU

Morse Stations - Not Number Related**M51** XIX

A change of format was noted on Thu 21 May, when an M51 transmission was logged on 6853kHz. Instead of the usual 5-ltr groups, with message headers, the transmission used continuous groups consisting mainly of 5-ltr groups, but with occasional groups made up of either five numbers, or punctuation characters.

This type of format is usually used for M51a transmissions which uses a rigid schedule of four lessons per transmission, but with a descriptive header for each of the lessons. The transmission was monitored for some time. during which there were no headers or ID sent - just continuous groups.

The use of this format was also in use from 22 - 26 May for transmissions logged on 3881//6825kHz, & again on 08, 09 & 15 June. The transmission heard on Thu 28 May- also on 3881//6826kHz - had reverted to the previous system, using headers.

4483.7	0400z (IP)	05 May	NR 30 M 05 06:10:58 2015 BT etc. (5 ltr grps)	BR	TUE
8032	1510z (IP) - 2330z+	05 May	NR 34 M 05 17:18:19 2015 BT etc. (5 ltr grps) (Still going 0500z 06 May)	BR	TUE
3881//6825	0550z (IP)	18 May	NR 05 M 18 07:55:04 2015 BT etc. (5 ltr grps)	BR	MON
8106	2015z (IP) - 2350z+	20 May	NR 44 M 20 22:20:27 2015 BT etc. (5 ltr grps)	BR	WED
6853	2037z (IP) - 2355z +	21 May	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-punctuation chars	BR	THU
3881//6825	2020z (IP)	22 May	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-punctuation chars	BR	FRI
3881//6825	1815z (IP) - 2355z +	25 May	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-punctuation chars	BR	MON
3881//6825	1025z (IP) - 1129z	26 May	Continuous grps - Stopped for the M51a Morse lessons at 1130z	BR	TUE
3881//6826	1330z (IP)	28 May	NR 39 M 28 15:30:22 2015 BT etc. (5 ltr grps)	BR	THU

7529	1505z (IP) - 2330z+ 03 Jun	NR 87 J 03 17:07:54 2015 BT etc. (5 ltr grps)	BR	WED
3881//6825	1510z (IP) - 2200z + 08 Jun	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-punctuation chars	BR	MON
3881//6825	1505z (IP) - 2230z + 09 Jun	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-punctuation chars	BR	TUE
3881//6825	1903z (IP) - 2330z + 15 Jun	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-punctuation chars	BR	MON

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

On Tue 26 May a change of format was noted. Following the call-up, FAV22 gave a date & time just prior to the lessons. (e.g. Mardi 26 Mai 2015 11:29).

Where previously the word lecon was used - this was replaced with the French leçon, using the cedilla (Dah Dit Dah Dit Dit), & the word 'numéro' was added before the lesson number. (e.g. Mardi-leçon numéro 22-2/1 vitesse 600 Codé BT).

On Wed 27 May, the format returned to that previously used. As this lesson was from a different set to those transmitted for the remainder of the week, it is assumed that this series uses the changed format.

3881//6825											
1130 - 1207z	26 May	Mardi-Leçon	22-2/1 Codé	22-2/2 Clair	22-2/3 Codé	22-2/4 Clair (600 grps/hr)	BR	TUE			
1130 - 1205z	27 May	Mercredi-Lecon	13-2/1 Codé	13-2/2 Clair	13-2/3 Codé	13-2/4 Clair (720 grps/hr)	BR	WED			
1130 - 1155z	28 May	Jeudi-Lecon	14-2/1 Codé	14-2/2 Clair	14-2/3 Codé	14-2/4 Clair (840 grps/hr)	BR	THU			
1130 - 1203z	29 May	Vendredi-Lecon	15-2/1 Codé	15-2/2 Clair	15-2/3 Codé	15-2/4 Clair (960 grps/hr)	BR	FRI			
1130 - 1210z	01 Jun	Lundi-Lecon	21-1/1 Codé	21-1/2 Clair	21-1/3 Codé	21-1/4 Clair (420 grps/hr)	BR	MON			

M89 O

This is a summary of activity from the M89 stations. To be read in conjunction with JPL's logs which can now be found in the charts section.

Operator Chat from M89

Op. chat & traffic reported on the following freqs. (See JPL's full logs for details).

3521	4170	5132	6414	9167
3721	4269	5180	6666	9175
3786	4320	5378		
3788	4358	5396		
	4363	5417	7631	10816
	4367	5452	7777	
	4371	5500	7788	
	4371	5555		
	4394	5578		
	4444	5580	8000	14560
	4522	5589	8023	
	4638	5631	8061	
	4673	5635	8746	
	4696	5640	8840	
	4711	5641		
	4731	5685		
	4757	5801		
	4866			

ew Scheds for May/June 2015:

From logs submitted from JPL

<u>4857//5765</u>	New freq for this Round Slip	First heard 02 May	V TY9D (x3) DE EPX2 (x2) V
<u>5177//10145</u>	New freq pairing	First heard 03 Jun	V JKDJ (x3) DE SLBC (x2)
<u>4131//10145</u>	New freq pairing	First heard 13 Jun	V JKDJ (x3) DE SLBC (x2)
<u>3777//4532//6793//8060</u>	On all four freqs	First heard 06 Jun	V M8JF (x3) DE RIS9 (x2)
<u>3777//4532//6793</u>	On all three freqs	First heard 14 Jun	V M8JF (x3) DE RIS9 (x2)

<u>Freq in KHz</u>	<u>Call Slip</u>
3300//NRH	V MW3D (x3) DE 2SLC (x2)
3642//NRH	V DKG6 (x3) DE 3A7D (x2)
3642//7602	V DKG6 (x3) DE 3A7D (x2)
3777//4532	V M8JF (x3) DE RIS9 (x2)
3821//5644	V DKSL (x3) DE ALSK V (x2)
4131//NRH	V JKDJ (x3) DE SLBC (x2)
4131//10145	V JKDJ (x3) DE SLBC (x2)
4225//NRH	V 7NPE (x3) DE QV5B (x2)
4532//NRH	V M8JF (x3) DE RIS9 (x2)
4857// 5765	V TY9D (x3) DE EPX2 (x2) V
4860// 6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
5177//NRH	V JKDJ (x3) DE SLBC (x2)
5177// 10145	V JKDJ (x3) DE SLBC (x2)
5500//NRH	V 7NPE (x3) DE QV5B (x2)
5588//NRH	V MW3D (x3) DE 2SLC (x2)

<u>Freq in kHz</u>	<u>Call Slip</u>
5644//NRH	V DKSL (x3) DE ALSK V (x2)
5765//NRH	V TY9D (x3) DE EPX2 (x2) V
5801//10180	V DKG6 (x3) DE 3A7D (x2)
6421//9131	V DKSL (x3) DE ALSK (x2)
6793//8060	V M8JF (x3) DE RIS9 (x2)
6840//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
7602//NRH	V DKG6 (x3) DE 3A7D (x2)
8060//NRH	V M8JF (x3) DE RIS9 (x2)
8110//NRH	V 7NPE (x3) DE QV5B (x2)
9131//NRH	V DKSL (x3) DE ALSK (x2) V
9131//10947	V DKSL (x3) DE ALSK (x2) V
10145//NRH	V JKDJ (x3) DE SLBC (x2)
10180//NRH	V DKG6 (x3) DE 3A7D (x2)

Courtesy JPL

Marker Beacons (MX MXI)

Ary (AB) reported on 21 May that the Russians are using new cluster beacon freqs:

7508.7 D
7508.9 S
7509.0 C

PoSW reported an 'L' beacon in the UK evening time, from about 1700 UTC onwards. He writes:-

A single letter "L", di-dah-dit-dit, on 6918 kHz, or perhaps just a little lower, (6917.5kHz, *we think, PoSW*), with a distinct AC ripple on the keyed carrier. Speed is somewhat faster than that of the well known "SLT clusters", is heard with a very weak signal around 0700 UTC in the morning but not heard an hour or so afterwards until the early evening again.

Logs:

3594.8	2021z	15 May	MXI	CW Beacon "P"	Kaliningrad	BR	FRI
5153.7	2026z	15 May	MXI	CW Beacon "D"	Sevastopol	BR	FRI
5153.8	2026z	15 May	MX	CW Beacon "P"	Kaliningrad	AB	FRI
5153.9	2026z	15 May	MXI	CW Beacon "S"	Sevoromorsk	BR	FRI
6917.5	1934z	29 May	MX	CW Beacon "L"	St Petersburg (Fast)	BR/PoSW	FRI
7000	2034z	15 May	MX	CW Beacon "D"	(Spurious? - In sync with 7038.7kHz)	BR	FRI
7027.5	1945z	29 May	MX	CW Beacon "V"		BR	FRI
7038.7	2039z	15 May	MXI	CW Beacon "D"	Sevastopol	BR	FRI
7038.9	2039z	15 May	MXI	CW Beacon "S"	Sevoromorsk	BR	FRI
7508.7	2040z	21 May	MXI	CW Beacon "D"	Sevastopol (new freq)	AB	THU
7508.9	2040z	21 May	MXI	CW Beacon "S"	Sevoromorsk (new freq)	AB	THU
7509	2040z	21 May	MXI	CW Beacon "C"	Moscow (new freq)	AB	THU
8494.7	0521z	20 May	MXI	CW "Beacon "D"	Sevastopol	BR	WED
8495	0522z	20 May	MXI	CW Beacon "C"	Moscow	BR	WED
10871.7	2042z	15 May	MXI	CW Beacon "D"	Sevastopol	BR	FRI
10.871.9	0030z	06 Jun	MXI	CW Beacon "S"	Sevoromorsk	Dan/AR	SAT
10871.9	2042z	15 May	MXI	CW Beacon "S"	Sevoromorsk	BR	FRI
10872	2042z	15 May	MXI	CW Beacon "C"	Moscow	BR	FRI
13527.7	2046z	15 May	MXI	CW Beacon "D"	Sevastopol	BR	FRI
13527.9	2046z	15 May	MXI	CW Beacon "S"	Sevoromorsk	BR	FRI

13528	2046z	15 May	MXI	CW Beacon "C"	Moscow	BR	FRI
16331.7	0518z	20 May	MXI	CW Beacon "D"	Sevastopol	BR	WED
16331.8	2049z	15 May	MXI	CW Beacon "P"		BR	FRI
16331.9	1329z	18 May	MXI	CW Beacon "S"	Sevoromorsk	BR	MON
16332.0	2049z	15 May	MXI	CW Beacon "C"	Moscow	BR	FRI
16332.3	2052z	15 May	MXI	CW Beacon "K"		BR	FRI

Oddities

5292kHz Marker

Previously reported as sending a 'D' or 'B' in CW this marker has been reported emitting a similar marker tone to 'The Buzzer'. Schorschi reported that the marker was off air at 0326z and on air 0539z on 19 May, but no voice message was heard. (long time recording).

S28 'The Buzzer'

4625	2100z	15 May	S28	'The Buzzer' Marker	USB	BR	FRI
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S32 'Squeaky Wheel'

3828	2056z	15 May	S32	'Squeaky Wheel' marker	USB	BR	FRI
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S30 'The Pip'

3756	2057z	15 May	S30	'Pip' marker (Night freq)	USB	BR	FRI
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Contributors: AB, AnonUS, BR, CB, Daniel/AR, DanE2Kde, E. SMITH, HFD, HRT, JkC, JPL, Kopf, PoSW, RNGB, Schorschi, tiNG, Token
Thank you all for your logs.

German Branch and X06 report

Hallo liebe Mitglieder und Freunde der deutschen Branche und des X06 Teams (Hello dear members and friends of E2Kde and the X06 team)

Here are as usual the collected X06 logs

X06 Mazielka (1C) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20150508	Fri	1030-1034	19611	256134	SchorschiE2Kde	I. p., S9, G125
20150508	Fri	1220-1225	15828	256134	Schorschi	I. p., S9, G125
20150512	Tue	0803-0812	14376		Edward Smith	I.p., new freq [missed scale], R
20150513	Wed	0813	13369	412356	Edward	Tail end, G97
20150513	Wed	1805-1806	11512	1--6--	Schorschi	X06b i. p. on new freq
20150514	Thu	0829-0834	13843	153624	Edward	I. p., G249
20150515	Fri	1003-1013	14501	361245	Edward	Alert 2 (G190) 1 I. p.
20150515	Fri	1015-1022	12215	361245	Schorschi	2.2 Strong in J3E with carrier
20150516	Sat	0943-0946	18245	134265	Danix, Edward	From Twente Chatbox, R
20150522	Fri	1031-1041	20605	256134	Schorschi	I. p., G270
20150528	Thu	0909-0910	14419	521634	Edward	I. p., G261
20150602	Tue	1009-1012	14812	246531	Edward	I. p., G16
20150604	Thu	0719-0720	15973	314265	Spectre/UK	Fair QRN2 QSB2, G380
20150604	Thu	0725-0728	15973	162543	Spectre	Fair QRN2 QSB2, G39
20150604	Thu	1230-1235	19405	352416	Spectre	Fair QRN3 QSB3, G43
20150609	Tue	0935-0955	11545	534216	Schorschi	QSA3 QRN3 QSB2, G87
20150614	Sun	1745-1747	12114	145632	Schorschi	Strong, G135

Many thanks to all contributors as usual. Till next time I say "Auf Wiedersehen" and "Good-bye"

Voice and Data stations.

There is an excellent piece on the new HM02 this month, after HM01 and well worth a read [Thanks Brian].

E06

PoSW's report:

Starting off with something a bit out of the ordinary, a two-message E06:-

19-May-15, Tuesday:- 1502 UTC, 16,034 kHz, E06 calling "548", DK/GC "106 106 2 2", so just two 5F groups then, which were "11111 00065", followed by DKDK GCGC and into "548" call again, then second DK/GC "793 793 62 62" and sixty-two 5F groups. Ended after 1516 UTC. I don't recall ever having heard a two-message E06 before although I have heard this format from the related M14 CW. Not been able to find again on any subsequent Tuesday on which I have been near a radio.

On to more routine loggings:-

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

7-May-15:- 5,948 kHz, flattened by an S9+ French language broadcast station on 5,950 kHz, which has every right to be there since this is inside the internationally agreed 49 metre broadcast band; notwithstanding the fact that no-one listens to short wave broadcasters any more, but if they want to pump a couple of hundred kilowatts into the ether to warm up the ionosphere, well I guess that's their loss. However, the effect of this is to render the E06 transmission mostly unreadable.

Seasonal change from 5,186 kHz used during the past two months, would have been better if it had stayed there!

4-Jan-15:- 5,948 kHz, severe interference from the BC station two kHz up, sounded like call "724".

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

8-May-15:- 5,731 kHz, started about 30 seconds before the half hour, calling "315", DK/GC "613 613 20 20", the 5F message being one of those used many times over the past year or so and also in the German language by the related G06, "14259 22676 32782 32782.....". S9 signal, carrier appeared to be reduced but not totally suppressed. Seasonal change of frequency from 5,197 kHz used in March and April.

22-May-15:- started about one minute before the half-hour, 5,731 kHz, "315" and the same twenty 5F groups as on the 8th - but not the same DK, "921 921" this time, which was the same as in April.

5-June-15:- 5,731 kHz, early start as seems to be the norm for these half-hour schedules these days, around one minute, call "315", DK/GC "728 728 20 20", so another Decode Key ahead of the "14259 22676 32782 32782....." 5F sequence.

19-June-15:- had started when tuned in just after 2129 UTC, 5,731 kHz, "315" and "728 728 20 20" again, S9 to S9+, very strong signal.

RNGB's excellent logs:

E06 May/June log:

First/Third Thursday of month 2030z 5948kHz

No reports

Friday following First / Third Thursday 2130z 5731kHz

22/05 '315' 921 20 14259 22676 32782 32782 76723 89409 12215 74326 64070 90235 38085 59543 12319 74238 36664 12256 18841
73311 98089 12250 (Same old message!)

05/06 '315' 728 20 14259 22676.....etc (same old message)

19/06 '315' 728 20 14259.....

First /Third Thursday (repeats Friday) 0500z 14565kHz 0600z 16125kHz

7th & 21st May '460' 975 123
36981 66032 20555 17635 41335 54374 36431 74412 44729 32961 55321 88006 55180 31500 48886 07334 45169
27420 54333 43800 73564 99203 59863 92290 59191 38034 81615 09651 42015 97418 30556 42878 92845 85491 92749 24214 57528 29684 71435
75305 46527 68438 64370 87651 05877 58581 14568 24959 18596 67099 95691 16510 72321 47114 10419 51985 01752 68898 64283 04921
78941 89579 02184 71084 14056 91593 69371 17128 17371 86454 99081 62533 27785 51058 62780 74560 06274
88684 43931 80856 17712 31897 21244 29440 49527 29523 72330 50726 40597 84906 33708 01302 18838 37614 78088 94110 70932 05789 94887
44771 92606 31330 84900 88673 92931 00000 0524z QSA3 QSB3

Ed Smith, RNGB

0500z 13985khz 0600z 15830kHz

04th & 18th June '328' 569 104
48391 40241 86712 95618 48564 17806 03621 53500 45829 41573 13102 71218 71433 81925 12746 40015 74066
17145 43165 83925 53761 21694 23121 04056 27541 13174 78106 90242 31483 81427 79570 85943 88905 48197 36981 17282 99350 30790 09903
22194 28052 08190 32283 40603 00586 36160 74134 81769 25589 82017 21344 81548 13747 22151 83879 29253 55830 92459 45315 38143
70067 18718 82740 09752 19561 68667 70974 73719 05232 85461 93525 61327 27211 63385 64969 36155 31883
51812 94444 30303 86754 98306 44952 59618 50344 66836

Thanks: RNGB, Ed Smith. JkC, Malc

E07

PoSW's logs and analysis:

Predictable as always, in the sense that the same frequency schedules are used as in any given month for the past few years - and that low levels of audio continue to be a feature of many transmissions making for readability being more of a task than it need be.

Sunday + Wednesday Schedule, 1700 UTC Start:-

3-May-15, Sunday:- 1700 UTC, 14,763 kHz, "731 731 731 1", DK/GC "252 131", low audio, difficult copy.
1720 UTC, 13,363 kHz, second sending, S9, better audio than the first sending.
1740 UTC, 12,163 kHz, third sending, S8 to S9, reasonable audio.

10-May-15, Sunday:- 1700 UTC, 14,763 kHz, and 1720 UTC, 13,363 kHz, both S9 with reasonable audio, "731 731 731 000".

13-May-15, Wednesday:- 1720 UTC, 13,363 kHz, missed 1700Z sending due to monitoring M14 CW on 10,755, "731 731 731 1", DK/GC "252 131" x 2, looks like the return of the message from the 3rd of this month. Peaking over S9, reasonable audio.
1740 UTC, 12,163 kHz, third sending, S9 with QSB.

20-May-15, Wednesday:- 1720 UTC, 13,363 kHz, "731 731 731 000".

31-May-15, Sunday:- 1700 UTC, 14,763 kHz, and 1720 UTC, 13,363 kHz, "731 731 731 000".

3-June-15, Wednesday:- 1720 UTC, 13,442 kHz, "841 841 841 000", second sending peaking over S9 with deep QSB, reasonable audio. Frequencies in June of past couple of years 14,842 + 13,442 + 12,142 kHz.

7-June-15, Sunday:- 1700 UTC, 14,842 kHz, "841 841 841 000", S9 with reasonable audio.

17-June-15, Wednesday:- 1700 UTC, 14,842 kHz, and 1720 UTC, 13,442 kHz, "841 841 841 000", both transmissions over S9 with reasonable audio; and with E07 the word "reasonable" means you can hear it!

Monday + Wednesday Schedule, 1900 UTC, Start:-

4-May-15, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", S9 with reasonable audio.
1920 UTC, 13,412 kHz, second sending, competing with a strong "XJT", was also noted last year and in 2013.

6-May-15, Wednesday:- 1900 UTC, 14,812 kHz, and 1920 UTC, 13,412 kHz with "XJT" for company, "845 845 845 000".

11-May-15, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 1" for a full message, DK/GC "9901 114" x 2, S9 with better than usual audio.
1920 UTC, 13,412 kHz, second sending fighting "XJT".
1940 UTC, 11,512 kHz, third sending S9 with better than usual audio.

18-May-15, Monday:- 1900 UTC, 14,812 kHz, "845 845 845 000", over S9, audio low but readable.

1-June-15, Monday:- 1900 UTC, 15,824 kHz, "865 865 865 000", S9 signal, reasonable audio, heterodyne from strong broadcaster on 15,825 removed by using the receiver in LSB mode.
1920 UTC, 14,624 kHz, second sending, S9 with reasonable audio.

8-June-15, Monday:- 1900 UTC, 15,824 kHz, "865 865 865 000", the broadcast station "one up" strong this evening, a "Holy Roller", I think, that rabid "You're all gonna burn in Hell" variety of religion that seems to be fashionable in the U.S. Of A.
1920 UTC, 14,624kHz, second sending, strong "XJT" on HF side, not close enough to be too much of a nuisance.

10-June-15, Wednesday:- 1920 UTC, 14,624 kHz, second sending, "865 865 865 000", S8 to S9 with reasonable audio.

15-June-15, Monday:- 1900 UTC, 15,824 kHz, "865 865 865 1" for a full message, difficult copy due to the BC station on 15,825.
1920 UTC, 14,624 kHz, second sending, better copy, DK/GC "860 89" x 2. Strong "XJT" still churning away on the HF side.
1940 UTC, 13,524 kHz, third sending, S9 with reasonable audio, slight interference from the rapidly swept carrier which resides here, and a Morse "SLT" cluster on the HF side with "C" and "D" the strongest.

Thursday Schedule, 2010 UTC Start:-

7-May-15:- 2010 UTC, 11,539 kHz, "553 553 553 000", S7 to S8, audio low but readable.
2030 UTC, 10,547 kHz, second sending, also with low audio.

14-May-15:- 2010 UTC, 11,539 kHz, and 2030 UTC, 10,547 kHz, "553 553 553 000".

4-June-15:- 2010 UTC, 12,213 kHz, "273 273 273 000", S9 with much better audio than usual.
2030 UTC, 10,714 kHz, second sending, S9+ with good audio.

11-June-15:- 2010 UTC, 12,213 kHz, "273 273 273 000", interference from a wide-band "buzz" extending from 12,205 to 12,235 kHz approx; if that's not someone's over the horizon radar then it is difficult to say exactly what it is.
2030 UTC, 10,714 kHz, second sending, S9+ signal.

Others' logs:

May 2015

Sunday/Wednesday

1700z	14763kHz	1720z	13363kHz	1740z	12163kHz	
03/05		731 1 252 131 57660 ... 000 000				Weak
06/05		731 000				Weak

10/05	731 000	[1900z weak and noisy]	Strong
13/05	731 1 252 131 57660 ... 85737 000 000		Very strong
20/05	731 000	[1900z weak and noisy]	Fair
24/05	731 000		Fair
27/05	731 000		Fair
31/05	731 000		Very strong

June 2015

Sunday/Wednesday

1700z	14842kHz	1720z	13442kHz	1740z	12142kHz
03/06	841 000				Weak
07/06	841 000				Fair, QSB3/4
10/06	841 000				Weak
14/06	841 000		[1700z QRM5]		Very strong
17/06	841 000				Fair
24/06	841 000				Fair, QSB3
28/06	841 000				Fair

Monday/Wednesday

1900z	14812kHz	1920z	13412kHz	1940z	11512kHz
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May 2015

04/05	845 000				Fair, some noise
06/05	845 000				Strong
11/05	845 1 9901 114 17445 ... 29013 000 000				Very strong
13/05	845 1 9901 114 17445 ... 29013 000 000				Very strong
18/05	845 000			[1920z XJTQRM5]	Fair
20/05	845 000			[1920z XJTQRM2]	Fair
25/05	845 000			[1920z XJTQRM3]	Weak audio
27/05	845 000			[1920z not heard, QRM5]	Fair

Monday/Wednesday

1900z	15824kHz	1920z	14624kHz	1940z	13524kHz
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June 2015

01/06	865 000				Strong
03/06	865 000			[Both under QRM]	Fair
08/06	865 000			[1900z BCQRM5]	Strong
10/06	865 000			[1900z BCQRM5]	Weak
15/06	865 1 860 89 32792 ... 68147 000 000			[1900z QRM5]	Strong
22/06	865 000				Fair
24/06	865 000				Fair
29/06	865 1 114 40 24447 ... 20300 000 000				Strong

Monday/Saturday

0600z	9064kHz	0620z	10264kHz	0640z	11464kHz
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May 2015

09/05	024 000	QRM 0620z
23/05	024 000	QRM 0620z
30/05	024 000	QRM 0620z

June 2015

06/06	024 1 645 101 10408 ... 79405 000 000	Fair
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024 1 645 101
 10408 50583 94882 99540 64220 61121 14842 99505 68058 07221
 35569 33866 67176 31196 52816 04953 24571 91430 62941 47952
 24160 00443 03925 19342 91218 12306 64676 90385 97049 64403
 70853 23899 26457 42875 92579 68112 77801 06437 65684 50530
 47932 80766 65550 62940 34175 36751 42714 81688 68304 24749
 47766 16240 96084 84311 69129 14717 85077 12274 31031 83319
 96996 55353 86940 19445 70459 26437 64126 99918 27810 93764
 01770 91860 98611 26902 73333 14864 50163 99603 83605 22427
 75515 16509 95863 92932 60225 74601 92344 53132 35306 75182
 31107 74437 76113 87584 18616 89513 83695 89813 99165 74930
 79405

Courtesy ES/ Spectre

15/06	024 000	Fair
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Thursday

2010z	11539kHz	2030z	10547kHz	2050z	9388kHz
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May 2015

07/05	553 000	Too weak to copy
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June 2015**Thursday**

2010z	12213kHz	2030z	10714kHz	2050z	9347kHz
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04/06	273 000	Strong
11/06	273 000	Fair

Monday/Saturday

0600z	9064kHz	0620z	10264kHz	0640z	11464kHz
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May 2015

09/05	024 000	QRM 0620z
23/05	024 000	QRM 0620z
30/05	024 000	QRM 0620z

06/06	024 1 645 101 10408 ... 79405 000 000
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024 1 645 101
 10408 50583 94882 99540 64220 61121 14842 99505 68058 07221
 35569 33866 67176 31196 52816 04953 24571 91430 62941 47952
 24160 00443 03925 19342 91218 12306 64676 90385 97049 64403
 70853 23899 26457 42875 92579 68112 77801 06437 65684 50530
 47932 80766 65550 62940 34175 36751 42714 81688 68304 24749
 47766 16240 96084 84311 69129 14717 85077 12274 31031 83319
 96996 55353 86940 19445 70459 26437 64126 99918 27810 93764
 01770 91860 98611 26902 73333 14864 50163 99603 83605 22427
 75515 16509 95863 92932 60225 74601 92344 53132 35306 75182
 31107 74437 76113 87584 18616 89513 83695 89813 99165 74930
 79405 000 000

Courtesy ES

27/06	024 000
29/06	024 000

E07 a

PoSW's analysis and logs:

The Saturday morning, UK time, E07a schedule continues to appear on the same frequencies as in the past couple of years, but the Wednesday 2000 UTC start schedule did a spectacular shift of frequencies in May.

Saturday Schedule, 0800 UTC Start:-

2-May-15:- 0820 UTC, 13,477 kHz, missed first sending, "148 148 148 000", S7.

9-May-15:- 0800 UTC, 9 AM in the UK, 12,177 kHz, "148 148 148 000", S4 to S5, not too strong.
0820 UTC, 13,477 kHz, second sending, stronger, up to an indicated S8.

30-May-15:- 0800 UTC, 12,177 kHz, "148 148 148 000", up to S9.
0820 UTC, 0820 UTC, 13,477 kHz, S7.

6-June-15:- 0800 UTC, 13,373 kHz, "338 338 338 000", peaking S9.
0820 UTC, 14,373 kHz, second sending, surprisingly weaker, S4 to S5 at best.

20-June-15:- 0800 UTC, 13,373 kHz, "338 338 338 1 30692", for a "full message", DK/GC "5146 79" x 2, S7 SSB signal.
0820 UTC, 14,373 kHz, second sending, S6.
0840 UTC, 14,873 kHz, third sending, peaking S9, strongest signal of the three transmissions.

27-June-15:- 0800 UTC, 13,373 kHz, weak signal down in the noise, and 0820 UTC, 14,373 kHz, stronger at S7 or so, "338 338 338 000".

Wednesday Schedule, 2000 UTC Start:-

6-May-15, no sign of E07a this evening, assumed it would show up on 8,144 + 6,944 + 5,744 kHz, having moved to these frequencies in April, also something of a surprise since these were not the same as in past years. Had to wait another week to investigate further:-

13-May-15:- 2004 UTC, 12,166 kHz, E07a transmission in progress, S9+ SSB signal, looks as if this schedule has moved a lot higher in frequency.
Ended "000 000" after 2007 UTC.
2022 UTC, 10,766 kHz, just caught the DK/GC "1848 57" x 2 after a search for the second sending. Over S9.
2040 UTC, 9,266 kHz, "172 172 172 1 67279", DK/GC "1848 57" x 2. Third sending also over S9.

20-May-15:- 2000 UTC, 12,166 kHz, and 2020 UTC, 10,766 kHz, both S9+ very strong signals, "172 172 172 000".

27-May-15:- 2000 UTC, 12,166 kHz, "172 172 172 1 68076", DK/GC "8198 69" x 2, very strong S9+ SSB signal.
2020 UTC, 10,766 kHz, second sending, S9+ again.
2040 UTC, 9,266 kHz, third sending, another "S-meter against the end-stop" signal.

3-June-15:- 2000 UTC, 12,166 kHz, and 2020 UTC, 10,766 kHz, "172 172 172 000", no change of frequencies in June, then, and both S9+ SSB signals.

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

17-June-15:- 2000 UTC, 12,166 kHz, "172 172 172 1 68076", DK/GC "8198 69" x 2.
Looks like a return to the message transmitted on 27-May. S9+ SSB signal.
2020 UTC, 10,766 kHz, and 2040 UTC, 9,266 kHz, repeat transmissions, both S9+.

Others' logs with some repetition.

May/ June 2015

Wednesday

FREQUENCY CHANGE

2000z	12166kHz	2020z	10766kHz	2040z	9266kHz
06/05	172 000					Strong
13/05	172 1 67279 1848 57 47281 ... 67445 000 000					Very strong
20/05	172 000					Strong
27/05	172 1 68076 8198 69 01802 ... 54334 000 000					Extremely strong
03/06	172 000					Very strong
10/06	172 000					Very strong
17/06	172 1 68076 8198 69 01802 ... 54334 000 000					Very strong
24/06	172 000					Extremely Strong

**Thursday
May/June 2015**

FREQUENCY CHANGE

0430z	7933kHz	0450z	9133kHz	0510z	10233kHz	
07/05	Missed due to frequency change					
14/05	912 1 67279 1848 57 47281 ... 67445 000 000 [brief digiQRM2 0450z] Very strong					
21/05	912 000					Strong
28/05	912 1 68076 8198 69 01802 ... 54334 000 000					Extremely strong
04/06	912 000					Very strong
11/06	912 000					Very strong
18/06	912 1 68076 8198 69 01802 ... 54334 000 000					Very strong
25/06	912 000					Extremely Strong

**Friday
May 2015**

1510z	12182kHz	1530z	11082kHz	1550z	10182kHz	
01/05	101 000					Strong and noisy
08/05	101 000					Strong
15/05	101 1 67875 3753 63 02916 ... 81897 000 000				[deep QSB 1530z]		Strong
101 1 67875 3753 63 02916 71524 67150 52146 71127 87498 53035 90044 02923 94262 74284 15027 58535 26331 24136 32386 81898 30512 26573 76372 88732 84512 40935 43615 77007 97816 95257 39763 79407 83571 64575 90342 83524 35802 53231 20822 38487 86091 18620 01811 54960 04719 46590 32628 49542 11149 95669 80907 29930 54703 74975 59822 50075 68119 51624 21552 89949 17020 84084 71084 44321 53333 81897 000 000						
			<i>Courtesy Spectre</i>			
22/05	101 000					Strong
29/05	101 000					Strong

**Friday
June 2015**

1510z	12182kHz	1530z	11082kHz	1550z	10182kHz	
05/06	101 000					Strong, QRN3
12/06	101 000					Extremely weak
19/06	Too noisy to copy					QRM5
26/06	101 000					Fair, QRM3

**Saturday
May 2015**

0800z	12177kHz	0820z	13477kHz	0840z	14877kHz	
02/05	148 000					Strong
09/05	148 000					Strong, noisy
16/05	148 1 67875 3753 63 02916 ... 81897 000 000				[0840z weak]		Strong
23/04	148 000					Fair
30/05	148 000					Strong

0800z 13373kHz 0820z 14373kHz 0840z 14873kHz

338 1 30692 5146 79 5146 79
96720 25642 64490 95220 89389 11188 11140 18810 11670 65597
60736 47205 42302 47004 39973 12261 03614 71263 39127 57341
96677 54713 01299 08690 47679 06286 41604 96840 16795 61607
94800 12592 22784 60391 98594 23747 62719 60868 03641 98325
23873 86233 87786 92010 30838 94675 92261 19118 01582 14112
26628 95149 94763 45977 37630 68820 92486 46139 06582 24299
18328 24929 17049 70991 76521 75317 44911 96839 53658 79954
22452 66142 90271 60945 48882 88010 79638 10785 12405
000 000

Courtesy JO

E11 log May/June

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10356kHz	1530z	07/05 [262/00] Out 1533z S6	Malc	THU
	1530z	28/05 [262/00] Out 1533z S4	Malc, Ed Smith	THU
	1530z	11/06 [262/00] Out 1533z S3	Malc	THU
	1530z	18/06 [262/00] Out 1533z	Ed Smith	THU
10800kHz	0450z	29/06 [416/00] Out 0453z	Ed Smith	MON
12924kHz	0830z	01/05 [649/00] Out 0833z Strong QRM1 QSB1	JkC	FRI
	0830z	11/05 [649/00] Out 0833z S6	Malc	MON
	0830z	18/05 [649/00] S9	Malc	MON
	0830z	25/05 [649/00] Out 0833z S9+10	Malc	MON
	0830z	08/06 [649/00] Out 0833z S9	Malc	MON
	0830z	12/06 [649/00] Out 0833z S5	Malc	FRI
	0830z	15/06 [649/00] Out 0833z S2	Malc	MON
	0830z	19/06 [649/00] Out 0833z	Ed Smith	FRI
13424kHz	0545z	01/05 [348/00] Out 0548z Fair QRM1 QSB1	JkC	FRI
	0645z	05/05 [517/00]	RNGB	TUE
	0545z	13/05 [348/00] Out 0548z Fair QRN3 QSB3	Spectre	WED
	0545z	15/05 [348/00] Out 0548z	Ed Smith	FRI
	0545z	20/05 [348/00] Out 0548z Fair QRN3 QSB3	Spectre	WED
	0645z	26/05 [517/00] Out 0648z S8	Malc	TUE
	0645z	28/05 [517/00] Out 0648z S5	Malc	THU
	0645z	02/06 [517/00] Out 0648z S3	Malc	TUE
	0645z	09/06 [517/00] Out 0648z S5	Malc	TUE
	0545z	05/06 [348/00] Out 0548z	Ed Smith	FRI
	0545z	12/06 [348/00]	RNGB	FRI
	0645z	25/06 [517/00]	RNGB	THU
	0545z	26/06 [348/00] Out 0548z	Ed Smith	FRI
	0645z	30/06 [517/00] Out 0648z	Ed Smith	TUE
13427kHz	0900z	04/05 [534/00] Out 0903z Fair QRN3 QSB3	Spectre	MON
	0900z	06/05 [534/00]	RNGB	WED
	0900z	18/05 [534/00] S9	Malc	MON
	0900z	11/05 [534/00] Out 0903z S5	Malc	MON
	0900z	13/05 [534/00] Out 0903z S5	Malc	WED
	0900z	20/05 [534/00]	Ary	WED
	0900z	01/06 [534/00] Out 0903z S2	Malc	MON
	0900z	15/06 [534/00] Out 0903z S9	Malc	MON
	0900z	24/06 [534/00] Out 0903z	Ed Smith	WED
13537kHz	1225z	25/05 [521/00] Good	RNGB	MON
	1225z	29/05 [521/00]	Malc	FRI
	1225z	01/06 [521/00] Out 1228z S7	Malc	MON
	1225z	08/06 [521/00] Out 1228z S5	Malc	MON
	1225z	12/06 [521/00] 1228z Fair QRN3 QSB3	Spectre	FRI
13873kHz	1045z	05/05 [576/00]	RNGB	TUE
	1045z	12/05 [576/00] Out 1048z S5	Malc	TUE
	1045z	02/06 [576/00] Fair	RNGB	TUE
	1045z	16/06 [576/00]	RNGB	TUE
	1045z	30/06 [576/00] Out 1048z	Ed Smith	TUE
14753kHz	0710z	01/05 [633/00] Out 0713z Fair QRM1 QSB1	JkC	FRI
	0710z	05/05 [633/00]	RNGB	TUE
	0710z	08/05 [633/00] Out 0713z S2	Malc	FRI
	0710z	12/05 [633/00] Out 0713z S4	Malc	TUE
	0710z	15/05 [633/00] Out 0713z	Ed Smith	FRI
	0710z	22/05 [633/00]	Ary	FRI
	0710z	09/06 [633/00] Out 0713z S4	Malc	TUE
	0710z	12/06 [633/00] Out 0713z S4	Malc	FRI
	0710z	30/06 [633/00] Out 0713z	Ed Smith	TUE
14865kHz	1705z	06/05 [392/00] Strong	RNGB, PLondon	WED
	1705z	13/05 [392/00] Out 1708z S9	Malc	WED
	1705z	27/05 [392/00]	RNGB	WED
	1705z	30/05 [392/00] Out 1708z S9	Malc	SAT
	1705z	24/06 [392/00]	PoSW	WED
14975kHz	0805z	13/05 [311/00] Out 0808z	Ed Smith	WED
	0805z	17/05 [311/00] Out 0808z S7	Malc	SUN

	0805z	03/06 [311/00] Out 0808z	Ed Smith	WED
	0805z	07/06 [311/00] Out 0808z S9	Malc	SUN
	0805z	24/06 [311/00] Out 0808z	Ed Smith	WED
15632kHz	0745z	07/05 [335/00] Out 748z S3	Malc	THU
	0745z	12/05 [335/00] Out 0748z S3	Malc	TUE
	0745z	21/05 [335/00] Out 0748z Fair QRN3 QSB3	Spectre	THU
	0745z	02/06 [335/00]	RNGB	TUE
	0745z	11/06 [335/00] Out 0748z S5	Malc	THU
15795kHz	1625z	13/05 [978/00] Out 1628z S7	Malc	WED
	1625z	17/05 [978/00] Out 1628z S3	Malc	SUN
	1625z	24/05 [978/00] Out 1628z S2	Malc	SUN
	1626z	27/05 [978/00] Weak	RNGB	WED
	1625z	14/06 [978/00] Out 1628z S5	Malc	SUN
15803kHz	1300z	05/05 [133/00] Out 1303z Fair QRM1 QSB1	JkC	TUE
	1300z	19/05 [133/00]	Ary	TUE
	1300z	20/05 [133/00]	Ary	WED
	1300z	26/05 [133/00] Weak	RNGB	TUE
	1300z	09/06 [133/00] Out 1303z S3	Malc	TUE
	1300z	16/06 [133/00] Out1303z	Ed Smith	TUE
	1300z	23/06 [133/00] Out 1303z	Ed Smith	TUE
15905kHz	0710z	25/06 [491/00] Weak	RNGB	THU
16335kHz	1540z	03/05 [228/00] Out 1543z Weak QRM1 QSB1	JkC	SUN
	1540z	04/05 [228/00] Out 1543z Fair QRN3 QSB3	Spectre	MON
	1155z	14/05 [718/00] Out 1158z S4	Malc	THU
	1540z	18/05 [228/00] Out1543z S2	Malc	MON
	1540z	24/05 [228/00] Out 1543z S2	Malc	SUN
	1540z	08/06 [228/00] Out 1543z S2	Malc	MON
	1540z	14/06 [228/00] Out 1543z S4	Malc	SUN
	1540z	15/06 [228/00] Out 1543z S2	Malc	MON
	1540z	22/06 [228/00]	Gary H	MON

E11a log May/June

8088kHz	1730z	28/05 [416/38 75729 54083 59480 26676 56079 06815 24082 57189.....45260 87704]	JkC, Malc	THU
8530kHz	2000z	22/05 [576/38 98779 56900 98634 71195 36399 81352 42997 64952.....88787 64441]	RNGB	FRI
8565kHz	0315z	20/05 [259/32 Attn ????? ... ??429 OUT 0324z Signal obliterated XJTQRM3/5	PLondon	THU
	0315z	24/06 [250/37 53782 17762 09233 15991 28463 41071 01803 10818 94387..... 12716 36328] Out 0325z	Ed Smith	WED
9130kHz	2005z	02/05 [369/34 61340 72492 45717 90453 08825 31990 13932 10896.....40936 55811]	RNGB	SAT
	2005z	28/06 [367/31 73107 46686 95652 40152 09247 91346 18561 91418.....59946 43701]	RNGB	SUN
9150kHz	0820z	11/05 [436/30.....ATTENTION 28914.....75793]	Malc	MON
	0820z	14/05 [436/30.....ATTENTION 28914.....75793]	Malc	THU
	0820z	08/06 [438/30 00361 10320 48915 99319 01337 22460 81752 95035..... 92134 25955] Out 0828z	Malc, Ed Smith	MON
	0820z	11/06 [438/30 00361.....25955] Repeat of Monday	Malc, Ed Smith	THU
9610kHz	0745z	18/05 [266/35.....ATTENTION 07889.....24054]	Malc	MON
	1045z	20/05 [464/36 89086 41982 83329 56839 16302 92266 50679.....87323 55124 42935]	Ary, Spectre	WED
	1045z	09/06 [466/34 28404 59181 50090 26806 45099 75795 88620.....10033 81431] Out 1055z	D Schorschi	TUE
	1045z	10/06 [466/34 28404 59181 50090 26806 45099 75795 88620.....10033 81431] Out 1055z Fair QRN3 QSB3	Spectre	WED
10213kHz	0930z	06/05 [278/37 60934 46219 81949 12374 96163 25931 07918 02306.....09385 05277]	RNGB	WED
	0930z	03/06 [278/36 15116 59513 77044 84578 91137 10500 29029 34688 22623.....40281 22228] Out 0939z	Ed Smith	WED
	0930z	04/06 [278/36 15116.....etc] Repeat of Wednesday	RNGB	THU
10487kHz	1710z	01/05 [959/22 23757 79029 64117 54099 87440 23371 54602 90428.....36826 04336] Out 1717z Strong	JkC	FRI
	1710z	04/05 [951/21 74975 35692 50294 06035 86874 66381 31550 03830.....41585 92938] Out 1717z Weak	JkC	MON
	1710z	08/05 [957/32 45914 93510 01187 89983 38562 55878 03923 14454..... 99854 60341] Out 1709z	Ed Smith, Malc	FRI
	1710z	11/05 [953/30.....ATTENTION 62276.....38589]	Malc	MON
	1710z	15/05 [953/30 03876 34704 29750 50974 96952 88912 48564 47718 03827..... 68898 51520]	Spectre	FRI
	1710z	18/05 [957/24 99182 43517 84425.....15119 85143 78903]	Malc, Ary	MON
	1710z	22/05 [953/30 65705 71017 05730 07849 87756 69267 38359 35937.....97337 80330] Out 1718z	Ed Smith	FRI
	1710z	25/05 [959/30 94074 36267 73633 07685 49827 19729 00888 94214 40654 62022.....61274 90939]	Gary H	MON
	1710z	29/05 [953/21.....ATTENTION 38500.....05012]	Malc	FRI
	1710z	01/06 [955/35 69954 13982 78296 42820 93350 85631 39817 00754.....83449 28673]	RNGB, Malc	MON

1710z	05/06 [951/25 28370 06868 83200 97962 00726 52446 89046 46641 88638 80601.....66533 59820]	Gary H	FRI
1710z	08/06 [950/37 76168 51387 95611 52676 96633 04519 69383 01513 66481 67719.....82903 87074]	Gary H, Malc	MON
1710z	15/06 [953/20.....ATTENTION 40877.....79524]	Malc	MON
10800kHz 0450z	15/06 [412/34 13743 96255 07416 15427 56690 89621 99538 13584 41865..... 62917 28132] Out 0459z	Ed Smith	MON
12924kHz 0830z	04/05 [640/33 84141 43664 24808 19124 96775 96483 25937 27899 00439.....02954 67272] Good	RNGB	MON
0830z	08/05 [640/33.....ATTENTION 84141.....67272]	Malc	FRI
0830z	01/06 [640/35 42473 84873 58273 44511 66524 16475 64849 02325.....21538 68316]	RNGB, Malc	MON
13424kHz 0645z	12/05 [512/32 28713 87884 83956 47036 03880 98309 54796 39383 10710.....99837 61724] Out 0654z	Ed Smith	TUE
0645z	14/05 [512/32 28713.....etc] Repeat of Tuesday	Ary, Malc	THU
0545z	27/05 [340/34 81889 34271 67033 52262 29390 66201 33467 08906 72393.....27748 82126] Weak	RNGB	WED
0645z	16/06 [511/35 06794 37400 35994 50092 37824 05204 64956 70626 76662.....75414 67703] Out 0648z	Ed Smith, RNGB	TUE
0545z	17/06 [343/34 81602 18955 14303 40160 22752 35825 64234 95528 26967.....51105 37974] Out 0554z	Ed Smith	WED
13537kHz 1225z	19/06 [524/35 89468 80506 29008 90270 42886 58673 98524 15705 77120.....42255 71637]	RNGB	FRI
13427kHz 0900z	25/05 [532/32.....ATTENTION 46620.....24123]	Malc	MON
0900z	08/06 [533/36.....ATTENTION 75906.....75445]	Malc	MON
0900z	10/06 [533/36 75906.....75445] Repeat of Monday	Malc	WED
13722kHz 1400z	02/05 [981/10 99925 34996 80022 66330 85586 31765 65169 96605 12732 57710] Out 1405z Strong	JkC	SAT
1400z	05/05 [985/10 39537 47753 16311 04176 98899 52028 28444.....] Out 1405z	D Schorschi	TUE
1400z	16/05 [985/10 74837 49594 48956 17513 33612 63904 83167 09960 39429 78485] Out 1405z	Ed Smith	SAT
1400z	19/05 [983/10 63945 70704 23335 95545 12722 67277 69631 49190 28180 62719]	Ary	TUE
1400z	23/05 [983/10 11835 45789 25689 71320 63531 14205 03683 23007 20124 12295] Out 1405z	Ed Smith	SAT
1400z	26/05 [981/10 24109 86057 77420 37784 25056 98813 52851 82118 77868 19347]	JkC, RNGB	TUE
1400z	30/05 [983/10 88355 32691 69540 91021 34099 12542 22510 34281 26113 23360] Out 1405z S5	Malc	SAT
1400z	09/06 [981/10 92232 20810 07294 99836 03932 51139 01010 09724 83363 62953]	Spectre, Malc	TUE
1400z	13/06 [981/10 95013 04862 28157 50230 98213 51210 74179 37106 26863 59944]	Spectre	SAT
13873kHz 1045z	19/05 [576/38 98779 56900 98634 71195 36399 81352 42997 64952 99215 30713.....88787 64441]	Ed Smith	TUE
1045z	09/06 [573/36.....ATTENTION 30866.....31861]	Malc	TUE
14518kHz 1810z	05/05 [987/10 00051 22858 83366 52052 20455 46575 25300 25835 92641 52136] Out 1815z Fair	JkC	TUE
1810z	12/05 [985/10 17602 93724 40747 84673 41521 32997 98220 65770 54305 09905]	Spectre	TUE
1810z	16/05 [986/10 41510 08564 27604 88975 08677 06483 01662 96575 75868 19906]	Gary H	SAT
1810z	26/05 [985/10.....ATTENTION 17602.....09905]	Malc	TUE
1810z	30/05 [984/10 78175 17221 46480 63771 65056 85943 17487 67239 69020 33938] Out 1815z S9	Malc	SAT
1810z	02/06 [982/10.....ATTENTION 06358.....88717]	Malc	TUE
1810z	09/06 [982/10.....ATTENTION 26066.....48161]	Malc	TUE
1810z	20/06 [983/10 67158 54200 52713 26276 97141 39534 83904 34543 67528 45600]	RNGB	SAT
1810z	30/06 [982/10 02251 93109 95948 20662 22296 75407 74647 43277 28138 58005]	Thomas	SAT
14575kHz 0710z	26/05 [636/36.....ATTENTION 51105.....63434]	Malc	TUE
0710z	29/05 [636/36 51105 05382 35713 33746 07575 58267 99508 20642 64777.....89858 63434] Out 0720z	Ed Smith	FRI
0710z	02/06 [637/36 15038 01858 79302 88052 08828 59413 47775.....etc]	RNGB	TUE
14753kHz 0710z	26/05 [636/36 51105 05382 35713 33746 07575 58267 99508 20642 64777.....89858 63434]	RNGB	TUE
0710z	02/06 [637/36 15038 01858 79302 88052 08828 59413 47775 99007 65771.....34768 17214] Out 0720z	Ed Smith, Malc	TUE
14769kHz 0530z	05/05 [984/10 09452 37160 03486 79799 64449 17891 18567 63515 94433 82283]	RNGB	TUE
0530z	12/05 [984/10 65896 88217 65488 81801 88358 24360 59250 38885 08272 18296] Out 0535z	Ed Smith	TUE
0530z	16/05 [984/10 34282 82992 80816 04292 26132 51574 78399 61045 24897 57644]	Spectre	TUE
0530z	23/05 [981/10 89873 15528 96617 13060 15255 91685 01649 20085 69468 53724] Out 0535z	Ed Smith	SAT
0530z	30/05 [982/10 54632 74971 38154 38202 90122 32680 61229 59078 92761 47082] Out 0535z	Ed Smith	SAT
0530z	02/06 [980/10 47765 38789 26805 98257 87466 87525 30439 45797 01928 15446] Out 0535z	Ed Smith	TUE
0530z	06/06 [980/10 39388 51408 87012 79735] Out 0535z	Ed Smith	SAT
0530z	13/06 [980/10 22623 36142 97731 21315 85966 53213 49111 73137 25566 69632] Out 0535z	Ed Smith	SAT
0530z	16/06 [982/10 30910 85095 91539 69211 43891 31906 92816 08243 51686 06260] Out 0535z	Ed Smith	TUE
0530z	20/06 [981/10 83666 76531 77511 16514 58343 64588 25813 85227 27900 68546] Out 0535z	Ed Smith	SAT
0530z	27/06 [983/10 89001 86410 16201 45227 23305 52526 38402 14393 23544 61133] Out 0535z	Ed Smith	FRI
14865kHz 1705z	10/06 [399/33.....ATTENTION 76077.....62394]	Malc	WED
1705z	13/06 [399/33 76077 75359 07173 76160 46501 41855 57433 32600.....99591 62394] Fair	RNGB	SAT
14975kHz 0805z	27/05 [311/35 35335 05797 29308 02116 16834 20521 48093 68335.....42488 87679] Good	RNGB	WED
0805z	31/05 [311/35 35335.....87679] Repeat of Weds	Malc	SUN
0805z	17/06 [312/36 20509 45167 31037 95929 24901 72451 71394 98369 03534.....93142 19126] Out 0815z	RNGB, Ed Smith	WED

15632kHz 0745z	26/05 [330/32.....ATTENTION 45264.....86400]	Malc	TUE
0745z	28/05 [330/32.....ATTENTION 45264.....86400]	Malc	THU
0745z	16/06 [333/36 37712 30279 12978 32765 89476 85851 60750 79669 47646..... 67025 94435]	RNGB, Spectre	TUE
15795kHz 1625z	06/05 [979/32.....ATTENTION 60264.....83954] Out 1634z S6	Malc	WED
15803kHz 1300z	13/05 [135/37.....ATTENTION 91348.....02254]	Malc	WED
1300z	02/06 [136/34 06293 39950 55433 30627 87395 45482 19458 95479 41469.....55083 90287] Out 1309z	Ed Smith	TUE
15905kHz 0710z	04/06 [491/33 07817 76184 19063 00149 08814 63091 13970 99947.....31421 75294 Out] 0718z Fair	Spectre	THU
16335kHz 1155z	07/05 [712/31.....ATTENTION 99000.....71388] Out 1204z S3	Malc	THU
1540z	01/06 [225/38.....ATTENTION 81714.....69689]	Malc	MON
16388kHz 1110z	04/05 [952/31 45914 93510 01187 89983 38562 55878 03923 14454 64586.....99854 60341]	RNGB	MON
1110z	11/05 [952/40.....ATTENTION 44499.....70959]	Malc	MON
1110z	15/05 [950/40 45927 75900 50027 47247 71495 96699 05947 12562 49005..... 55655 81021] Out 1120z	Ed Smith	FRI
1110z	18/05 [953/35.....ATTENTION 54051.....19654]	Malc	MON
1110z	22/05 [952/31 Attention 11837....etc]	Ary	FRI
1110z	25/05 [952/40.....ATTENTION 96660.....08872]	Malc	MON
1110z	29/05 [952/31 11873 46999 36582 00791 64310 88548 39695 94153 71716.....54172 12585] Out 1119z	Ed Smith	FRI
1110z	01/06 [952/40.....ATTENTION 72917.....03006]	Malc	MON
1110z	08/06 [953/25.....ATTENTION 13169.....09781]	Malc	MON
1110z	12/06 [952/35.....ATTENTION 40649.....faded out]	Malc	FRI
1110z	15/06 [952/40.....ATTENTION 08907.....73288]	Malc	MON
1110z	19/06 [952/31 57229 77421 12677 77476 80729 78464 73414 31090 44951.....11904 16458] Out 1119z	Ed Smith	FRI
1110z	22/06 [950/31 08962 57044 03010 85733 58566 52122 60112 18219 68214.....15708 28865] Out 1119z	Ed Smith	MON

E17z

Thursday

May 2015

0800z	16780kHz	0810z	12952kHz	
14/05	674 821 5 52401 ... 74248 821 5 00000			Weak
21/05	674 283 5 38352 94289 15244 21541 56567 283 5 00000			Fair
28/05	674 283 5 38352 94289 15244 21541 56567 283 5 00000			Fair

June 2015

0800z	16780kHz	0810z	12850kHz	
04/06	674 259 8 52405 63919 93699 14600 74348 487?? 65135 45879 259 8 00000	[0810z too weak for copy]		Weak
11/06	674 259 8 52401 63919 92699 14600 74248 65125 41879 259 8 00000			Weak
18/06	674 982 5 80744 ... 61735 00000			No sig report

E25

Received an email from Toto/Cz of Priyom alerting us to a possible new freq where E25 is testing.

Toto/Cz wrote:

"Usually Arabic music, not always Oum Kulthum is broadcast, sometimes with test number transmissions or test tones. Transmissions can be over 15 minutes. It seems to run around the time of the 9.45 broadcasts. (we found out most transmissions are 12:15z Thu/Sat/Sun)

24.5.2015 9600 kHz 1229z <http://files.hetmer.cz/priyom/9600.mp4> Arabic music, short tone, carrier off. totoCZ

I didn't manage to log any E25 in a while, good to know they're still active.

Last year logs are on our website

December 06, 2014 12:07 9.6 MHz Logged but not recorded Different songs, not only Oum Kulthumm, no message. Logged by Mr DXer, Avare.
December 31, 2014 12:10 9.6 MHz Logged by Avare. Test transmission"

Thanks Toto/Cz

Sunday 7 June 2015

9400 kHz 0826z - 0947z

In progress, oriental music (YL), sometimes resembling a BC station transmission. Several breaks. Signal strength and QSB similar to E25 9MHz transmissions.

9600 kHz 1108z till approx. 1120z

Oriental music (OM), blank carrier and breaks. Again, signal strength and QSB similar to E25 transmissions.

G06

Decent analysis from PoSW:

Not much new here, the twice-monthly Thursday and Friday evening transmissions still coming up with one of several messages of 20 five-figure groups which have been used many times over the past year or more with a variety of "decode keys", surely cannot convey any kind of information, perhaps just intended to be a regular transmitter test routine of seven or eight minutes or so.

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

14-May-15:- 6,887 kHz, started well before the half hour, call "842", DK/GC "832 832 20 20". The 5F message heard on many previous occasions and back by popular demand no doubt, "37839 35787 98273.....". Strength S6 to S7 on a clear frequency, seasonal change from 5,934 kHz used in March and April.

11-June-15:- 6,887 kHz, in progress when tuned in 30s before the half-hour, call "842", DK/GC "317 317 20 20", the "37839 35787....." set of 5Fs again but with a different DK. S9 signal.

25-June-15:- 6,887 kHz, well I don't know what's gone wrong this evening, very poor signal, never heard this one so weak, either propagation is exceptionally poor or G06's owners have turned the transmitter power down by a considerable amount, call "842", DK/GC "317 317 20 20", stayed with it just long enough to confirm the 5F message as beginning with, "37839 35787....."

Friday 1930 UTC Schedule Following Second + Fourth Thursdays in the Month:-

15-May-15:- 5,943 kHz, seasonal change from 5,442 kHz used in March and April, call "218", DK/GC "832 832 20 20", same 5F groups as yesterday's 1830Z sending. S9 signal inside 49 metre broadcast band but free from interference.

29-May-15:- 5,943 kHz, call up "218" in progress when tuned in 30s before the half-hour, DK/GC "832 832 20 20" and 5Fs as on the 15th.

12-June-15:- 5,943 kHz, call "218", DK/GC "394 394 20 20", 5Fs used in the past, starts "06132 75514 79681 94217....". Well over S9 on a clear frequency.

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

4-May-15:- 1700 UTC, 5,246 kHz, "248 248 248 00000", found approx. 1701 UTC, stopped 1703 so may have started early.

1800 UTC, 4,892 kHz, second sending, surprised to find this on a lower frequency than the 1700Z sending; in May last year when the call was "367" the 1700Z was on 5,412 and the 1800Z was on the higher frequency of 5,783 kHz.

11-May-15:- 1700 UTC, 5,246 kHz, and 1800 UTC, 4,892 kHz - both started before the hour - "248 248 248 00000".

1-June-15:- 1700 UTC, 5,246 kHz, "248 248 248 00000", down in the local S5 noise level but clear copy with the receiver in USB mode. Had started when tuned in approx 15s before the hour, stopped 1702 : 45s UTC.
1800 UTC, 4,892 kHz, second sending, also well down in the local QRM.

May/June 2015

Monday

0800z 7320kHz

11/05	NRH	
01/06	329 00000	Weak
15/06	329 00000	Weak

1700z 5246kHz 1800z 4892kHz

04/05	248 00000	Strong
11/05	248 00000	Weak
01/06	NRH	
08/06	248 00000	Fair

**Wednesdays
June 2015**

1300z 7411kHz

03/06 248 00000

Thursday

1830z 6887kHz

14/05 842 832 20 37839 ... 04594 832 20 00000 Strong

28/05 842 832 20 37839 ... 04594 832 20 00000 Strong

842 832 20
37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
03206 67423 40968 16891 63781 34820 04842 60491 75924 04504
832 20 00000 *Courtesy Spectre*

11/06 842 317 20 37839 ... 04594 317 20 00000 Strong and noisy

Friday

1930z 5943kHz

15/05 218 832 20 3783904594 832 20 00000 Strong

29/05 218 832 20 3783904594 832 20 00000 Strong

218 832 20
37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
03206 67423 40968 16891 63781 34820 04842 60491 75924 04504
832 20 00000 *Courtesy Spectre*

June

26/06 218 for 90s then carrier down Strong

S06, et al

S06 log May

Daily Mon- Fri 0400z 15721kHz

14/05	‘480’ 517 60 10617 08138 .....17230 03887 00000 0417z	Ed Smith
15/05	‘480’ 932 50 69089 46210 59019 80139 00000 0411z	Ed Smith
19/05	‘480’ 262 50 43138 01539 18783 63359 00000 0411z	Ed Smith
20/05	‘480’ 393 60 86380 66865 77773 62956 00000 0412z	Ed Smith
21/05	‘480’ 617 50 38351 51444 44011 16848 00000 0411z	Ed Smith
22/05	‘480’ 923 60 42521 37422 25148 76736 00000 0412z	Ed Smith
27/05	‘480’ 315 60 87605 34202 01634 99760 00000 0412z	Ed Smith
29/05	‘480’ 232 60 78520 04548 41151 30357 01610 80292 92379 04011 32322 20574 99943 35401 71095 93375 07735 38887 39211 27538 47147 82358 05693 91006 47037 30766 73676 66430 30486 23720 37193 78817 71834 54370 44293 54931 12389 41741 27468 19108 58277 13703 87278 55186 08854 42785 40158 89247 89116 02004 66299 72828 84566 32900 18593 71324 01942 42965 78522 87249 04270 74658 00000 0412z	Ed Smith
02/06	‘480’ 539 60 88795 52950 89013 02441 43449 84486 27789 50512 98441 50878 08180 51183 78093 44201 17992 55565 73392 71521 28164 71453 63814 07738 75769 72083 29869 02051 15086 45222 67300 92724 10166 49777 38887 09842 67349 72116 24779 70727 31159 99276 57306 97748 92004 51259 51195 13148 79151 39592 65136 90631 37369 44351 55638 68370 10716 26825 09096 53125 81890 20009 00000] 0412z	Ed Smith
03/06	‘480’ 127 60 78421 67195 44741 55224 00000] 0412z	Ed Smith
04/06	‘480’ 969 50 57278 28893 43817 42807 00000] 0411z	Ed Smith

Thursdays (Repeats following day) 0830z 17475kHz 0930z 14736kHz

07/05 ‘842’ 139 46 25880 38482 56749 14120 05019 73991 87561 05534 03816 51510 67348 37963 96249 79095 02175 45728 48828 38770
24597 78780 22215 63423 21894 62654 64759 73184 61675 45236 40094 82201 69535 03795 56020 11769 38450 10694 86831 70742
74588 81239 06300 89176 09254 52091 73475 16121 139 46 00000

21/05 ‘842’ 653 48 49336 09172 04230 06687 18825 22866 07386 13005 88455 88722 61411 87990 93417 92522 19396 93065 95633 93172
97340 90541 93156 88427 96495 24041 65985 62734 36332 52132 87999 65643 40357 46131 59692 94222 41938 87990 41391 77917
02342 29231 91655 89287 58162 96845 40537 29055 40336 57108 653 48 00000

28/05 ‘842’ 701 49 37770 63437 52972 74645 85527 20135 57289.....61024 52284 701 49 00000

Fridays (1st & 3rd) 01 & 15/05		1900z	11615kHz	2000z	9223kHz	(frequencies may vary slightly)	
Saturdays (1st/2nd/3rd and 4th)			1600z	8167kHz	or	1605z	7311kHz
02/05	1600z	‘491’ 00000					
09/05	1605z	‘491’ 00000					
16/05	1600z	‘491’ 00000					
Saturdays (1st/3rd)		1900z	7321kHz	2000z	6768kHz		
02/05 & 16/05		‘738’ 00000					
S06s May log:							
Sunday							
3rd/10th	0630/40	16320/14875	‘524’ 890 6 46062 68672 97478 39685 30485 96632				
17th/24th			‘524’ No reports				
Monday							
4th/11th	0830/40	8221/9353	‘371’ 582 6 40613 77249 40678 17976 21816 42997				
18th/25th			‘371’ 490 5 51072 38664 48339 91339 44254				
4th/11th	0900/10	16380/14835	‘872’ 591 6 11171 64385 82707 06123 22536 88280				
18th/25th			‘872’ 906 5 83086 62060 83135 39760 18969				
4th/11th	1200/10	10230/12165	‘831’ 527 6 88620 58069 61732 74537 57440 10597				
18th/25th			‘831’ 926 5 62982 01738 62810 66385 19231				
Tuesday							
5th/12th	0600/10	15945/16945	‘438’ 591 6 37184 36129 33983 83321 85246 32938				
19th/26th			‘438’ 956 7 72916 27417 63060 82945 41730 51839 38200				
5th/12th	0700/15	5430/6780	‘374’ 968 5 34621 86804 13264 96693 47698				
19th/26th			‘374’ 215 6 41832 41621 32774 37587 43603 43203				
5th/12th	0730/40	7365/11655	‘427’ 538 6 39626 32740 46182 99077 35193 35643				
19th/26th			‘427’ 539 6 88620 58069 61732 74537 56440 10597				
5th/12th	0800/10	14373/12935	‘352’ 489 6 47445 48683 89696 41965 80896 42935				
19th/26th			‘352’ 468 7 09394 76911 75155 92918 97067 58604 01438				
5th/12th	1000/10	6440/5660	‘893’ No reports				
19th/26th			‘893’				
5th/12th	1100/10	6810/7560	‘754’ 810 6 37947 39747 31323 31829 47694 45680				
19th/26th			‘754’ 296 8 88569 89617 26575 77159 95225 84090 09531 88430				
5th/12th	1500/10	6666/7744	‘537’ No reports				
19th/26th			‘537’ 416 8 37844 46187 43710 37489 46280 48833 37437 36982				
Wednesday							
6th/13th	0530/40z	11565/12560	‘464’ 907 5 87315 82051 42873 39245 37374				
20th/27th			‘464’ 219 5 44645 16330 88418 30780 88560				
6th/13th	0730/40	12110/14977	‘745’ 263 8 52401 63919 92699 14600 74248 48754 65125 41879				
20th/27th			‘745’ 203 6 35321 35211 33212 38714 36997 80321				
6th/13th	0820/30	9485/11085	‘471’ 250 6 46062 68672 97478 39685 30485 96632				
20th/27th			‘471’ 509 6 88997 83755 89983 34084 86339 99811				
6th/13th	1000/10	14580/16020	‘729’ 501 6 33796 13577 74526 46647 79302 53516				
20th/27th			‘729’ 584 6 35489 38352 37367 36143 43011 34283				
Thursday							
7th/14th	0800/10	16780/12850	‘674’ 821 5 52401 63919 92699 14600 74248				
21st/28th			‘674’ 283 5 38352 94289 15244 21541 56567				
7th/14th	0900/10	6844/7161	‘624’ 807 5 40853 48799 34015 83494 41577				
21st/28th			‘624’ 931 5 85258 38303 48833 37437 55584				
7th/14th	0900/10	12952/13565	‘167’ 840 5 88620 58069 61732 74537 57440				
21st/28th			‘167’ 835 9 40680 34932 82235 33617 36923 30954 33932 33365 41334				
7th/14th	0930/40	9255/10325	‘314’ 250 6 42990 33000 32968 35223 36880 84455				
21st/28th			‘314’ 926 5 20529 80749 03752 65367 84777				
7th/14th	1200/10	13145/14535	‘425’ 971 6 37184 31294 44983 83321 85246 32553				
21st/28th			‘425’ 890 6 23052 93448 72465 65598 72068 80328				
Friday							
1st/8th	0600/10	7845/9125	‘196’ 805 7 38034 37823 38230 48235 38702 44520 46992				
15th/22nd			‘196’ 205 7 46062 68672 97478 39685 30485 86632 52401				
1st/8th	0930/40	10290/9655	‘516’ 829 7 34621 86804 13264 96693 46798 35467 33462				
15th/22nd			‘516’ 243 7 31900 48366 36534 32840 48436 81480 30762				
Saturday							
2nd	1200/10	12460/10250	‘254’ 937 6 80939 34431 94276 54537 54928 33165				

Thanks to RRGB, JkC, Malc, Spectre, Ed Smith

S06 log June

Daily Mon- Fri		0400z	15721kHz	
02/06	‘480’	539 60 88795 52950 89013 02441 43449 84486 27789 50512 98441 50878 08180 51183 78093 44201 17992 55565 73392 71521		
			28164 71453 63814 07738 75769 72083 29869 02051 15086 45222 67300 92724 10166 49777 38887 09842 67349 72116 24779	
			70727 31159 99276 57306 97748 92004 51259 51195 13148 79151 39592 65136 90631 37369 44351 55638 68370 10716 26825	
			09096 53125 81890 20009 00000] 0412z	Ed Smith
03/06	‘480’	127 60 78421 67195	44741 55224 00000] 0412z	Ed Smith
04/06	‘480’	969 50 57278 28893	43817 42807 00000] 0411z	Ed Smith
05/06	‘480’	235 60 82400 79503 71447 48105 65038 87667 64393 59696 88443 87710 58492 93640 45635 62077 27752 03942 01424 83829 57489 92153		
			13459 65598 07796 18482 56484 24635 57580 15725 60762 18669 02606 73218 00592 32261 05972 83003 93863 18318 24479 65377	
			98588 24482 59300 16034 17333 59066 04420 41971 45502 76229 91248 78350 24415 85075 52881 03511 85093 12368 56413 94304	
			00000] 0412z	Ed Smith
08/06	‘480’	179 50 32712 94841 54178 52611 70179 93156 49360 90225 85028 92592 29047 83904 43213 00341 91275 09255 24893 02819 71232 32716		
			89781 11173 62515 86604 96114 74844 78720 45814 27906 36648 22555 42117 10210 27776 54654 77003 17043 26197 79290 18983	
			01677 26865 89171 96307 03983 97177 36498 21038 14512 16133 179 50 00000	Spectre
11/06	‘480’	936 50 00560 05906 52927 10009 32966 98801 24758 71073.....	03551 68077 00000] 0411z	Ed Smith
15/06	‘480’	217 60 90590 27791 38154 50900 39912 89539 76246 06373.....	73731 89912 00000] 0412z	Ed Smith
19/06	‘480’	251 60 28264 71953 94166 63036 16365 52644 30860 74334.....	04669 91908 00000] 0412z	Ed Smith
22/06	‘480’	769 50 20818 93654 29001 77313 80504 48285 89689 51146.....	97622 23412 00000] 0411z	Ed Smith
25/06	‘480’	361 50 X6922 61270 10646 18764 05921 01311 35196 08882.....	95051 90325 00000] 0412z	Ed Smith
30/06	‘480’	267 50 79794 24516 38780 56360 65543 92701 33835 86934.....	35685 29923 00000] 0411z	Ed Smith

Thursdays (Repeats following day) **0830z** **0930z**
No reports

Fridays (1st & 3rd) **2000z** **11610kHz** **2100z** **9208kHz** (frequencies may vary slightly)
5th & 19th ‘392’ 178 46 71173 14300 44637 14265 51505 08077 85552 69843 44485 30544 68950 38394 93504 07659 25891 94974 02144 56597
96856 97091 88634 71984 94964 07173 44068 75893 17925 64127 12148 12421 41686 77570 30234 50947 14519 18441 70243 30680 37924
77462 10493 34918 78526 66475 25677 26636
Used 11605kHz on 19th and 9228khz/11610kHz on 20th

Saturdays (1st/2nd/3rd and 4th) **1600z** **8167kHz** or **1605z** **7311kHz**
06/06 1600z ‘491’ 00000
13/06 1600z ‘491’ 00000
20/06 1600z ‘491’ 00000
27/06 1605z ‘491’ 00000

Saturdays (1st/3rd) **1900z** **7321kHz** **2000z** **6768kHz**
06/06 & 20/06 ‘738’ 00000 (Used 7321kHz on 20th)

Unscheduled:
13944kHz 1500z 03/06 ‘387’ 77595 07300 01692 41411 95820 57000 83992 26488 12018 06802 50795 18126 01596 27953 04415 33251 50924 35977
15795 68253 25325 49350 11683 03618 35984 42826 34947 74277 35476 43807 20238 16633 96593 45232 52151 28160 54161 33406
98116 00564 14525 54197 33164 12396 62410 66067 98785 92084 19822 53338 63059 940 51 00000] 1511z Fair Spectre WED

S06s June log:

Sunday

7th/14th 0630/40 16320/14835 ‘524’ 987 6 46062 68672 97478 39685 30485 96632
21st/28th ‘524’ 981 6 46800 37901 43784 34114 30527 30953

Monday

1st/8th 0830/40 8221/9353 ‘371’ 502 6 38054 35856 45364 38778 36510 32382
15th/22nd ‘371’ 948 5 88613 39362 31811 44806 30780
1st/8th 0900/10 16380/14835 ‘872’ 503 6 48641 37450 47782 37739 34743 36563
15th/22nd ‘872’ 910 5 33760 46632 80233 36973 38084
1st/8th 1200/10 10230/12165 ‘831’ 504 6 31139 37392 42978 37931 35610 37473
15th/22nd ‘831’ 902 5 38249 33434 30345 88456 34983

Tuesday

2nd/9th 0600/10 15945/16945 ‘438’ 510 6 39786 35782 82363 42424 32932 41372
16th/23rd ‘438’ 906 5 32463 46988 41753 39183 89990
2nd/9th 0700/15 5430/6780 ‘374’ 806 5 39746 37407 42648 82321 40945
16th/23rd ‘374’ 860 5 37805 33322 36248 32702 53623
2nd/9th 0730/40 7365/11655 ‘427’ 915 6 47464 47479 39786 35782 82363 42424
16th/23rd ‘427’ 593 6 88613 39362 31811 44806 30780 30618
2nd/9th 0800/10 14373/12935 ‘352’ 840 6 43974 42423 35056 32831 31737 34194
16th/23rd ‘352’ 804 6 37218 30443 35801 32940 46873 81279
2nd/9th 1000/10 6440/5660 ‘893’ No reports
16th/23rd ‘893’ 540 6 43760 33096 47841 44893 44530 33463
2nd/9th 1100/10 6810/7560 ‘754’ 931 6 48850 68867 20333 86736 48797 18672

16th/23rd			'754' 263 8 38838 85942 42085 83513 32647 30181 39033 31747
2nd/9th	1500/10	6666/7744	'537' No reports
16th/23rd			'537' No reports

Wednesday

3rd/10th	0530/40z	11565/12560	'464' 218 5 42997 94184 47374 74154 08531
17th/24th			'464' 903 5 35813 35212 43851 45385 49844
3rd/10th	0730/40	12110/14977	'745' 903 6 52401 63919 92699 14600 74248 65125
17th/24th			'745' 962 8 32618 41322 86067 35487 44036 36860 37188 48253
3rd/10th	0820/30	9485/11085	'471' 830 5 33796 13577 74526 46647 79302
17th/24th			'471' 528 6 38021 33619 32714 35329 93102 44786
3rd/10th	1000/10	14580/16020	'729' 410 5 88620 58069 61732 74537 57440
17th/24th			'729' 540 6 32527 36393 36783 86934 43133 30314

Thursday

4th/11th	0800/10	16780/12850	'674' 259 8 52401 63919 92699 14600 74248 48754 65125 41879
18th/25th			'674' 982 5 80744 86200 87706 42227 61735
4th/11th	0900/10	6844/7161	'624' 981 5 82045 36717 24042 75956 31670
18th/25th			'624' 871 5 96320 01405 15003 24357 60583
4th/11th	0900/10	12952/13565	'167' 935 8 21767 53672 11834 81022 36903 41412 55678 09775
18th/25th			'167' 489 5 20534 11160 43494 37638 16070
4th/11th	0930/40	9255/10325	'314' 829 5 48115 24151 51802 23807 15521
18th/25th			'314' 825 6 88569 89617 25757 77159 92255 84090
4th/11th	1200/10	13145/14535	'425' 831 6 33584 40485 46170 43306 37796 85258
18th/25th			'425' 930 6 16945 80744 86200 84705 42227 61736

Friday

5th/12th	0600/10	7845/9125	'196' 835 7 37184 36129 33983 83321 85246 32993 32539
19th/26th			'196' 480 5 83086 62020 83138 39760 18969
5th/12th	0930/40	10290/9655	'516' 803 7 64930 98706 12452 96740 14056 65830 01755
19th/26th			'516' 207 8 46062 68672 97478 39685 30485 96632 52537 53317

Saturday

6th	1200/10	12460/10250	'254' Too weak to copy
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Thanks to RNGB, JkC, Malc, Spectre, Ed Smith

S11a log May/June

4870kHz	1955z	01/05 [371/00] Конец 1953z Strong QRM1 QSB1	JkC	FRI
	1955z	06/05 [371/00] Good	RNGB	WED
	1955z	08/05 [371/00] Out 1958z S9	Malc	FRI
	1955z	15/05 [372/37 00763.....32351]	Malc	FRI
	1955z	22/05 [371/00]	RNGB	FRI
	1955z	27/05 [371/00]	Malc	WED
	1955z	10/06 [371/00] S9+10	Malc	WED
	1955z	24/06 [371/00]	RNGB	WED
5149kHz	0455z	01/05 [321/00] Конец 0458z Strong QRM1 QSB1	JkC	FRI
	0455z	29/05 [321/00] Конец 0455z	Ed Smith	FRI
	0455z	23/06 [326/33 30910 14017 01065 71093 72901 68204 83695 52836 07572..... 22737 99077] Конец 0510z	Ed Smith	TUE
	0455z	30/06 [321/00]	Ed Smith	TUE
8530kHz	0915z	01/05 [484/00] Конец 0918z Strong QRM1 QSB1	JkC	FRI
	0915z	05/05 [484/37 74863 97273 77630 03075 25948 62528 87041 25906.....75431 98455]	RNGB	TUE
	0915z	26/05 [484/00]	RNGB	TUE
	0915z	02/06 [484/00] Weak	RNGB	TUE
	0915z	09/06 [484/00]	Malc	TUE
	0915z	23/06 [484/31 26158 99020 16017 81066 65967 14857 01248 95555 31380.....46750 42539] Конец 0925z	Ed Smith	TUE
	0915z	30/06 [484/00]	Ed Smith	TUE
11581kHz	1020z	01/05 [426/00] Конец 1023z Strong QRM1 QSB1	JkC	FRI
	1020z	08/05 [426/00]	Malc	FRI
	1020z	12/05 [424/38 73090 56443 50245 88660 65025 13068 33750 83615 08815.....48947 14453] Конец 1032z	Ed Smith	TUE
	1020z	15/05 [424/38 ВНИМАНИЕ 73090 56443.....] Repeat of Tuesday	Ed Smith	FRI
	1020z	22/05 [426/00]	RNGB	FRI
	1020z	29/05 [426/00]	Ed Smith	FRI
	1020z	09/06 [426/00]	Malc	TUE
	1020z	16/06 [420/38 49468 51422 13414 92530 55336 47243 43630..... 53682 08682]	Spectre	TUE
	1020z	30/06 [426/00]	Ed Smith	TUE

V02a

V02a 7554kHz 2000z 28/5 [A35632 48051 62481] 35632 R5
33030 38465 07558 35058 87125 68405 40804 03036 36735 72616
71207 00670 42783 46002 33283 31787 86706 55178 60600 26710
47317 63752 then into M08a. Transmitted 22 5FGs before switching to M08a. Pause after every 10 groups. THU

V07

May 2015

June 2015

V21 Logs and analysis.

Logs as are below:

30

Polytones**XPA c****May 2015****Wednesday/Saturday**

0600z	10868kHz	0620z	12168kHz	0640z	13368kHz
02/05	813 000 07121 00001 00000 10140					Very strong
06/05	813 1 04322 00109 61780 41503					Strong
09/05	813 1 04322 00109 61780 41503					Strong
13/05	813 000 08829 00001 00000 10140					Very strong
16/05	813 000 06339 00001 00000 10140					Extremely strong
20/05	813 000 07804 00001 00000 10140					Very strong
23/05	813 000 08697 00001 00000 10140					Extremely strong
27/05	813 1 01158 00133 06696 06371					Extremely strong
30/05	813 1 01158 00133 06696 06371					Extremely strong

June 2015

0600z	11409kHz	0620z	13509kHz	0640z	13609kHz
03/06	456 000 08539 00001 00000 10140			[0640z weak]		Very strong
06/06	456 000 06797 00001 00000 10140					Very strong
10/06	456 000 05912 00001 00000 10140					Very strong
13/06	456 000 01779 00001 00000 10140					Very strong
17/06	456 1 09501 00123 32149 64076					Strong
20/06	456 1 09501 00123 32149 64076					Strong
24/06	456 000 05408 00001 00000 10140					Strong
27/06	456 000 06057 00001 00000 10140					Very strong

XPA e**May 2015****Tuesday/Thursday**

1730z	10438kHz	1750z	9938kHz	1810z	9138kHz
05/05	Very weak, unprocessable 5m08s duration.				
07/05	Poor Conditions, Nil copy				
12/05	491 000 02367 00001 00000 10140					Very weak, QSB3/4
14/05	491 1 00370 00155 83782 50612					Very weak
19/05	491 1 00370 00155 83782 50612					Weak to strong
21/05	491 000 09357 00001 00000 10140					Strong
26/05	491 1 04660 00233 16036 15251					Fair
28/05	491 1 04660 00233 16036 15251			[1730z XJTQRM5]		Fair

June 2015

1730z	10348kHz	1750z	9938kHz	1810z	9138kHz
02/06	491 000 04567 00001 00000 10140					Strong
04/06	491 09930 00215 93732 36764					Fair
09/06	491 1 09930 00215 93732 36764					Strong

11/06	491 1 03135 00199 13443 57460	[1730z XJTQRM5]	Fair QRM3
16/06	491 1 03135 00199 13443 57460		Fair but noisy
18/06	491 000 06423 00001 00000 10140		Fair
23/06	491 000 (08698) 00001 00000 10140		Very weak, QSB3
25/06	491 000 01770 00001 00000 10140		Weak
30/06	491 000 06628 00001 00000 10140		Strong

XPA2 m

May 2015

Sunday/Tuesday

2000z	14538kHz	2020z	13538kHz	2040z	12138kHz	
03/05	06548 00001 00000 10140					Very strong
05/05	09231 00001 00000 10140					Extremely strong
10/05	09071 00001 00000 10140					Extremely strong
12/05	04884 00001 00000 10140			[2000z distorted, Tx overdriven?]		Extremely strong
17/05	00752 00065 93389 30574					Extremely strong
19/05	00752 00065 93389 30574					Extremely strong
24/05	04378 00073 66682 32112					Strong
26/05	04378 00073 66682 32112			[2000z distorted, Tx overdriven?]		Extremely strong
31/05	04491 00001 00000 10140			[2000z distorted, Tx overdriven?]		Extremely strong

June 2015

2100z	14738kHz	2120z	13438kHz	2140z	12138kHz	
02/06	09950 00001 00000 10140					Very strong
07/06	03405 00001 00000 10140			[Distortion]		Very strong
09/06	09883 00001 00000 10140					Strong
14/06	04502 00073 61179 51056					Very strong
16/06	04502 00073 61179 51056					Strong
21/06	03566 00068 56045 10102					Extremely strong
23/06	03566 00068 56045 10102					Extremely strong
28/06	04108 00001 00000 10140					Extremely strong
30/06	07889 00001 00000 10140					Extremely strong

XPA2 p

May 2015

Sunday/Friday

1500z	16314kHz	1520z	15814kHz	1540z	14514kHz	
01/05	03441 00181 45770 57376					Very strong
03/05	04771 00001 00000 10140					Extremely strong
08/05	06918 00091 13082 14605					Very strong
08/05	06918 00091 13082 14605					Extremely strong
15/05	02947 00173 91888 61772					Very strong
17/05	02947 00173 91888 61772					Very strong

24/05	07319 00001 00000 10140	Extremely strong
29/05	05875 00119 58003 56532	Very strong
30/05	05875 00119 58003 56532	Extremely strong

June 2015

Tuesday/Thursday

1900z	15884kHz	1920z	14984kHz	1940z	14384kHz	
02/06	01275 00117 44626 06676					Very strong
04/06	01275 00117 044626 06676					Very strong
09/06	06690 00089 07583 45727		[1900z Distorted]			Extremely strong
11/06	01669 00001 00000 10140					Very strong
16/06	07704 00001 00000 10140					Very strong
18/06	06227 00001 00000 10140					Very strong
23/06	00920 00103 64916 00413					Extremely strong
25/06	00920 00103 64916 00413		[1940z Weak]			Very strong
30/06	07945 00001 00000 10140					Extremely strong

XPA2 r

May 2015

Friday/Saturday

1900z	17462kHz	1920z	16114kHz	1940z	14828kHz	
01/05	05984 00001 00000 10140					Extremely strong
02/05	01729 00001 00000 10140					Strong
08/05	06491 00157 51095 56321					Strong
09/05	06491 00157 51095 56321					Extremely strong
15/05	05572 00001 00000 10140					Strong
16/05	01516 00001 00000 10140					Very strong
22/05	09527 00001 00000 10140					Strong
23/05	09527 00001 00000 10140					Strong
29/05	01693 00001 00000 10140					Extremely strong
30/05	05392 00001 00000 10140					Very strong, distorted

June 2015

2100z	16167kHz	2120z	14663kHz	2140z	13923kHz	
05/06	03720 00001 00000 10140					Extremely strong
06/06	02096 00001 00000 10140					Extremely strong
12/06	06825 00107 23585 40411					Weak to Fair
13/06	06825 00107 23585 40411					Very strong
19/06	03800 00001 00000 10140					Very strong
20/06	03800 00001 00000 10140					Extremely strong
26/06	01257 00103 36513 46733					Very strong
27/06	07530 00001 00000 10140					Very strong

HM01

HM01 continues to operate on the same schedules as in previous months with the last digit of the callups generally incrementing upwards with the 1600z broadcast each day. A few events of interest were noted during May/June and these are described below.

On 21/5 a new callup 11090 appeared at 2100z, this callup contained a 9 and ended in 0. Callups ending in a 0 tend to appear out of sequence in this time slot. The last digit began incrementing +1 the following day as is the norm with these callups.

On 25/5 all the last digits incremented upwards by two from the previous day, this was not corrected on subsequent days.

On 30/5 a callup containing a 9 appeared again (09501) it seems likely this would have appeared at 2100z on the 29th ending with 0 but this cannot be confirmed.

Several files with extensions of F1C and F1G were transmitted including, 36365770.F1G, 50780364.F1C, 36020862.F1G, 36125203.F1G, 50147235.F1C, 50505758.F1C, 50823255.F1C, 36023058.F1G, 50217840.F1C, 36737356.F1G, 50770436.F1C, 50178260.F1C and 36428265.F1G note as always that F1C file names begin 36 and F1G file names begin 50.

Not logged in the HM01 section but mentioned under the M08a reports are two HM01 events of interest. On 12/5 until 14/5 HM01 was mixed in with the morse transmission at 2300z. These HM01s sound garbled as the transmitter is in LSB/CW mode but it should be noted that on 14/5 the HM01 callups from 12/5 were sent. Then on 1/6 the same thing happened with HM01 transmitted in place of the morse in the 2300z slot, the HM01 callups were from 31/5, the same callups were transmitted in the 2300z time slot with or without morse being present until 16/6. This leads to a some speculation.

1. The recording for HM01 was left running on the computer and the morse recording was also run on that machine leading to the two transmissions mixing.
2. The fast morse 2300z transmission is sent from a different location than the other M08a schedules (co-located with the HM01 transmissions perhaps?)
3. The fast morse computer is used as a backup for HM01 in the event there is a problem with the main computer.
4. The operators sent two separate feeds to the same transmitter.

Given the evidence available 1 and 3 seem to be likely to be true.

On to the logs:

HM01 11435kHz 1600z 1/5 [48638 10686 62002 73018 54405 72103] FRI
HM01 11435kHz 1600z 2/5 [48639 10687 62003 63351 54406 72104] New callup position 4 63351 = 72246335.TXT SAT
HM01 11435kHz 1600z 3/5 [05741 57701 62004 63351 54407 72105] New callups positions 1 and 2 05741 = 78550574.TXT, 57701 = 36365770.F1G. SUN
HM01 11435kHz 1600z 4/5 [05741 57701 62005 63352 54408 72106] MON
HM01 11435kHz 1600z 5/5 [05742 57702 62006 63353 03641 72107] New callup position 5, 03641 = 50780364.F1C. TUE
HM01 11435kHz 1600z 6/5 [05743 57703 62007 63354 03641 62421] New callup position 6, 62421 = 07216242.TXT. WED
HM01 11435kHz 1600z 7/5 [05744 57704 62008 63355 03642 62421] THU
HM01 11435kHz 1600z 8/5 [05745 57705 62009 63356 03643 62422] FRI
HM01 11435kHz 1600z 9/5 [05746 57706 08621 63357 03644 62423] New callup position 3, 08621 = 36020862.F1G. SAT
HM01 11435kHz 1600z 11/5 [05748 57708 08622 84021 03646 62425] New callup position 4, 84021 = 80838402.TXT. MON
HM01 11635kHz 2100z 11/5 [05748 11090 08622 84021 03646 62425] New callup in position 2 since 1800z, 11090 = 87301109.TXT. MON
HM01 11435kHz 1600z 12/5 [05749 11091 08623 84021 03647 62426] TUE
HM01 11435kHz 1600z 13/5 [60641 11092 08624 84022 03648 62427] New callup position 1, 60641 = 68176064.TXT. WED
HM01 11435kHz 1600z 14/5 [60641 11093 08625 84023 52031 62428] New callup position 5, 52031 = 36125203.F1G. THU
HM01 11435kHz 1600z 15/5 [60642 11094 08626 84024 52031 62429] FRI
HM01 11435kHz 1600z 16/5 [60643 11095 08627 84025 52032 71241] New callup position 6, 71241 = 04177124.TXT SAT
HM01 11435kHz 1600z 16/5 [60644 11096 08628 84026 52033 71241] SUN
HM01 11435kHz 1600z 16/5 [60645 11097 64371 84027 52034 71242] New callup position 3, 64371 = 87216437.TXT. MON
HM01 11435kHz 1600z 16/5 [60646 11098 64371 84028 52035 71243] TUE
HM01 11435kHz 1600z 20/5 [60647 11099 64372 84029 52036 71244] WED
HM01 11435kHz 1600z 21/5 [60648 61771 64373 72351 52037 71245] New callups positions 2 and 4, 61771 = 71376177.TXT, 72351 = 50147235.F1C. THU
HM01 11435kHz 1600z 22/5 [73681 61771 64374 72351 52038 71246] New callup position 1, 73681 = 30547388.TXT. FRI
HM01 11435kHz 1600z 23/5 [73681 61772 64375 72352 52521 71247] New callup position 5, 52521 = 83842525 SAT
HM01 11435kHz 1600z 24/5 [73682 61773 64376 72353 52521 57581] New callup position 6, 57581 = 50505758.F1C SUN
HM01 11435kHz 1600z 25/5 [73684 61775 64378 72355 52523 57582] They appear to have skipped a day. MON
HM01 11435kHz 1600z 26/5 [73685 61776 32551 72356 52524 57583] New callup position 3, 32551 = 50823255.F1C TUE
HM01 11435kHz 1600z 27/5 [73686 61777 32551 72357 52525 57584] WED
HM01 11435kHz 1600z 28/5 [73687 37161 32552 72358 52526 57585] New callup position 2, 37161 = 38383716.TXT THU
HM01 11435kHz 1600z 29/5 [30581 37161 32553 72359 52527 57586] New callup position 1, 30581 = 36023058.F1G FRI
HM01 11435kHz 1600z 30/5 [30581 37162 32554 09501 25258 57587] New callup position 4, 09501 = 30670950.TXT SAT
HM01 11435kHz 1600z 31/5 [30582 37163 32555 09502 25259 57588] Note callup 4 contains a 9 and the last digit incremented on day 2. SUN

HM01 11435kHz 1600z 1/6 [30583 37164 32556 09503 30021 57589] New callup position 5, 30021 = 71463002.TXT. MON
HM01 11435kHz 1600z 2/6 [30584 37165 32557 09504 30021 02721] New callup position 6, 02712 = 76420272.TXT. TUE
HM01 11435kHz 1600z 3/6 [30585 37166 78401 09505 30022 02721] New callup position 3, 78401 = 50217840.F1C. WED
HM01 11435kHz 1600z 4/6 [30586 37167 78401 09506 30023 02722] THU
HM01 11435kHz 1600z 5/6 [30587 37168 78402 09507 30024 02723] FRI
HM01 11435kHz 1600z 6/6 [57771 42331 78403 09508 30025 02724] New callups positions 1 and 2, 57771 = 43325777.TXT, 42331 = 46824233. SAT
HM01 11435kHz 1600z 7/6 [57771 42331 78404 26171 30026 02725] New callup position 4, 26171 = 82882617.TXT. SUN
HM01 11435kHz 1600z 8/6 [57772 42332 78405 26171 30027 02726] MON
HM01 11435kHz 1600z 9/6 [57773 42333 78406 26172 55821 02727] New callup position 5, 55821 = 80715582.TXT. TUE
HM01 11435kHz 1600z 10/6 [57774 42334 78407 26173 55821 02728] WED
HM01 11435kHz 1600z 11/6 [57775 42335 81061 26174 55822 15461] New callups positions 3 and 6, 81061 = 88618106.TXT, 15461 = 51871546.TXT. THU
HM01 11435kHz 1600z 12/6 [57776 42336 81061 26175 55823 15461] FRI
HM01 11435kHz 1600z 13/6 [57777 42337 81062 26176 55824 15462] SAT
HM01 11435kHz 1600z 14/6 [57778 38771 81063 26177 55825 15463] New callup position 2. 38771 = 85243877.TXT. SUN
HM01 11435kHz 1600z 15/6 [56121 38771 81064 76871 55826 15464] New callups positions 1 and 4, 56121 = 82605612.TX, 76871 = 02317687.TXT. MON
HM01 11435kHz 1600z 16/6 [56121 38772 81065 76871 55827 15465] TUE
HM01 11435kHz 1600z 17/6 [56122 38773 81066 76872 55828 15466] WED
HM01 11435kHz 1600z 18/6 [56123 38774 81067 76873 55829 15467] THU
HM01 11435kHz 1600z 19/6 [56124 38775 81068 76874 73561 15468] New callup position 5, 73561 = 36737356.F1G. FRI
HM01 11435kHz 1600z 20/6 [56125 38776 81069 76875 73561 04361] New callup position 6, 04361 = 50770436.F1C. SAT
HM01 11435kHz 1600z 21/6 [56126 38777 27031 76876 73562 04361] New callup position 3. 27031 = 84542703.TXT. SUN
HM01 11435kHz 1600z 22/6 [56127 38778 27031 76877 73563 04362] MON
HM01 11435kHz 1600z 23/6 [56128 38779 27032 82601 73564 04363] New callup position 4, 82601 = 50178260.F1C. TUE

HM01 11435kHz 1600z 25/6 [44331 04431 27034 82602 73566 04365] New callup positions 1 and 2 (probably were present during wednesday's missed TX. 44331 = 62774433.TXT, 04431 = 36510443.TXT. THU
 HM01 11435kHz 1600z 26/6 [44332 04432 27035 82603 73567 04366] FRI
 HM01 11435kHz 1600z 27/6 [44333 04433 27036 82604 28161 04367] New callup position 5, 28161 = 18852816.TXT. SAT
 HM01 11435kHz 1600z 28/6 [44334 04434 27037 82605 28161 82651] New callup position 6, 82651 = 36428265.FIG. SUN
 HM01 11435kHz 1600z 29/6 [44335 04435 27038 82606 28162 82651] MON
 HM01 11435kHz 1600z 30/6 [44336 04436 45851 82607 28163 82652] New callup position 3, 45851 = 24724585.TXT. TUE

Others' logs:

May 2015

10345kHz0630z	03/05[48639 10687 62003 63351 54406 72104] QSA2	DanAR	SUN
10715kHz2230z	04/05[05741 57701 62005 63352 54408 72106] QSA2	DanAR	MON
2230z	11/05[05748 11090 08622 84021 03646 62426] QSA2 QSB2	DanAR	MON
2230z	13/05[60641 11092 08624 84022 03648 62427] QSA2	DanAR	WED
11635kHz0800z	05/05 [numbers and digi mode] Strong	GS	TUE
16180kHz2130z	05/05[05742 57702 62006 63353 03641 72107] QSA1	DanAR	TUE
17480kHz2200z	07/05[05744 57704 62008 63355 03643 62421] QSA3	DanAR	THU
2200z	12/05[05749 11091 08623 84021 03647 62426] QSA3	DanAR	TUE
2230z	14/05[60641 11093 08625 84023 52031 62428] QSA2	DanAR	THU
2230z	16/05[60643 11095 08627 84025 52032 71241] QSA1	DanAR	SAT
13435kHz0718z	18/06 [numbers and digi mode] QSA4 QSB2	Sch	THU

June 2015

10715kHz2200z	10/06[57774 42334 75407 26173 55821 02728] QSA2	DanAR	WED
2200z	19/06[56124 38877 81068 76874 73561 15468] QSA2	DanAR	FRI
2100z	26/06[44332 04432 27035 82603 73567 04366] QSA2	DanAR	FRI
2230z	28/06[44334 04434 27037 82605 28161 82651] QSA2	DanAR	SUN
16180kHz2130z	13/06[57777 42337 81062 26176 55824 15462] QSA2	DanAR	SAT
2100z	16/06[56121 38772 81065 76871 55827 15465] QSA1	DanAR	TUE
2130z	25/06[44331 04431 27034 82602 73566 04365] QSA2	DanAR	THU
17480kHz2200z	02/06[30584 37165 32557 09504 30021 02721] QSA2	DanAR	TUE
2230z	04/06[30586 37167 78401 09506 30023 02726] QSA3	DanAR	THU
2200z	18/06[56123 38774 81067 76873 55829 15467] QSA3	DanAR	THU
2200z	27/06[44333 04433 27036 82604 28161 04367] QSA2	DanAR	SAT

Interesting analysis from PoSW at the GB end:

Somewhat disappointing results from the Cuban Mixed Mode station, signals usually improve somewhat as we move into summer, at least this has been the case in past years, not quite the case this year plus low audio, i.e. the depth of modulation not always as good as it could be, often making for difficult copy when signals are down in all the local noise QRM which infects the short wave bands these days. The clocks continue to run fast in Cuba, apparently, the start-up time advances by a second or so every couple of days, beginning about two-and-a-half minutes before the hour in mid-June on those occasions when the signal can be copied.

6-May-15, Wednesday:- 0758 UTC, 9,065 kHz, "05742 57702 62006 63353 03641 72107".
 S8 to S9, data noise started 0801:20s UTC.

12-May-15, Tuesday:- 0758 UTC, 13,435 kHz, weak signal down in the noise, unreadable.

18-May-15, Monday:- 0658 UTC, 9,330 kHz, "60644 11096 08628 84026 52033 71241".
 S9 carrier but audio seemed low in relation to carrier strength. Data at 0701 UTC.

20-May-15, Wednesday:- 0758 UTC, 9,065 kHz, starting up, S6 to S7 but low audio, difficult copy.

21-May-15, Thursday:- 0658 UTC, 13,435 kHz, "60647 11099 64372 84029 52036 71244",
 S5 to S6, audio better than of late.
 0758 UTC, 11,635 kHz, 5Fs as earlier, audio not too bad.

22-May-15, Friday:- 0701 UTC, 9,240 kHz, calling up on the wrong frequency, expected it to be on 9,330 at this time. "60648 61771 64373 72351 52037 71245". Someone realised their error, vanished from 9,240 and came up on 9,330 kHz, call-up carried on until after 0704 UTC.

30-May-15, Saturday:- 0658 UTC, 14,375 kHz, S7 to S8 with *excellent* audio, best copy from HM01 for a while - but on the wrong frequency, 13,435 should be in use at this time, "30581 37161 32553 09500 25257 57586". Vanished at approx 0659:30s UTC, came up on 13,435 kHz around 0700 UTC, S9 and still with excellent audio.
 0828 UTC, minus 25s approx, 11,635 kHz, starting up after the break, 5Fs as earlier, peaking S9 with deep QSB and excellent audio.

31-May-15, Sunday:- 0658 UTC minus 25s, 9,330 kHz, the audio fix didn't last for long, S9 carrier but low modulation making for difficult copy.

1-June-15, Monday:- 0658 UTC, minus 26 seconds approx, 10,345 kHz, "30582 37163 32555 09502 25259 57588". Over S9 with reasonable audio but clipped and distorted at first.

0658 minus 26s UTC, 9,330 kHz, 5Fs as earlier, S9 with deep QSB and reasonable audio.

2-June-15, Tuesday:- 0628 UTC, 14,375 kHz, starting up after the break, “30583 37164 32556 09503 30021 57589”, peaking S9 with good audio. 0658 UTC minus 29 seconds, or 0657 UTC and 31 seconds, 14,375 kHz - again. On the wrong frequency, someone forgot to QSY to 13,435. 5Fs as earlier but weaker, S6 at best, into data noise at 0701:55s UTC. When checked at 0728 UTC had gone from 14,375 and was on 13,435 kHz having moved at some time during the previous half-hour, not too strong, S5.

3-June-15, Wednesday:- 0557:30s UTC, 10,345 kHz, “30584 37165 32557 09504 30021 02721”. S9 with good audio.

9-June-15, Tuesday:- 0728 UTC, 13,435 kHz, weak signal down in the noise, unreadable.

11-June-15, Thursday:- 0706 UTC, 13,435 kHz, transmission in progress, S7 to S8 with the usual fading - but unusually good audio, best copy from HM01 for a while. “57774 42334 78407 26173 55821 02728”..

12-June-15, Friday:- 0557:20s UTC, 10,345 kHz, “57775 42335 81061 26174 55822 15461”, S9 carrier, audio somewhat low but readable.

18-June-15, Thursday:- 0728 UTC, 13,435 kHz, “56122 38773 81066 76872 55828 15466”, S7 to S8 with deep fading. 0758 UTC, 11,635 kHz, weak signal, difficult copy.

19-June-15, Friday:- 0627 and 15 seconds UTC, to be exact, 10,345 kHz, “56123 38774 81067 76873 55829 15467”, S9, audio low but readable. 0657 and 15 seconds UTC, 9,330 kHz, 5Fs as earlier, S8 with the usual QSB.

20-June-15, Saturday:- 0627 :15s UTC, 14,375 kHz, “56124 38775 81068 76874 73561 15468”, audio still seems to be low, 0657:15s - starting up on 14,375 kHz again, wrong frequency. Vanished and showed up on the correct one, 13,435.

25-June-15, Thursday:- 0628 UTC, call-up after the break in progress, 14,375 kHz, “44331 04431 27033 82601 73565 04364”, data at 0630:30s UTC, S7 to S8, best copy from HM01 for several days, 0657:10s UTC, starting almost three minutes before the hour, 5Fs as earlier, S7 with deep QSB.

HM02 - Believed possible variant of Russian Family 1.

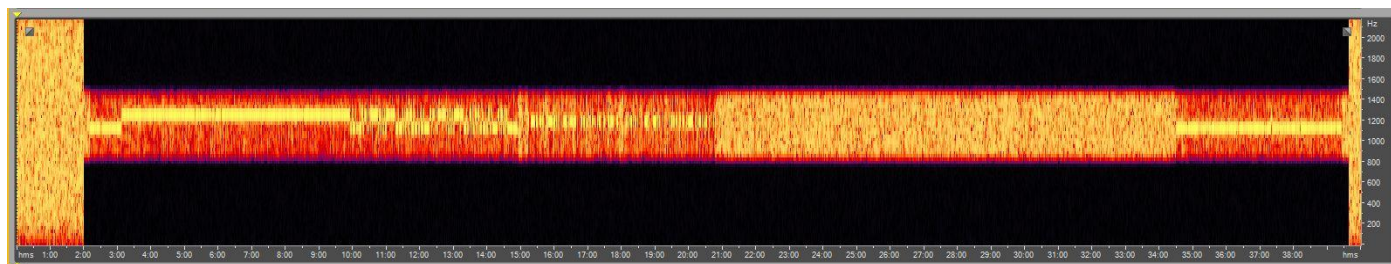
Station under investigation. Schedules are varied & short-lived

April/May schedule: Daily.

7351kHz 0500 - 0530z (Late April - 08 May) 0530 - 0600z (09 May onwards)

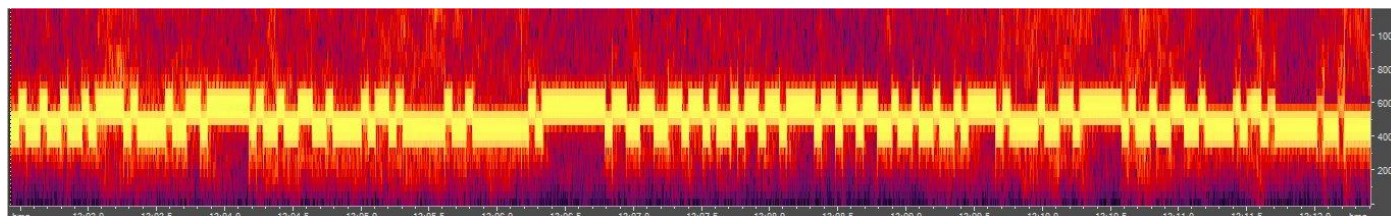
When first monitored in late April 2015 the schedule was from 0500 - 0530z with carrier up around 0500z (variable) FSK data transmission 0510 - 0515z Morse msg following at 0515z. Repeat of msg almost immediately. (Ending variable due to msg length)

From Sat 09 May the schedule was changed to 0530 - 0600z with carrier up around 0530z (variable) FSK data 0540 - 0545z & Morse msg from 0545.



HM02 Mon 04 May 2015 Complete Transmission showing Tone, FSK & Morse

Courtesy PLdh



HM02 Fri 01 May 2015 Sample of FSK Transmission

Courtesy BR

Morse characteristics:

Auto-sent CW. Single 5-fig groups. Short zero. Ends 0 0 0 (Usually long dashes - but short dashes reported on 11 May).

Morse msg Logs

May 2015:

All logs monitored on 7351kHz

0515 - 0522z	01 May	999 374 35 = 64888 47677 =	Strong	Tone from 0504z & also for < 1min at 0534z	FRI
0515 - 0521z	02 May	999 127 24 = 89435 16730 =	Good		SAT
0515 - 0521z	03 May	999 127 30 = 38763 57494 =	Good	Tone from 0504z	SUN
0515 - 1521z	04 May	999 541 26 = 58723 91218 =	Strong	Tone from 0502z & also for 5secs. at 0532z	MON
0515 - 1521z	05 May	999 749 27 = 61476 90489 =	Strong	Tone from 0452z	TUE
0515 - 1521z	06 May	999 921 27 = 69718 64511 =	Strong	Tone from 0500z 10 'dits' test prior to Morse msg	WED
0546 - 0552z				Tone from 0537z Full repeat of transmission inc. FSK	WED
0515 - 1521z	07 May	999 275 27 = 27217 71365 =	Strong	Tone from 0504z & also for 3 mins. at 0532z	THU
0510 - 1522z	08 May	999 867 31 = 83117 23860 =	Fair	Tone from 0458z Deep QSB on signal	FRI
0545 - 0552z				Tone from 0539z Full repeat of transmission inc. FSK	FRI

From Sat 09 May, following what may have been trial test transmissions on Wed 06 & Fri 08 May, the schedule changed to a 0530 - 0600z timing. Also, from the following Monday, 11 May, a broadcast station has occupied 7350kHz until 0530z, so it is quite possible that HM02 was aware of this & moved accordingly.

On the later schedule, the tone appears from approximately 0530z, FSK at 0540z & Morse followed at 0545z. (Timings are to the nearest minute)

0545 - 0551z	09 May	999 651 27 = 62705 33873 =	Fair	Tone from 0517z FSK 0540z Morse 0545z	SAT
0545 - 0552z	10 May	999 329 29 = 02286 75820 =	Strong	Tone from 0536z	SUN
0545 - 0551z	11 May	999 146 29 = 57836 96653 =	Strong	Tone from 0530z Ending 0 0 0 using SHORT dashes	MON
0545 - 0551z	12 May	999 497 28 = 35884 76125 =	Strong	Tone from 0525z	TUE
0545 - 0552z	13 May	999 521 30 = 01118 85498 =	Fair	Tone from 0528z	WED
0645 - 0652z			Weak	Tone from 0628z Full repeat of transmission inc. FSK	WED
0545 - 0552z	14 May	999 765 30 = 46103 ... 33652 =	Fair	Tone from 0528z & also form 0603 - 0605z	THU
0530 - 0700z	15 May	NRH			FRI
0530 - 0700z	16 May	NRH			SAT

No further transmissions heard.

There is usually a manual test made prior to the FSK transmission consisting of a few characters. A similar test has also been noted before the Morse message, although this is much less common.

HM02 7351kHz 0510z 01 May15
(Morse msg)
999 374 35 =
64888 78854 54850 11917 25864 46129 21780 82030 54678 07773 36419 37956 95579 04251 92577 99358 22071 92600 08966 74055 79409 55424 73973 36452 32444 71097 09572 60494 90173 66930 68393 82567 13859 45135 47677 =
374 35 [Pause 12 secs]
374 35 = (repeat of msg) =
374 35 0 0 0
<i>Courtesy BR</i>

HM02 7351kHz 0510z 02 May15
(Morse msg)
999 127 24 =
89435 18472 50446 57277 63598 47292 14469 42910 91657 44185 18751 95560 61381 52692 11657 54563 31629 14078 11728 63637 98376 28004 57219 16730 =
127 24 [Pause 10 secs]
127 24 = (repeat of msg) =
127 24 0 0 0
<i>Courtesy PLdn</i>

HM02 7351kHz 0510z 03 May15
(Morse msg)
999 127 30 =
38763 74737 75374 57647 19805 34343 66210 01880 70688 37060 66429 72679 43556 34095 56004 21377 22187 00633 31492 48025 27917 99218 80609 88696 79450 04241 42834 05399 16171 57494 =
127 30 [Pause]
127 30 = (repeat of msg) =
127 30 0 0 0
<i>Courtesy JkC</i>

Jim (JkC) Logs

HM02 7351kHz 0500z 04May JkC
 Idle - tone @ 805Hz (0502z-0510z)
 Slow UNID FSK, 125Hz shift, tones @ 680Hz/805Hz (0510z-0515z)
 (CW starts 0515z)
 999 541 26 =
 58723 12919 42738 47221 48531 20729 49468 70975
 56370 90970
 45765 00920 91045 90216 74561 59398 40715 74357
 46806 79750
 77180 45430 66463 82131 61623 91218
 = 541 26
 541 26 =
 (repeat)
 = 541 26 000

HM02 7351kHz 0500z 05 May JkC
 Idle - tone @ 805Hz (0457z-0510z)
 Slow UNID FSK, 125Hz shift, tones @ 680Hz/805Hz (0510z-0515z)
 (CW starts 0515z)
 999 749 27 =
 61476 24477 72565 47185 42073 03471 32434 79652
 76598 84050
 85282 99732 54160 73558 02029 65209 78119 66503
 88669 43435
 59433 98854 32417 57809 96631 79207 90489
 = 749 27
 749 27 =
 (repeat)
 = 749 27 000

HM02: Initial tone for on 08 May was inverted, 680Hz instead of 805Hz. The tone at the end of the FSK was 805Hz, as normal. Up 16 minutes late on 09May and idled for 25 minutes, instead of 10. This is the first Saturday sked I have copied, so don't know if this is the norm.

HM02 7351kHz 0500z 08 May JkC
 Idle - tone @ 680Hz (0500z-0510z)
 Slow UNID FSK, 125Hz shift, tones @ 680Hz/805Hz (0510z-0515z)
 (CW starts 0515z)
 999 867 31 =
 83117 64559 46942 56090 43476 21873 52346 94071
 39185 78693
 02182 44787 07191 23924 19118 73353 46062 96033
 04255 74382
 65464 43275 63330 05140 78579 01708 30182 76070
 64682 81809
 23860
 = 867 31
 867 31 =
 (repeat)
 = 867 31 000

HM02 7351kHz 0500z 09 May JkC
 Quiet (0500-0516z)
 Idle - tone @ 805Hz (0516z-0540z)
 Slow UNID FSK, 125Hz shift, tones @ 680Hz/805Hz (0540z-0545z)
 (CW starts 0545z)
 999 651 27 =
 62705 20780 67429 75651 67661 69265 18042 08845
 14493 26666
 04969 21956 92630 69111 20448 87251 89234 93190
 20098 68259
 56279 82201 13307 52323 35073 39610 33873
 = 651 27
 651 27 =
 (repeat)
 = 651 27 000

Logs & Notes from PLdn

7351kHz 0502z Mon 04 May PLdn

Today's HM02, started late at 0502z as expected but looked as though it was ready for another sending.

0502z Start tone [Space 1108Hz]
 0503z Short FSK msg [~2.5s] then into Mark tone [1236Hz]
 0509z FSK for 4m41s, ends on Space tone

Into Morse characters 8s after end of Space one. Characters tone 1170Hz

999 541 26 = 58723 ... 91218 541 26
 541 26 = 58723 ... 91218 541 26 0 0 0

Ends 0519z

However, 13mins later start tone up 5s; test or suggestion of a restart?

7351kHz 0500z Wed 06 May15 Strong PLdn

FSK 4m00s followed by Morse:

999 921 27 = 69718 ... 64511 = 921 27
 921 27 = 69718 ... 64511 = 921 27 0 0 0

Then all repeated again, ending at 0552z

Note std gap measured as 300ms, every tenth group measured as 400ms

7351kHz 0450z Sat 09 May15 PLdn

0450z to 0559z

Signals Fair with QSM3/4, local noise

At 0508z 8.5s data sent.

0517z Carrier [Space tone 1108Hz] up for 23 mins
 0540z into FSK for 4m55s into residual carrier [in space] for ~14s

10s nil sigs

0545 into Morse:

999 -851 27 = 4-705 ... 33873 = 851 27 0 0 0 0551z

Auto monitoring ended 0559z

Presume no repeat as Morse ended 0 0 0

7351kHz 0535z Sun 10 May15 PLdn

0535z Carrier, in space up (1103Hz) 2m00s, 1m25s High (1228Hz), 1m20s low
 0540z FSK 4m41s and 43s carrier

0546z Morse
 999 329 29 =
 02286 97569 76789 44727 77771
 92262 75661 35566 68909 34055
 08148 19667 37756 91875 89178
 75283 26655 09979 56097 47581
 60346 25481 76882 95991 78273
 67897 94225 36505 75820 =
 329 29

0549z
 329 29 =
 Msg txt =
 329 29 0 0 0 0552z

Std gap ~400ms, after 10 gps ~600ms

A number of data bursts seen at 0500, 0507, 0508, 0509, 0523z, all ~8s duration with another of 10s duration ~10s

Contributors: AB, BR, PLdn, JkC, westt1us - Thanks to all contributors for their excellent logs & monitoring of this station.

HM02	7351kHz	0540z	12 May15
(Morse msg)			
999	497 28 =		
35884	90810 54941 75885 93257		
94794	00035 14736 49805 37729		
03858	55498 66958 73727 29155		
27821	03238 41462 32047 75017		
66536	96914 75090 69170 54293		
17515	67491 76125 =		
497 28			
497 28 =	(Repeat of msg)		
497 28 000			
			Courtesy AB

HM02	7351kHz	0545z	13 May15
(Morse msg)			
999	521 30 =		
01118	99238 34749 84834 02716		
77613	26400 21851 65786 06718		
17217	42348 55867 70545 72681		
80363	46223 76348 10232 18936		
86122	62368 72555 19124 26343		
76266	87155 49032 51143 85498 =		
521 30			
521 30 =	(Repeat of msg)		
521 30 000	(0551z)		
			Courtesy E.SMITH

HM02	7351kHz	0545z	14 May15
(Morse msg)			
999	765 30 =		
46103	77616 01170 10484 76766		
28696	94913 56457 07357 13794		
94434	33975 55597 91539 62499		
65803	78079 73918 79853 32236		
14981	69695 80567 15551 82162		
19519	93490 61038 20350 33652 =		
765 30			
765 30 =	(Repeat of msg)		
765 30 000	(0551z)		
			Courtesy E.SMITH

Contributors: AB, BR, PLdn, JkC, westt1us - Thanks to all contributors for their excellent logs & monitoring of this station

Crowd 36

19381kHz1222z 04/06 [In Progress] 1226z Fair QRN3 QSB3

Spectre

THU

Thanks to all those who have contributed logs and other pieces:

BR, JkC, PoSW, RNGB, Spectre, M8, BRIXMIS, JO, MoK, Ary, DoK, Karsten, IW, Christer, HGH, E, tiNG, DanAR X06 team, MaleAnon. PLdn, Schorshi

Apologies to anyone missed.

PoSW's Items of Interest in the Media:-

Uncle Sam still busy in the most unlikely of places:- From the *I* newspaper of 28-April comes a short item from their Bucharest, Romania, correspondent, Alison Mutler. "We hosted CIA 'black sites'" is the headline, and continues, "A former Romanian President has acknowledged approving the CIA's request for a site in Romania, but said he would have refused had he known how it would be used.

Ion Iliescu, President from 2000 to 2004, suggested he believed Romania had hosted CIA 'black sites'—prisons outside the US where suspected terrorists were subjected to harsh interrogation.

Romanian authorities had long denied reports they had hosted a CIA secret prison, but Mr Iliescu said last week he approved a request for a site in 2002–2003.

Mr Iliescu wrote on this blog yesterday that he 'would surely have taken another decision' if he had known what the CIA was doing".

Yes Mr Iliescu, of course you would, of course you would.

From the *Daily Telegraph*, also of 28-April, comes a piece which suggests that the German government are aware of what Uncle Sam is up to in their country. "Merkel knew about US spying years before row over NSA phone tapping" is the headline over a news item by

Justin Heggler in Berlin which says, "Angela Merkel's government knew of attempts by the US to spy on French authorities and European defence companies as long ago as 2008, it has been claimed.

Prosecutors are investigating allegations that the BND intelligence agency acted against German interests by spying on European targets on behalf of the US National Security Agency (NSA). But a report in *Bild* newspaper has now claimed that the BND informed Mrs Merkel's office about the operations as early as 2008.

Documents submitted to a German parliamentary inquiry show that Mrs Merkel's office was aware of the situation, the newspaper claimed. The potentially damaging allegations follow a diplomatic row over NSA spying in Germany. There was public anger when it emerged that the NSA had listed to Mrs Merkel's mobile phone calls.

The German chancellor made a personal complaint to Barack Obama about the phone tapping and federal prosecutors opened an investigation.

Sigmar Gabriel, Mrs Merkel's vice chancellor and the leader of her junior coalition partner, described the latest allegations as 'scandalous'. Mr Gabriel's Social Democrats were in opposition at the time of the alleged spying.

Mr Gabriel said: 'If this should prove to be true, it would be of an unprecedented level.'

The NSA is alleged to have passed 800,000 IP addresses, phone numbers and email addresses to the BND to monitor. The German spy agency allegedly followed up on 40,000

targets, including the defence companies Eurocopter and EADS, both now part of the Airbus Group, and the French authorities. *Bild* did not elaborate on what was meant by French authorities.

A separate report has claimed that the German government knew of the threat to civilian airliners over Ukraine before Flight MH17 was shot down last year.

A BND briefing which warned of the danger was submitted to the government two days before the airliner was downed, according to a report in *Süddeutsche Zeitung*. Airlines said the government had not passed the warning on."

Wars and rumours of wars:- Relations between Russia and The west go from bad to worse; What appears to be a cunning plan by NATO to encircle Russia has not gone down at all well in Moscow. The meddling by NATO and the European Union in Ukraine has led to an increase in tension, The European Union is thought to want Ukraine as a member because it possesses coal and possibly offshore oil and gas and there is great potential for agriculture development with regard to cereal crops, especially wheat, with the prospect of increased production with the application of modern farming methods. And of course, Western business men in labour-intensive enterprises are keen to find another source of cheap labour, especially true of the UK, where a huge influx of people from former Warsaw Pact nations has flooded the labour markets and forced down wages, the ultimate wet dream of any employer in the spheres of agriculture, horticulture, building and construction, and so on. My old history teacher always used to say that the war the British

Establishment always wanted was a war against Russia and he would talk about Winston Churchill's urging the government of the day to go to war against the newly established Communist regime immediately after the First World War to, as he said at the time, "Strangle Bolshevism in its infancy", and restore the Romanov dynasty - if he could find some Romanovs that hadn't been shot, no doubt. It must have really upset old Winston that events conspired to make the Russians allies of the British from late June 1941 onwards.

Even then, while the Soviets were officially "Our gallant Russian allies" for the rest of World War 2, we now know that the wartime Conservative - Labour coalition government was toying with a plan for a surprise attack on the Russians after the war against Germany had been won. Much of the plan is still secret and said to be locked away for a very long time indeed, but what is known is that it was given the provisional code name of "Operation Unthinkable" and was to be a copy of Herr Hitler's "Barbarossa" campaign but on an even bigger scale. The main bone of contention between the Churchill and the Labour Party leader was the timing, Churchill was sure he was going to win the 1945 General Election with a massive majority and would be in a position to go to war against the Russians in the summer of that year. In the event it was won by Labour's Clement Attlee and he was shrewd enough to realise that it would be several years before Britain would be ready, not least because he knew it was going to be difficult to persuade the British people to go to war against a nation which had been an ally, especially the widows and mothers of the men of the Royal and Merchant Navies who had perished on the convoy run taking war supplies to the Russians; it would take several years of war hysteria

to put the British people in a new fighting mood and it would also be dependant on huge supplies of munitions and foodstuffs from the United States of America supplied free, gratis and for nothing. And of course, once the Russians had the atomic bomb - which no one expected them to achieve for a decade or possibly two - their spies passed on the details of the American atomic weapons programme to Moscow, which speeded things up no end - no British government dared invade Russia for fear of atomic retaliation.

However, to come up to date the *Times* newspaper of 15-June carried an article by their Moscow correspondent, Ben Hoyle, which says, "The Pentagon is preparing to station enough tanks and other military hardware in eastern Europe to equip 5,000 US troops to reassure NATO allies who fear Russian aggression.

It will be the first time the US has permanently located armour and weaponry in NATO states which were once part of the Soviet Union. The move is all but certain to increase tensions with Moscow. The question of encroachment into what the Kremlin sees as Russia's natural sphere of influence lies at the heart of the stand-off over Ukraine.

The Pentagon proposal has not yet been signed off, but approval is expected before the NATO defence ministers meeting in Brussels this month. Technically they would be 'prepositioned' stocks, to be stored on allied bases but guarded by local servicemen or contractors, not by US troops. Enough equipment for 3,000 to 5,000 soldiers would be about 1,200 vehicles, including around 250 M1-A2 tanks, Bradley fighting vehicles and armoured howitzers, according to a senior official.

The amount of equipment involved is small compared to what Russia has used in military exercises close to the borders of the Baltic states, but would be the clearest signal yet of US determination to defend NATO allies who feel threatened by the Kremlin's annexation of Crimea and the Russian backed insurgency in Donetsk and Luhansk.

The war in east Ukraine has killed more than 6,400 people, hobbled the Ukrainian economy and dragged Moscow and the west into their most serious confrontation since the Cold War.

The Pentagon proposal is understood to be for hardware to be spread across Estonia, Latvia, Lithuania, Poland, Romania, Bulgaria and possibly Hungary. Most Russians, including policy makers, believe that the west has broken promises made at the end of the Cold War not to expand NATO eastwards. Western leaders argue that no such commitment was made, a point confirmed recently by Mikhail Gorbachev, the Soviet premier at the time.

However, a 1997 agreement between NATO and Russia that was supposed to lay the foundations for a new era of cooperation included a pledge by the alliance that 'in the current and foreseeable security environment' it would not seek 'additional permanent stationing of substantial ground combat forces' in the nations closer to Russia.

A deal was agreed at the NATO summit in Wales last year to beef up temporary rotations of NATO ground troops in Estonia, Latvia and Lithuania, but the three are seeking permanent garrisons.

Toomas Hendrik Ilves, the president of Estonia, said earlier this year that NATO promises of a 'very high readiness' task force, comprising 5,000 troops and able to deploy to the Baltic states in an emergency, was inadequate to counter a possible Russian invasion.

'It would get here in what, a week? But if you look at the exercises that are done by our neighbour, they're basically instantaneous. They're here and its over in four hours.'

President Putin said this month that 'only an insane person' could imagine that Russia would attack NATO. 'I think some people are taking advantage of people's fears,' he said.

Carl Bildt, the former Swedish prime minister, who has been a leading hawk in the European debate on how to counter Russian actions, tweeted: 'It would be a highly significant move if the US decides to preposition heavy military equipment in the Baltic states.'

James Stavridis, a former supreme allied commander of NATO, said that the Pentagon proposal marked a 'very meaningful shift in policy' that 'provides a reasonable level of reassurance to jittery allies.'

This took me back in memory to the time when the Soviet Union broke up and the three Baltic states declared their independence, sovereign nations again for the first time since Stalin incorporated them into the Soviet union. I remember one commentator on the TV news saying something to the effect that we shouldn't rejoice too much at this turn of events; the Russians, both under the rule of Czar Nicholas II - when they were part of the Russian empire - or under the Soviet regime - have always regarded these small countries as a part of the Russian state and make no mistake, whoever is in charge in Moscow will do anything and everything to get them back. The situation is made complicated by the presence of significant ethnic Russian minorities in all three countries, a legacy from the time when they were part of the Soviet Union, who are actively discriminated against by the majority populations. The situation has been compared with that with that which existed in Poland and Czechoslovakia in the 1930's where there were large ethnic German populations, an unfortunate consequence of the Treaty of Versailles, whose grievances gave Mr Hitler the excuse to get stuck in. All it needs is for these minorities in the Baltic states to cry out "We've had enough of this" - in Russian, of course - to give Putin the excuse he needs to invade under the pretext of protecting them. I have often wondered if some of that number station traffic is directed at ethnic Russian individuals in the Baltic states, " sleeper " agents, who are equipped with the necessary "one time pads" and are looking forward to the day when they decipher a message which reads something like, "Plan 'A' is about to kick off, we're on our way and will be with you by this time tomorrow."

And finally, some thoughts about the British General Election back in May, voting is not normally something I concern myself with since the constituency in which I reside is one of the Conservative Party's safest seats - the Tories could put up a red-rump baboon as a candidate in this district and provided the rosy-cheeked primate had a blue rosette attached to some part of its personage it would still receive more votes than all the other candidates put together. There is not much to choose between the two main parties, the Conservative and the Labour Party, any policy which has been implemented by either of them in the last several decades could have come from the manifesto of either of them but on balance the Conservatives are a slightly more bearable prospect than another Labour administration. So the fact that we now have a Conservative government with a small but workable majority is probably about the best of a not very impressive set of options. The nightmare for us in England was that neither

of the two main parties would have enough seats to form a government, but that Labour might form a coalition with the Scottish National Party, which almost completely eliminated Labour from Scotland, hitherto one of their main strongholds. This would mean the Scots having a disproportionate influence over the whole of the United Kingdom; I wish the Scots all the best for their endeavours with regard to Scotland but I would not want them calling the tune down here in England. Two of the smaller parties, relative newcomers, the Green Party and the United Kingdom Independence Party both received a healthy level of support from the electorate, almost four million votes in the case of UKIP, but because the UK has a "first past the post" system of voting, these two smaller parties only won one seat apiece. Several commentators pointed out that if we had a system of Proportional Representation, as is the case in some continental European countries, both of these parties would have won considerably more seats, perhaps into double figures, which might have livened things up a bit in Parliament and provided a more lively style of debate than the predictable, and largely pretend and fake, contrived theatrical performances of the two main parties.

Perhaps Labour's doom was sealed when Tony Blair appeared on the scene to speak up on their behalf - what on earth were they thinking of letting this individual loose on the campaign trail? Perhaps the situation is best summed up by an item on the *Breitbart London* website of 29-April and written by one Gerald Warner with the headline "Tony Blair; an instructive reminder of how Britain came to its present debacle", which starts with the opening paragraph, "On the first occasion when Anthony Lynton Blair intruded upon my consciousness, around 1994, it occurred to me I had seen pleasanter objects lying under lamp-posts during an epidemic of canine dysentery. My subsequent impressions were less favourable".

Says it all really!

Point to Ponder:- "The most successful war seldom pays for its losses" - Thomas Jefferson.

Thanks Peter

For those of you who'd like to read the *Breitbart London* on Blair:

<http://www.breitbart.com/london/2015/04/29/tony-blair-an-instructive-reminder-of-how-britain-came-to-its-present-debacle/>

Gizza Job!



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Spectre's News Articles

BBC News 20/05/2015

How vulnerable is the US to threat of Chinese spies?

A new case shines a spotlight on Chinese espionage in the US. Some see the problem as dark and terrifying. Others say it's just business as usual.

Hao Zhang, a 36-year-old professor at Tianjin University, arrived in Los Angeles on Saturday. He was arrested at the airport and charged with economic espionage and theft of trade secrets.

The arrest of Mr Zhang and several other Chinese citizens this week was celebrated in some quarters.

"Bravo, FBI," said a former senior intelligence official. He described it as an "efficient case", saying it shows US officials are attempting to stop Chinese efforts at espionage.

Still, he said, it's only one case, "a small piece of the total picture of economic espionage and the outward flow of intellectual property".

Others have a grudging admiration for Chinese spies. "They're very thorough," said Gordon Adams, a former senior White House official for national security budgets.

Yet, he said, it's not that big a deal. "The reality is that nations are always spying on each other," he said. "It's consistent."

Years ago agents working for the Chinese government seem to have obtained classified information about America's Trident warhead, as David Wise wrote in his book *Tiger Trap*.

Chinese scientists may have used this information in their efforts build a small nuclear warhead.

When it comes to cyber-espionage, the government of China is a "major perpetrator", Wayne Morrison wrote in a March report about China-US trade issues that was prepared for members of the US Congress.

In 2011 Rep Mike Rogers, as chairman of the US House Permanent Select Committee on Intelligence, described a "massive campaign being conducted by the Chinese government".

China is behind most of the theft of US intellectual property, the Center for Strategic and International Studies' James Andrew Lewis wrote in the *Washington Post*. The thefts cost the US about "\$100bn a year" (£64bn).

Still, Mr Lewis said, Americans should keep some perspective. He described the loss "as a rounding error in our \$15tn economy".

Hao Zhang and Wei Pang both studied electrical engineering at University of Southern California. They worked together on research funded by one of the US government's most secretive organisations, Darpa (Defense Advanced Research Projects Agency).

Afterward they became professors at Tianjin University. Then, federal prosecutors said, they turned into spies.

Mr Pang, 35, and Mr Zhang, stole trade secrets from two US companies, Avago Technology and Skyworks Solutions, where they had each been employed, according to court filings.

The technology was valuable - and sensitive. Some of it was designed to improve the reception of mobile phones, and it can be used for military communications.

Other defendants, all charged with conspiracy to commit economic espionage, are Jinping Chen, 41; Chong Zhou, 26; Huisui Zhang, 34; and Zhao Gang, 39.

Meanwhile another case of Chinese espionage may be a warning of how these investigations can sometimes founder.

Sherry Chen, who's originally from China, worked at the National Weather Service in Wilmington, Ohio, until she was accused of espionage. Authorities said she'd obtained information about US water systems - and lied about her contacts with Chinese authorities.

She recalled what it was like when she was arrested at her office. "Suddenly the door opened," she said on BBC's *Newsnight*. Xiaodong Sheldon Meng (right) was sentenced to 24 months for economic espionage in 2008

"There were six FBI agents," Ms Chen said. "They showed me the handcuffs. I requested the FBI agent to read the indictment on the spot. But I still didn't have an idea of what they were talking about."

Ms Chen was told she could be sentenced to 25 years in prison. The charges were eventually dropped, however, and she's tried to resume her life.

This week details about the case of Mr Zhang are still being revealed. It's a case that will be watched closely - both by those who believe the threat from China is growing and by those who think it's exaggerated.

The Telegraph 29/05/2015

Nimrod cuts 'have allowed Russian submarines to spy on Trident'

Britain urgently needs to reintroduce maritime patrol aircraft, say senior RAF figures

Russian submarines are likely to have gathered valuable intelligence on Britain's nuclear deterrent since the Government scrapped maritime patrol aircraft needed to track them, senior RAF figures warn.

Britain's lack of submarine-hunting planes after the Nimrod fleet was axed has left Trident vulnerable to Russian spying which could "prejudice the security and effectiveness" of the deterrent, they argue.

In a letter to the *Telegraph* they also warn that unless new patrol aircraft are bought urgently, the Royal Navy's new £6 billion aircraft carriers will be "put severely at risk".

The letter from five retired senior officers with significant maritime aviation experience comes as the Government begins a new defence review.

Many in the Armed Forces fear a repeat of 2010's cuts. George Osborne, the Chancellor, has told Government departments he needs to find 5 per cent cuts across Whitehall. Defence sources said the MoD has been told to find around £1 billion in savings.

The scrapping of the troubled Nimrod jets after the last defence review is considered by many defence experts to have left a damaging gap in Britain's military power.

The letter signed by Air Mshl Sir John Harris, AVM George Chesworth, AVM David Emmerson, AVM Andrew Roberts and Air Cdre Andrew Neal says it is now "widely recognised" Britain urgently needs new maritime patrol aircraft.

"With so few naval escorts available, this will be vital if future aircraft carriers are not to be put severely at risk," they write.

"We know that Russian submarines are monitoring the area from which our nuclear missile submarines emerge from the Clyde. Without maritime patrol aircraft surveillance, opportunities for intelligence-gathering by such 'intruders' can only prejudice the security and effectiveness of our strategic deterrent.

"Indeed, it would be surprising if valuable intelligence had not already been acquired by the Russian Navy since the Nimrod force was grounded in March 2010."

The Nimrod spy planes had been mainstays of the RAF's reconnaissance fleet since the late 1960s and had a central role in anti-submarine warfare. A new updated fleet, running nine years late and £800 million over budget, was scrapped just before they were due to enter service, as part of drastic defence cuts five years ago.

Britain has since then been forced to rely on its allies. When a suspected Russian submarine was spotted off the Scottish coast in November, four patrol aircraft from Canada, France and the US were scrambled to RAF Lossiemouth and spent weeks scouring the area.

In 2010, senior Navy officers said a specially upgraded Russian Akula class submarine had been caught trying to record the acoustic signature made by the Vanguard submarines that carry Trident nuclear missiles.

RAF crew have been posted to allied navies including the US to keep their submarine-hunting skills sharp, but unless Britain buys new aircraft soon all the UK's expertise will be lost, the letter argues.

The gap also means the UK is no longer able to meet its international long-range search and rescue obligations.

In the event of an airline disaster, such as the loss of Malaysia Airlines MH370, close to the UK, the country is not equipped to search for wreckage or survivors.

Special forces operations against shipping are also being hampered by the lack of intelligence and surveillance patrol aircraft can bring, sources said.

Julian Lewis, a Conservative MP running for chair of the Commons defence committee, said: "From the outset, the government have acknowledged that this is a serious gap in our defences, but have promised it would only be temporary.

"With the serve chill in East-West relations, the time has come to close that gap without further delay."

An MoD spokeswoman said Britain could still carry out maritime surveillance with a mixture of warships, submarines, helicopters and other spy planes.

She said: "We continue to assess future requirements and options ahead of a decision in the ongoing full strategic defence and security review."

Stalin's first British spy Ernest Oldham may have CAUSED the Second World War

19:16, 5 June 2015

By Warren Manger

<http://www.mirror.co.uk/news/uk-news/stalins-first-british-spy-ernest-5831372>

Ernest Oldham sold vital British secrets to the Russians and spent the cash on chauffeur-driven cars, foreign holidays and endless bottles of booze

He was blown up on the front line during the First World War and helped to draft one of the most important peace treaties in history.

He even delivered coded messages to the King.

But Ernest Oldham was no national hero – he was one of Britain's worst traitors.

As the first British spy to work for Stalin's Russia, he sold vital secrets and spent the cash on chauffeur-driven cars, foreign holidays and endless bottles of booze.

The infamous Cambridge spy ring – including Kim Philby, Donald Maclean, Guy Burgess and Anthony Blunt – were still students when Oldham was selling secrets in the early 1930s.

As a civil servant at the Foreign Office, he was trusted with encrypted messages sent to embassies and consulates around the world.

And as a member of the team working on the Treaty of Versailles at the end of the First World War, his treachery could even have helped bring about the Second World War by enabling the Russians to scupper later negotiations between Germany and the rest of Europe.

The backlash from those failed talks caused such anger in Germany that it carried Adolf Hitler to power in 1933.

Not that Oldham lived to see all the consequences.

After four years of selling secrets he was found dead in a gas-filled kitchen in the upmarket Kensington area of London in September 1933, aged 39.

His death was immediately classed as suicide, but questions still linger over whether he and his wife Lucy, whose body was dragged from the Thames 17 years later, were actually murdered by the Soviets or by MI5.

The real extent of Oldham's treachery was only discovered 80 years later by his great-nephew Nick Barratt, a researcher for celebrity genealogy show Who Do You Think You Are?

Nick says: "It's only in the last few months that we have really started to understand the historical significance of Ernest Oldham. Without him the Russians were blind.

"The whole course of the Second World War could have been very different if the Russians hadn't been privy to the information they were given by Oldham and the spies who followed in his footsteps.

"Finding out more about Oldham could completely re-write what we think we know about the 1930s."

Excluded from international talks and desperate for information, the Russians lived off scraps of secrets throughout the 1920s.

But that all changed in August 1929 when a new source shuffled nervously into their embassy in Paris and offered them a steady stream of priceless information straight from the Foreign Office.

He gave his name as Charlie and claimed to be a courier acting for a high-ranking official.

He was promptly paid £10,000, the equivalent of £500,000 today, for the two code-cracking cipher books in his possession and offered even more if he could deliver regular information.

Even after the Russians discovered Oldham's real identity he kept telling them he was just a middle man acting for someone more senior.

Nick says: "We can't underestimate how well Oldham pulled off this double life. He used his diplomatic links to spot an opportunity and the way he played these experienced operatives is stunning."

Getty Joseph Stalin (1879-1953) Russian Communist dictator

Joseph Stalin: Russian Communist dictator who recruited Ernest Oldham

Oldham had neither the wealthy family nor the fancy education shared by the Cambridge traitors. He was born in 1894 and his parents were teachers at council schools.

He was raised in a small terraced house in North London.

After leaving school he applied for civil service post, but ranked just 700th out of 1,500 applicants.

He was offered the job only after dozen of better candidates turned it down.

Volunteering to fight in the First World War, he returned a hero after he was blown up and buried by a shell in August 1918.

A year later and back with the civil service, he was one of the British officials involved in drawing up the Treaty of Versailles which spelled out the price Germany had to pay for the conflict.

For more than 10 years he lived unremarkably before he decided to take advantage of his role as a King's Messenger serving the League of Nations, predecessor of the UN.

This gave him access to an endless supply of valuable information.

It also involved European travel so he could deliver his secrets in person to the Russian embassy in France.

He passed on cipher books to help them read coded messages and at key moments he gave decisive information, including plans to reduce Germany's crippling war reparations..

"That was priceless to the Soviets," says Nick Barratt.

"It allowed them to position themselves at the start of the Second World War and beyond.

"The British knew plans were being intercepted but they never expected it was happening right under their noses."

Pembroke Gardens: Ernest Oldham enjoyed the high life with his Russian earnings

Unlike later Soviet spies, Oldham was not driven by Communist ideology. His motive was money.

He had married wealthy widow and London socialite Lucy King in 1927 and for two years they enjoyed a high life of servants, expensive clothes and fine dining.

But her inheritances were lost in the Wall Street Crash in 1929.

Unwilling to give up their lavish lifestyle and unable to maintain it on Oldham's modest salary, selling secrets to the Russians was the easiest way to clear debts and live in luxury.

Barratt says: "They were pleading poverty and re-mortgaged the house but at the same time Oldham embarked on a £3,000 drinking binge.

"Even today's footballers would struggle to spend money as quickly as they did."

Lucy is even more mysterious than her husband.

The daughter of an Australian mining magnate, she counted US President Herbert Hoover as a family friend, but no photographs of her have survived.

Although she denied all knowledge of Oldham's espionage, she was far from horrified when his Russian handler arrived at their door.

She invited him to stay for several weeks and even seduced him, in the Soviet spy's words "with the spirited gesture of a seaport hooker, rolled up the hem of her dress, and begged him not to waste any more time".

Nick says: "I think she was this Lady Macbeth character urging Oldham on. Why did she married him at all?"

"He had no money and he wasn't that good looking. I think she was after his connections at the Foreign Office."

As the stress of his double life took its toll, Oldham took refuge in the bottle and spent time in clinics battling alcohol addiction.

Now increasingly unstable, he was off work sick for long periods and his spending started to arouse the suspicion of his bosses and at MI5.

He was eventually sacked, then divorced by Lucy after he began beating her.

Even then he continued to smuggle secrets after being allowed to waltz in and out of his old office to visit friends.

Despite being tailed and even bugged by MI5, he gave British spies the slip several times and even escaped to Switzerland before returning to England and being found dead in his kitchen, possibly murdered.

Nick says: "The Soviets lamented that they had destroyed their greatest asset. That could certainly be read as an admission that they were directly involved in ending his life.

"But at the same time there were rumours that he was bumped off circulating in the Foreign Office.

"Both sides seem to blame themselves or each other. The only person who seems to have been certain was the coroner who gave the verdict of suicide."

Their experience with Oldham shaped the Russian approach to espionage for the rest of the 20th century.

They wanted more spies inside the British government but they realised that agents motivated by money and alcohol were unpredictable and hard to control.

So they infiltrated Cambridge University and targeted bright young men receptive to Communist ideals, winning their loyalty before pushing them to pursue careers in the secret service.

Nick says: "That change of approach during the 1930s is no coincidence. It all stems back to Oldham.

"The tragedy is that if he had been picked up by MI5 he would have been a devastating double agent.

"He popped up in the shadows at so many key moments in European history and in many ways he helped to shape it.

"After all my research I feel so close to him. I feel protective and appalled in equal measure."

<http://www.mirror.co.uk/news/uk-news/stalins-first-british-spy-ernest-5831372>

BBC News 02/06/2015

Pakistanis respond after 'spy pigeon' detained in India

The news of a pigeon detained in India on suspicion of being used to spy for Pakistan was met with amusement on both sides of the border - and encouraged Pakistanis to share memes and jokes making fun of their neighbours.

It all started when a 14-year-old boy in an Indian village close to the border with Pakistan found a white pigeon with a message written partly in Urdu, the language widely used in Pakistan, and some numbers in on its feathers. The bird was taken to police who ordered the bird to be X-rayed. Nothing suspicious turned up, but the pigeon was registered in police logs as a "suspected spy" according to reports.

The area where the bird was found is close to Kashmir, claimed by both India and Pakistan and the scene of cross-border military confrontation.

"This is a rare instance of a bird from Pakistan being spotted here. We have caught a few spies here. The area is sensitive, given its proximity to Jammu, where infiltration is quite common," local police superintendent Rakesh Kaushal told the Times of India.

India and Pakistan frequently accuse each other of spying. This week, the Pakistani Prime Minister Nawaz Sharif expressed concern over the actions of foreign intelligence agencies in Pakistan - which many saw as an allusion to India. But the official detention of a bird led to amusement and sarcasm on both sides of the border.

In Pakistan, pictures were created to mock the Indian authorities and portray the humble pigeon as a suave modern-day spy. The hashtags #PigeonVsIndia and #IfIWereAPigeon have been mentioned tens of thousands of times. Both hashtags appear to be promoted by two social media teams who actively seek to create Twitter trends, and identify themselves as supporters of Pakistan's Tehrik-i-Insaf political party.

The Guardian 02/06/2015

FBI operating fleet of surveillance aircraft flying over US cities

The planes, which are equipped with video and cellphone technology at times, are being managed behind fake companies to mask government involvement

The FBI is operating a small air force with scores of low-flying planes across the US carrying video and, at times, cellphone surveillance technology all hidden behind fictitious companies that are fronts for the government, the Associated Press has learned.

The planes surveillance equipment is generally used without a judge's approval, and the FBI said the flights are used for specific, ongoing investigations. In a recent 30-day period, the agency flew above more than 30 cities in 11 states across the country, an AP review found.

Aerial surveillance represents a changing frontier for law enforcement, providing what the government maintains is an important tool in criminal, terrorism or intelligence investigations. But the program raises questions about whether there should be updated policies protecting civil liberties as new technologies pose intrusive opportunities for government spying.

The FBI confirmed for the first time the wide-scale use of the aircraft, which the AP traced to at least 13 fake companies, such as FVX Research, KQM Aviation, NBR Aviation and PXW Services. Even basic aspects of the program are withheld from the public in censored versions of official reports from the Justice Department's inspector general.

The FBI's aviation program is not secret, spokesman Christopher Allen said in a statement. Specific aircraft and their capabilities are protected for operational security purposes. Allen added that the FBI's planes are not equipped, designed or used for bulk collection activities or mass surveillance.

But the planes can capture video of unrelated criminal activity on the ground that could be handed over for prosecutions.

Some of the aircraft can also be equipped with technology that can identify thousands of people below through the cellphones they carry, even if they are not making a call or in public. Officials said that practice, which mimics cell towers into coughing up basic subscriber information, is rare.

Details confirmed by the FBI track closely with published reports since at least 2003 that a government surveillance program might be behind suspicious-looking planes slowly circling neighborhoods. The AP traced at least 50 aircraft back to the FBI, and identified more than 100 flights since late April overflying both major cities and rural areas.

One of the planes, photographed in flight last week by the AP in northern Virginia, bristled with unusual antennas under its fuselage and a camera on its left side. A federal budget document from 2010 mentioned at least 115 planes, including 90 Cessna aircraft, in the FBI's surveillance fleet.

The FBI said it also occasionally helps local police with aerial support, such as during the recent disturbance in Baltimore that followed the death of 25-year-old Freddie Gray, who sustained grievous injuries while in police custody. Those types of requests are reviewed by senior FBI officials.

The surveillance flights comply with agency rules, an FBI spokesman said. Those rules, which are heavily redacted in publicly available documents, limit the types of equipment the agency can use, as well as the justifications and duration of the surveillance.

Details about the flights come as the Justice Department seeks to navigate privacy concerns arising from aerial surveillance by unmanned aircrafts, or drones. Barack Obama has said he welcomes a debate on government surveillance, and has called for more transparency about spying in the wake of disclosures about classified programs.

These are not your grandparents surveillance aircraft, said Jay Stanley, a senior policy analyst with the American Civil Liberties Union, calling the flights significant if the federal government is maintaining a fleet of aircraft whose purpose is to circle over American cities, especially with the technology we know can be attached to those aircraft.

During the past few weeks, the AP tracked planes from the FBI's fleet on more than 100 flights over at least 11 states plus Washington DC, most with Cessna 182T Skylane aircraft. These included parts of Houston, Phoenix, Seattle, Chicago, Boston, Minneapolis and southern California.

Evolving technology can record higher-quality video from long distances, even at night, and can capture certain identifying information from cellphones using a device known as a cell-site simulator or Stingray, to use one of the product's brand names. These can trick pinpointed cellphones into revealing identification numbers of subscribers, including those not suspected of a crime.

Officials say cellphone surveillance is rare, although the AP found in recent weeks FBI flights orbiting large, enclosed buildings for extended periods where aerial photography would be less effective than electronic signals collection. Those included above Ronald Reagan Washington national airport and the Mall of America in Bloomington, Minnesota.

After the Washington Post revealed flights by two planes circling over Baltimore in early May, the AP began analyzing detailed flight data and aircraft-ownership registrations that shared similar addresses and flight patterns. That review found some FBI missions circled above at least 40,000 residents during a single flight over Anaheim, California, in late May, according to census data and records provided by the website FlightRadar24.com.

Most flight patterns occurred in counter-clockwise orbits up to several miles wide and roughly one mile above the ground at slow speeds. A 2003 newsletter from the company FLIR Systems Inc, which makes camera technology such as seen on the planes, described flying slowly in left-handed patterns.

Aircraft surveillance has become an indispensable intelligence collection and investigative technique which serves as a force multiplier to the ground teams, the FBI said in 2009 when it asked Congress for \$5.1m for the program.

Recently, independent journalists and websites have cited companies traced to a bank of Virginia post office boxes, including one shared with the Justice Department. The AP analyzed similar data since early May, while also drawing upon aircraft registration documents, business records and interviews with US officials to understand the scope of the operations.

The FBI asked the AP not to disclose the names of the fake companies it uncovered, saying that would saddle taxpayers with the expense of creating new cover companies to shield the government's involvement, and could endanger the planes and integrity of the surveillance missions. The AP declined the FBI's request because the companies names as well as common addresses linked to the Justice Department are listed on public documents and in government databases.

At least 13 front companies that AP identified being actively used by the FBI are registered to post office boxes in Bristow, Virginia, which is near a regional airport used for private and charter flights. Only one of them appears in state business records.

Included on most aircraft registrations is a mysterious name, Robert Lindley. He is listed as chief executive and has at least three distinct signatures among the companies. Two documents include a signature for Robert Taylor, which is strikingly similar to one of Lindley's three handwriting patterns.

The FBI would not say whether Lindley is a US government employee. The AP unsuccessfully tried to reach Lindley at phone numbers registered to people of the same name in the Washington area since Monday.

Law enforcement officials said Justice Department lawyers approved the decision to create fictitious companies to protect the flights operational security and the Federal Aviation Administration was aware of the practice. One of the Lindley-headed companies shares a post office box openly used by the Justice Department.

Such elusive practices have endured for decades. A 1990 report by the then General Accounting Office noted that, in July 1988, the FBI had moved its headquarters-operated aircraft into a company that was not publicly linked to the bureau.

The FBI does not generally obtain warrants to record video from its planes of people moving outside in the open, but it also said that under a new policy it has recently begun obtaining court orders to use cell-site simulators. The Obama administration had until recently been directing local authorities through secret agreements not to reveal their own use of the devices, even encouraging prosecutors to drop cases rather than disclose the technology's use in open court.

A Justice Department memo last month also expressly barred its component law enforcement agencies from using unmanned drones solely for the purpose of monitoring activities protected by the First Amendment and said they are to be used only in connection with authorized investigations and activities. A department spokeswoman said the policy applied only to unmanned aircraft systems rather than piloted airplanes. The first amendment of the US constitution guarantees freedom of speech and assembly.

The Guardian 14/06/2015

UK under pressure to respond to latest Edward Snowden claims

Sunday Times says Downing Street believes Russia and China have hacked into American whistleblower's files, endangering US and British agents

Downing Street and the Home Office are being challenged to answer in public claims that Russia and China have broken into the secret cache of Edward Snowden files and that British agents have had to be withdrawn from live operations as a consequence.

The reports first appeared in the Sunday Times, which quoted anonymous senior officials in No 10, the Home Office and security services. The BBC also quoted an anonymous senior government source, who said agents had to be moved because Moscow gained access to classified information that reveals how they operate.

Privacy campaigners questioned the timing of the report, coming days after a 373-page report by the independent reviewer of terrorism legislation, David Anderson QC, which was commissioned by David Cameron. Anderson was highly critical of the existing system of oversight of the surveillance agencies and set out a series of recommendations for reform.

A new surveillance bill, scheduled for the autumn, is expected to be the subject of fierce debate.

Responding to the Sunday Times, David Davis, the Conservative MP who is one of the leading campaigners for privacy, said: "We have to treat all of these things with a pinch of salt." He said the use of an anonymous source to create scare stories was a typical tactic and the timing was comfortable for the government.

"You can see they have been made nervous by Anderson. We have not been given any facts, just assertions," he said.

Anderson recommended that approval of surveillance warrants be shifted from the home and foreign secretaries to a new judicial body made up of serving and retired judges, which Davis supports but towards which the government appears to be lukewarm.

raising the Sunday Times allegations in the Commons as the government would say it does not comment on intelligence matters. Davis's prediction was prescient. A Downing Street spokeswoman said: "We don't comment on leaks." The intelligence agencies said: "Our longstanding policy is not to comment on intelligence matters."

But Eric King, the deputy director of Privacy International, echoed Davis, saying: "Looking at the Sunday Times, it asks more questions than it answers." He added that if Downing Street and the Home Office believed that Russia and China had gained access to the Snowden documents, then why was the government not putting this out through official channels.

He added: "Given Snowden is facing espionage charges in the US, you would have thought the British government would have provided them with this information."

Snowden, a former NSA contractor, handed over tens of thousands of leaked documents to the Guardian in Hong Kong two years ago. He left Hong Kong with flights booked to Latin America but was stopped in Russia when the US revoked his passport, and has been living in Moscow in exile since.

He has repeatedly said he handed over all the documents to journalists in Hong Kong and no longer has access to them, making it impossible for either China or Russia to get to them through him. The Sunday Times and BBC do not say where China or Russia allegedly gained access to the files.

Shami Chakrabarti, director of Liberty, said: "Last week, David Anderson's thoughtful report called for urgent reform of snooping laws. That would not have been possible without Snowden's revelations. Days later, an "unnamed Home Office source" is accusing him of having blood on his hands. The timing of this exclusive story from the securocrats seems extremely convenient."

Andrew Mitchell, a former cabinet minister, said he was sure the Sunday Times got story because of the Anderson report. He added: "I think we have to be very careful of the argument "listen sonny, we know what you don't know and therefore you should do what we say". That is not a good argument; we need to have a proper debate about all of this."

"I don't approve of what Snowden did, but I have to say having been to Washington recently that there has been a massive change of view in the United States, not just people like Rand Paul and so on, there's a massive change of view about the debate and that has resulted from Snowden, whether you like it or not."

The White House said it had no comment on the UK government claims.

Since the initial revelations about the extent of the bulk collection of communications data and the relationship between the intelligence agencies and internet companies, the US and British governments and their intelligence agencies have made a series of assertions that have subsequently been retracted.

Snowden was initially said to be a Chinese or Russian spy, but the US has since said this is not true. The US has also backtracked on claims that surveillance helped stop 56 plots and that Snowden had blood on his hands.

The British government and intelligence agencies in both countries issued warnings as far back as at least 18 months ago that the Snowden disclosures had helped terrorists, costing GCHQ, the UK's main surveillance agency, up to 30% of its capabilities and that agents had had to be moved.

But privacy campaigners countered that no evidence had ever been provided to back up these assertions and that Snowden had done a public service by revealing the extent of illegal mass surveillance.

The allegations being made 18 months ago have now resurfaced in the Sunday Times. The paper quoted a source saying: "Agents have had to be moved and that knowledge of how we operate has stopped us getting vital information." The source said they had no evidence that anyone had been harmed.

A senior Home Office source was also quoted by the newspaper, saying: "Putin didn't give him asylum for nothing. His documents were encrypted but they weren't completely secure and we have now seen our agents and assets being targeted."

The Sunday Times also quoted a British intelligence source saying that Russian and Chinese officials would be examining Snowden's material for years to come.

"Snowden has done incalculable damage," the intelligence source reportedly said. "In some cases the agencies have been forced to intervene and lift their agents from operations to prevent them from being identified and killed."

The Aviationist 18/06/2015

A new Russian spyplane skirted the airspace of eastern Ukraine today

A new Russian Air Force Tu-214R could be tracked as it flew close to the border with Ukraine.

Social media are going frenzy after a Russian Air Force Tu-214R was spotted and tracked on the Internet, by means of its ADS-B transponder signals detected by Flightradar24 collecting stations, as it flew from Kazan to Crimea and back, closely following the border between Russia and Ukraine on Jun. 18.

Built by the Kazan Aircraft Production Association's (KAPO) and flown from the company's airfield, the Tu-214R registered RA-64514, serial number 42305014, is the second of the two examples of this kind of aircraft built under contract with Russia's Ministry of Defense.

The Tu-214R is a Russian ISR (Intelligence Surveillance Reconnaissance) aircraft.

It is equipped with all-weather radar systems and electro optical sensors that produce photo-like imagery of a large parts of the ground: these images are then used to identify and map the position of the enemy forces, even if these are camouflaged or hidden. Furthermore the aircraft is known to carry sensor packages to perform ELINT (Electronic Intelligence) and SIGINT (Signal Intelligence) missions: the antennae of the Tu-214R can intercept the signals emitted by the enemy systems (radars, aircraft, radios, combat vehicles, mobile phones etc) so as it can build the EOB (Electronic Order of Battle) of the enemy forces: where the enemy forces are operating, what kind of equipment they are using and, by eavesdropping into their radio/phone communications, what they are doing and what will be their next move.

This kind of aircraft usually operate in this way: it either loiters/circles in a friendly or uncontested airspace at high altitude and at safe distance from the target(s) of interest or along the border of the enemy country.

The aircraft is probably not yet operational and the last images published on the Web show that the aircraft was not given the standard white paint color scheme yet.

The aircraft features the same types of external bulges of other very well known intelligence gathering planes, as the U.S. RC-135 or the Israeli B-707 with the Phalcon system, along with minor differences with the first operative Tu-214R, RA-64511, serial number 42305011.

What the spyplane was doing along the border is difficult to say, even though it's quite likely that it was testing some of its onboard sensor packages against real targets.those located in eastern Ukraine.

From MaleAnon:

Russia Plans Bigger, Badder Version of Tu-160 Supersonic Bomber By Matthew Bodner

<http://www.themoscowtimes.com/business/article/russia-plans-bigger-badder-version-of-tu-160-supersonic-bomber/523221.html>

Russia will relaunch assembly of the massive Soviet-designed Tu-160 supersonic strategic bomber after 2023, a Russian defense official said, raising questions over the fate of a next-generation bomber program that was meant to enter production around the same time.

But although the Soviet design will be resuscitated, the bomber's innards will be upgraded, Deputy Defense Minister Yuri Borisov, who is responsible for weapons procurement, said late last week, news agency RIA Novosti reported.

"This will be essentially a new airplane, not a Tu-160 but a Tu-160M2," he said. "According to the plans, this will most likely happen sometime after 2023." PEKJAMA

The announcement comes as Russia aggressively ramps up defense spending under President Vladimir Putin, who has sought to restore the country's military power following years of low funding.

After Moscow's annexation of Crimea last year sparked a confrontation with the West over Ukraine, Russian bomber patrols, including Tu-160s, have repeatedly flown along European airspace.

The Tu-160 was the last bomber designed and built by the Soviet Union. It is a supersonic swept-wing aircraft designed to deliver nuclear weapons to distant targets. Only 15 were produced before the fall of the U.S.S.R., and one produced in the early 1990s.

Since then, some of the existing planes have been modernized, but the Tu-160 production lines at the Kazan Aviation Plant have been silent. Russian military officials had said recently the airplane — dubbed "the White Swan" by the Russian air force and Blackjack by NATO — would go back into production, but have been vague about the launch date.

Last week, the commander in chief of the Russian air force, Viktor Bondarev, said that the Defense Ministry would purchase at least 50 of the new Tu-160s after production is restarted, RIA reported.

The timing of the Tu-160's revival raises questions about Russia's commitment to the PAK DA program, a Defense Ministry project to create a brand-new next-generation strategic bomber. Officials have said the plane would begin rolling off production lines around 2023.

The PAK DA was billed as a replacement for the Soviet-built Tu-160s. Bondarev said last week that production of the new Tu-160s would go hand in hand with production of the new bomber, but committing to both projects would be costly.

With Russia's oil-dependent economy in crisis and economists expecting a sluggish recovery, the country's ability to finance ambitious defense projects may weaken.

United Aircraft Corporation, the state-owned aviation industry conglomerate that would be responsible for building the airframes of both aircraft, declined to comment on the status of either project.

Increased defense spending is already boosting Russia's air power. The country's fleet of 130 MiG-31 supersonic bomber interceptors are being upgraded, and the air force said in December it would receive 150 new airplanes and helicopters in 2015.

This order includes bulk buys of Su-30 multirole fighters, MiG-29s air superiority fighters, Su-24 fighter bombers, and Su-35 fighters — all part of Russia's front-line aircraft fleet.

The air force is currently modernizing the 16 old Tu-160s already in service with new engines and electronics, but Borisov said the Tu-160M2 would feature "new performance characteristics and new features," such as digital electronics allowing for "completely new possibilities."

Maxim Kuzyuk, the CEO of Technodinamika, a Russian state-owned aviation components holding, declined to comment on the status of the Tu-160M2 project, but said the company is ready to produce components for the planes if the orders are made.

"The holding produces a wide range of systems and components for Tu-160s," Kuzyuk said. "We are ready to resume production of the landing gears for this aircraft [and] can continue production of these systems and components, or develop new systems, as well as an [auxiliary power unit], if this task is set," he added.

<http://www.themoscowtimes.com/business/article/russia-plans-bigger-badder-version-of-tu-160-supersonic-bomber/523221.html>

The picture on this article shews a Concorde look alike. The sender of this commented that the Russians may have had the wrong copy of the plans when they put 'Concordski' together. I believe the name that was bandied about at this time was John Stonehouse who was allegedly passing secrets to a Czech agent.

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July 2015

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Logging Abbreviations explained.

The ENIGMA 2000 Standard logging should take this form without any personalised abbreviations:

E07 10436kHz 1740z 07/06[414 1 563 102 92632 ... 09526 0 0 0 0 0 0] 1753z Fair QRM2 QSB2 PLdn SUN

Station: E07 [Traits of stations in ENIGMA Control List]

Freq: kHz [As above 10436kHz]

Time: z [Always 24hour clock, 'z' states GMT/UTC]

Date: day/month [As above 7th June]

Msg detail: Varies with station

ID taken from 100kHz fig in freqs: 414 [freqs used in this schedule were 13468, 12141 and 10436kHz]

Msg count 1

Dk [decode key]: 563

Gc [group count]: 102

First group of msg: 92632

Text between grps: ...

Last group: 09526 [where more than one group is stated the use of LG ahead group indicates 'Last Group.']

Ending: 0 0 0 0 0 0

Time msg ends: 1753z

Received signal strength assessment: Fair

Noise QRM2

Fading to signal QSB2

Monitor: PLdn

Day heard: SUN

Unknown: unk

Repeat: R [which can be expanded to mean]:

Repeated : R5m [repeated 5 mins]; R5s[repeated 5seconds], R5x [Repeated 5 times]

Received signal strength assessment.

Some receivers possess 'S' meters that give a derived indication of signal strength caused by changes within that receiver. Calibration may, or may not be accurate and the scale, may or may not, be the same as that on other receivers. Some receivers have no meter yet produce acceptable results.

Therefore we prefer the quality of the signal to be assessed by the particular monitor.

Guidance for this can be sought from the Q code:

QSA What is the strength of my signals (or those of...)?

The strength of your signals (or those of...) is...

1) scarcely perceptible.

2) weak.

3) fairly good.

4) good.

5) very good.

[QSA1 S0 to S1; QSA2 S1 to S3; QSA3 S3 to S6; QSA4 S6 to S9; QSA4 S9 and above]

Sooner than put a numerical value we state: Very Weak, Weak, Fair, Strong or Very Strong.

Noise, Static and Fading.

Again guidance from the Q code:

Noise:

QRM Are you being interfered with?

I am being interfered with

1) nil

2) slightly

3) moderately

4) severely

5) extremely.

Note: in the sample the monitor has stated QRM2 which means 'slight noise'; had the interference been from a broadcast station you might have read 'BC QRM2' and so on.

Static [Lightning and other atmospheric disturbance]:

QRN Are you troubled by static?

I am troubled by static

- 1) nil
- 2) slightly
- 3) moderately
- 4) severely
- 5) extremely.

Fading [Propagational disturbance]

QSB Are my signals fading?

Your signals are fading

- 1) nil
- 2) slightly
- 3) moderately
- 4) severely
- 5) extremely.

Note: in the sample the monitor has stated QSB2 which means 'slight fading' where the received signal obviously fades but the message is still intelligible.

The use of QRM1, QRN1 and QSB1 is not expected; if there is no such aberration to the signal it need not be stated.

Day Abbreviation

Self explanatory: SUN, MON, TUE, WED, THU, FRI, SAT

Mode used in transmission

Generally the mode of transmission is not stated, being available in the ENIGMA Control List. Should the expected mode change then this can be stated as: CW [Carrier Wave] MCW[Modulated Carrier Wave] ICW [Interrupted Carrier Wave] generally associated with Morse transmission; AM [Amplitude Modulation], LSB [Lower Sideband], USB[Upper Sideband] generally associated with Voice transmission.

Languages used

The ident of a station generally states the language in use, E [English], G[German] S [Slavic], V[All other languages].

Non voice stations

M [Morse and TTY] HM [Hybrid Mode: Voice/Data] SK [Digital modes] X [Other modes]

Ideally we would like to see logs offered in our standard format allowing the editorial staff to process the results quickly rather than having to manually re-format. Anyone submitting logs should refrain from using their own abbreviations or shortening our abbreviations eg. Su Mo Tu etc.

See a correct example below which is now self explanatory:

V02a 5883kHz 0700z 06/06[A63752 57781 31521] Fair QRN2 end unk PLdn SAT

And the incorrect version:

V2a 5883k 07:00 06/06/2009 A/63752- 57781- 31521 S3 PLdn SA

Additional Info:

Own station idents should not be used.

When an unidentifiable station is submitted please supply the obvious details:

Freq, Time start and end, Date, Message content, particularly preamble and message content and ending. Language details are helpful, particularly any strange pronunciations.

Other details about stations can be found in the ENIGMA Control List available from Group files or sent when you joined.

NUMBER SYSTEMS

European Numbers svtems:

English	zero	one	two	three	four	five	six	seven	eight	nine
Bulgarian	nul	edín	dva	tri	chétiri	pet	shest	sédem	ósem	dévet
French	zero	un	deux	trois	quatre	cinq	six	sept	huit	neuf
German^	null	eins	zwei	drei	vier	fünf	sechs	sieben	acht	neun
Spanish	cero	uno	dos	tres	cuatro	cinco	seis	siete	ocho	nueve
Czech	nula	jeden	dva	tr^i	chtyr^i	pêt	shest	sedm	osm	devêt
Polish	zero	jeden	dwa	trzy	cztery	pie,c'	szes'c'	siedem	osiem	dziewie,c'
Romanian	zero	unu	doi	trei	patru	cinci	s,ase	s,apte	opt	nouâ
Slovak*	nula	jeden	dva	tri	shtyri	pât'	shest'	sedem	osem	devât'
* West	nula	jeden	dva	try	shtyry	pet	shest	sedem	ossem	devat
* East	nula	jeden	dva	tri	shtyri	pejc	shesc	shedzem	osem	dzevec
Serbo-Croat	nula	jèdan	dvâ	trî	chètiri	pêt	shêst	sêdam	ôsam	dêve:t
Slovene	nula	ena	dva	tri	shtiri	pet	shest	sedem	osem	devet
Russian	null	odín	dva	tri	chety're	pyat'	shest'	sem'	vósem'	dévyat'

^ Some German numerals have a radio accent and totally in keeping with German armed forces The numbers in question are:

2 ZWEI pronounced as TSWO

5 FUNF pronounced as FUNUF, poss hrd as a fast TUNIS

9 NEUN pronounced by some as NEUGEN

A peculiar pronunciation of three DREI, has crept into G11 transmissions, heard as 'ZYNCE' the 'Y' as in eye.

Numeral Systems used on selected Slavic Stations [*those discontinued in italics*]

	Actual Polish[S11]	S11a Cherta	S11 Kreska	S10d	S17c
0	zero	nul	<i>zero</i>	<i>Nula*</i>	<i>Nula*</i>
1	jedynka	adinka	<i>yezinka</i>	<i>Jeden^</i>	<i>Jeden^</i>
2	dwójka	dvoyka	<i>dvonta</i>	<i>dva</i>	<i>dva</i>
3	trójka	troyka	<i>troika</i>	<i>tri ' </i>	<i>tri ' </i>
4	cztery	chetyorka	<i>chidiri</i>	<i>shytri</i>	<i>shytri</i>
5	pi'tka	petyorka	<i>peyonta</i>	<i>pyet</i>	<i>pyet</i>
6	szecæ	shest	<i>shes</i>	<i>shest</i>	<i>shest</i>
7	siedem	syem	<i>sedm</i>	<i>sedoom</i>	<i>sedoom</i>
8	osiem	vosyem	<i>osem</i>	<i>Osoom~</i>	<i>Osoom~</i>
9	dziewie,c'	dyevyet	<i>prunka</i>	<i>devyet</i>	<i>devyet</i>

Notes on Numeral Systems used on selected Slavic Stations:

* Nula heard as 'nul'

^ Jeden heard as 'Yedinar'

' Tri heard as 'she'

~ Osoom often heard as 'bossoom' or 'Vossoom.'

Arabic Numerals [E25 and V08]

English	zero	one	two	three	four	five	six	seven	eight	nine
	0	1	2	3	4	5	6	7	8	9
Arabic	sifr	wahid	itnien	talata	arba	khamisa	sitta	saba	tamanya	tissa
	٠	١	٢	٣	٤	٥	٦	٧	٨	٩

Chinese Number System:

[Particular attn to Yi/Yao pse].

0	Ling	Zero
1	Yi/Yao	One (It appears there is a radio version of Yao. On the telephone it is pronounced Yi; also heard in V16)
2	Er	Two
3	San	Three
4	Si	Four (The number four in Chinese is always unlucky, because it sounds the same as the word for death which is also pronounced 'Si' but with a different tone).
5	Wu	Five
6	Liu	Six
7	Qi	Seven
8	Ba	Eight
9	Jiu	Nine

Shi	Ten	Ba	One Hundred	Wan	One Thousand
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Chinese numeral construction:

For example:

San	Three
San Shi	Thirty. In English they are saying Three and Ten.
San Shi Jiu	Thirty Nine. In English they are saying Three, Ten and Nine.
San Bai	Three Hundred. In English they are saying Three and One Hundred.
San Wan	Three Thousand. In English they are saying Three and One Thousand.

SPECIAL MATTERS

Operation Jallaa:



MESSAGES:

Thanks E. Hope all goes well for you

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>

2015						
Source: Vertes42.com						
January						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
February						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
March						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
April						
S	M	T	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	
May						
S	M	T	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						
June						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				
July						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
August						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					
September						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			
October						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
November						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					
December						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

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