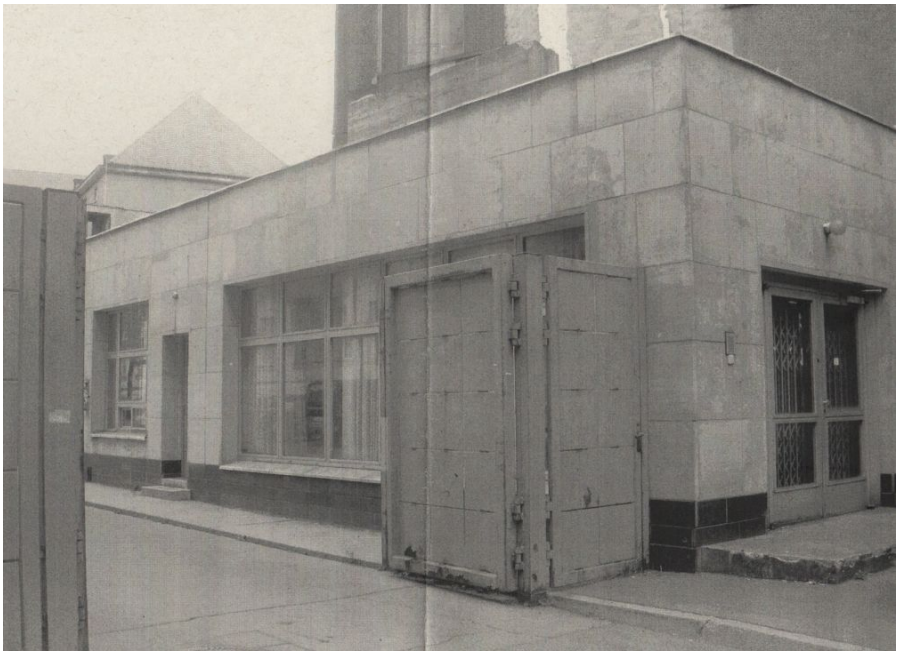
ENIGMA 2000 NEWSLETTER

http://www.enigma2000.org.uk

Front and Rear Entrances to STASI Headquarters Leipzig



Thanks 'E' with whom the Copyright remains.

ISSUE 115
November 2019

http://www.enigma2000.org.uk

Editorial

It would appear that Yahoo are making untenable changes to Yahoo Groups. With this in mind all members should be assured that ENIGMA2000 are looking to re-site with a similar service that you currently enjoy.
By the time you read this change will hopefully be well underway and members will be informed of what actions they will need to take – if any.

Operational News:

Short wave propagation remains variable, as always, especially noticeable with number stations with weekly schedules such as E07.
September saw the expected seasonal change of frequencies with number stations of the 01A family such as E06 and G06 using the same frequencies as in the springtime months of March and April.

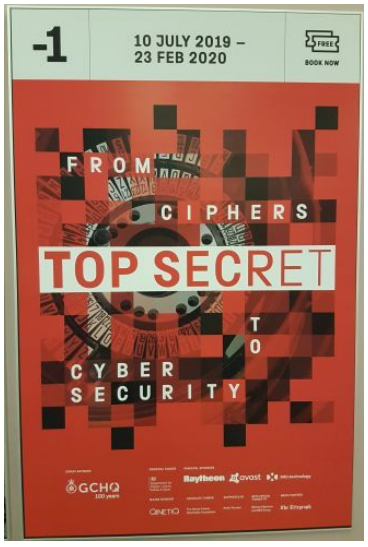
Not Number Station But Possibly Interesting:

Amateur radio news on 60 metre band:- a few years ago the Sunday GB2RS news "for radio amateurs and short-wave listeners" was regularly heard on a frequency in the 60 metre band on Sunday afternoons, 5405.5 kHz, I think, but appeared to have been discontinued some time ago, so it was something of a surprise while casually tuning around
just after 1500 UTC on Sunday 13-October to find GB2RS with a strong signal on 5398 -
point something, probably. The main interest from the short-wave listener point of view is the information concerning propagation which confirmed that all in all, propagation is not up to much as the result of the Sun not having much of an effect on the ionosphere at the moment – but things are predicted to improve soon. One other item was noteworthy:-
"Up until 5PM today, UK army, navy and air cadet units will be carrying out exercise Blue Ham 19. Operations will be on the 5MHz shared band. Amateurs may claim a certificate if they contact ten or more stations over the weekend and submit a copy of their log sheet."
Shades of, "Broadsword calling Danny Boy...", perhaps.

The ENIGMA 2000 Meeting at the Science Museum London

The London Science Museum is hosting an exhibition that coincides with the 100th Anniversary of GCHQ. This is entitled GCHQ: Top Secret Exhibition.Entry is by ticket only [free] booked online or at the entry desk situate in the basement prior to entry.

The exhibition, well worth a visit, is better described here: https://www.sciencemuseum.org.uk/see-and-do/top-secret



GCHQ Intercept facility used in theatre of Afghanistan

On Thursday, 10th October 2019, at around 1300, nine members gathered inside the Science Museum by the Information Desk to visit the exhibition as part of the ENIGMA 2000 Meeting. The members who attended were AnonNI, H-FD, HJH, IgorRU, Jochen, M8, PLdn, RNGB, and QC.

At 1330 we moved slowly through the museum, enjoying some refreshment prior to descending down to the Top Secret Exhibition at 1355 where, five minutes later, we were met by Dr Elizabeth Bruton, the Curator. We then began a very informative and splendid tour of the exhibits that were aptly described with history and some technicalities by Liz.

Just over an hour later we found ourselves outside the souvenir shop where Liz was thanked for the most interesting tour and presented with the commemoration mug that had been cast as a memoire to this day.

Seven members who opted for the meal after [Blanked by request]

After a 20min walk – 10mins for some of us, we took the pre-booked table inside the Gloucester Arms on Gloucester Road SW7 where we ate splendid meals and drank a variety of beers, lemonade, orange juice and coca cola whilst discussions were had on number stations per se, particularly S06 and XPA1.

Jochen provided a couple sound samples of AL and PN [G16] from the 80's.

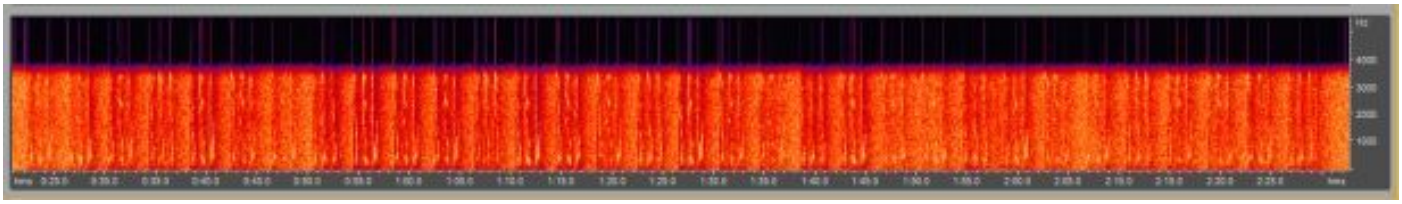
A very good meeting we left at around 1930 for our homes. Thanks to those of you who attended and to the Curator, Liz, who made the meeting particularly enjoyable.

Pirate Saga continues

The pirate saga mentioned En114 carries on into September with another pirate station playing music after 'number' station transmission described by Barry as: Another pirate radio numbers station log:

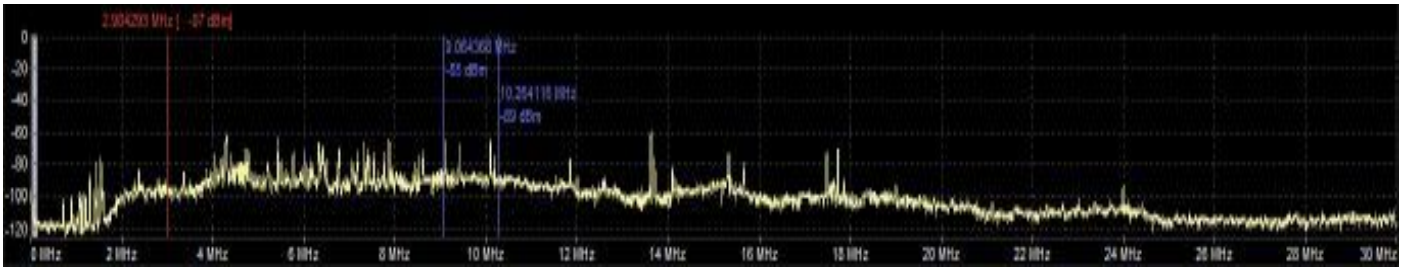
6900kHz lsb. Pirate with 2, 3, & 5 fig numbers x2, EE. Then, SS, 5 fig x2. Then, rock songs. 0145z, 08/09 SR SUN

Noise



Splendid copy above the noise 1320z 10264kHz [024 000]

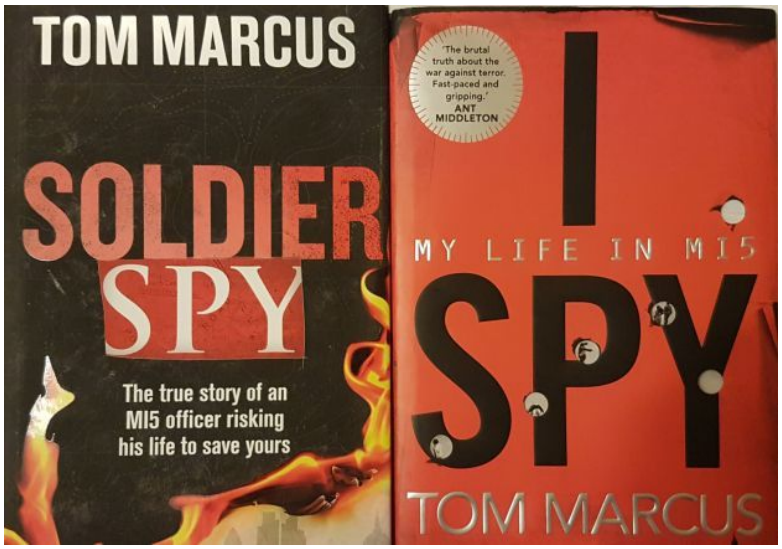
Something that was discussed at our meeting was noise. Interestingly the 1300/1320z 9064/10264kHz schedule seen on 12/10 was very strong in comparison to the usual offering; notwithstanding a fluke reception that copied 0600/0620z 9064/10264kHz schedule, again a strong signal and barely affected by the noise we suffer in the UK suggests a raise in transmit power from the origin or their signal path has perhaps been changed.



Freq vs noise 2000 to 30000kHz as seen at 0700z 13/10. Note at 10264kHz the noise level is 45dBm above that seen at 28000kHz

[Unacceptable figures allowed by Ofcom and other Regulatory bodies in the name of Pecuniary advantage to businesses, many of whom protect themselves with silent directors who are also MPs]

Book Review



A brace of books written by 'Tom Marcus.' Not his real name, you understand as he's been special forces [?] and worked on the ground for MI5. Both books are interesting and have a lot of radio procedural stuff which is interesting.
However, someone in the know and a good friend has said to me that a lot of what is written may not ring true, in the first book.

The second book carries on where the first book left off but also with some duplication. In the first book we were introduced to Tom's PTSD. In the second we end with it. There's a third book too; a novel. Worth a read at least and again with some good radio procedures.

One of the ops in book two 'I Spy' is almost identifiable; codenames and places changed I imagined a certain north London park where the two terror suspects actually took countermeasures to avoid being overheard as they discussed the use of liquid bombs such as that depicted below [as seen in London Science Museum GCHQ: Top Secret Exhibition until 23rd February 2020].
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Liquid Bomb

The Liquid Bomb plot 2006 was one that yours truly was caught up in. Leaving the US Embassy, near the Everest Cricket Ground, Georgetown Guyana, I received a cellphone message instructing me to go to our carriers nearby. On arriving I was met by security who excluding locals allowed me to enter to pick up the telex message describing events in London where the terrorists arrests had been pushed by General Michael Hayden, Director of CIA before the METPOL and MI5 were ready to act.

It would appear that Hayden put the operation at risk with his interfering as well as the leader held in Pakistan, actually escaping.

I noted the second book on sale for a tenner [£10.00] in a local branch of Tesco; Can't recall what I paid for it but my mate MM assures me he will wait until they start appearing for a quid or less in anyone of a legion of charity shops!

Shortwave Radio is the only true source for World Wide News

By Spectre3000

I have become a kind of news correspondent for Enigma 2000 over the years, as I searched for various espionage news stories from mainstream news outlets to share within the Enigma 2000 newsletter.

I have covered many kinds of news such as industrial and cyber espionage, I have also covered many military and technology news stories as well. As I believe that Number Stations do fit in with these kind of news stories, I have always strive to show a much larger picture overall.

But as you go on through the years you begin to stop believing in what the mainstream media are telling you. I no longer watch TV news programs as I realized they were not giving you any news, and I don't buy newspapers either. I have also looked on the internet for news and information, but I can see how this is being manipulated as well.

We live in a world where the manipulation of information is paramount to keeping the over worked masses in control. TV news programs and printed newspapers constantly lie when it comes to World Events and we are often bombarded with unimportant celebrity news to purposely keep you away from the truth.

The internet and social networking sites are heavily controlled by governments and big business corporations, these employ a large amount of shills to write fake news blogs in large quantities to steer the reader from the real news. All of these modern outlets for information are not a very reliable source of news, there is only one source left that is a much reliable source. And that is Shortwave Radio.

Although Shortwave International Broadcasting is still heavily controlled by the governments of that country, you are more likely to have a much larger choice as each broadcaster gives their point of view on current events. You don't have to take their word for it and tune into another International Broadcaster to hear another point of view on the same news story, and then draw up your own conclusions on what events actually happened. Sometimes Shortwave Radio itself will tell you something is happening in World Events, through unusual radio activity. Such as when Russia invaded parts of the Ukraine, a whole new short lived schedule of Number Stations and Data Modes popped up over the air, I am sure many Enigma 2000 members can remember those broadcasts.

I also remember the Arab Spring leading up to the death of Colonel Gaddafi in Libya. American US Commando Solo planes flew over Libya and broadcasted propaganda in English and in Arabic over the airwaves, to persuade people to lay down their arms and stop fighting.
I was also able to pick up these transmissions from the UK using just a portable Shortwave Receiver with upper-side band capability. As you can see those kind of broadcasts did indicate that something was happening in World Events.
I remember the Cuba Sonic Weapon case from a few years ago, where they said that many US Diplomats fell ill from what they believed was from a Sonic Weapon.Then all of a sudden have all of these scientists publish news articles saying that there was no such thing and then try and play down the news story and say it wasn't real. Then months go by and China Radio International claim in a news story that the Cuban Sonic Weapon attacks were genuine. I knew then that news writers on the internet were trying to play down this news story, and on a recent search (1st November 2019) are still trying to claim that the attacks are not real and it was Marsh Gas that caused the illness.
All of this is direct proof how the media works on the internet in comparison with media over Shortwave Radio. I wouldn't be surprised that China Radio International told the truth regarding the story, needless to say a recent news report claims that China has now got portable Sonic Weapon technology of their own for use in crowd control. Maybe someone knew that the technology existed a few years ago and put it in the CRI news story in the first place.

As you can see, the modern sources of news aren't as reliable as Shortwave Radio. If you wan't a much broader view of what is going on in the world, I say stick to your trusty old radio.

Thanks Spectre3000

Of immediate interest and from our NI Correspondent

Scarborough's role in the Cuban missile crisis revealed
By Gordon Corera
Security correspondent
21 October 2019

https://www.bbc.co.uk/news/uk-5009895

A secret base in Scarborough played a key role in resolving the Cold War's Cuban missile crisis, it can now be revealed.
Up on a hilltop, not far from a caravan park in England's North Yorkshire coast sits what is believed to be the longest continually running listening station in the world.
The GCHQ base at Scarborough was established just before World War One because its position was ideal to intercept German naval radio signals in the North Sea.
During World War Two, it helped locate German U-boats in the Atlantic. By the Cold War it shifted to monitoring Soviet communications.
Staff would work in a dank, often smelly bunker.

"The room was full of people, headphones on. Your role was to not miss a beat," explained one veteran.
"If you wanted to go to the toilet, you had to put your hand up, somebody's got to come in and take your place," says Sheila, the current director of the base who, like other staff, only gives her first name to protect identities.
During the Cold War, the US and UK, along with Australia, Canada and New Zealand, formed the so-called "five eyes" which divided up intelligence gathering around the world.
Scarborough's focus was the Soviet Baltic fleet but it was also assigned Soviet merchant shipping in the northern hemisphere.
'Top priority'
In 1962, this normally relatively unimportant responsibility suddenly thrust the base into the centre of world affairs.
"Traditionally just another task at the bottom of Scarborough's priority list, suddenly escalated to the very top priority for British intelligence," Tony Comer, GCHQ's historian tells the BBC.
President John F Kennedy was told on 16 October that the Soviet Union was secretly shipping nuclear missiles on to the island of Cuba, just 90 miles from America.
Some of his advisers - including the military - pushed for an immediate invasion of the island but Kennedy opted instead for a naval blockade on further shipping arriving, which was announced on the evening of 22 October.
Some Soviet ships were already on their way to the island. The question was whether they would break through the blockade. If they did, the risk was a conflict which could escalate into nuclear war.
The operators in the Scarborough bunker were able to intercept the Soviet ships reporting back their position and then use that to establish where they were heading.

The Joseph P Kennedy was used in the blockade of Cuba during the 1962 Cuban missile crisis
"Were the Soviets going to call Kennedy's bluff or not? Scarborough was the organisation that was able to say exactly where these vessels were, when they stopped sailing towards Cuba and when they turned around and headed back to the Soviet Union," explains Mr Comer.
A key report sent by Scarborough - entitled Soviet Merchant Ship Changes Course - has just been declassified.
White House line
It says that on 24 October the Kislovodsk - a Soviet cargo ship - reported a position north-east of where it had been 24 hours earlier confirming it had "discontinued" its voyage and turned back towards the Baltic.
The next day, reports show more ships originally bound for Cuba alter their course and return to Soviet ports. On the surface the reports, some parts of which are still classified and blacked out, are no different from others Scarborough would have distributed in normal times.
But in this case a copy was also sent straight to the White House Situation Room. They would provide the first indications that the crisis was not going to escalate.
Within days, talks began which would bring the world back from the brink of war.*

Part one of The Secret History of GCHQ is on BBC Radio 4 on Monday 21 October at 20:00 BST and on BBC Sound

Part two of The Secret History of GCHQ is on BBC Radio 4 on Monday 28 October at 20:00 BST and on BBC Sound

https://www.bbc.co.uk/news/uk-50098955

** It's worth remembering the part played in this matter by Messrs Greville Wynne and Oleg Penkovsky. Wynne was banged up in Soviet Russia for his part in being the contact man between MI5/CIA and Penkovsky. It was Penkovsky's product that enabled JFK to surmount and better negotiations with Nikita Khrushchev.*
Greville Wynne was swapped for the leader of the Portland Spy Ring, Gordon Lonsdale/Konon Trofomich Molody but poor Penkovsky was executed with a pistol.

This will be the last newsletter of 2019; the list owners and moderators particularly wish all those who have contributed throughout 2019, our members, those of N&O and Priyom and all other readers Compliments of the Season.

Now onto the Intercepts ……..

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.

UNIDENTIFIED – Possibly RDL – Russian Navy

Edd, (E.SMITH), found this station in progress on 5209kHz on 16 October that he first thought was an M01a transmission. After trying to identify the station he sent a recording to Ary, (AB), who believes it may be the Russian Naval station RDL – possibly radar plotting, but as with much of the Russian output, the actual purpose is unknown.

Edd reports that the transmission sounded very Russian, machine sent with bad spacing/sending from the operator and chirp from the transmitter.

Along with us at ENIGMA, Edd wishes to thank Ary for the tentative identification and information.

Recorded and transcribed Edd Smith. Identified and reformatted by Ary Boender, (AB).

Although the transcription is written as a continuous log, there were long periods of silence between each of the sequences.

5209kHz 1320 (IP) – 1501z 16 Oct (In progress when found & ongoing when monitoring ceased) (SDR Silec. Poland) E.SMITH WED

10204 73337 5722
10207 73347 6322 30207 02072
10204 73337 7920 202 0420
10204 27
10204 73337 7934
10204 73337 7438
10204 73337 644 210
20420 10604 09
10204 73337 59 45
10204 73337 59 1 I I I I 10204 73337 6948 2020
10208 73317 6850
10204 73337 7852
10208 73317 69 52 20208 701030503
10208 1 I I I 10208 73317 7455
10204 73337 6856
10208 73317 7958 202 III 20208 9x 10 30 2234 02080208 0
10204 73337 5859
10204 73337 5402
10203 73337 5804
10204 733 – Signal cut off midway through last digit.
10204 73317 7909
10204 73337 954 12
10204 73337 x913 2000 III 20204 21030409
10204 73337 69x6
10204 73357 6918 20204 2010304 09
10204 73337 6xxx
10204 73337 6922 20204 2010304 27
10204 73337 6424
10204 73337 7427
10204 73337 7830 20204 2010304 00
10204 73337 7932
10204 73337 6935
10204 73337 5938
10204 73337 6844
10204 73337 7846
20204 2010304 26
10204 73337 395950 10209 73317 6950
10204 73337 7954 10209 73317 5154 20209 20105 0603
10204 73337 6857 10209 73317 9956 20209 20104 0633
10209 73317 2758
10204 73337 954 00 10209 73317 12 00

The recording finished 1501z, a few seconds after the last string transcribed, & it's likely the station transmitted for a long time after that. There was some QRM from XJT and fading, seen where x's replace numbers I couldn't transcribe. *[Good catch, Edd. Thanks for reporting – Ed]*

RUSSIAN PACIFIC NAVY

André, F5JBR has submitted a transcript of traffic from Russian Naval ship RAK83 working RJD93 on 08 September.

André writes; ' The 2nd message transmitted by RAG83 at 1236z is interesting as it combines groups with 5 digits & groups with 6 digits'

Any information about this message would be appreciated.

3654 RAK83 0932z 08 Sep Russian Navy Pacific Fleet, SHIPS. RAK83 Wkg RJD93 in Simplex (Via SDR Japan) F5JBR SUN

Traffic heard :
[1232z]
RJD93 DE RAK83 QSA ? QTC K
RAK83 DE RJD93 QSA 2 QRV K
RAK83 208 36 8 1530 208 = RAK83 FOR RJS RJD97 = 11111 05657 49261 77928 34972 27722 82421 03367 51220 64738 =
RJD93 BK BK RPT AA 11 K
[1236z]
RAG83 QSP FI6 OK ? SLD RPT 11 AA = 57044 508821 504297 509449 509448 508822 505108 506769 506768 509447 =
509873 507497 509515 509317 507496 509381 505107 35456 76253 73489 =
31080 79174 08032 = AR RAK83 K
[1238z]
RJD93 R 208 K
RAK83 OK PSE QTC K
RJD93 QRV K
RAK83 207 13 8 1500 207 = FM RAK83 FOR RJH48 = 08121 99453 11480 41/98 700// 40105 57020 70201 22200 2//// 3//// =AR RAK83 K
[1241z]
RJD93 R 207 K
RAK83 QRU SK
[1242z]

Morse - Number Stations

Malfunctioning Transmitter - Family 1a

Hans-Friedrich, (HFD), refers to an observation that appeared in the Newsletter 114, page 33, in the S06 section;

"One of the transmitters has a fault on the USB causing a lot of distortion and sounds high on frequency, but sounds fine when listening in AM mode."

Hans-Friedrich adds the following from his personal monitoring. 'According to my observations this transmitter has a distorted modulation, a hum around the carrier frequency and the carrier 1 kHz above the nominal frequency. I've found this transmitter in September responsible for several transmissions within Family 1a:

E17z	0800/0810z	14261/12931 kHz	217 sked heard on 05 September
M14	1900/2000z	5275/ 4874 kHz	735 sked heard on 06 September
S06s	0900/0910z	14581/13166 kHz	232 sked heard on 02 September
	0800/0810z	11636/10421 kHz	127 sked heard on 03 September

We at the Morse desk also experienced a similar event on 12 September for the M01 1800z & 2000z schedules, with both transmissions 1kHz / 2kHz high. Could this also be this same transmitter?

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

Variant formats continue to be used on an irregular but frequent basis. Four variant formats have been identified

Standard Format:	197 (R4m) 117 117 30 30 = = 93447 .... 20478 = = 117 117 30 30 000	(Still the most commonly used format)
Variant Format 1:	197 (R4m) 147/30 147/30 78902 ... 86083 147/30 000	(Not used for some time now)
Variant Format 2:	197 (R4m) 521=30 = = 521=30 = = 46547 ... 88305 = 521=30 = = 521=30 0=0=0	(Not used for some time now)
Variant Format 3:	463 (R4m) 127 30 = = = = 84820 ... LG 82607 = = = = 127 127 30 30 000	(Used twice in Sept. only)
Variant Format 4:	197 (R4m) 589 589 = 30 30 = = 40728 .... 58918 = = 589 589 = 30 30 000	(Used numerous times in Sep/Oct)

September 2019:

5020	2000z	03 Sep	'463' 578 30 = = = = 28258 ... 29412 = = = = Strong, fast. Errors grp07 & 12	Format 3	BR	TUE
	2000z	05 Sep	'463' 217 30 = = ... 64390 = = Good, slow. Missed first 4 grps. Error grp12		BR	THU
	2000z	10 Sep	'463' 117 30 = = 46752 ... 45245 = = Strong, slow. Grp01 sent as 446752 46752		BR	TUE
[5022]	2000z	12 Sep	'463' 482 30 = = 42682 ... 77141 = = Fair, fast. Two errors. TX appeared 2kHz high		BR/HFD	THU
	2000z	19 Sep	'463' 346 30 = = ... 04691 = = Fair, fast. Late monitoring - missed first 5 grps		BR	THU
	2000z	24 Sep	'463' 917 30 = = 49724 ... 03280 = = Good, fast. Some hesitation in places. Repeat error grp10		BR	TUE
	2000z	26 Sep	'463' 934 30 = = 80177 ... 07131 = = Good, fast. Muddled grps from 13 to 19		BR	THU
5475	1800z	03 Sep	'463' 893 30 = = = = 23065 ... 14608 = = = = Strong, fast. Errors grp01 & 13	Format 3	BR	TUE
	1800z	05 Sep	'463' 151 30 = = 60465 ... 76443 = = Weak/Fair, slow. Errors grp05 & 26		BR/HFD	THU
	1800z	10 Sep	'463' 121 30 = = 74276 ... 91148 = = Good, very slow. No errors in msg. Only one GC at end.		BR	TUE
[5476]	1800z	12 Sep	'463' 910 30 = = 07182 ... 42499 = = Good, fast. Multiple errors. TX appeared 1kHz high		BR	THU
	1800z	17 Sep	'463' 157 = 30 = = 45899 ... 79938 = = Fair/Good, slow. Repeat error in grp14	Format 4	BR	TUE
	1800z	19 Sep	'463' 321 30 = = 66140 ... 24606 = = Fair/Good, fast. Several noted errors.		BR/ER	THU
	1800z	24 Sep	'463' 542 30 = = 70361 ... 08933 = = Strong, fast. Some hesitancy at times. No errors		BR	TUE
	1800z	26 Sep	'463' 137 30 = = 46400 ... 519 . . = = Strong, fast. Errors grp17 & grps28-30		BR	THU
6260	**1455z**	07 Sep	'463' 779 30 = = 91665 ... 62365 = = Fair, fast. Multiple errors throughout transmission		BR/E.SMITH/HFD	SAT
	1500z	21 Sep	'463' 219 = 30 = = 88128 ... 99041 = = Poor but readable	Format 4	E.SMITH	SAT
	1500z	28 Sep	'463' 756 = 30 = = 79544 ... 54771 = = Fair, fast. Error grp30, otherwise good.	Format 4	BR	SAT
6510	0659z	01 Sep	'463' 350 30 = = 40849 ... 95821 = = On grp23 repeated the number 6 continuously for 7 secs.		E.SMITH/HFD	SUN
	0700z	08 Sep	'463' 430 30 = = 76532 ... 64510 = = Good, clear		E.SMITH	SUN
	0700z	15 Sep	'463' 317 30 = = 69161 ... 78543 = = Good, clear		E.SMITH	SUN
	0700z	22 Sep	'463' 327 = 30 = = 29382 ... 44277 = = Good, clear. = after GC missed at start of msg.	Format 4	E.SMITH	SUN
	0700z	29 Sep	'463' 996 = 30 = = 11431 ... 52312 = = Fair, slow. Two sequences of garbage. Rest OK	Format 4	BR	SUN

October 2019:

5020	2000z	01 Oct	'463' 783 30 = = 82403 … 04622 = =	Fair, med-fast. Slow call-up. Grp05 sent once only	BR	TUE
	2000z	03 Oct	'463' 713 = 30 = = 51456 … 44755 = =	Fair, slow. Noisy freq. No noted errors Format 4	BR	THU
	2000z	08 Oct	'463' 810 30 = = 37431 … 64111 = =	Good, fast. Numerous errors noted.	AB/BR	TUE
	2000z	15 Oct	'463' 205 = 30 = = 87062 … 85273 = =	Good, slow. Excellent Morse. No errors Format 4	BR	TUE
	2003z	17 Oct	'463' 521 30 = = 48883 … 50689 = =	Good, med-fast. Late start, short call-up. Errors noted	BR	THU
	2000z	22 Oct	'463' 716 30 = = 87916 … 21329 = =	Fair, slow. TX keyed-up over msg. Several errors noted	BR	TUE
	2000z	24 Oct	'463' 371 30 = = 76866 … 75142 = =	Fair, fast. Excellent, brisk Morse. No errors	BR	THU
	2000z	29 Oct	'463' . 38 30 = =	Weak with high noise. Mostly unreadable	BR	TUE
	2000z	31 Oct	'463' 617 = 30 = = 54767 … 47491 = =	Weak/Fair, slow. Difficult copy. Errors noted. Format 4	BR	THU
5475	1800z	01 Oct	'463' 761 30 = = 69259 … 60055 = =	Good, med-fast. Slow call-up. Corrected error grp12	BR/ER	TUE
	1800z	03 Oct	'463' 117 = 30 = = 65074 … 17855 = =	Good, slow. Grp09 sent once only. Format 4	BR	THU
	1800z	08 Oct	'463' 407 30 = = 57514 … 07546 = =	Fair, fast. Numerous errors noted	AB/BR/ER	TUE
	1800z	22 Oct	'463' 281 30 = = 18 .24 … 60805 = =	Weak, slow. Difficult copy. No noted errors	BR	TUE
	1800z	24 Oct	'463' 329 30 = = 70500 … 50354 = =	Fair, fast. Several errors inc. starting sequence	BR	THU
	1800z	29 Oct	'463' 411 30 = = 13755 … 72777 = =	Fair, med-fast. Errors noted. Difficult copy at times	BR	TUE
	1800z	31 Oct	'463' 211 = 30 = = 84608 … 70337 = =	Good, slow. Excellent Morse with no errors. Format 4	BR	THU
6260	1500z	05 Oct	'463' 712 30 = = 36444 … 37036 = =	A complete mess! V. badly sent	AB/E.SMITH	SAT
	1500z	12 Oct	'463' 335 30 = = 71193 … 55563 = =	Good/Clear.	E.SMITH	SAT
	1500z	26 Oct	'463' 147 30 = = 40851 … 20358 = =	Good, slow. Several errors noted	BR	SAT
6510	0700z	06 Oct	'463' 861 30 = = 25144 … 49536 = =	Fair, med-fast. Three grps shortened on repeat to 4-fig	BR/E.SMITH	SUN
	0700z	13 Oct	'463' 373 30 = = 55212 … 65814 64 08 0181 358 then off.	Very badly sent. No message ending	AB/E.SMITH	SUN
	0700z	20 Oct	'463' 611 30 = = 43241 … 48652 = 6 AAA AAA = 611 3929 HH 611 30 0 0 0	Good/Clear	E.SMITH	SUN
	0700z	27 Oct	'463' 250 = 30 = = 55026 … 25235 = =	Fair, slow. Good Morse. No errors. Format 4	BR	SUN

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

5344	1730z (IP)	24 Sep	. . .73 91002 30203 75088 35162 22986 49154 44652 44980 08716 30612 40930 23411 78233 65782 51724 83643 96627 54012 12629 55674 00288 98417 52130 08157 62046 99573 47453 31757 31303 43328 = 406 31 111 78233 111 40731 111 000	AB	TUE
5344	1710z	25 Sep	934 934 934 94607 94607	AB	WED

93
111
333 93827 93827
333 93827 93827
111
1
111 95477 95477
111
1
111 999
698 31 39590 15250 15250 84462 15763 49806 46070 78265 25902
30782 30471 89212 34972 91388 54735 02907 20039 20180 34966
88321 10592 65874 79848 64766 84091 93788 24686 50089 50169
18686 01935 63493 ? **698 31**
111 460 050
111 304 061
111 000

*[**698 31** would appear to be the DK & GC for the message & should be sent as 698 31 = & = 698 31 (AB)]*

3882	1411z	23 Oct	598 (x3) 79153 (x2) 598 (x3) 79013 (x2) 598 (x3) 000	F5JBR	WED
5390	1427z	23 Oct	929 (x3) 88505 (x2)	F5JBR	WED
4442	0658z (IP)	24 Oct	(In Progress) ….. 29935 = 132 30 111 132 30 111 33 333 211 33 29935 000	F5JBR	THU

Here are Edd's, (E.SMITH), M01a logs in chronological order;

M01a Training

4961	1205 (IP) – 1210z	11 Sep	327 (Rx3 min)	(SDR Silec, Poland)	E.SMITH	WED

617 617 10 10 = = 45646 45646 85021 85021 65847 65847 92468 92468 01643 01643
24094 24094 85465 85465 41850 41850 74498 74498 = = 617 617 10 10 0 0 0 0
(Only nine groups repeated)

4036k 0726 (IP) - 0731z 17 Sep 618 (x3) 90414 (x2) (Repeated) (SDR Silec, Poland) E.SMITH TUE
618 (x3) 90964 (x2) (Repeated)

4976 1238 (IP) – 1242z 17 Sep 109 (Rx1 min 20s) (SDR Silec, Poland) E.SMITH TUE
498 10 10 = = 46549 46549 84740 84740 13478 13478 96045 96046 40698 40698
70466 70466 31873 31873 54076 54076 84579 84579 84105 84105 = = 498 498 10 10 0 0 0

4905 1240 (IP) – 1247z 17 Sep 986 (Repeated) Weak/Chirp (SDR Silec, Poland) E.SMITH TUE

4883 0851 (IP) – 0901z 18 Sep 153 (Repeated) Weak/Chirp (SDR Silec, Poland) E.SMITH WED

4076 0740 (IP) - 0742z 19 Sep Good/Clear *(Paired Grps)* (SDR Silec, Poland) E.SMITH THU

. . 849 41560 41560 54535 54535 84709 84709
84750 84750 13654 13654 84035 84035 46841 46841 35498 35498 = = 958 958 10 10 0 0 0

5278 0721 (IP) - 0724z 25 Sep Good/Clear. Sent well slowing for last nine groups (SDR Silec, Poland) E.SMITH WED
. . . 48 42666 20599 14979 34230 46833
60938 05124 81945 11107 81154 87189 79955 44714 07759 96064
91799 44265 46206 41745 19297 = 569 35
111 0 0 0

5315 0801 (IP) - 0811z 25 Sep … 38216 30947 38800 = 124 33 (SDR Silec, Poland) E.SMITH WED
111 999
611 999
… 58789 52014 06244 10222 58546 80068 = 125 30
111 0 0 0

Due to a weak signal and fading, and I've omitted the messages. They were also sent very badly (even worse than other M01 family transmissions) which is quite regular with M01a Training, just a string of numbers with intermittent, arbitrary spacing, a lot of message mistakes indicated by the six dot key, and changes in speed.

5804 0805 (IP) - 0818z 25 Sep 623 (x3) 77438 (x2) (Repeated) (SDR Silec, Poland) E.SMITH WED
111
0 0 0

… (6min 50s)
623 (x3) 77272 (x2) (Repeated)

4555 0717 (IP) - 0731z 26 Sep Signal mostly good/clear, with a little strong fading. (SDR Silec, Poland) E.SMITH THU
The message was sent neatly by machine, the 111 999's poorly by hand.

. . 694
34479 45170 51905 57731 47578 61044 77985 03097 82964 99185
31704 96399 47348 93093 98179 27972 72651 923xx 03334 80204
68441 28608 30333 31228 = 223 34
111 999
439 32 = 72276 99165 30364 63394 04520 92303 41667 31252 37xxx xxx97
72060 49240 44137 16233 29683 18463 45765 70385 25654 01614
47800 47721 04907 71535 47779 80291 83797 33607 51030 40967
19982 2199x = 439 32
111 999
127 31 = 52777 66322 68288 90780 74306 97660 21828 63090 81537 05942
10780 58898 84813 37173 88418 94798 77215 88842 22694 99016
98005 08535 00093 92078 19172 77478 43814 62452 94405 72070
90069 = 127 31
111 999
933 37 = 32125 59007 36237 41734 41142 37155 13844 48645 54457 14981
23950 96696 79402 16736 52620 93635 77312 39670 61656 41354
68469 77429 68056 46650 71502 12877 79636 8465x x8454 27525
84602 27249 83418 71905 44397 76889 45979 = 933 37
111 0 0 0

M01a Training

4614k 0737 (IP) - 1109z 15 Oct Reception good/clear. Morse slow & well sent by machine. (SDR Silec, Poland) E.SMITH TUE
Triple ones and zeros keyed badly by hand. Monitored freq until 1258z, no more activity

333 67018 67018 (Rx3 min)
333 67318 67318 (Rx3)
111
0 0 0 (0744z)

… 1051z 513 (x3) 333 67492 67492 (Rx3) Third sending ends after one 5fig with the six dot mistake key.
333 67679 67679 (Rx2)
111
0 0 0 (1057z)

… 1105z

513 (x3) 67367 (Rx2)
333 67679 67679 (Rx2)
111
111
0 0 0 (1109z)

M01a Training

5360 1009 - 1017z 29 Oct Good/Clear. Slowly & well sent by machine (SDR Silec, Poland) E.SMITH TUE
Triple ones & nines sent by hand. Some speeding and slowing of machine WPM during messages.

747 (x3) 41052 (x2) (Rx5)

111 999

523 12 = 96492 86220 39296 79493 81691 40541 37444 44044 88734 95882 88770 01740 = 523 12

111 523 12 = 96492 86220 39296 79493 81691 40541 37444 44044 88734 95882 88770 01740 = 523 12

111 0 0 0

333

333

0 0 0 Recorded until 1500z with no more activity.

4476 0820 (IP) - 1326z 30 Oct Good/Clear (SDR Silec, Poland) E.SMITH WED

929 9

929 (x3) 98857 (x2)

0821z
… 1318z
Test Tone/9 (Digit sent over tone)
929
929 (x2) 99712 (x2) (Rx3)
…
333 90911 90911 (x3)

111 0 0 0 Recorded until 1449z with no more activity.

4454 0847 (IP) - 1141z 30 Oct Fair/Readable, and fairly well sent by machine. (SDR Silec, Poland) E.SMITH WED

346 (x3) 81846 (x2) (Rx3)

346 (x3) 81956 (x2) (Rx4)

346 (x3) 81956 0 0 0

0851z
… 0946z
702 7

346 (x3) 81246 (x2) (Rx4)

346 (x2) 81246 8124

111 0 0 0

0949z

… 1040z

346 (x3) 82385 (x2) (Rx4) 346 3

346 (x3) 82385 (x2) (Rx3)
346 (x3) 8238 0 0 0

1044z
… 1054z
346 (x3) 82375 (x2)
346 (x3) 82375
...
111 0 0 0
…
46 (Rx1min15s)

1058z
… 1136z
346 (x3) 82352 (x2)
346 (x3) 82352

82352
346 (x3) 82352 (x2)

346 346

346 (x3) 82352 (x2) (Rx5)

346 (x3) 82452 (x2) (Rx3)

34

0 0 0 Recorded until 1449z with no more activity.

M01b

Many M01b schedules have been starting 2 minutes early. Thanks to Edward, (ER), for his observations on this over the last few months.

September 2019:

3510//4605	1832z	19 Sep	'201' 121 121 30 30 = =	Good//Strong	BR/ER	THU
3520//4585	2010z	13 Sep	'582' 121 30 = 46594….		HFD	FRI
3535//4590	1810 - 1825z	02 Sep	'420' 121 30 = 46594 ... 27593 000	Good//Strong	BR/HFD	MON
3535	1808z	09 Sep	'420' 121 30 =	(SDR Utwente)	ER	MON
	1810z	16 Sep	'420' 121 30 = 46594 76615....	Good//Strong	BR	MON
3535	1810z	23 Sep	'420' 121 30 =	(SDR Utwente)	ER	MON
3535	1810z	30 Sep	'420' 121 30 =	(SDR Poland)	ER	MON
3625//4940	1902z	06 Sep	'153' 121 30 = 46594 76615....	Strong//Strong	BR	FRI
	1902z	20 Sep	**'158'** 121 30 = 46594…. //4940	(Call '153'expected)	HFD	FRI
3645//4455	1915z	02 Sep	'771' 121 30 = 46594 76615....	Strong//Strong	BR/HFD	MON
	1915z	16 Sep	'771' 121 30 = 46594 76615....	Strong//Good	BR	MON
3715//4570	1940z	19 Sep	'477' 121 30 = 46594 76615....	Good//Good	BR	THU

October 2019:

3510//4605	1832z	03 Oct	'201' 391 31 = 60044….		HFD	THU
3535//4590	1810 – 1828z	07 Oct	'420' 391 31 = 60044 … 64918 000	Good//Strong	BR	MON
	1810z	14 Oct	'420' 391 31 = 60044 96307….	Good//Strong	BR	MON
3625	1902z	04 Oct	'153' 391 31 = 60044 96307 … 90392 64918 000		ER	FRI
3625//4940	1902z	18 Oct	'153' 391 31 = 60044 96307….	Good//Good	BR	FRI
3645//4455	1915z	07 Oct	'771' 391 31 = 60044 96307….	Strong//Strong	BR	MON
	1915z	14 Oct	'771' 391 31 = 60044 96307….	Strong//Strong	BR	MON
3715//4570	1940z	03 Oct	'477' 391 31 = 60044….		BR	THU
	1942 – 1959z	10 Oct	'477' 391 31 = 60044 96307….	Strong//Strong	BR	THU

M01b 3535//4590kHz 1810z 02 Sept 2019

420 (R4m) 121 121 30 30 = =

46594 76615 16963 82877 22278 50126 07627 24885 64341 07620 36658 01507 76115 30885 14693 17567 76877 50257 23619 07915 08039 80231 07990 61611 95485 50532 70533 33866 21722 27593 = =

121 121 30 30 000

Courtesy BR

M01b 3625kHz 1902z 04 Oct 2019

153 (R4m) 391 391 31 31 = =

60044 96307 55158 97872 59068 28494 14912 50285 72443 17686 65475 97095 66072 99508 81678 87409 71755 51546 23720 06645 74201 99518 26389 46282 19205 47853 23236 04337 48613 90392 64918 = =

391 391 31 31 000

Courtesy ER

M08a XVIII ICW / CW, some MCW
No Reports

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

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

Asiatic M12 Scheds

10836/10136/9136	0700/20/40z	05 Sep	811 1 (6375 108) 64177 46127 ... 93860 81186 000 000		AB	THU
17429/16219/15929	0010/30/50z	28 Oct	429 1	(Via KiwiSDR CHN)	HFD	MON

European M12 Logs

September2019: **New scheds in bold type**

7961/6861/---	**2100/20/40z**	**13 Sep**	**988 000**	BR		FRI
	2100/20/40z	20 Sep	988 000	BR		FRI
	2100/20/40z	**21 Sep**	**988 000**	BR		SAT
	2100/20/40z	27 Sep	988 1 (235 140) 05083 70025....	BR		FRI
	2100/20/40z	28 Sep	988 1 (235 140) 05083 70025....	BR		SAT
8047/6802/5788	1800/20/40z	02 Sep	463 1 (2190 92) 86143 25464....	BR/ER		MON
	1800/20/40z	09 Sep	463 1 (7121 99) 90922 53927....	BR/ER		MON
	1800/20/40z	16 Sep	463 1 (7687 100) 02538 90025....	BR		MON
	2000/20/40z	21 Sep	463 1 (900 248) 10469 00158 ... 92320 84711 000 000 Long msg tonight!	AB		SAT
	1800/20/40z	23 Sep	463 1 (900 248) 10469 00158.... (Repeat of Sat 21 Sep)	BR/ER		MON
8047	2000z	28 Sep	463 1 (5109 97) (SDR Poland)	ER		SAT
	1800/20/40z	30 Sep	463 1 (8937 99) 45658 48733....	BR/ER		MON
9246/8146/6846	2110/30/50z	02 Sep	218 1 (266 102) 26356 60162....	BR		MON
	2110/30/50z	19 Sep	218 000	BR		THU
	2110/30/50z	23 Sep	218 1 (8088 66) 95358 66381....	BR		MON
	2110/30/50z	26 Sep	218 1 (8088 66) 95358 66381....	BR		THU
9317/10484/11552	0530/0550/0610z	03 Sep	135 1 (1913 111) 38929 72129 ... 11355 54791 000 000 Good/Clear	E.SMITH		TUE
0530/0550/0610z	10 Sep	135 1 (8549 112)	86766 05082 ... 43797 00358 000 000 Fair/QSB3	E.SMITH		TUE
0530/0550/0610z	17 Sep	135 1 (3279 106)	31636 46668 …19432 81541 000 000	E.SMITH		TUE
9364/10364	**0523/0549z**	**17 Sep**	**I.P. … 75655 89337 000 000 0530z** Good/Clear	E.SMITH		TUE
7964/9364/10364	**0500/0520/0540z**	**22 Sep**	**933 000** Good/Clear	E.SMITH		SUN
0500/20/40z	24 Sep	933 000	Good/Clear	E.SMITH		TUE
0500/20/40z	29 Sep	933 000	Good/Clear	E.SMITH		SUN
11435/10598/9327	1710/30/50z	02 Sep	938 1 (1039 110) 67931 78143....	BR/ER		MON
	1800/20/40z	03 Sep	938 1 (6684 110) 1016 . 65385....	BR/ER		TUE
	1710/30/50z	09 Sep	938 1 (2850 110) 68435 12093....	BR/ER		MON
	1800/20/40z	10 Sep	938 1 (5349 108) 80472 56603....	BR/ER		TUE
	1710/30/50z	16 Sep	938 1 (3055 112) 49791 38659....	BR		MON
	1800/20/40z	17 Sep	938 1 (2993 107) 93348 58996....	BR		TUE
1710/30/50z	23 Sep	938 1 (5796 112)	(SDR Utwente) ER	MON		
	1800/20/40z	24 Sep	938 1 (2769 107) 62229 14178....	BR/ER		TUE
	1710/30/50z	30 Sep	938 1 (35.95 104) 60255 1.. 29.... (Weak sigs on all freqs)	BR/ER		MON
12141/11541/10741	**1210/30/50z**	**06 Sep**	**157 000**	E.SMITH		FRI
1210/30/50z	**11 Sep**	**157 1 (6908 23)**	**84238 21405....** E.SMITH	WED		
	1210/30/50z	18 Sep	157 1 (6908 23) 84238 21405....	BR		WED
	1210/30/50z	25 Sep	157 000	BR		WED
12162/11566/10711	1710/30/50z	04 Sep	546 1 (5071 104) 70324 11776....	BR		WED
	1700/20/40z	05 Sep	546 1 (6885 110) 74078 76079....	BR		THU
	1800/20/40z	05 Sep	546 1 (3049 107) 56628 13780....	BR		THU
	1700/20/40z	12 Sep	546 1 (5491 109) 82511 72647....	BR		THU
	1800/20/40z	12 Sep	546 1 (2653 107) 33702 40943....	BR		THU
	1700/20/40z	19 Sep	546 1 (2362 105) 61797 37922....	BR		THU
	1800/20/40z	19 Sep	546 1 (2968 107) 64064 79816....	BR/ER		THU
11566	1730z	25 Sep	546 1 (9302 104) (SDR Utwente)	ER		WED
	1700/20/40z	26 Sep	546 1 (8235 108) 94153 51539....	BR/ER		THU
	1800/20/40z	26 Sep	546 1 (2732 105) 03629 92743....	BR/ER		THU
12218/11118/10218	**2210/30/50z**	**21 Sep**	**212 1 (432 40) 30875 94093....**	BR		SAT
13375/11575/---	1950/2010/2030z	04 Sep	352 000	BR		WED
	1950/2010/2030z	06 Sep	352 000	BR		FRI
	1950/2010/2030z	11 Sep	352 000	BR		WED
	1950/2010/2030z	25 Sep	352 000	BR		WED
16348/14848/13448	1400/20/40z	02 Sep	384 1 (225 54) 32160 38231.... (Only 13448kHz audible)	BR		MON
	1400/20/40z	04 Sep	384 1 (225 54) 32160 38231 ... 14474 00963 000 000 Good/Fair/Poor	E.SMITH		WED
	1400/20/40z	09 Sep	384 000	BR		MON
	1400/20/40z	11 Sep	384 000	E.SMITH		WED
	1400/20/40z	16 Sep	348 000	E.SMITH		MON
	1400/20/40z	23 Sep	348 000	BR		MON
	1400/20/40z	25 Sep	348 000 QSA2/Unreadable	E.SMITH		WED
	1400/20/40z	30 Sep	348 1 (366 79) 89567 88940.... (Only 13448kHz audible)	BR		MON

October 2019:

5794/6794/8094	**2100/20/40**	**04 Oct**	**770 1**	HFD		FRI
	2100/20/40z	**05 Oct**	**770 1 (235 140) 05083 70025….**	BR		SAT
	2100/20/40z	12 Oct	770 000	BR		SAT
	2100/20/40z	18 Oct	770 000	BR		FRI
	2100/20/40z	26 Oct	770 1 (330 95) 62471 98754….	BR		SAT

7464/8164/9364	**0500/20/40z**	**01 Oct**	**413 000**	**Good/Clear**	**(SDR Enschede)**	E.SMITH	TUE
	0500/20/40z	**06 Oct**	**413 000**	**Good/Clear**	**(SDR Enschede)**	E.SMITH	SUN
	0500/20/40z	08 Oct	413 1 (189 119)	23640 65433 … 86429 17864 000 000	Good/Clear	E.SMITH	TUE
	0500/20/40z	13 Oct	413 1 (189 119)	23640 65433 … 86429 17864 000 000	Good/Clear	E.SMITH	SUN
	0500/20/40z	15 Oct	413 000	Good/Clear	(SDR Enschede)	E.SMITH	TUE
	0500/20/40z	20 Oct	413 000	Good/Clear	(SDR Enschede)	E.SMITH	SUN
	0500/20/40z	29 Oct	413 000	Good/Clear	(SDR Enschede)	E.SMITH	TUE
8047/6802/5788	2000/20/40z	05 Oct	463 1 (9635 95)	43551 85536….		BR	SAT
	1800/20/40z	07 Oct	463 1 (4633 95)	2 . .51 45895….		BR	MON
	2000/20/40z	12 Oct	463 1 (3687 100)	71676 99333….		BR	SAT
	1800/20/40z	14 Oct	463 1 (4951 91)	59349 25455….		BR	MON
	1800/20/40z	21 Oct	463 1 (4325 93)	93467 06126….		BR	MON
	2000/20/40z	26 Oct	463 1 (4295 98)	82847 74546….		BR	SAT
8164/6964/5764	2110/30/50z	07 Oct	197 1 (5642 81)	87718 44306….		BR	MON
	2110/30/50z	14 Oct	197 000			HFD	MON
	2110/30/50z	17 Oct	197 000			BR	THU
	2110/30/50z	21 Oct	197 000			BR	MON
	2110/30/50z	24 Oct	197 000			BR	THU
9178	**0740z**	**22 Oct**	**816 1 (9229 36)**	**85901 25181 … 83595 59353 000 000**	**Good/Clear**	E.SMITH	TUE
			Either a random or testing as there was no repeat on any freqs 0700/20/40z Tuesday 29 Oct				
9317/10484/11552	**0530/0550/0610z**	**01 Oct**	**135 1 (9130 109)**	**06760 42482 … 31672 38361 000 000**	**Good/Clear**	E.SMITH	TUE
	0530/0550/0610z	08 Oct	135 1 (4512 107)	87837 08229 … 66553 03447 000 000	Fair/QSB3	E.SMITH	TUE
	0530/0550/0610z	15 Oct	135 1 (5409 105)	11957 77908 … 94218 91240 000 000	Fair/Fair/Good	E.SMITH	TUE
	0530/0550/0610z	29 Oct	135 1 (3692 113)	95775 32536 … 28420 02277 000 000	Good/Clear	E.SMITH	TUE
9327 1840z		01 Oct	938 1 (2714 105)		(SDR Poland)	ER	TUE
11435/10598/9327	1710/30/50z	07 Oct	938 1 (2259 107)	10056 50486….		BR	MON
11435	1800z	08 Oct	938 1 (5702 105)		(SDR Utwente)	ER	TUE
	1710/30/50z	14 Oct	938 1 (3909 105)	93574 57097….		BR	MON
	1710/30/50z	21 Oct	938 1 (3719 107)	77703 42685 … 66363 81815 000 000	QSA1	E.SMITH	MON
	1800/20/40z	22 Oct	937 1 (2791 111)	43961 47196…. (11435kHz NRH)		BR	TUE
10984/9384/---	1950/2010/2030z	02 Oct	930 000			BR	WED
	1950/2010/2030z	09 Oct	930 000			BR	WED
	1950/2010/2030z	16 Oct	930 000			HFD	WED
	1950/2010/2030z	18 Oct	930 000			BR	FRI
	1950/2010/2030z	23 Oct	930 000 (10984kHz NRH)			BR	WED
12162/11566/10711	1710/30/50z	02 Oct	546 1 (7084 107)	98985 66976….		BR	WED
	1800/20/40z	03 Oct	546 1 (9088 112)	17181 54121….		BR	THU
	1710/30/50z	09 Oct	546 1 (7624 105)	85245 15789….		BR/ER	WED
	1700/20/40z	10 Oct	546 1 (8257 108)	39797 22885….		BR	THU
	1800/20/40z	10 Oct	546 1 (8830 104)	71001 00515….		BR	THU
	1710/30/50z	16 Oct	546 1 (5823 109)	87316 13923….		BR	WED
	1700/20/40z	17 Oct	546 1 (1448 110)	41367 68095….		BR	THU
	1710/30/50z	23 Oct	NRH on all freqs			BR	WED
	1700/20/40z	24 Oct	546 1 (9236 108)	35453 15181….		BR	THU
	1800/20/40z	24 Oct	NRH on all freqs			BR	THU
	1800/20/40z	31 Oct	546 1 (9855 106)	18157 57048….		BR	THU
14416/13416/12216	1210/30/50z	04 Oct	442 000			HFD	FRI
	1210/30/50z	11 Oct	442 1 (254 56)	29249 12262 … 74463 67689 000 000	Good/Clear	E.SMITH	FRI
	1210/30/50z	18 Oct	442 1 (254 56)	29249 12262….		BR	FRI
	1210/30/50z	23 Oct	442 000			Gert	WED
18639/17439/15839	1400/20/40z	14 Oct	648 1 (188 59)	42720 95648….		BR/HFD	MON
	1400/20/40z	16 Oct	648 1 (188 59)	42720 95648 … 92638 38098 000 000	Poor/Unreadable	E.SMITH	WED
	1400/20/40z	21 Oct	648 000			BR	MON
	1400/20/40z	23 Oct	648 000			Gert	WED
	1400/20/40z	28 Oct	648 1 (5675 42)	35430 79721 … 05073 39277 000 000	Good/Clear	E.SMITH	MO

10836/10136/9136 kHz, 05-09, 0700/0720/0740 UTC

M12 10836/10136/9136kHz 0770/0720/0740z 05 Sep 2019

811 811 811 1 (R2m) 6375 108 6375 108

64177 46127 73078 18057 46207 86656 80234 62776 47936 96853
23577 64174 78610 36055 66098 51073 67483 67407 55066 41377
08396 43340 99889 01215 59083 55376 98250 34835 33250 32672
59824 04941 46745 84455 38384 31987 62677 61758 20500 99729
64693 86118 21247 92185 76881 65609 11078 28964 58508 61031
27929 35292 70575 31777 82781 03520 55359 36899 82555 79497
74728 41436 33128 68149 93379 49237 55790 50855 38863 73949
51717 76001 49330 24919 17464 87356 24226 16920 60756 99125
82330 22297 05586 86995 21966 83636 64447 66446 20188 23455
79928 33839 00204 72929 50530 89208 27505 26540 47886 85833
31524 73750 32557 82721 33416 90468 93860 81186 000 000

Courtesy AB

M12 9317/10484/11552kHz 0530/0550/0610z 08 Oct 2019

135 135 135 1 (R2m) 4512 107 4512 107

87837 08229 76196 57322 53708 27702 03590 49429 29054 76480 29221 89574 73093
71014 03093 26295 22205 78019 40709 25786 45615 16767 64438 87741 30353 90931
77879 46836 72068 04073 57611 74802 02826 31952 14466 00257 49571 25798 80170
99685 65210 80057 51815 62738 25290 30848 76569 28615 13053 10486 96899 33422
00123 80608 59814 12888 52712 15580 65579 49306 88315 04962 73936 43257 05663
77651 83868 23990 78628 82053 62388 68737 17253 35228 77873 09986 66406 21071
90077 62183 67688 89671 98664 25639 24490 53567 21934 53650 53882 98417 59699
81919 89756 08568 08022 19754 44238 01318 61533 31256 79203 29932 39716 89829
38845 66553 03447 000 000

Courtesy E.SMITH

M14 IA MCW / ICW Short 0

First, here are logs & comments from PoSW,

M14 MCW
Several long-established M14 MCW schedules still active in September and October:-

First + third Wednesdays in the Month 1600 UTC Schedule:-

04-Sept-19:- 6793 kHz, "239 239 239 00000", not too strong, about a "5" on the S-meter, this frequency was used in March and April of this year.

18-Sept-19:- 6793 kHz, "239 239 239 00000", S8. Carrier was up when checked at 1518z.

02-Oct-19:- 6793 kHz, "239 239 239 00000", S8.

16-Oct-19:- 6793 kHz, "239 239 239 00000", strong signal, S9 or over. Carrier was up when checked at 1519z, came to life at approx 1550z for a short time by sending a few 5F groups by way of a pre-transmission test, perhaps.

First + Third Fridays in the Month 1900 UTC Schedule:-
06-Sept-19:- 5275 kHz, "735 735 735 00000", tuned in at approx.. 1902z, on at the same time as the Friday S06 on 8191 kHz. Stopped around 1904:30s, came back after a few seconds with a couple of 5F groups.

20-Sept-19:- 5275 kHz, "735 735 735 00000", had started when tuned in a couple of seconds before the hour, stopped at approx 1903 UTC.

Second + Fourth Wednesdays in the Month 1920 UTC Schedule:-

Easy to overlook this one as it fires up at the same time as the second sending of the Wednesday 1900z start E07 SSB schedule. However, managed to copy it on one occasion:-

23-Oct-19:- 5463 kHz, prediction list says 5464 kHz so I probably didn't have the tuning spot on, call "537", DK/GC "312 312 27 27", strong signal at first, sank down into the noise a couple of times, ended just before 1930 UTC.

M14 Logs:

As always, there were a number of the M14 messages that contained numerous errors or were just a confusing mess. It is believed that these transmissions are for training purposes – although it is difficult to see how some of these transmissions could be of any possible benefit for training!

September2019:

4650	0900z		14 Sep	523 (556 43) = 32456 76545 ... 67754 54327 00000		AB/ER		SAT
	0900z		21 Sep	523 (542 45) **4 4** 25189 90461 ... 73891 04672 542 542 45 45 **4 4** 00000	[Note 1]	AB/ER/HFD		SAT
0900z		28 Sep	523 (546 38) = 12345 56720 … 95178 32060 546 38 = 00000	(SDR Poland)	ER		SAT	
4730	0800z		14 Sep	523 (556 43) = 32456 76545 ... 67754 54327 00000		AB/ER		SAT
	0800z		21 Sep	523 (542 45) **4 4** 25189 90461 ... 73891 04672 542 542 45 45 **4 4** 00000	[Note 1]	AB/ER/HFD		SAT
0800z		28 Sep	523 (546 38) = 12345 56720 … 95178 32060 546 38 = 00000	(SDR Poland)	ER		SAT	
4874	2000z		06 Sep	735 00000 Hum on signal		HFD		FRI
5275	1900z		06 Sep	735 00000		ER/HFD		FRI
5463	1920z		11 Sep	537 (#75 32) = 90635….		HFD		WED
1920z		25 Sep	346 (674 42) = 9065 25146 … 782?? 45279 674 674 42 42 00000	(SDR Poland)	ER		WED	
5947	1820z		24 Sep	346 (674 42) = 9065 25146 … 782?? 45279 674 674 42 42 00000	(SDR Poland)	ER		TUE
5950	1820z		10 Sep	346 (674 42) = Only copied first 4 groups, then faded out...	(SDR Poland)	ER		TUE
16347	0930z		10 Sep	617 00000		E.SMITH/ER//HFD		TUE
				[Note 1] 4 4 sent after Group Count instead of = =				

October 2019:

4650	0900z		05 Oct	523 (253 43) = 89012 56790 …	[Note 3]	AB		SAT
	0900z		12 Oct	523 (721 36) = 89012 56790 … 21060 59084590 = = 00000	(SDR Poland)	ER		SAT
	0900z		19 Oct	523 (721 36) = 89012 56790 …	Note 4]	ER		SAT
4650	1920z		22 Oct	523 (312 27) = 48385 94732 … 83032 62752 00000	(SDR Poland)	ER		TUE
4730	0800z		05 Oct	523 (253 43) = 89012 56790 … 40225 15322 00000	[Note 2]	AB		SAT
	0800z		19 Oct	523 (721 36) = Same msg as last week, only a worse mess	[Note 4]	ER		SAT
	0800z		26 Oct	523 (312 27) = Same msg as last week but not such a mess, 24 grps readable		ER		SAT
5725	1900z		04 Oct	735 00000	(SDR Poland)	ER		FRI
	1900z		18 Oct	725 00000	(SDR Poland)	ER		FRI
5775	1600z		15 Oct	239 00000		HFD		TUE
5463	1920z		09 Oct	537 (312 27) =	(SDR Poland)	ER		WED
5947	1820z		22 Oct	346 (312 27) = 48385 94732 … 83032 62752 00000	(SDR Sweden)	ER		TUE
5950	1820z		08 Oct	346 (312 27) = 48385 48385 … 62752 312 32227 27 = = 00000		AB/HFD		TUE

17458	0930z	10 Oct	617 00000		E.SMITH/ER	THU
17456	0930z	25 Oct	617 00000	Not found on 17485, but tuned round and found it on 17456kHz	ER	FRI

[Note 2] Lots of problems. Several stops. Deep fading. Partly unreadable. Sign off halfway through the message. (AB)

[Note 3] The second transmission was even worse. What a mess.

523 53 253 433 = =
89012 89012 56790 56790 41235 41235 17236 17236 21060 210?0 (12 secs pause)
2617 17845 17845 24060 24060 62340 62340 45210 45210 47321 47321 93476 93476
93164 9316? (6 secs pause) 032 83032 62752 62552 52174 92174 59356 5935?
10561556 123552535 5?525 56720 35?5356553412 5322525552550 (4 secs pause)
0?552555?3223?1225251401013?3253325255355 (5 secs pause) 12555225655O5?555
22522515226152352 5?5522560 (5 secs pause) 555 5553222 52232?2532?252
5258520215 3255?2340225 225 53215322 253 253 433 88 00000 (AB)

[Note 4] The 0800 transmission ended half way through the sending with no ending.
The 0900 transmission was even worse than last week, the first few groups had many different figures in the repeat, and it ended by repeating the first 5 groups, (ER)

M14 4730kHz 0800z 14 September 2019

523 (R4m) 556 556 43 43 = =

32456 76545 87456 65478 90989 13421 45326 76678 43214 65678
34521 61256 32431 98013 41298 54136 26771 43322 66132 98674
21495 56013 90105 71534 76012 43908 76132 54390 76581 21436
15478 05601 32654 87951 65132 43167 86451 24617 84351 43690
21435 67754 54327 = =

556 556 43 43 00000

Courtesy AB

M14 4730kHz 0800z 28 September 2019

523 (R4m) 546 546 38 38 = =

12345 56720 34569 53412 12040 53060 63217 10140 68320 34490
89012 56790 41235 17236 21060 84590 34512 32617 17845 24060
62340 45210 47321 93476 93164 83032 63752 92174 59356 14056
48385 94732 63832 45170 75841 58932 95178 32060 = =

546 546 38 38 00000

Courtesy ER

M23 O ICW

M23 popped up on a frequency previously used a number of times. Thanks to Ary, (AB), for alerting us to this once again.

5345	1010 – 1025z	15 Oct	444 (R15m)	Danix	TUE
	1710 - 1525z	15 Oct	444 (R15m)	AB	TUE
	1010 – 1025z	16 Oct	444 (R15m)	AB/E.SMITH	WED
	1710 – 1725z	16 Oct	444 (R15m)	AB	WED
	1010 – 1025z	17 Oct	444 (R15m)	AB/E.SMITH	THU
	1710 – 1725z	17 Oct	444 (R15m)	AB	THU

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

The last M24 log received by ENIGMA 2000 was for 23 November 2016. The transmission was reported as 'troubled' with several restarts. Since then we have had no reports of this station, although M14 continues to be heard with regular transmissions. We can only assume that the station has ceased & therefore is now classed as inactive & will no longer appear in the newsletter. (For details of the last heard transmission refer to Newsletter 98 – January 2017).

Morse Stations - Not Number Related

M51 XlX

3881//6825 100 grp 5-ltr messages with headers
No reports

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

3881//6825

0700z	21 Sep	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by 2 messages	AB	SAT
0820z	21 Sep	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by 2 messages	AB	SAT

M51b Non-stop 5-character groups composed of M51a messages on 3881//6825kHz

3881//6825

0611z	21 Sep	Non-stop 5-character groups composed of M51a messages	AB	SAT

M89 O

This is a summary of activity from the M89 stations.

Traffic & Operator Chat from M89

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

3045 3187 3785	4059 4102 4109 4324 4347 4542 4963	5280 5520	6652

New Scheds for Sep / Oct 2019: From logs submitted from JPL & F5JBR

4192//4489	Sending same Round Slip Normally sends a different Round Slip on each frequency.	First heard 06 September	V 2B7D (x3) DE 3GR1 (x2)
4550//5355	New Round Slip	First heard 23 September	V SDF2 (x3) DE RF5U (x2)
3842	Known Frequency & Round Slip This would indicate that the R/S on 4192 // 4489 has changed frequency and Round Slip	First heard 02 October	V K9S3 (x3) DE Q5R2 (x2)
3842//4135	Sending different Round Slips	First heard 22 October First heard 22 October	**V DFDH (x3) DE 5JNK (x2)** on 3842kHz **V 3DAU (x3) DE GU5H (x2)** on 4135kHz
10563//NRH	New frequency for this Round Slip	First heard 04 October	V K9S3 (x3) DE Q5R2 (x2)

This confirms that the R/S on 10383 // 6881 has changed frequency and Round Slip

Chart of M89 Freq & Call signs heard in Sep / Oct 2019 New Scheds shown in Bold Type From logs submitted from JPL & F5JBR

Freq in KHz	Call Slip
3156//3597	VVV (x3) 3JWV (x3) DE QH4P (x2)
3842//NRH	V K9S3 (x3) DE Q5R2 (x2)
3842//4135	V K9S3 (x3) DE Q5R2 (x2)
3842//4135	**V DFDH (x3) DE 5JNK (x2)** (Different R/Slip)
3850//4860//6840	Q2M (x3) de NYZ (x2) VVV
4131//NRH	V JKDJ (x3) DE SLBC (x2)
4131//4886	V JKDJ (x3) DE SLBC (x2)
4135//NRH	V K9S3 (x3) DE Q5R2 (x2)
4135//NRH	**V 3DAU (x3) DE GU5H (x2)**
4135//3842	**V 3DAU (x3) DE GU5H (x2)** (Different R/Slip)
4192//4489	V 2B7D (x3) DE 3GR1 (x2)
4489//NRH	V 2B7D (x3) DE 3GR1 (x2)
4550//5355	**V SDF2 (x3) DE RF5U (x2)**

Freq in kHz	Call Slip
4720//5150	VVV WNF (x3) DE FXM (x2)
4860//5920//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
4886//NRH	V JKDJ (x3) DE SLBC (x2)
5177//NRH	V JKDJ (x3) DE SLBC (x2)
5858//10563	**V 3DAU (x3) DE GU5H (x2)**
5920/6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
6913//7397	V 3JWV (x3) DE QH4P (x2)
5961//10383	V 2B7D (x3) DE 3GR1 (x2)
7620//8350	V WNF(x3) DE FXM (x2) (R5) (Hand Sent)
10383//NRH	V 2B7D (x3) DE 3GR1 (x2)
10563//NRH	**V K9S3 (x3) DE Q5R2 (x2)**

3045		2239z (IP) 12 Oct	6UAD U473 A4TD T576. Etc. R R HR WK NR 00210 K	(Remote tuner Novosibirsk)	JPL	SAT
3187		1605z (IP) 04 Oct	GA BT BT 4DU776TAT356ATTD6T7TU5DU3AA35 IIII GA BT BT 4D77U5A5TA56ATTD66U5U4NU35A45 AR (Sent without spaces) R SK (Both stations on this frequency) SK (1606z)	(Remote tuner Shanghai)	JPL	FR
4059	ADCX	1406z (IP) 27 Oct	R IEC .. K (Normally associated with exercise) VV KCBA DE ADCX K (IP – Hand sent – 1406z) VV ADCX DE KCBA R K (1411z)	(Remote tuner Novosibirsk)	JPL	SUN
4102	SE1T	1207z (IP) 21 Oct	FF NR 003/EX 1936 BT Z1L3/X9B6	(Remote tuner China)	JPL	MON
4109		2013z (IP) 12 Sep	MSG NR 171 CK 1.1 17 0913 0411 RMKS 1355 TO 9585 K	(Remote tuner Hong Kong)	JPL	THU
4123		1437z (IP) 19 Sep	MSG NR .405 CK 101 2. 0919 2310 RMKS 4998 TO 45.2 K	(Remote tuner Khabarovsk)	JPL	THU
4542	0K0Q	1345z (IP) 27 Oct	VV BI0X DE 0K0Q K ... QSA 2 IEC BT 5322 AR K (Normally associated with exercise)	(Remote tuner Novosibirsk)	JPL	SUN
5280		1126z (IP) 12 Sep	NR 0262 CK 70 24 0912 1840 RMKS 7830 TO 7831 BT	(Remote tuner Hong Kong)	JPL	THU

6652	PJSL	1039 (IP)	28 Sep	Various calls from PJSL to A5ZH, U8AG, R2WP, Y1TO, EBZE, HSDM, TQJF HR WK NR 668 HR WK NR 668 K		JPL	SAT
					(Remote tuner Hong Kong)		

M89 5280kHz 1126 (IP) - 1129z 12 Sep 2019

R QSL 1845 K (IP – Hand sent - 1126z)
R AS (Both stations on this frequency)
7G HR 7G GA K
R GA
7G NR 0262 CK 70 24 0912 1840 RMKS 7830 TO 7831 BT
R7G 1P BT BT (Sends letter O for zero)
5NTD .N6U T54U U43A D3UA 3U4T 46TN NUAD 56AU 354U
(Cont'd – 1129z)

M89 4324kHz 1135 (IP) - 1137z 20 Sep 2019
5A4N N5T5 4AU6 64U7 5TNU (IP – Cont'd – Hand sent – 1135z)
AR K
R RPT 12W K (1136z) (Both stations on this frequency)
R RPT 12W K
R RPT 12W BT DT45 DT45 AR K
R QSL 1937 K
R ON EEEEE R OX EEEEE R OK K
R SK
R SK (1137z)

M89 4102kHz 1207 (IP) - 1z 18 July 2019
SE1T (IP – Cont'd – Machine sent – 1207z)
FFF NR 003/EX 1936 BT
Z1L3/X9B8
FF NR 003/EX 1936 BT
Z1L3/X9B6
FF NR 003/EX 1936 BT
Z1L3/X9B6
FFF NR 003/EX 1936 BT
Z1L3/X9B6 AR
QSY 13M (Silent – 1209z)

M89 6652kHz 1039 (IP) - 1048z 28 Sep 2019

R RPT K (IP – 1039z)
R KP
VVV A5ZH DE PJSL K (1039z)
R QSL ? K
R QSL ? K
R U WK NR GA K
R KP
VV U8AG DE PJSL K (1041z)
R QSL ? K
R RPT K
R RPT 1P 35W ANT3 K (1041z)
R RPT K
R U WK NR GA K
R KP
VV R2WP DE PJSL K (1043z)
R QSL ? K
VV R2WP DE PJSL K **(1044z)**
VV Y1TO DE PJSL K
VV EBZE DE PJSL K
R QSL ? K (1045z)
R U WK NR GA K
R KP
VV HSDM DE PJSL K (1046z)
R QS EEE
VV HSDM DE PJSL K
VV TQJF DE PJSL K
VV T.JF DE PJSL K
HR WK NR 668 HR WK NR 668 K (1048z)
R SK SK (1048z)

Courtesy JPL

M95 O XSV, XSV70, XSV85

Call Sign 3A7D Round Slip V DKG6 (x3) DE 3A7D (x2)

3A7D has changed all frequencies, but not Round Slip. New frequencies, all previously unknown are now: 3968 // 6936 (night) - 5479 // 10722 (day).

M95 Morse Logs (Bold type indicates new logging)

3361	1708 (IP) - 1716z	19 Sep	NR 307/CCK CK 99 33 0920 0100 RMKS BT		(Remote tuner South Korea)	JPL	THU
3355	1703 (IP) - 1722z	29 Sep	**V BU8G (x3) DE BCF5 (x2)**		(Remote tuner Khabarovsk)	JPL	SUN

V BU8G (x3) DE BCF5 (x2) (IP – Cont'd – Machine sent – 1703z) (Previously unknown call signs)
CLS (X3) (CLS is seen in svc messages from M95 stations. Could this refer to a broadcast at a certain time on a certain frequency???)

NR 326/CCK CK 99 23 0930 0100 RMKS BT CQ AR (Message format indicates M95 family)

3642//NRH	Call Sign 3A7D	(Active daily - only first marker log has been included)					
	1850z	06 Sep	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)		(Remote tuner Novosibirsk)	JPL	FRI
3642//7602	Call Sign 3A7D	(Active daily - only first marker log has been included)					
	2318z	01 Sep	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)		(Remote tuner Novosibirsk)	JPL	SUN
	1420 - 1421z	19 Sep	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) /CCK CK 299 21 0919 2220 RMKS 2093 TO 2013 2917 2968 2948 2233 BT		(Remote tuner Novosibirsk)	JPL	THU
	1424 - 1438z	23 Sep	NR 068 2130 RMKS 2093 TO 2136 BT COMM/2200/XZ364/45/2096/2136 AR NR 115 2230 RMKS 2093 TO 2133 BT CLS/2300/ (Lost audio) NR 001 2240 RMKS 2093 TO 1462 BT			JPL	MON
	1836z	02 Oct	V DKG6 (x3) DE 3A7D (x2)		(Remote tuner Novosibirsk)	JPL	WED
3968//6936	**Call Sign 3A7D**						
2232z	**04 Oct**	**V DKG6 (x3) DE 3A7D (x2)**		(Remote tuner Novosibirsk)	JPL	FRI	
4225	**05 05**	(Known M95 family format)					
	1247 (IP) - 1300z	01Sep	05 05 05 4467 0046 7005 6704	(Plus 4 char. Codes)	(Remote tuner Japan)	JPL	SUN

4243//NRH Message number differs from current XSV70 and XSV85 message numbers.

1151 (IP) - 1152z 26 Sep NR 52 CK 118 35 0926 1559 BT (Into tfc – garbled) (Remote tuner Shanghai) JPL THU

1146 (IP) - 1208z 07 Oct NR 024 CK 23 35 1007 1522 BT (Remote tuner Shanghai) JPL MON
NR 045 CK 37 35 1007 1532 BT
NR 14 CK 212 35 1007 1545 BT

4243//9054 Message number differs from current XSV70 and XSV85 message numbers.
1148 (IP) - 1212z 22 Oct NR 075 CK 15 35 1022 1526 BT (Remote tuner Shanghai) JPL TUE
NR 44 CK 123 35 1022 1545 BT
NR 069 CK 14 35 1022 1610 BT

4364//8073 Call Sign XSV85
1132 - 1148z 12 Sep NR 0.56 CK 1.. 35 0912 .10. BT (Msg not repeated) (Remote tuner Hong Kong) JPL THU
1130 - 1147z 26 Sep NR 0791 CK 207 35 0926 1548 BT (Remote tuner Hong Kong) JPL THU

1130 - 1145z 07 Oct NR 0825 CK 37 35 A007 A555 BT (Remote tuner Hong Kong) JPL MON
NR 0826 CK 218 35 A007 A555 BT

5479//10722 Call Sign 3A7D
0707z 06 Oct V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) (Remote tuner Novosibirsk) JPL SUN

5801//NRH Call Sign 3A7D (Active daily - only first marker log has been included)
1129z 20 Sep V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) (Remote tuner Novosibirsk) JPL FRI

5801//10180 Call Sign 3A7D (Active daily - only first marker log has been included)
0831z 01 Sep V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) (Remote tuner Novosibirsk) JPL SUN

0941z 12 Oct V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) (Remote tuner Novosibirsk) JPL SAT

9000 (Message format indicates M95 Family)
0835 (IP) - 0904z 01 Sep (Remote tuner Novosibirsk) JPL SUN
NR 025/CCK CK 100 21 0831 1700 RMKS BFS BT (0843z)
NR 125/CCK CK 199 21 0831 1700 RMKS BFS BT (0855z)

10180 **Call Sign 3A7D** (Active daily - only first marker log has been included)
0729z 12 Sep V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) (Remote tuner India) JPL THU

0717z 04 Oct V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) (Remote tuner Novosibirsk) JPL FRI

10722//NRH Call Sign 3A7D
0717z 07 Oct V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) (Remote tuner India) JPL MON

M95 9000kHz 0835 - 0904z 01 Sep 2019

DUN5 73A4 6TDA NU63 754T (IP – Cont'd – Hand sent 0835z)
AR HR 7G GA
NR 025/CCK CK 100 21 0831 1700 RMKS BFS BT (0843z)
(Message format indicates M95 Family)
U34N T567 ADNT 647D AU35 37A4 7DTN U54D N45U 6T7A
(Cont'd – 0844z)
AR (0851z)
QSA ? HR WK NR 050 (0851z)
QSL QSL QSL ? (0852z) (Other station N/H on this frequency)
.A5T QSL ?
QSL ? HR WK QSL ? HR WK I S HR WK NR 150 (0853z)
H VV H VV HR 7G GA
NR 0125/CCK CK 199 A EEEEEEE
VVV HR 7G GA
NR 125/CCK CK 199 21 0831 1700 RMKS BFS BT (0855z)
VV HR 7G GA
NR 125/CCK CK 199 21 0831 18A (0856z)
DE DE
? F VVV HR 7G
VVV CG K EEEEE
VV CD5K CD5K DE 4944 4944 K
V R 4944 DE CD5K R QSA EEEE (Both stations now on freq.)
N 4494 DE CD5K R QSA 2 QSL ? K (0859z)
N QSA **2 IEC BT 3727 AR K** (Normally associated with exercise)
N HR 7G GA K
IEC 5845 AR K
R HR 7G GA K
HR 7G GA K
7G GA K
MSG A MG T.. 7G 7G
MSG NR GA K
HR 7G GA K
BSF ? (0901z)
QSL ?
QSL QSL ?
HR WK XX XKXXX X XXXXX (0903z)
QSL ? HR WK NR 150 K
BT BT BT U34N 4567 A... 647. QSL 1715 HR WK NR 120
SK BOZZ NN SK
SK (0904z)

Courtesy JPL

M95 4364//8073kHz 1130 – 1147z 26 Sep 2019

XSV85

In Chinese digital 4+4 QPSK 75/3000
In USB vice LSB – 1130z - Switched to LSB (1137z)
Switched to CW – Hand sent (1143z)

V BNGC (x3) DE XSV85 (x2) (1143z)
HR MSGS GA PSE CY (1144z)
NR 0791 CK 207 35 0926 1548 BT (1147z)
TU6 3U6 3AN 3U7 TAU 773 356 4T3 NN3 436 (Cont'd – 1147z)

M95 4243kHz 1146 - 1208z 07 Oct 2019

In Chinese digital 4+4 QPSK 75/3000 – LSB (1146z)
Switched to CW - Hand sent (1150z)

VV HR MSG TO YR PSE CY (1153z)
NR 024 CK 23 35 1007 1522 BT
UT5 TT7 3U6 3A4 TTA TTU TT3 773 35U U4T
353 4AN 446 336 N3D 4TA 437 77A 44N 4D6
3DU N3D 3D4 AR (1155z)
MSG AGN
NR 024 CK 23 35 1007 1522 BT (Repeats message – 1156z)
AR
A HR MSG GA (1158z)
NR 045 CK 37 35 1007 153U BT EEEEEEEE
NR 045 CK 37 35 1007 1532 BT
5AA UTT TT7 3U6 7TA N44 3A4 TTU TT3 773
353 N3D 35U 37U 4TA 446 346 447 46D 34A
446 3DU 3D4 3DU 4D6 TT4 773 353 N3D 35U
4TA 445 346 446 3DA 3DU 4D6 AR (202z)
MSG AGN
NR 045 CK 37 35 1007 1532 BT (Repeats message – 1203z)
AR
A HR MSG GA (1206z)
NR 14 CK 212 35 1007 1545 BT
UTU TT7 3U6 3A4 7TU 7TA NU6 7T5 777 33A
(Cont'd – Unable to monitor any longer - 1208z)

Courtesy JPL

Marker Beacons (MX MXI)

5342	1429z	16 Oct	MX	CW Beacon	"V"		(Via SDR Silec, Poland)	E.SMITH	WED
5343	1345z	31 Oct	MX	CW Beacon	"V"		(Via SDR Silec, Poland)	E.SMITH	THU
7576	1458z	30 Oct	MX	CW Beacon	"P" Kaliningrad	Good/Clear	(Via SDR Enschede)	E.SMITH	WED
	0735z	31 Oct	MX	CW Beacon	"P" Kaliningrad	Good/Clear	(Via SDR Enschede)	E.SMITH	THU
8821	0730z	17 Oct	MX	CW Beacon	"S" Severomorsk		(Via SDR Enschede)	E.SMITH	THU

Oddities

S28 'The Buzzer'

4625	1808z	06 Oct	S28	'The Buzzer' Marker	USB	Scratching sound & normal Buzzer	chpa	SUN

S30 'The Pip'

3756	1814z	06 Oct	S30	'The Pip' Marker (Night Freq)	USB	Moderate	chpa	SUN
	1739z	10 Oct	S30	'The Pip' Marker (Night Freq)	USB	Good	chpa	THU

S32 'Squeaky Wheel'

3828	1816z	06 Oct	S32	'The Squeaky Wheel'	USB	Moderate	chpa	SUN

Contributors: AB, BR, chpa, Danix, E.SMITH, ER, F5JBR, Gert, HFD, JPL, PoSW *Thank you all for your logs.*

Voice Number Stations

E06

E06 Sept/Oct log:

Mondays **0210z kHz** **0310z kHz**

Thursdays **0300z kHz** **0400z kHz**

First /Third Thursday (repeats Friday) **0500z 14370kHz** **0600z 16270kHz**

05/09 '354' 207 61 13375 43673 92068 16435 64609 34000 33118 12012 60419 84299 98583 97759 24125 92015 54863 26541 99390 97309 87017 19928 50406 77757 41004 73112 55149 08375 92564 43102 65142 54168 78716 49913 30151 87387 52771 95438 11269 46674 48835 29672 30811 80295 66712 18993 32463 40642 13160 96182 50124 22188 60423 96867 08879 60092 08004 12079 06531 31633 58575 11608 49146 207 61 00000

19/09 '354' 689 51 01261 76389 27741 38571 85804 75481 58099 24971 66474 25749 86118 58948 57993 52740 74196 95702 77422 97196 78256 50973 58992 82987 56197 81997 02637 53506 18615 84893 79649 93711 07753 33157 43907 79994 15609 11955 22099 25077 77146 27910 81397 10124 99531 99060 98004 21137 13353 54683 75017 32236 56740 689 51 00000

0600z 18425khz 0700z 20230kHz

03/10 '186' 724 50 91170 58519 84373 37056 31774 58398 63680 11180 80511 43290- 47586 95016 56681 86325 59914 73571 89795 32401 86845 61224 44110 39582 77671 74229 24889 29196 88999 20501 71105 68049 89607 92632 64243 31218 68124 75059 07910 18834 10739 01334 57926 25321 41107 22428 07607 84505 39660 72012 57889 39040 724 50 00000

17/10 '186' 932 57 95250 82789 58896 69587 89378 22765 00661 63912 68906 61772 11823 46736 50014 61943 84168 57621 08720 69355 53043 73078 01477 10781 49839 12736 14776 35450 79574 70996 42193 94026 84510 78874 12311 71978 79744 25693 15958 19520 71705 95333 06205 45339 95503 96719 69548 66270 32063 93236 91725 30116 90975 60749 66595 53798 70017 28934 21522 932 57 00000

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

05/09 '891' 979 45 15432 86426 05598 65675 65790 43483 23453 83874 12353 12452 68710 08343 24102 88748 72607 03936 73261 61723 87182 83823 84574 61251 87891 23467 94546 13242 17964 43525 12121 21198 64265 42346 56781 44322 38765 32145 63451 22344 56944 13368 78965 12368 12346 73456 32422 979 45 00000

19/09 '891' 472 52 12265 10965 47839 38654 84677 93453 72217 84393 04673 97564 01824 75643 84221 95647 92112 94543 76577 43435 47322 84232 95674 87344 57438 45763 49325 57438 92190 96785 21244 05674 01765 76354 83645 21234 97564 82133 07564 83234 75312 71211 05674 65374 67321 94884 23483 82521 41212 57333 85331 53234 05124 95732 472 52 00000

03/10 '891' 472 52 12265…….95732 472 52 00000] 2043z S3 (Was sent as G06 voice instead of the usual English Old Man)

17/10 '891' 472 52 12265……95732 472 52 00000]

Friday following First & Third Thursday 2130z 5197kHz (frequency may vary slightly)

06/09 '634' 979 45 15432 86426 05598 65675 65790 43483 23453 83874 12353 12452 68710 08343 24102 88748 72607 03936 73261 61723 87182 83823 84574 61251 87891 23467 94546 13242 17964 43525 12121 21198 64265 42346 56781 44322 38765 32145 63451 22344 56944 13368 78965 12368 12346 73456 32422 979 45 00000

20/09 Null message followed by a message 634 634 634 00000 (Seems to be a new habit!)
'634' 273 62 64537 27364 28374 34736 39291 27384 37438 28372 27480 94832 74563 38458 83492 29310 18237 74391 37281 17283 84032 72362 84393 67482 56464 69738 26491 32642 13794 83842 23810 47131 95437 82683 73913 74592 43618 74932 74924 74297 43621 94724 84538 85937 34021 83929 90184 72641 84829 74826 48231 83732 72642 85914 38539 34752 75392 83483 75637 73892 95736 64612 84759 76491 273 62 00000 (Thanks Ary)

04/10 '634' 472 52 12265 10965 47839 38654 84677 93453 72217 84393 04673 97564 01824 75643 84221 95647 92112 94543 76577 43435 47322 84232 95674 87344 57438 45763 49325 57438 92190 96785 21244 05674 01765 76354 83645 21234 97564 82133 07564 83234 75312 71211 05674 65374 67321 94884 23483 82521 41212 57333 85331 53234 05124 95732 472 52 00000

Other transmissions:

1740z 13457kHz 1840z 10204kHz

20/10 '634' 219 50 62731 51192 35605 50188 20459 57557 91512 27359 80713 61976 85097 31547 77015 90521 14086 63174 45446 68406 03544 17569 87609 03523 67321 10927 94230 73202 85608 86851 71591 25141 53296 76899 37984 28411 78818 13554 82372 35524 38181 19093 02449 41453 13838 18764 64266 50569 73137 51715 50652 87430 219 50 00000 Thanks Daniel

0900z 9067kHz

24/10 '910' 783 82 10704 62153 32823 82897 89969 99190 91378 91628 59001 99239 06202 39321 68772 21728 72261 64960 09890 73088 63687 24026 58953 07286 80169 39270 26177 32703 25109 10181 96479 86294 20178 04579 81201 60981 86010 80777 22673 97195 43680 13752 18789 74520 16673 23743 59794 64375 38036 30747 94466 29666 92388 83312 67877 82344 47477 35103 97923 34823 54983 67640 82818 06165 25243 82684 56722 69006 05591 12673 35709 48132 16993 22671 21254 06651 28678 02261 53423 80704 75443 70802 30960 48656 743 82 00000 Thanks Daniel & Ary

0750z 9067kHz

25/10 '910' 256 47 60310 87662 47411 39323 80987 05985 70258 92458 54718 82773 34231 09244 07146 06863 61600 66542 25109 00019 74063 12174 19355 49258 48084 10363 95556 80669 77750 24793 13312 73175 37346 00187 37824 35678 60806 28373 13943 96015 80266 09747 17257 75175 90872 46091 61925 45198 34053 256 47 00000 Thanks again to Daniel, and RNGB

Followed by PoSW's logs and analysis:

First + Third Thursdays in the Month 2030 UTC Schedule:-
5-Sept-19:- 5186 kHz, started just a few seconds after the half-hour, better than usual timing for these schedules, call "891", DK/GC "979 979 45 45", ended approx 2041:40s UTC, computer shut-down sounds heard about 55 seconds afterwards.

19-Sept-19:- 5186 kHz, "891", DK/GC "472 472 52 52", same message used many times by both E06 and G06 over the past few years, ended around 2042 UTC. A single spoken "891" heard after a few minutes followed by computer shut-down sound.

3-Oct-19:- 5186 kHz, this schedule came up in the German language and with the G06 YL voice this evening, so this really belongs in the G06 reports. Call "891", DK/GC the ever popular "472 52", message starts with "12265" and ends with "95732".
This appearing in the wrong language has happened on a few previous occasions, the last time appears to be on Thursday 18-April of this year, also with the same message.

17-Oct-19:- 5186 kHz, "891" and "472 472 52 52" again, in English this time.

Friday 2130 UTC Schedule Following First + Third Fridays:-
6-Sept19:- 5197 kHz, call "634", DK/GC "979 979 45 45", same as the previous day's 2030z transmission.

4-Oct-19:- 5197 kHz, call "634", DK/GC "472 472 52 52", same as heard from yesterday's 2030z transmission – but in the expected language.

18-Oct-19:- 5197 kHz, "634" and DK/GC "972 972 42 42".

E07

PoSW's logs and analysis:

Monday + Wednesday Schedule, 1900 UTC Start:-

4-Sept-19, Wednesday:- 1900 UTC, 14584 kHz, "535 535 535 1", DK/GC "724 115" x 2, not too strong.
1920 UTC, 13384 kHz, second sending, pushing the S-meter well over the "9".
1940 UTC, 11584 kHz, also over S9.

16-Sept-19, Monday:- 1900 UTC, 14584 kHz, "535 535 535 1", DK/GC "378 23" x 2, short message, all done in just under five minutes. Weak signal.
1920 UTC, 13384 kHz, much stronger.
1940 UTC, 11584 kHz, peaking over S9.

18-Sept-19, Wednesday:- 1900 UTC, 14584 kHz, “535” and “378 23” again, very weak, only just readable.
1920 UTC, 13384 kHz, S5 at best.
115484 kHz, weak.

23-Sept-19, Monday:- 1900 UTC, 14584 kHz, very weak, could just hear the “000” of a “no message” transmission.
1920 UTC, 13384 kHz, “535 535 535 000”, much stronger.

25-Sept-19, Wednesday:- 1900 UTC, 14584 kHz, “535 535 535 000”, weak but clear.
1920 UTC, 13384 kHz, much stronger, over S9 at times.

2-Oct-19, Wednesday:- 1900 UTC, 11539 kHz, predicted frequency for the first sending in October, very weak signal of some kind, unreadable.
1920 UTC, 10139 kHz, weak but readable, “511 511 511 000”.

7-Oct-19, Monday:- 1900 UTC, 11539 kHz, “511 511 511 1” for a “full message”. DK/GC “103 56”. Strong signal peaking S9 in contrast with the previous Wednesday.
1920 UTC, 10139 kHz, second sending, S7 with QSB.
1940 UTC, 8139 kHz, S6.

9-Oct-19, Wednesday:- 1900 UTC, 11539 kHz, “511” and “103 56” again, weaker than on Monday, S6 at best.
1920 UTC, 10139 kHz, weak.
1940 UTC, 8139 kHz, strongest of the three, peaking S8.

14-Oct-19, Monday:- 1900 UTC, 11539 kHz, “511” and “103 56” again, strong signal.
1920 UTC, 10139 kHz, S8 with QSB.
1940 UTC, 8139 kHz, strong “XJT”, STANAG whatever it is on frequency, not noted before.

23-Oct-19, Wednesday:- Nothing readable from the first sending on 11539.
1920 UTC, 10139 kHz, “511 511 511 000”, very weak signal.

Sunday + Wednesday Schedule, 1700 UTC Start:-

4-Sept-19, Wednesday:- 1700 UTC, 12139 kHz, “161 161 161 000”, strong signal.
1720 UTC, 10639 kHz, weaker.

8-Sept-19, Sunday:- 1700 UTC, 12139 kHz, “161 161 161 1”, DK/GC “536 139” x 2, strong signal peaking over S9.
1720 UTC, 10639 kHz, second sending, around S6 to S7.
1740 UTC, 9139 kHz, back up to S8.

15-Sept-19, Sunday:- 1700 UTC, 12139 kHz, “161” and “536 139” again, started off strong, weaker by 1705z.
1720 UTC, 10639 kHz, weaker, around S5.
1740 UTC, 9139 kHz, weakest sending of the three, difficult copy.

18-Sept-19, Wednesday:- 1700 UTC, 12139 kHz, “161” and “536 139” still, strong signal.
1720 UTC, 10639 kHz, weaker.
1740 UTC, 9139 kHz, back up to around S8.

25-Sept19, Wednesday:- 1700 UTC, 12139 kHz, “161 161 161 1”, DK/GC “659 121” x 2, S9 with QSB.
1720 UTC, 10639 kHz. A couple of S-points weaker.
1740 UTC, 9139 kHz, interference from a wide-band pulse signal extending from approx 9125 to 9140, went off during the call-up routine.

29-Sept-19, Sunday:- 1700 UTC, 12139 kHz,”161” and “659 121” again, weak signal.
1720 UTC, 10639 kHz, and 1740 UTC, 9139 kHz, both S5 to S6.

2-Oct-19, Wednesday:- 1700 UTC, 11156 kHz, “130 130 130 1”, DK/GC “659 121” x 2, same message as in the last week of September.
1720 UTC, 9356 kHz, side-band splash from what sounded like Chinese music on a close frequency.
1740 UTC, 8056 kHz, S7.

13-Oct-19, Sunday:- 1700 UTC, 11156 kHz, “130 130 130 000”, strong signal.
1720 UTC, 9356 kHz, weaker, slight interference from the broadcast station.

Saturday + Sunday Schedule, 0600 UTC Start:-

7-Sept-19, Saturday:- 0600 UTC, 9064 kHz, “024 024 024 1”, DK/GC “634 48” x 2, S5 to S6.
0620 UTC, 10264 kHz, second sending, S7.
0640 UTC, 11464 kHz, S6 to S7.

8-Sept-19, Sunday:- 0600 UTC, 9064 kHz, “024” and “634 48” again, around S6.
0620 UTC, 10264 kHz, and 0640 UTC, 11464 kHz, both a couple of S-points stronger.

14-Sept-19, Saturday:- 0600 UTC, 9064 kHz, “024” and “634 48” again, S5.
0620 UTC, 10264 kHz, S6 to S7.
0640 UTC, 11464 kHz, the strongest, peaking around S9.

21-Sept-19, Saturday:- 0600 UTC, 9064 kHz, and 0620 UTC, 10264 kHz, both S6, “024 024 024 000”.

22-Sept-19, Sunday:- 0600 UTC, 9064 kHz, and "0620 UTC, 10264 kHz, "024 024 024 000".

29-Sept-19, Sunday:- 0600 UTC, 9064 kHz, and 0620 UTC, 10264 kHz, both strong signals, "024 024 024 000".

5-Oct-19, Saturday:- 0600 UTC, 9064 kHz, and 0620 UTC, 10264 kHz, both around S7, "024 024 024 000", still "no message" in the new month.

13-Oct-19, Sunday:- 0600 UTC, 9064 kHz, "024 024 024 000", strong signal, peaking S9.
0620 UTC, 10264 kHz, weaker.

26-Oct-19, Saturday:- 0600 UTC, 9064 kHz, "024 024 024 000", S6 to S7.
0620 UTC, 10264 kHz, stronger.

Onto others' logs, with some repetition

Sunday/Wednesday

September 2019

1700z	**12139kHz**	**1720z**	**10639kHz**	**1740z**	**9139kHz**	
01/09	161 000					Fair
08/09	161 1 536 139 53026 ...		13645 000 000		[1700z Strong]	Weak
11/09	161 1 536 139 53026 ...		13645 000 000		[1720/1740z Unworkable, ADSL/VDSL Noise]	Fair
18/09	161 1 536 139 53026 ...		13645 000 000			Weak, noisy
22/09	161 1 659 121 78926 ...		40256 000 000			Fair, noisy
25/09	161 1 659 121 78926 ...		40256 000 000			Fair
29/09	161 1 659 121 78926 ...		40256 000 000			Weak

October 2019

1700z	**11156kHz**	**1720z**	**9356kHz**	**1740z**	**8056kHz**	
02/10	130 1 659 121 78926 ...		40156 000 000		[1720z QRM]	Weak
06/10	130 1 659 121 78926 ...		40256 000 000		[1720z BCQRM5]	Fair
09/10	130 1 659 121 78926 ...		40256 000 000		[1720z BCQRM5]	Fair
13/10	130 000				[1720z BCQRM4]	Weak
16/10	130 000				[1700z QRM4]	Weak
20/10	130 1 5980 75 22192 ...		11839 000 000		[1720z QRM]	Weak
23/10	130 1 5980 75 22192 ...		11839 000 000		[1700z NRH, 1720z QRM5]	Weak
30/10	130 000					Weak

Sunday/Saturday

September 2019

0600z	**9064kHz**	**0620z**	**10264kHz**	**0640z**	**11464kHz**	
01/09	024 1 838 49 20364 …		24192 000 000		[0600z Strong]	Weak
14/09	024 1 634 48 61207 ...		01537 000 000			Fair
15/09	024 1 634 48 61207 ...		01537 000 000			Fair

October 2019

06/10	024 000		Weak
13/10	024 000		Strong
19/10	024 000		Fair
27/10	024 000		Weak

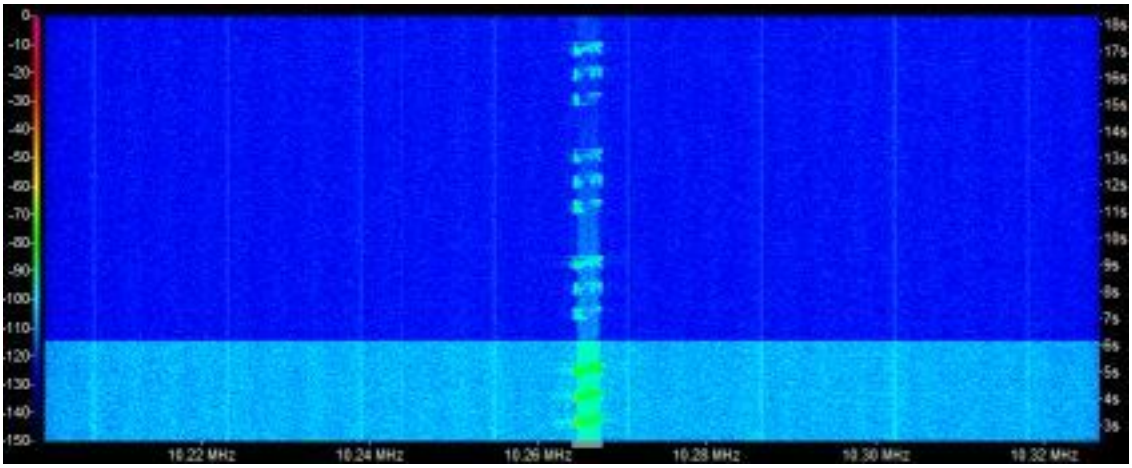
September 2019

Sunday/Thursday/Saturday

1300z	**9064kHz**	**1320z**	**10264kHz**	**1340z**	**11464kHz**		
01/09		024 1 838 49 20364 ... 24192 000 000					Weak
08/09		024 1 838 49 20364 ... 24192 000 000					Unworkable
14/09		024 1 634 48 61207 ... 01537 000 000			Fair		
15/09		024 1 634 48 61207 ... 01537 000 000			Fair		
21/09		024 000				[Rx at Bletchley Park]	Very strong
22/09		024 000					Weak
28/09		024 000					Weak
29/09		024 000					Weak

October 2019

03/10		NRH					
06/10		024 000					Weak
12/10		024 000				[1320z QRM4]	Strong



10264kHz 1320z 12/10/2019
Note QRM mid-character light blue section lower, reduced by use of Phase Noise removal seen in darker blue section, upper

13/10		024 000				[1320z Missed]	Very strong
19/10		024 000					Strong
20/10		024 000					Fair

Monday/Wednesday

September 2019

1900z	**14584kHz**	**1920z**	**13384kHz**	**1940z**	**11584kHz**		
02/09		535 1 724 115 79773 ... 86355 000 000				[1900/1920z (Dutch SDR)]	Weak
09/09		535 1 378 23 23173 ... 39107 000 000					Strong
11/09		535 1 378 23 23173 ... 39107 000 000					Very strong

535 1 378 23
23173 29337 80427 52527 89202
13424 99034 24501 84489 62124
83437 25551 31294 29878 23531
19090 17858 08673 04428 33787
83896 03054 39107
000 000 *Courtesy PLdn*

16/09		535 1 378 23 23173 ... 39107 000 000					Weak
23/09		535 000				[1900z NRH]	Strong
25/09		535 000					Fair

October 2019

1900z	**11359kHz**	**1920z**	**10139kHz**	**1940z**	**9139kHz**	
02/10	511 000					Weak(Dutch SDR)
07/10	511 1 103 56 37284 ... 97946 000 000				[1940z NRH]	Weak
09/10	511 1 103 56 37284 ... 97946 000 000					Weak
14/10	511 1 103 56 37284 ... 97946 000 000				[1940z NRH]	Fair
16/10	511 1 103 56 37284 ... 97946 000 000					Fair
23/10	511 000				[1900z BCQRM5]	Weak
31/10	511 000				[1900z(Dutch SDR)]	Weak

Tuesday/Friday

September 2019

0700z	**16354kHz**	**0720z**	**18664kHz**	**0740z**	**19354kHz**	
20/09	363 000				[0720z Dutch SDR]	Weak
24/09	NRH					
27/09	NRH					

October 2019

0700z	**15962kHz**	**0720z**	**17462kHz**	**0740z**	**18542kHz**	
01/10	Unworkable, 0720z	NRH				
08/10	Unworkable, 0740z	NRH				
11/10	945 1 596 182 93925 ... 42855 000 000				[0700z Unworkable]	Weak(Warsaw SDR)
15/10	945 000				[0720z Dutch SDR]	Weak
22/10	945 1 9685 132 58489 ... 24836 000 000					Weak
25/10	945 1 9685 132 58489 ... 24836 000 000				[0700/0740z Unworkable]	Weak
29/10	945 000				[0720z(Dutch SDR)]	Weak

Tuesday/Friday

September 2019

1100z	**18438kHz**	**1120z**	**16338kHz**	**1140z**	**14938kHz**	
20/09	439 000				[1100z NRH]	Weak
27/09	439 1 8395 148 20971 ... 41723 000 000				[1100z NRH]	Fair

October 2019

1100z	**17471kHz**	**1120z**	**15871kHz**	**1140z**	**13971kHz**	
01/10	489 000				[1100z NRH]	Weak(Dutch SDR)
08/10	489 1 402 116 08364 ... 28782 000 000					Weak
11/10	489 1 402 116 08364 ... 28782 000 000				[1140z Fair]	Strong
15/10	489 1 654 88 48709 ... 70384 000 000					Weak
22/10	489 000					Weak
29/10	489 1 302 66 93706 ... 80332 000 000					Weak

Thursday

September 2019

1410z	**16228kHz**	**1430z**	**15928kHz**	***1450z***	***13449kHz***		
19/09	594 000					Weak	
26/09	594 1 529 45 58489 ... 93891 000 000					AB	THU

594 1 529 45
58489 21126 49298 00606 79734 21919 01425 47735 84918 82006
11258 73032 82651 04250 18090 47026 92166 45148 38552 63682
00233 45593 57426 86201 92197 31833 15861 60281 40588 25391
04843 88968 56021 35254 03442 01861 15958 18351 67098 46704
71771 26136 32569 09125 93891 000 000 *Courtesy Ary*

28/09	NRH						

October 2019

1410z	**15847kHz**	**1430z**	**14849kHz**	**1450z**	**13449kHz**		
03/10	746 000					Weak	
12/10	746 000					Fair	
17/10	746 000					Weak	
24/10	746 1 620 60 81249 ... 17094 000 000				[1410/1430z QSB2/4]	Weak	
31/10	746 000					Weak	

E07a

PoSW's logs:

Friday Schedule, 1510 UTC Start:-

13-Sept-19:- 1510 UTC, 10583 kHz, "531 531 531 000", S6 with QSB.
1530 UTC, 9383 kHz, slightly stronger.

20-Sept-19:- 1510 UTC, 10583 kHz, "531 531 531 000", S7 to S8.
1530 UTC, 9383 kHz, weaker.

27-Sept-19:- 1510 UTC, 10583 kHz, "531 531 531 000", S5.
1530 UTC, 9383 kHz, stronger.

4-Oct-19:- 1510 UTC, 11424 kHz, "411 411 411 000", good signal, over S9.
1530 UTC, 10124 kHz, weaker.

11-Oct-19:- 1510 UTC, 11424 kHz, and 1530 UTC, 10124 kHz, both strong signals peaking over S9, "411 411 411 000".

18-Oct-19:- 1510 UTC, 11424 kHz, "411 411 411 000", S6 to S7.
1530 UTC, 10124 kHz, weaker. This frequency is inside the 30 metre amateur band and is often accompanied by digital/data noises, very much so this afternoon.

25-Oct-19:- 1510 UTC, 11424 kHz, S7 to S8, and 1530 UTC, 10124 kHz, weaker, "411 411 411 000".

Saturday Schedule, 0800 UTC Start:-

7-Sept-19:- 0800 UTC, 11153 kHz, "114 114 114 000", S5 with QSB.
0820 UTC, 12153 kHz, stronger, peaking S8 to S9.

14-Sept-19:- 0800 UTC, 11153 kHz, and 0820 UTC, 12153 kHz, both around S7, "114 114 114 000".

21-Sept-19:- 0800 UTC, 11153 kHz, S6, and 0820 UTC, 12153 kHz, stronger, "114 114 114 000".

5-Oct-19:- 0800 UTC, 11484 kHz, "413 413 413 000", strong signal, peaking S9.
0820 UTC, 12184 kHz, very strong, well over S9.

26-Oct-19:- 0800 UTC, 11484 kHz, "413 413 413 000", S7 to S8.
0820 UTC, 12184 kHz, slightly weaker signal.

Wednesday Schedule, 2000 UTC Start:-

4-Sept-19:- 2000 UTC, 8144 kHz, “197 197 197 000”, strong signal.
0820 UTC, 6944 kHz, strong.

18-Sept-19:- 2000 UTC, 8144 kHz, very strong, “197 197 197 000”.
2020 UTC, 6944 kHz, slightly weaker.

25-Sept-19:- 2000 UTC, 8144 kHz, and 2020 UTC, 6944 kHz, both well over S9, “197 197 197 000”.

2-Oct-19:- 2000 UTC, 8144 kHz, “197 197 197 000”, strong.
2020 UTC, 6944 kHz, also strong.

9-Oct-19:- 2000 UTC, 8144 kHz, and 2020 UTC, 6944 kHz, the usual strong signals, “197 197 197 000”.

Others’ logs with some repetition

Wednesday

September 2019

2000z	**8144kHz**	**2020z**	**6944kHz**	**2040z**	**5744kHz**	
11/09	197 000					Very strong
18/09	197 000					Very strong
25/09	197 000					Very strong

October 2019

2000z	**8144kHz**	**2020z**	**6944kHz**	**2040z**	**5744kHz**	
02/10	197 000					Very strong
09/10	197 000					Very strong
16/10	197 000					Strong
23/10	197 000					Very strong
30/10	197 000					Strong

Thursday

September 2019

0430z	**6788kHz**	**0450z**	**7488kHz**	**0510z**	**8188kHz**		
12/09	741 000						Very strong
19/09	741 000						Very strong
26/09	741 000					[0450z Fair]	Strong

October 2019

0430z	**6788kHz**	**0450z**	**7488kHz**	**0510z**	**8188kHz**	
03/10	741 00					Fair
10/10	741 000					Very strong
17/10	741 000					0430z Strong, 0450z Weak
24/10	741 000					Very strong
31/10	Unworkable					

Friday

September 2019

1510z	**10583kHz**	**1530z**	**9383kHz**	**1550z**	**8183kHz**	
13/09	531 000					Fair
20/09	531 000					Fair
27/09	531 000					Weak

October 2019

1510z	**11424kHz**	**1530z**	**10124kHz**	**1550z**	**9124kHz**	
04/10	411 000					Fair, noisy
11/10	411 000					Fair
25/10	411 000					Weak

Saturday

September 2019

0800z	**11153kHz**	**0820z**	**12153kHz**	**0840z**	**13453kHz**	
14/09	114 000					Weak
21/09	114 000					Weak
28/09	114 000					Weak

October 2019

0800z	**11484kHz**	**0820z**	**12184kHz**	**0840z**	**13384kHz**	
12/10	413 000					Strong
19/10	413 000					Weak

E11 & E11a log Sept/Oct

4181kHz	1705z	11/09 [396/31 69608 61578 20047 50128 54666 37573 78355 63024……20542 66958]	RNGB	WED
	1705z	21/09 [396/00] Out 1708z S2	Malc	SAT
	1705z	25/09 [390/00] Out 1708z S2	Malc	WED
	1705z	02/10 [391/00] Out 1708z S5	Malc	WED
	1705z	05/10 [394/00] Out 1708z S5	Malc	SAT
	1705z	09/10 [399/32 42200……..66651] Out 1714z S7	Malc	WED
	1705z	12/10 [399/32 42200……..66651] Out 1714z S7	Malc	SAT
	1705z	16/10 [399/00] Out 1708z S7	Malc	WED
	1705z	19/10 [399/00] Out 1708z S2	Malc	SAT
	1705z	23/10 [390/00] Out 1708z S2	Malc	WED
	1705z	30/10 [395/00] Out 1708z S7	Malc	WED
4505kHz	1930z	01/09 [369/00] Out 1933z S3 +QRM	Malc	SUN
	1930z	21/09 [360/00] Out 1933z S2	Malc	SAT
	1930z	22/09 [363/00] Out 1933z S2 + QRM	Malc	SUN
	1930z	28/09 [360/00] Out 1933z S2	Malc	SAT
	1930z	29/09 [369/00] Out 1933z S3 + QRM	Malc	SUN
	1930z	05/10 [368/00] Out 1933z S3 + QRM	Malc	SAT
	1930z	06/10 [368/00] Out 1933z S2 + QRM	Malc	SUN
	1930z	13/10 [235/39 05788…….89229] Out 1940z S2 + QRM	Malc	SUN
	1930z	19/10 [369/00] Out 1933z S3 + QRM	Malc	SAT
	1930z	20/10 [368/00] Fair with QRM	RNGB, Malc	SUN
5082kHz	1605z	22/09 [230/00] Out 1608z S3	Malc	SUN
	1605z	24/09 [238/00] Out 1608z S2	Malc	TUE
	1605z	29/09 [235/00] Out 1608z S3	Malc	SUN
	1605z	06/10 [232/00] Out 1608z S6	Malc	SUN
	1605z	08/10 [235/39 76389……..90268] Out OUT 1615z S2	Malc	TUE
	1605z	13/10 [235/39 76389…..etc] Repeat of Tuesday	Malc	SUN
	1605z	15/10 [235/00] Out 1608z S5	Malc	TUE
	1605z	20/10 [237/00] Out 1608z S3	Malc	SUN
	1605z	22/10 [230/00] Out 1608z S3	Malc	TUE
5371kHz	0805z	01/09 [310/00] Out 0808z S3 (Dutch SDR)	Malc	SUN
	0805z	07/09 [312/00]	RNGB	SAT
	0805z	15/09 [319/40 84846 94242 85315 57264 93596 59813 06441 18697…..70175 08033]	RNGB	SUN
	0805z	21/09 [310/00] Out 0808z S2	Malc	SAT
	0805z	22/09 [310/00] Out 0808z S3	Malc, Ary	SUN
	0805z	28/09 [319/00] Out 0803z S3	Malc	SAT

	0805z	29/09 [313/00] Out 0808z S3	Malc	SUN
	0805z	05/10 [312/00] Out 0808z S2	Malc	SAT
	0805z	06/10 [312/00] Out 0808z S2	Malc, RNGB	SUN
	0805z	12/10 [312/37 10378…….96563] Out 0815z S4	Malc	SAT
	0805z	13/10 [312/37 10378…… 96563] Out 0816z S2	Malc	SUN
	0805z	19/10 [316/00] Out 0808z S2	Malc	SAT
	0805z	20/10 [312/00] Out 0808z S2	Malc	SUN
5737kHz	1530z	02/09 [522/00] Out 1533z S3	Malc	MON
	1530z	09/09 [525/34 31702 17555 96148 33385 28173 59305 87071……76615 35736]	RNGB	MON
	1530z	20/09 [520/00] Out 1533z S3	Malc	FRI
	1530z	27/09 [522/00] Out 1533z S3	Malc	FRI
	1530z	30/09 [528/00]	Gary H	MON
	1530z	30/09 [528/00] Out 1533z S2	Malc	MON
	1530z	04/10 [520/00] Out 1533z S3	Malc	FRI
	1530z	07/10 [527/00] Out 1533z S2	Malc	MON
	1530z	11/10 [522/00] Out 1533z S7	Malc	FRI
	1530z	14/10 [524/00] Out 1533z S2	Malc	MON
	1530z	18/10 [524/00] Out 1533z S2	Malc	FRI
	1530z	25/10 [527/34 33542…….81151] Out 1540z S5	Malc	FRI
	1530z	28/10 [522/00]	dmhz	MON
5941kHz	0820z	06/09 [439/00] Weak	RNGB	FRI
	0820z	19/09 [436/00] Out 0823z S2	Malc	THU
	0820z	20/09 [431/00] Out 0823z S2	Malc, RNGB	FRI
	0820z	26/09 [435/31 92329……60313] Out 0829z S4 (Dutch SDR)	Malc	THU
	0820z	27/09 [435/31 92329…..etc] Repeat of Thursday S2	Malc	FRI
	0820z	03/10 [435/00] Out 0823z S2	Malc, RNGB	THU
	0820z	04/10 [434/00] Out 0748z S2	Malc	FRI
	0820z	11/10 [430/32 36546……. 33730] Out 0830z S4	Malc	FRI
	0820z	17/10 [430/00] Out 0823z S3	Malc, RNGB	THU
	0820z	18/10 [431/00] Out 0823z S4	Malc	FRI
	0820z	24/10 [432/00] Out 0823z S2	Malc	THU
	0820z	25/10 [432/00] Out 0823z S3	Malc	FRI
6923kHz	1205z	04/09 [460/00]	RNGB	WED
	1625z	08/09 [977/00]	RNGB	SUN
	1205z	10/09 [465/00]	RNGB	TUE
	1625z	11/09 [97?/35 42636 50513 40194 09796 52562 39194 99360 25862……47810 83033]	RNGB	WED
	1625z	22/09 [976/00] Out 1628z S4	Malc	SUN
	1625z	25/09 [972/00] Out 1628z S4	Malc	WED
	1625z	29/09 [975/00] Out 1628z S4	Malc	SUN
	1205z	02/10 [461/00] Out 1208z S2	Malc	WED
	1625z	02/10 [970/38 88395……18846] Out 1635z S6	Malc	WED
	1625z	06/10 [970/38 88395…… etc] S6 Repeat of Wednesday	Malc	SUN
	1205z	08/10 [461/00] Out 1208z S2	Malc	TUE
	1625z	09/10 [975/00] Out 1628z S5	Malc	WED
	1625z	13/10 [977/00] Out 1628z S4	Malc	SUN
	1205z	15/10 [469/35 06050……. 58117] Out 1216z S2	Malc	TUE
	1625z	16/10 [974/00] Out 1628z S5	Malc	WED
	1625z	20/10 [972/00] Out 1628z S3	Malc	SUN
	1205z	22/10 [463/00] Out 1208z S4	Malc	TUE
	1205z	23/10 [462/00] Out 1208z S2	Malc	WED
	1625z	23/10 [976/00] Out 1628z S2	Malc	WED
	1205z	29/10 [466/00] Out 1208z S3	Malc	TUE
	1205z	30/10 [462/00] Out 1208z S2	Malc	WED
	1625z	30/10 [970/00] Out 1628z S3	Malc	WED
6940kHz	0930z	04/09 [275/00]	RNGB	WED
	0930z	05/09 [277/00]	RNGB	THU
	0930z	11/09 [279/40 16343 81435 05518 98838 17863 5610469834 46612……02792 10454]	RNGB	WED
	0930z	18/09 [277/00]	RNGB	WED
	0930z	26/09 [271/00] Out 0933z S2	Malc	THU
	0930z	02/10 [275/00] Out 0933z S3	Malc, JPL	WED
	0930z	03/10 [277/00] Out 0933z S2	Malc	THU
	0930z	09/10 [276/40 61308……..80927] Out 0941z S3	Malc	WED
	0930z	17/10 [279/00] Out 0933z S4	Malc	THU
	0930z	23/10 [271/00] Out 0933z S4	Malc	WED
	0930z	24/10 [276/00] Out 0933z S2	Malc	THU
	0930z	30/10 [277/00] Out 0933z S3	Malc	WED
7317kHz	1045z	02/09 [697/25 77278……37450] Out 1056z S4 (Dutch SDR)	Malc	MON

	1900z	02/09 [644/34 91614…….02531] Out 1910z S4	Malc	MON
	1045z	09/09 [692/00]	RNGB	MON
	1000z	13/09 [300/00]	RNGB	FRI
	1900z	19/09 [643/00] Out 1903z S5	Malc	THU
	1000z	20/09 [306/00] Out 1003z S3	Malc	FRI
	1045z	25/09 [694/00] Out 1048z S2	Malc	WED
	1900z	26/09 [641/00] Out 1903z S3	Malc	THU
	1000z	27/09 [309/30 06169 24018 83550 13181 52592 21468 54503 47057 54186……26720 55741]	RNGB, Malc	FRI
	1045z	30/09 [694/00] Out 1048z S3	Malc	MON
	1900z	30/09 [647/00] Out 1903z S2	Malc	MON
	1045z	02/10 [693/00] Out 1048z S3	Malc	WED
	1900z	03/10 [644/00] Out 1903z S4	Malc	THU
	1000z	04/10 [304/00] Out 1003z S3	Malc	FRI
	1045z	07/10 [693/00] Out 1018z S2	Malc	MON
	1900z	07/10 [640/00] Out 1903z S5	Malc	MON
	1000z	08/10 [305/00] Out 1003z S3	Malc	TUE
	1045z	09/10 [698/00] Out 1048z S2	Malc	WED
	1000z	11/10 [300/00] Out 1003z S5	Malc	FRI
	1045z	14/10 [698/00] Out 1048z S2	Malc	MON
	1900z	14/10 [644/00] Out 1903z S4	Malc	MON
	1000z	15/10 [300/35 ATTENTION missed start to 47515] Out 1010z S2	Malc	TUE
	1045z	16/10 [692/00] Out 1048z S2	Malc	WED
	1900z	17/10 [646/00] Out 1903z S5	Malc	THU
	1000z	18/10 [300/35 56794……. 47515] Out 1010z S3	Malc	FRI
	1000z	22/10 [309/00] Out 1003z S3	Malc	TUE
	1045z	23/10 [690/00] Out 1048z S2	Malc	WED
	1900z	24/10 [646/35 19600…….01355] Out 1910z S9	Malc	THU
	1000z	29/10 [304/00] Out 1003z S2	Malc	TUE
	1045z	30/10 [691/23 07804…….76654] Out 1053z S2	Malc	WED
7864kHz	1730z	19/09 [418/33 28016……09492] Out 1740z S2	Malc	THU
	1730z	26/09 [415/00] Out 1733z S3	Malc	THU
	1730z	03/10 [414/00] Out 1733z S4	Malc	THU
	1730z	17/10 [646/00] Out 1733z S2	Malc	THU
	1730z	24/10 [418/32 90524…….96275] Out 1740z S8	Malc	THU
8102kHz	0710z	01/09 [498/00] Out 0713z S2	Malc, RNGB	SUN
	0710z	07/09 [495/00]	RNGB	SAT
	0710z	08/09 [496/00]	RNGB	SUN
	0710z	14/09 [495/00]	RNGB	SAT
	0700z	20/09 [570/31 26002……51888] Out 0710z S2	Malc	FRI
	0710z	21/09 [497/00] Out 0713z S2	Malc, Ary	SAT
	0710z	28/09 [498/40 98564……11908] Out 0720z S3	Malc	SAT
	0710z	29/09 [498/40 98564…..etc] Repeat of Saturday	Malc	SUN
	0710z	05/10 [497/33 54968…… 03059] Out 0714z S3	Malc	SAT
	0710z	06/10 [497/33 54968…..etc] Repeat of Saturday	Malc	SUN
	0710z	13/10 [497/00] Out 0713z S3	Malc, RNGB	SUN
	0710z	19/10 [497/00] Out 0713z S3	Malc, RNGB	SAT
	0710z	20/10 [496/00] Out 0713z S3	Malc	SUN
8180kHz	0900z	02/09 [533/00] Out 0903z S2	Malc, RNGB	MON
	0700z	03/09 [579/00]	RNGB	TUE
	0900z	04/09 [536/00]	RNGB	WED
	0700z	06/09 [571/00] Good	RNGB	FRI
	0700z	10/09 [573/00]	RNGB	TUE
	0700z	13/09 [571/00]	RNGB	FRI
	0900z	16/09 [534/00]	RNGB	MON
	0900z	18/09 [535/00]	RNGB	WED
	0700z	24/09 [571/00] Out 0703z S2	Malc	TUE
	0900z	25/09 [532/00] Out 0903z S2	Malc	WED
	0700z	27/09 [574/00] Out 0703z S3	Malc	FRI
	0900z	30/09 [538/00] Out 0903z S2	Malc	MON
	0700z	01/10 [577/00]	RNGB	TUE
	0900z	02/10 [532/00] Out 0903z S2	Malc, RNGB	WED
	0700z	04/10 [571/00] Out 0703z S3	Malc	FRI
	0900z	07/10 [533/00] Out 0903z S2	Malc	MON
	0700z	08/10 [575/34 01306 56770 83834 47886 44864 08791 42558……..55925 21680] Out 0710z S3	RNGB, Malc	TUE
	0900z	09/10 [537/00] Out 0903z S2	Malc	WED
	0700z	11/10 [575/34 01306……21680] Out 0710z S4	Malc	FRI
	0900z	14/10 [536/33 31255…….02705] Out S4	Malc	MON
	0700z	18/10 [576/00] Out 0703z S3	Malc	FRI
	0900z	21/10 [535/00]	RNGB	MON

	0700z	22/10 [576/00] Out 0703z S3	Malc	TUE
	0900z	23/10 [535/00] Out 0903z S2	Malc	WED
	0700z	25/10 [577/00] Out 0703z S4	Malc	FRI
	0700z	29/10 [570/00] Out 0703z S3	Malc	TUE
	0900z	30/10 [536/00] Out 0903z S3	Malc	WED
8530kHz	1910z	01/09 [612/00] Out 1913z S2 (Dutch SDR)	Malc	SUN
	1910z	06/09 [616/00]	RNGB	FRI
	1910z	20/09 [612/00] Out 1913z S2	Malc	FRI
	1910z	22/09 [610/00] Out 1913z S4	Malc	SUN
	1910z	29/09 [612/00] Out 1913z S2	Malc	SUN
	1910z	06/10 [617/37 04971……..81520] Out 1920z S4	Malc	SUN
	1910z	13/10 [610/00] Out 1913z S3 (Dutch SDR)	Malc	SUN
	1910z	18/10 [618/00] Out 1913z S4	Malc	FRI
	1910z	20/10 [614/00] Good	RNGB, Malc	SUN
	1910z	25/10 [614/00] Out 1913z S2	Malc	FRI
9963kHz	0715z	06/09 [634/00] Good	RNGB	FRI
	0715z	10/09 [639/00]	RNGB	TUE
	0715z	17/09 [633/31 60950 85549 91602 27415 49529 58552 96176 10060……56354 32128etc]	RNGB	TUE
	0715z	20/09 [633/31 60950……32128] Out 0725z S8 (Dutch SDR)	Malc	FRI
	0715z	24/09 [635/00] Out 0718z S3	Malc	TUE
	0715z	27/09 [635/00] Out 0718z S3	Malc	FRI
	0715z	01/10 [631/00]	RNGB	TUE
	0715z	04/10 [631/00] Out 0718z S3	Malc	FRI
	0715z	08/10 [639/00] Out 0718z S2	Malc	TUE
	0715z	15/10 [639/00] Out 0718z S3	Malc	TUE
	0715z	18/10 [631/00] Out 0718z S3	Malc	FRI
	0715z	22/10 [635/32 67343…….78963] Out 0724z S2	Malc	TUE
	0715z	25/10 [635/32 67343…..etc] Repeat of Tuesday	Malc	FRI
	0715z	29/10 [639/00] Out 0718z S5	Malc	TUE
10213kHz	0745z	02/09 [267/00] Out 0748z S2	Malc, RNGB	MON
	0745z	16/09 [260/33 07161 30383 85347 83352 22496 18335 40657 51440……80982 42095]	RNGB	MON
	0745z	30/09 [264/00] Out 0748z S2	Malc, RNGB	MON
	0745z	07/10 [260/38 40380 90645 91763 18505 53704 85157 59912 01646……..05767] Out 0755z S5	RNGB, Malc	MON
	0745z	14/10 [268/00] Out 0748z	Malc, RNGB	MON
	0745z	21/10 [260/00]	RNGB	MON
	1850z	23/10 [281/00] Konyetz 1853z S2 (Dutch SDR)	Malc	WED
10330kHz	1530z	05/09 [264/00]	RNGB	THU
	1530z	19/09 [260/33 07161……42095] Out 1540z S3	Malc	THU
	1530z	26/09 [262/00]	Gary H	THU
	1530z	03/10 [262/00] Out 1533z S4	Malc	THU
	1530z	17/10 [269/00] Out 1533z S5	Malc	THU
	1530z	24/10 [267/00] Out 1533z S2	Malc	THU
10800kHz	0645z	03/09 [518/34 31071 46909 62841 64689 42253 59715 72272….etc]	RNGB	TUE
	0645z	05/09 [518/34 31071 46909 62841 64689 42253 59715 72272 60856…….09010 85994] Weak	RNGB	THU
	0645z	10/09 [517/00]	RNGB	TUE
	0645z	17/09 [515/00]	RNGB	TUE
	0645z	19/09 [515/00] Out 0648z S5	RNGB, Malc	THU
	1645z	19/09 [333/39 07622……..59175] Out 1655z S6	Malc	THU
	1645z	24/09 [335/00] Out 1648z S5	Malc	TUE
	0645z	26/09 [514/00] Out 0648z S2	Malc, RNGB	THU
	1645z	26/09 [338/00] Out 1648z S2	Malc	THU
	0645z	01/10 [515/00]	RNGB	TUE
	0645z	03/10 [518/00] Out 0648z S3 (Dutch SDR)	Malc	THU
	0645z	08/10 [518/00] Out 0648z S2	Malc	TUE
	0645z	15/10 [510/00] Out 0648z S3	Malc	TUE
	0645z	17/10 [519/00] Out 0648z S3	Malc	THU
	0645z	22/10 [518/00] Out 0648z S3	Malc	TUE
	0645z	24/10 [517/00] Out 0648z S3	Malc	THU
11116kHz	1650z	06/09 [922/00]	RNGB	FRI
	1650z	20/09 [921/00] Out 1648z S4	Malc	FRI
	1650z	22/09 [929/00] Out 1653z S3	Malc	SUN
	1650z	27/09 [922/38 75362……25677] Out 1701z S2	Malc	FRI
	1650z	29/09 [922/38 75362……etc] Repeat of Friday	Malc	SUN
	1650z	06/10 [927/00] Out 1653z S2	Malc	SUN
	1650z	11/10 [929/00] Out 1653z S6	Malc, RNGB	FRI
	1650z	13/10 [920/00] Out 1653z S2	Malc	SUN

	1650z	18/10 [921/00] Out 1653z S2	Malc	FRI
	1650z	20/10 [927/00] Out 1653z S3 (Dutch SDR)	Malc	SUN
12153kHz	0640z	02/09 [948/00] Out 0643z S2	Malc, RNGB	MON
	0640z	04/09 [940/00]	RNGB	WED
	0640z	11/09 [946/00]	RNGB	WED
	0640z	16/09 [94?/25 65311 15287 41750 03641 85090 94241 31182 88765……36579 93037]	RNGB	MON
	0640z	25/09 [945/00] Out 0643z S2 (Qatar SDR)	RNGB, Malc	WED
	0640z	30/09 [944/00] Out 0643z S2 (Dutch SDR)	Malc, RNGB	MON
	0640z	02/10 [940/00] Out 0643z S2 (Dutch SDR)	Malc	WED
	0640z	07/10 [942/39 99006…….. 04192] Out 0651z S2 (Dutch SDR)	Malc	MON
	0640z	09/10 [942/39 99006……etc]Repeat of Monday S2 (Dutch SDR)	Malc	WED
	0640z	14/10 [949/00] Out 0643z S2	Malc	MON
	0640z	16/10 [944/00] Out 0643z S3 (Dutch SDR)	Malc	WED
	0640z	23/10 [944/00] Out 0643z S3	Malc	WED
12202kHz	0845z	05/09 [156/00]	RNGB	THU
	0845z	19/09 [155/00] Out 0848z S5	Malc, RNGB	THU
	0845z	26/09 [154/00] Out 0848z S3	Malc	THU
	0845z	03/10 [157/00] Out 0848z S3	Malc	THU
	0845z	08/10 [159/00] Out 0848z S5	Malc, RNGB	TUE
	0845z	15/10 [159/00] Out 0848z S3	Malc	TUE
	0845z	17/10 [152/00] Out 0848z S3	Malc	THU
	0845z	22/10 [157/39 63865……. 32109] Out 0856z S4	Malc	TUE
	0845z	24/10 [157/39 39408…….49710] Out 0856z S3	Malc	THU
	0845z	29/10 [151/00] Out 0848z	Mslc	TUE
13470kHz	1745z	01/09 [247/001 Out 1748z S2	Malc	SUN
	1745z	02/09 [247/00] Out 1748z S2 +QRM	Malc	MON
	1745z	22/09 [242/00] Out 1748z S2	Malc	SUN
	1745z	29/09 [249/00] Out 1748z S2	Malc	SUN
13873kHz	0600z	06/09 [183/00] (Qatar SDR)	RNGB	FRI
	0600z	09/09 [189/00] Fair (Qatar SDR)	RNGB	MON
	0600z	13/09 [188/00] Fair (Qatar SDR)	RNGB	FRI
	0600z	14/10 [18?/34 03587 34722 94951 62610 98353……31472 26147] Weak	RNGB	MON
	0600z	21/10 [182/00] Weak	RNGB	MON
14972kHz	1345z	21/09 [910/35 25276 66274 87401…...41742 14259 35750]	Ary	SAT
	1345z	24/09 [914/00] Out 1348z S2 (Dutch SDR)	Malc	TUE
	1345z	28/09 [914/00] Out 1348z S2 (Dutch SDR)	Malc	SAT
	1345z	08/10 [912/00]	dmhz, Malc	TUE
	1345z	19/10 [914/00] Out 1348z S4	Malc	SAT
	1345z	22/10 [919/34 75470……. 01740] Out 1355z S3 (Dutch SDR)	Malc	TUE
	1345z	29/10 [912/00] Out 1348z S6	Malc	TUE
17410kHz	0745z	04/09 [347/00]	RNGB	WED
	0745z	06/09 [342/00] Weak (Qatar SDR)	RNGB	FRI
	0745z	11/09 [340/33 00603 34414 63185 94447 59426 75735 97143 67524……04176 95154]	RNGB	WED
	0745z	18/09 [349/00]	RNGB	WED
	0745z	25/09 [343/00] Weak (Qatar SDR)	RNGB	WED
	0745z	11/10 [348/32 85574…….53678] Out 0755z S9 (Warsaw SDR)	Malc	FRI
	0745z	16/10 [246/00] Out 0748z S2 (Dutch SDR)	Malc	WED
	0745z	23/10 [349/00] Out 0748z S2 (Dutch SDR)	Malc	WED
	0745z	25/10 [340/00] Out 0748z S2	Malc	FRI
	0745z	30/10 [344/00] Out 0748z S2 (Dutch SDR)	Malc	WED
19184kHz	0820z	03/09 [133/00]	RNGB	TUE
	0820z	04/09 [131/00] (Qatar SDR)	RNGB	WED
	0820z	10/09 [133/00] (Qatar SDR)	RNGB	TUE
	0820z	17/09 [135/00]	RNGB	TUE
	0820z	18/09 [132/00]	RNGB	WED
	0820z	09/10 [133/34 48565 60329 97066 14917 04275 32259 35429……58717 32309] (Polish SDR)	RNGB	WED
	0820z	15/10 [135/00] Out 0823z S2	Malc	TUE
	0820z	16/10 [136/00] Out 0823z S2 (Dutch SDR)	Malc	WED
	0820z	22/10 [136/00] Good (Russian SDR)	RNGB, Malc	TUE
	0820z	23/10 [133/00] Out 0823z S2 (Dutch SDR)	Malc	WED
	0820z	30/10 [131/00] Out 0823z S2 (Dutch SDR)	Malc	WED

E17z

Thursday

September 2019

0800z	**14260kHz**	**0810z**	**12930kHz**		
19/09	217 849 5 23362 54485 83606 07335 95437 849 5 00000			[AM]	Weak, QRM
26/09	217 849 5 33263 54485 83606 07321 91437 849 5 00000			[0800z NRH]	Weak(DutchSDR)
October 2019					
03/10	217 503 6 65962 57057 54661 01212 01586 49656 217 6 00000			[0800z Unworkable]	Weak(Dutch SDR
17/10	217 935 6 88569 89617 25757 77139 95335 84090 935 6 00000			[0810z Unworkable] Weak	
24/10	217 935 6 88569 89617 25757 77159 95335 84090 935 6 00000				Weak
31/10	217 00000			[0800z USB Distorted, 0810z QRM]	Weak

E25

Nil Reports

G06

From PoSW:

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

12-Sept-19:- 5934 kHz, calling “579”, DK/GC “996 996 15 15”, good signal, speed of delivery of the 5Fs seemed a bit slower than usual. Short message, looks like the same one as heard on Thursday 11-July-19. Ended just before 1838 UTC, computer shut-down sounds heard about 15 seconds afterwards followed by hum.

10-Oct-19:- 5934 kHz, started about 8 seconds before the half-hour, “579”, DK/GC “472 472 52 52”, a message used many times over the past few years, ended approx 1843:40s UTC, computer shut-down sounds and audio hum heard around a minute after.

24-Oct-19:- 5934 kHz, “579”, DK/GC “273 273 62 62”, one of the longer messages from
this one, good signal for most of the transmission but became much weaker towards the end at just after 1844 UTC.

Friday 1930 UTC Schedule Following Second + Fourth Thursdays:-

13-Sept-19:- 5442 kHz, call “947”, DK/GC “978 978 44 44”, started about 45 seconds before the half-hour. Very strong “XJT” noise-maker on frequency making for difficult copy.

27-Sept-19:- 5442 kHz, “947” and DK/GC “273 273 62 62”, good signal, no sign of XJT.

11-Oct-19:- 5442 kHz, “947” and, “273 273 62 62” again.

25-Oct-19:- 5442 kHz, “947” and “273 273 62 62” yet again, strong signal.

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

2-Sept-19:- 1700 UTC, 4792 kHz, started about 20 seconds after the hour, “145 145 145 00000”.
1800 UTC, 4877 kHz, also a late start, peaking around S9. These frequencies were used in March and April of this year.

7-Oct-19:- 1700 UTC, 4792 kHz, “145 145 145 00000”, tuned in around 1701z, ended 1704:10s so probably started close to the hour.
1800 UTC, minus 10s approx, 4877 kHz, second sending, both transmissions S7 to S8.

14-Oct-19:- 1700 UTC, 4792 kHz, “145 145 145 00000”, good signal.
1800 UTC, 4877 kHz, also a good signal. Both transmissions started approx 20 seconds before the hour.

Others' Logs [M8]

Monday

September 2019

0758z 6815kHz

02/09 329 00000 Weak

October 2019

07/10 329 00000 Weak

14/10 145 00000 Weak

1700z 4792kHz 1800z 4877kHz

02/09 145 00000 Weak

October 2019

07/10 145 00000 Weak

Thursday

1830z 5934kHz

September

26/09 579 996 15 15832 ... 18684 996 15 00000 Weak

579 996 15
15832 48648 48642 68751 59874
18789 87542 97893 48972 89624
48644 18948 17425 88423 18684
996 15 00000 *Courtesy M8*

October 2019

24/10 579 273 62 64537 ... 76491 273 62 00000 Weak

Unexpected G06 from Malc:

5186kHz2030z 03/10 [891 472 52 12265 to 95732 472 52 00000]2043z S3 M8 THU
(I was expecting E06)

Friday

September 2019

1930z 5442kHz

27/09 947 273 62 missed Tx

October 2019

11/10 947 273 62 64537 ... 76491 273 62 00000 Weak

25/10 579 273 62 64537 ... 76491 273 62 00000 [Windows shutdown sound] Weak

S06

S06 log September 2019

Thursday 0830z 19035kHz 0930z 15645kHz

05/09 '842' 603 47 groups – too weak to copy – ended 45869 97642 02475 603 47 00000

12/09 '842' 519 33 05213 84965 70089 ????? 72395 64760 08299 30965 76224 22437 79471 51470 55380 68460 96265 46060 67670 57762 37801 07680 39510 05894 74193 23691 66674 61529 72817 25968 58507 96258 9100? 73115 42767 519 33 00000

19/09 ‘842’ 706 45 35524 68290 74324 97664 15970 19358 39742 04797 99792 19028 39313 05353 76859 17107 00232 92413 95557 45438 05489 83346 07350 59461 98102 94750 85241 49283 29007 58122 45378 68902 97063 87188 29930 56893 46302 32824 20467 47051 12857 86521 04020 92405 38806 18316 53991 706 45 00000

Fridays (1st & 3rd) 1900z 8191khz 2000z 5943kHz
06/09 ‘627’ 00000

S06s September log:

Monday

2nd/9th	0630/0640z	22185/20050	‘462’ 931 5 88620 58069 61732 74537 57440
16th/23rd			‘462’ 810 5 40774 45983 48882 31151 32860 (long pause after end of last group)
2nd/9th	0830/0840z	9220/8270	‘764’ 231 5 46062 68672 97478 39685 30485
16th/23rd			‘764’ 830 5 33699 39998 30667 35947 83964
2nd/9th	0900/0910z	14580/13165	‘232’ 987 5 52401 63919 92699 14600 74248
16th/23rd			‘232’ 840 5 38367 33406 42366 37868 37250
2nd/9th	1200/1210z	9145/11460	‘149’ 238 5 47665 94092 48521 63888 92060
16th/23rd			‘149’ 870 5 36184 36194 37650 43773 46793

Tuesday

3rd/10th	0600/0610z	15855/16485	‘438’ 267 5 96061 13808 71909 83981 24035
17th/24th			‘438’ 529 6 43079 32154 34746 34053 30738 56864
3rd/10th	0700/0710z	5760/6930	‘452’ 803 6 87655 75855 07443 51240 52434 77888
17th/24th			‘452’ 831 6 37545 30989 41691 43753 32543 40936
3rd/10th	0730/0740z	7425/11560	‘427’ 895 6 84523 60543 61462 84040 39493 82723
17th/24th			‘427’ 598 6 43337 89152 47544 37478 31315 36184
3rd/10th	0800/0810z	11635/10420	‘127’ 403 5 42613 47545 24251 49589 08142
17th/24th			‘127’ 894 6 39808 43033 49330 37711 34696 38914
3rd/10th	1000/1010z	6410/7340	‘427’ 960 5 76585 39626 43217 92250 36859
17th/24th			‘427’ 813 6 83964 40774 45983 48882 31151 32861
3rd/10th	1100/1110z	6190/7230	‘265’ 918 7 22354 67531 55125 56174 28393
17th/24th			‘265’ 948 7 39801 35785 34806 32963 31716 81515 30841
3rd/10th	1500/1510z	6464/7242	‘914’ 823 5 51098 09497 28075 85052 83253
17th/24th			‘914’ 873 5 96632 52537 53317 06675 41736

Wednesday

4th/11th	0730/0740z	11530/12140	‘172’ 983 5 36806 37188 48254 44053 33023
18th/25th			‘172’ 436 5 46062 68672 97478 39685 30485
4th/11th	0830/0840z	9082/9952	‘464’ 213 5 36914 46467 36973 37967 89762
18th/25th			‘464’ 293 5 88620 58069 61732 74537 57440
4th/11th	1000/1010z	13365/14505	‘276’ 980 5 38367 33406 42366 37868 37250
18th/25th			‘276’ 401 5 33796 13577 74526 46647 79302

Thursday

5th/12th	(E17z)	0800/0810z	14260/12930	‘217’ 894 5 38367 33406 42366 37868 37250
19th/26th				‘217’ 849 5 22263 54485 82606 07321 11437
5th/12th		0930/0940z	9081/10514	‘698’ 403 5 36184 36194 37650 43773 46793
19th/26th				‘698’ 430 5 22796 23555 74526 46647 78202
5th/12th		1200/1210z	12415/14212	‘175’ 248 6 81051 46544 34612 43306 34498 33860
19th/25th				‘175’ 284 6 77620 48069 52732 74437 57330 20599

Friday

6th/13th	0630/0640z	12140/13515	‘156’ 908 7 21767 53672 11834 81022 36903 41412 55678
20th/27th			‘156’ 498 7 26634 14690 94490 60386 03009 81413 94073
6th/13th	0900/0910z	5744/6524	‘239’ 408 5 46062 68672 97478 39685 30485
20th/27th			‘239’ 418 5 01405 15003 23357 60583 54545

Saturday

7th	0800/0810z	10350/8520	‘132’ 940 5 64385 82707 06123 78927 34694

With thanks to RNGB, Malc, Ary, HfD

S06 log October 2019

Thursday 0830z 20312kHz 0930z 16237kHz
03/10 ‘842’ 45 groups – too weak to copy
10/10 ‘842’ 951 46 31902 63940 76629 05835 21874 83325 77742 15039 99678 99136 30088 39999 24529 43054 45173 78748 64098 16019 15568 08475 50985 89301 14002 49726 47478 47069 99968 68211 98306 68906 26045 75135 76072 75702 61106 12007 49036 87359 72612 30858 25968 65759 35178 05810 57719 41413 951 46 00000

17/10 ‘842’ 670 34 09078 20785 51373 60617 93457 41258 75833 39384 99599 83413 93324 07975 86001 21633 60301 46383 16282 67253 74641 24940 21754 50158 27331 81451 80886 84829 76498 10164 57844 31820 98516 35970 67306 90566 670 34 00000

24/10 ‘842’ 319 50 39408 43147 83313 03714 89733 95700 08817 35450 22136 89506 52733 09046 58151 99503 01057 86002 37877 64148 10885 50894 54662 77592 65067 53398 09025 78060 07825 55121 86512 55848 78507 67138 89155 29394 85680 89198 75238 62846 88742 86521 87049 23583 79235 65135 71311 03097 79060 31686 21970 49710 319 50 00000

Fridays (1st & 3rd) 2000z 8191khz 2100z 5943kHz
18/10 ‘627’ 00000

S06s October log:

Monday

7th/14th	0630/0640z	22185/20050	‘462’ 891 5 43798 46937 33032 38334 44613 (Tx ended after 44613)
21st/28th			‘462’ 580 7 38433 25858 25573 64485 55554 59477 27555
7th/14th	0830/0840z	9220/8270	‘764’ 932 5 98058 44693 07628 61154 97511
21st/28th			‘764’ 803 5 55528 32766 50512 04454 66993
7th/14th	0900/0910z	14580/13165	‘232’ 587 6 33640 35358 41385 89503 37671 24047
21st/28th			‘232’ 471 5 27849 62279 35894 30775 05586
7th/14th	1200/1210z	9145/11460	‘149’ 805 6 87855 43367 99630 42128 31622 07628
21st/28th			‘149’ 867 5 44059 38695 49509 60768 53282

Tuesday

1st/8th	0600/0610z	15855/16485	‘438’ 276 5 33584 40485 36170 43306 37796
15th/22nd			‘438’ 571 6 54545 50128 99477 83574 48874 94031
1st/8th	0700/0710z	5760/6930	‘452’ 813 6 00972 52098 46877 29807 13587 94330
15th/22nd			‘452’ 983 6 21767 53672 11834 81022 36903 41412
1st/8th	0730/0740z	7425/11560	‘427’ 519 6 74288 54520 84648 (84684) 24042 75956 61621
15th/22nd			‘427’ 908 5 42997 94184 47374 74154 08531
1st/8th	0800/0810z	11635/10420	‘127’ 436 5 33098 39998 30666 35947 83964
15th/22nd			‘127’ 906 5 41412 21767 53672 11834 86415
1st/8th	1000/1010z	6410/7340	‘427’ 831 6 40407 35598 48889 31151 32860 70061
15th/22nd			‘427’ 501 6 30485 96632 52537 53317 06675 41736
1st/8th	1100/1110z	6190/7230	‘265’ 430 7 75911 38721 35333 32537 42983 73120 49855
15th/22nd			‘265’ 803 7 32403 88443 36772 98493 36340 32048 34338
1st/8th	1500/1510z	6464/7242	‘914’ 837 5 14109 03034 2??58 10259 03596
15th/22nd			‘914’ 283 5 85258 38303 48833 37437 55884

Wednesday

2nd/9th	0730/0740z	11530/12140	‘172’ 940 5 37931 35379 35372 36941 49140
16th/23rd			‘172’ 438 5 33640 38293 43330 32403 98493
2nd/9th	0830/0840z	9082/9952	‘464’ 801 5 42069 30913 32098 31335 36683
16th/23rd			‘464’ 513 7 42990 33000 32968 35332 36880 33582 44060
2nd/9th	1000/1010z	13365/14505	‘276’ 890 5 83208 37829 47458 42867 39654
16th/23rd			‘276’ 894 5 33584 40485 46170 43306 37795

Thursday

3rd/10th	(E17z)	0800/0810z	14260/12930	‘217’ 503 6 65962 57057 54661 01212 01586 49656
17/24th				‘217’ 935 6 88569 89617 25757 77159 95225 84090
3rd/10th		0930/0940z	9081/10514	‘698’ 214 5 31896 36053 33779 32814 47565
17/24th				‘698’ 245 7 46062 68672 97478 39685 30485 96632 52537
3rd/10th		1200/1210z	12415/14212	‘175’ 498 6 83208 37829 47458 42867 39654 42387
17th/24th				‘175’ 920 6 21767 53672 11834 81022 36903 42422

Friday

4th/11th	0630/0640z	12140/13515	‘156’ 284 7 46062 68672 97478 39685 30485 96632 52537
18th/25th			‘156’ 947 8 42990 33000 32968 35332 36880 33582 44060 33600
4th/11th	0900/0910z	5744/6524	‘239’ 816 5 33796 13577 74526 46647 79302
18th/25th			‘239’ 801 5 35384 40485 46170 43306 37796

Saturday

5th	0800/0810z	10350/8520	‘132’ 940 5 64385 82707 06123 78927 34694

With thanks to RNGB, Malc, Ary, HfD

Followed by PoSW’s Logs and analysis:

S06, OM Voice:-

First + Third Fridays in the Month 1900 + 2000 UTC Schedule:-
6-Sept-19:- 1900 UTC, 8191 kHz, “627 627 627 00000”, good signal.
2000 UTC, 5943 kHz, second sending, weaker. These frequencies were used for this schedule in March and April of this year.

20-Sept-19:- 1900 UTC, 8191 kHz, and 2000 UTC, 5943 kHz, “627 627 627 00000”.

In October this schedule did what it is well known for, moving by one hour:-

4-Oct-19:- 2000 UTC, 8191 kHz, “627 627 627 00000”, not too strong.
2100 UTC, 5943 kHz, stronger.

18-Oct-19:- 2000 UTC, 8191 kHz, “627 627 627 00000”, S6 to S7.
2100 UTC, 5943 kHz, stronger.

S06a, YL Voice:-
Some of the stronger S06a transmissions heard during the last couple of months:-

Monday 0830 + 0840 UTC Schedule, Call “764”:-
9-Sept-19:- 0830 UTC, 9220 kHz, DK/GC “231 231 5 5”, weak signal, “46062 68672 97478 39685 30485”.
0840 UTC, 8270 kHz, second sending, stronger.

16-Sept-19:- 080 UTC, 9220 kHz, DK/GC “830 830 5 5”, “33699 39998 30667 35947 83764”, weak.
0840 UTC, 8270 kHz, stronger.

Tuesday 0700 + 0710 UTC Schedule, Call “452”:-
10-Sept-19:- 0700 UTC, 5760 kHz, DK/GC “803 803 6 6”, weak signal, 5Fs difficult to hear, second sending slightly stronger:-
0710 UTC, 6930 kHz, 5Fs heard as, “87655 75855 07443 51240 52434 77888”.

1-Oct-19:- 0710 UTC, 6930 kHz, first sending on 5760 nothing heard, strong “XJT” noise maker on close frequency, DK/GC “813 813 6 6”, 5Fs “00972 52098 46877 29807 13587 94330”.

8-Oct-19:- 0700 UTC, 5760 kHz, no “XJT” this morning, “813 813 6 6” and 5Fs as on 1-Oct.
0710 UTC, 6930 kHz, strong signal, S9 with QSB.

15-Oct-19:- 0700 UTC, 5760 kHz, DK/GC “983 983 6 6”, S6, “21767 53672 11834 81022 36903 41412”.
0710 UTC, 6930 kHz, peaking around S6 to S7.

22-Oct-19:- 0700 UTC, 5760 kHz, “983 983 6 6” and 5Fs as on the 15th, S6 to S7.
0710 UTC, 6930 kHz, peaking S9.

Tuesday 0730 + 0740 UTC Schedule, Call “427”:-
10-Sept-19:- 0730 UTC, 7425 kHz, DK/GC “895 895 6 6”, strong signal, “84523 60543 61462 84040 39493 82723”.
0740 UTC, 11560 kHz, also strong.

17-Sept-19:- 0730 UTC, 7425 kHz, DK/GC “598 598 6 6”, good signal, “43337 89152 47544 37478 31315 36184”.
0740 UTC, 11560 kHz, strong signal.

24-Sept-19:- 0730 UTC, 7425 kHz, “598 598 6 6” and 5Fs as on 17-Sept, strong.
0740 UTC, 11560 kHz, very strong.

8-Oct-19:- 0730 UTC, 7425 kHz, DK/GC “519 519 6 6”, strong signal, “74288 54520 84648 24042 75956 61621”, something unusual here, the 5F groups are spoken twice and group no. 3 was spoken first as “84648” and then as, “84684”.
0740 UTC:- 0741(?) UTC 11560 kHz, appeared to start late, weak signal at first, difficult to hear but rapidly came up to S6 to S7.

15-Oct-19:- 0730 UTC, 7425 kHz, DK/GC “501 501 6 6”, “30485 96632 52537 53317 06675 41736”, good signal.
0740 UTC, 11560 kHz, strong, over S9.

22-Oct-19:- 0730 UTC, 7425 kHz, “501 501 6 6” and 5Fs as on 15-Oct, over S9.
0740 UTC, 11560 kHz, also over S9.

Tuesday 0800 + 0810 UTC Schedule, Call “127”:-
Surprised to get a readable signal from this schedule because on other Tuesdays in September and October it has been far too weak a signal on both transmissions to copy:-
15-Oct-19:- 0800 UTC, 11635 kHz, peaking S9 although with occasional deep fading, DK/GC “906 906 5 5”, “41412 21767 53672 11834 86415”. Something else unusual here,
the first four 5F groups also showed up in the earlier 0700 + 0710z “452” schedule.
0810 UTC, 10420 kHz, second sending, weak but clear.

Wednesday 0730 + 0740 UTC Schedule, Call “172”:-
11-Sept-19:- 0740 UTC, 12140 kHz, second sending, nothing heard of the 0730z sending on 11530, very strong broadcast station, S06s underneath, most likely. DK/GC “983 983 5 5”, S5 at best, “36806 37188 48254 44053 33023”.

18-Sept-19:- 0730 UTC, 11530 kHz, the broadcast station making copy difficult, DK/GC “436 436 5 5”, “46062 68672 97478 39685 30485”.
0740 UTC, 12140 kHz, second sending, strong signal.

2-Oct-19:- 0730 UTC, 11530 kHz, competing well with the BC station this morning, DK/GC “940 940 6 6”, “37931 35379 35372 36941 49140”.
0740 UTC, 12140 kHz, good signal.

16-Oct-19:- 0730 UTC, 11530 kHz, good signal at first over-riding the broadcast station but became unreadable after a couple of minutes into the call-up due to the BC station becoming much stronger or S06s becoming weaker, or a combination of the two.
0740 UTC 12140 kHz, much better copy, strong signal but no carrier on frequency prior to the transmission, very strong voice signal shortly after 0740z, this was transmitted in USB carrier suppressed mode as opposed to the usual USB plus carrier. DK/GC "438 438 5 5", "33640 38293 43330 32403 98493".

Wednesday 1000 + 1010 UTC Schedule, Call "276":-
11-Sept-19:- 1000 UTC, 13365 kHz, DK/GC "980 980 5 5", "38367 33406 42366 37868 37250", good signal.
1010 UTC, 14505 kHz, weaker.

18-Sept-19:- 1000 UTC, 13365 kHz, DK/GC "401 401 5 5", S7 to S8, "33796 13577 74526 46647 79302".
1010 UTC, 14505 kHz, weaker.

2-Oct-19:- 1000 UTC, 13365 kHz, DK/GC "890 890 5 5", "83208 37829 47458 42867 39654".
14505 kHz, weak, sank into noise.

16-Oct-19:- 1000 UTC, 13365 kHz, DK/GC "894 894 5 5", "33584 40485 46770 43306 37795". S4 to 5 at best. A few seconds of very strong CW came up on frequency during the call-up routine.
1010 UTC, 14505 kHz, weak signal.

Friday 0630 + 0640 UTC Schedule, Call "156":-
6-Sept-19:- 0630 UTC, 12140 kHz, DK/GC 2908 908 7 7", strong signal, "21767 53673 11834 81022 36903 41412 55678"
0640 UTC, 13515 kHz, second sending, slightly weaker.

20-Sept-19:- 0630 UTC, 12140 kHz, DK/GC "498 498 7 7", "26634 14690 94490 60386 03009 81413 94073", very strong signal.
0640 UTC, 13515 kHz, over S9.

27-Sept-19:- 0630 UTC, 12140 kHz, "498 498 7 7" and 5Fs as on the 20th, over S9.
0640 UTC, 13515 kHz, weaker, indicating S5 at best.

4-Oct-19:- 0630 UTC, 12140 kHz, DK/GC "284 284 7 7", very strong, "46062 68672 97478 39685 30485 96632 52537".
0640 UTC, 13515 kHz, a couple of S-points weaker.

11-Oct-19:- 0630 UTC, 12140 kHz, "156" and "284 284 7 7" and 5Fs as on the 4th. Very strong signal.
0640 UTC, 13515 kHz, weaker.

18-Oct-19:- 0630 UTC, 12140 kHz, DK/GC "947 947 8 8", the highest group count in this small selection of S06s observations, strong signal, well over S9. Carrier with tone was warming up the frequency when checked at 0616z. "42990 33000 32968 35332 36880 33582 44060 33600".
0640 UTC, 13515 kHz, also over S9.

First Saturday in the Month 0800 + 0810 UTC Schedule, Call "132":-
5-Oct-19:- 0800 UTC, 10350 kHz, DK/GC "904 904 5 5", S5 with deep fading, "98058 55693 97628 61154 97511".
0810 UTC, 8520 kHz, second sending, stronger.

Thanks Peter

S11a log Sept/Oct

4505kHz	0915z	02/09 [484/39 32936…….41129] Konyetz 0927z S7 (Dutch SDR)	Malc	MON
	0915z	06/09 [484/39 32936 92011 27067 02369 26460 13464 20757 02330……78793 41129]	RNGB	FRI
	0915z	20/09 [486/00] Konyetz 0918z S2 (Dutch SDR)	Malc	FRI
	0915z	27/09 [482/00] Konyetz 0918z S2 (Dutch SDR)	Malc, RNGB	FRI
	0915z	30/09 [485/00] Konyetz 0918z S2 + QRM (Dutch SDR)	Malc	MON
	0915z	04/10 [485/00]	RNGB	FRI
	0915z	07/10 [486/00] Konyetz 0918z S2 (Dutch SDR)	Malc	MON
	0915z	11/10 [481/00] Konyetz 0918z S2	Malc	FRI
	0915z	14/10 [487/00] Konyetz 0918z S2	Malc	MON
	0915z	18/10 [487/00] Strong (Polish SDR)	RNGB	FRI
	0915z	21/10 [484/34 57134 85558 92892 85834 38942 28555 71812……38139 92749] (Polish SDR)	RNGB	MON
6433kHz	1100z	04/09 [377/00]	RNGB	WED
	1100z	11/09 [372/00]	RNGB	WED
	1100z	13/09 [376/00]	RNGB	FRI
	1100z	20/09 [372/00] Konyetz 1103z S2	Malc	FRI
	1100z	27/09 [379/39 VNIMANIE 84533……61392] Konyetz 1112z 3	Malc	FRI
	1100z	02/10 [373/00] Konyetz 1103z S3	Malc	WED
	1100z	09/10 [372/00] Konyetz 1103z S3	Malc	WED
	1100z	16/10 [379/36 01115……63260] Konyetz 1112z S4	Malc	WED
	1100z	23/10 [371/00] Konyetz 1103z S5	Malc	WED
	1100z	30/10 [376/00] Konyetz 1103z S3	Malc	WED

7469kHz	1020z	06/09 [425/00]	RNGB	FRI
	1020z	13/09 [426/36 64951 56360 67736 99874 64319 87357 85960 37921……91013 27277]	RNGB	FRI
	1020z	20/09 [426/00] Konyertz 1023z S2	Malc	FRI
	1020z	24/09 [420/00] Konyetz 1023z S9 (Dutch SDR)	Malc, RNGB	TUE
	1020z	27/09 [422/00] Konyetz 1023z S2	Malc	FRI
	1020z	01/10 [420/35 69409 03937 28946 46343 33324 78186 61029 60752……29229]	RNGB	TUE
	1020z	08/10 [420/00] Konyetz 1023z S2	Malc	TUE
	1020z	15/10 [422/00] Konyetz 1023z S3	Malc	TUE
	1020z	18/10 [420/00] Konyetz 1023z S2	Malc	FRI
	1020z	22/10 [427/00] Konyetz 1023z S5	Malc	TUE
	1020z	29/10 [427/00] Konyetz 1023z S3	Malc	TUE
10213kHz	1850z	21/09 [285/00] Konyetz 1853z S7	Malc	SAT
	1850z	25/09 [288/00] Konyetz 1853z S2	Malc	WED
	1850z	28/09 [280/00] Konyetz 1853z S2	Malc	SAT
	1850z	02/10 [284/00] Konyetz 1853z S2	Malc	WED
	1850z	05/10 [285/00] Konyetz 1853z S2	Malc	SAT
	1850z	09/10 [287/00] Konyetz 1853z S2	Malc	WED
	1850z	16/10 [281/36 44767…….04367] Konyetz 1901z S2 (Dutch SDR)	Malc	WED
	1850z	19/10 [281/36 44767…….etc] Repeat of Wednesday	Malc	SAT
	1850z	30/10 [282/00] Konyetz 1853z S2 (Dutch SDR)	Malc	WED
11116kHz	0510z	09/09 [650/00] Strong (Qatar SDR)	RNGB	MON
11493kHz	1015z	02/09 [471/37 51929…….38945] Konyetz 1027z S3	Malc	MON
	1015z	09/09 [473/39 33536 82251 63493 00155 31338 16471 84221……14226 46429]	RNGB	MON
	1015z	19/09 [479/00] Konyetz 1018z S3	Malc	THU
	1015z	26/09 [475/00] Konyetz 1018z S3	Malc	THU
	1015z	30/09 [476/00] Konyetz 1023z S2	Malc	MON

V07

Sunday

September 2019

0100z	**13535kHz**	**0120z**	**12135kHz**	**0140z**	**11135kHz**		
08/09	511 1 163 100 70875 ... 52244 000 000					[Via Kiwi SDR NAGANO , JAPAN]	Weak
22/09	511 1 472 76 48087 ... 60035 000 000					[Via RX San Bernardino , California , USA]	Weak

October 2019

0100z	**15925kHz**	**0120z**	**14725kHz**	**0140z**	**13425kHz**		
13/10	974 1 2776 30 91025 ... 42294 000 000						Weak
20/10	974 1 544 32 30239 ... 22764 000 000					[0140z (Via SDR Nagano City , Japan]	Weak

974 974 974 1
544 32
30239 68972 26147 12792 06171
91968 50823 39295 50417 54919
83346 40432 19749 81977 40203
92659 55707 35699 32119 71890
17322 57400 21099 17688 78815
75763 16147 26729 06646 67566
50013 22764
000 000 *Courtesy DanAr*

27/10	974 000		Weak

V13

18040kHz	1211z	16/09 USB+carrier: i/p Chinese 4FG tfc (Via KiwiSDR South Africa)	Danix	MON

V26

4243kHz1211z	22/10/19[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	TUE
9054kHz1211z	22/10/19[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	TUE

Polytones

Some frequency changes occurring across the XPA2 schedules covered in this newsletter.

XPA1 c

Tuesday/Thursday

September 2019

0710z	**10682kHz**	**0730z**	**11571kHz**	**0750z**	**12216kHz**		
10/09		761 1 08733 00113 30757 ... 32764					Weak
12/09		761 1 08733 00113 30757 ... 32764				[0710z ADSL Noisy]	Weak
17/09		761 1 08733 00113 30757 ... 32764				[0710/0730z Noisy]	Fair
19/09		761 1 08733 00113 30757 ... 32764					Fair

761 761 761 1 761 761 761 1 761 761 761 1

08733 00113 30757 78052 13832 67503 61896 37802 78961 84094
66614 70402 04475 12632 47910 61890 34715 68637 92413 06380
81062 78813 01278 64169 87933 60547 57233 19387 79065 91857
45038 38059 50181 08402 19333 87069 45755 83654 86975 28144
62784 13959 73408 12155 66674 37054 25215 06130 79608 42690
98548 98794 98808 14893 10019 78581 53909 83092 67674 40642
60076 74010 88465 81772

64107 72725 61469 40955 17393 69826 77968 67477 75712 94165
31917 05750 94485 37679 59246 68522 43929 07393 39734 00006
28402 97722 54757 87118 46815 52553 73512 90501 10040 79028
91916 57104 96691 57349 54565 65164 81396 35896 49407 91336
99940 87836 30309 85372 99390 40034 75016 69702 33962 39802
32479 32764 *Courtesy PLdn*

24/09	Lightning, Antenna disconnected	
26/09	Weak, noisy and unworkable	

October 2019

0710z	**12167kHz**	**0730z**	**13437kHz**	**0750z**	**14972kHz**		
03/10		249 1 08083 00090 67331 ... 23141					

249 249 249 1 249 249 249 1 249 249 249 1

08083 00090 67331 57823 36471 59849 10243 30147 08586 95690
01390 31038 76996 50758 04744 76735 69954 82197 48689 90222
10788 10198 13150 57943 68669 50609 42164 27448 35040 80123
04677 13699 18897 51354 84558 99177 53032 19779 64495 41166
16582 14745 05244 16202 55984 33768 68544 70352 02720 27748
02931 87100 27515 79554 68978 96049 78326 87739 35480 08212
85345 23193 79523 82523

20475 24550 05500 48160 65487 05522 09729 05400 41528 25257
36493 92303 98353 42150 83039 43585 88243 17363 75714 89414
13823 97822 53737 01260 41209 50663 76111 84490 23141
Courtesy PLdn

10/10	249 1 00484 00090 51819 ... 61162	[0730/0750z Unworkable]	Very strong

249 249 249 1 249 249 249 1 249 249 249 1

00484 00090 51819 72437 69121 49594 86632 50748 90518 83481
85515 65557 76975 81781 94580 32460 83771 38497 07790 67468
68537 26692 16701 72445 25107 61552 29359 96795 32685 26338
57631 60799 64012 21688 36564 10782 10721 96508 25352 56016
96958 28826 18595 61474 58050 37221 95877 01251 27450 80299
06138 71397 12782 28892 94054 46017 31032 56349 63929 69628
78462 07716 26690 70662

03768 50894 14887 30229 64883 04246 73573 51625 75119 77572
01641 27932 15182 62020 88790 74580 96764 10751 91852 64121
43330 10191 63489 57786 82028 58270 54336 96624 61162
Courtesy PLdn

17/10 249 1 00484 00090 51819 ... 61162 [0750z Fair] Very strong

22/10 249 1 05732 00065 30285 ... 22515 [0740z Strong] Very strong

249 249 249 1 249 249 249 1 249 249 249 1

05732 00065 30285 95234 67728 08350 62284 00444 56234 28371
53548 60683 20929 47920 73750 86279 85540 30605 71338 51231
05532 25396 21822 16450 58455 03387 04678 49360 99703 28840
62711 92457 84579 57676 69890 73432 61657 53989 98960 53530
29931 81545 03777 43650 81894 27918 52891 27379 94123 81695
71302 93816 70658 74605 43458 42749 37377 67800 13742 67552
34057 26225 09056 37879

03518 03622 06551 22515 *Courtesy PLdn*

31/10 249 1 05732 00065 30285 ... 22515 Strong

Other XPA1 logs [H-FD]

1B XPA1 Tue 08.10.2019 0710Z 12167 msg
Tue 08.10.2019 0750Z 14972 msg

XPA2 m

Sunday/Tuesday

September 2019

1200z 13914kHz 1220z 15814kHz 1240z 16314kHz

10/09 Last 5 secs of msg caught Strong

15/09 08115 00108 34202 ... 11270 [Unsure all grps] Weak

17/09 08115 00108 34202 ... 11270 Strong

22/09 00261 00100 47755 ... 33520 [1240z Fair] Very strong

00261 00100 47755 11380 97939 22151 73032 52453 48902 74700
84213 61775 41596 59868 80573 15035 76908 13999 65420 79707
41084 97609 95945 70292 82453 07246 64607 70926 73740 10705
42673 62459 86532 20554 04114 66277 12054 08320 89903 89565
75783 02433 78173 98377 61299 34590 74926 97296 42984 56781
74765 15657 84326 67829 99316 93511 52955 61023 70143 86580
50341 64445 14208 93470 95228 82976 84782 16144 59174 92422
35725 80055 53510 62838 71815 12482 08402 62353 24527 01453
60514 43711 41705 61889 15699 49465 89515 44512 90524 60490
50498 57129 60684 54364 88447 58622 16801 63846 70911 50168
99569 92236 33520 *Courtesy PLdn*

October 2019

1200z 14469kHz 1220z 16169kHz 1240z 17469kHz

01/10 MISSED, unable to monitor

06/10 07257 00096 30169 ... 47634 Very strong

13/10 07453 00076 00993 ... 54537 [1220z Missed] Strong

27/10 01213 00028 47149 ... 50144 Very strong

01213 00028 47149 74001 91506 60387 10506 40215 83937 27748
08208 96601 73150 54793 64054 21126 58881 42610 35497 73994
04290 99032 62156 02346 47813 69134 46742 83888 55901 70544
50144 *Courtesy PLdn*

XPA2 p

Monday/Wednesday

September 2019

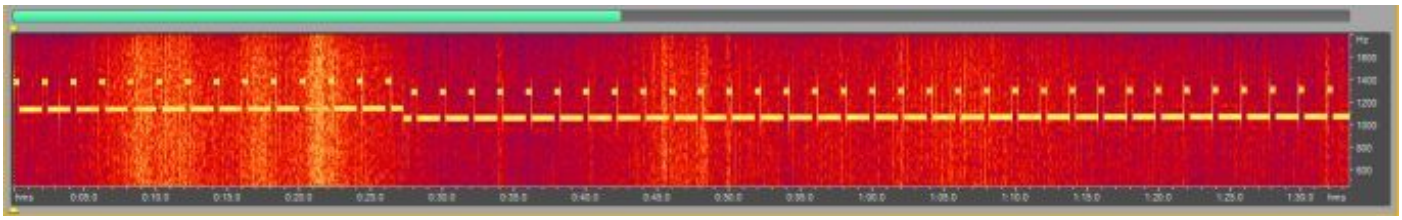
0700z 12152kHz 0720z 13552kHz 0740z 13952kHz

09/09 05611 00001 00000 ... 34656 Strong

11/09 08903 00001 00000 ... 37260 [0740z Strong, QSB2] Very strong

16/09	04650 00001 00000 ... 34261		Very strong
18/09	05118 00001 00000 ... 35656		Very strong
23/09	00643 00098 46397 ... 62110	[0700z QSB3]	Weak
30/09	*00643 00098 46397 ... 73201	0700z Strong, rest unworkable	

*Note apparent change to tuning signal as seen below:



0700z 30/09 12152kHz note freq change of signal ~100Hz

October 2019

0700z 13372kHz 0720z 14672kHz 0740z 15872kHz

02/10	00643 00098 45387 ... 62111	AB	TUE

00643 00098 45387 33103 10339 73312 75677 28346 52387 16181
21922 44539 25255 58446 64707 60172 93354 67865 32373 84360
33011 12436 00360 00713 15466 95227 08474 56888 18333 20981
56852 74428 13381 50187 71728 68707 63826 11866 00772 97088
97711 72272 00688 71091 05668 37252 14151 66144 15686 73777
54626 15040 73633 41788 25156 23884 06342 11336 87778 33165
09720 07820 29417 98881 82584 16237 99237 15000 76630 61036
13549 98483 77083 77703 16687 10222 84166 10008 76830 07761
66268 04710 92435 95250 19041 60778 86567 44660 36809 93130
96390 22000 86673 54473 03774 09550 54623 33162 01051 31018
62111 *Courtesy Ary*

07/10	09706 00001 00000 ... 37661		Strong
14/10	07367 00001 00000 ... 36265		Strong
28/10	00241 00130 13420 ... 33416	[0720/0740z NRH]	Fair

Other XPA2 freqs [H-FD]

1B XPA2 Tue 01.10.2019 1200Z 14469 msg, XPA2m
Tue 01.10.2019 1220Z 16169 msg, XPA2m
Tue 01.10.2019 1240Z 17469 msg, XPA2m
Wed 02.10.2019 0700Z 13372 msg, XPA2p
Wed 02.10.2019 0720Z 14672 msg, XPA2p
Wed 02.10.2019 0740Z 15872 msg, XPA2p
Fri 04.10.2019 1200Z 13452 msg
Fri 04.10.2019 1220Z 14452 msg
Fri 04.10.2019 1240Z 15852 msg
Sat 05.10.2019 0910Z 17438 msg
Sat 05.10.2019 0930Z 16338 msg
Sat 05.10.2019 0950Z 15938 msg
Mon 07.10.2019 0910Z 17471 msg
Mon 07.10.2019 0930Z 16149 msg
Mon 07.10.2019 0950Z 14406 msg
Tue 08.10.2019 0730Z 13457 msg
Sat 12.10.2019 1500Z 13906 msg
Sat 12.10.2019 1520Z 12106 msg
Sat 12.10.2019 1540Z 10906 msg
Tue 15.10.2019 1600Z 13542 msg via KiwiSDR RUS
Tue 15.10.2019 1620Z 12142 msg via KiwiSDR RUS
Tue 15.10.2019 1640Z 11442 msg via KiwiSDR RUS

XPB1 [H-FD]

1B XPB1

Tue 01.10.2019 1900Z 9323 msg
Tue 01.10.2019 1910Z 8123 msg
Tue 01.10.2019 1920Z 7723 msg
Tue 01.10.2019 1930Z 6923 msg
Tue 01.10.2019 1940Z 5823 msg

Tue 01.10.2019 1950Z 5123 msg
Sat 05.10.2019 1200Z 14462 msg
Sat 05.10.2019 1210Z 13962 msg
Sat 05.10.2019 1220Z 13462 msg
Sat 05.10.2019 1230Z 12162 msg
Sat 05.10.2019 1240Z 11562 msg
Sat 05.10.2019 1250Z 10962 msg

HM01 Hybrid

11635kHz1815z	18/09	Carrier presumed from R. Havana & sked HM01 bcst		SR	WED
11635kHz1903z	18/09	HM01 in progress, sending data files		SR	WED
10715kHz2200z	13/10	67090 66012 17241 10803 16171 10125 [Rpt from 17/09 per Ary]	QSA2	DanAR	SUN
10715kHz2200z	30/10	77231 60159 01302 10127 67090 66012) QSA2 QRM2		DanAR	WED
2200z	30/10	17241 10803 16171 43608 76837 73649) QSA2 QRM2		DanAR	WED

Daniel noted, "The two number headers sent at almost the same time more data, all together.I bet you can find the Cuban spy in mental hospital!"
Ary remarked, "It was indeed a mess. All messages from 1600-2200 were a mess. They sent two messages at the same time, the old and new groups. Old groups 66012 17241 10803 16171 10125 67090 and new groups 77231 60159 01302 43608 76837 73649."

12180kHz1000z	31/10	66012 17241 10803 16171 10125 67090	(Repeating the groups of 17 Sept)	Ary	THU

X06

X06 Mazielka (1c) logs section

Report

Hello all contributors of the X06 section and readers of the newsletter,

Here I am again, some weeks after I was one of the joiners of the 1st European numbers meeting in London (look at Paul's report in this edition).

Date	Day	UTC	Freq	Scale	Monitor	Comments
20190905	Thu	1558	14825	641523	HFD	R
20190913	Fri	0812-0838	9120	1--6--	Edd Smith	X06b i. p. via SDR Enschede
20190913	Fri	0901-1028	9340	1--6--	Edd	X06b i. p. via SDR Enschede
20190913	Fri	1027-1031	14863	615243	Edd	I. p., TX to Geneva, G127 (SDR)
20190915	Sun	0759-0815	19858	351264	Danix/PL	TX to Abu Dhabi, G201
20190916	Mon	1425	14373	353535	Ary/NL	X06a before XPA2
20190916	Mon	1426	14373	1--6--	Ary	X06b before XPA2
20190916	Mon	1430	14373	353535	Ary	X06a before XPA2
20190916	Mon	1433	14373	1--6--	Ary	X06b before XPA2
20190916	Mon	1435	14373	353535	Ary	X06a before XPA2
20190916	Mon	1435/1436	14373	1--6--	Ary	X06b before XPA2
20190916	Mon	1829	9339	1--6--	Schorschi	X06b before XPB1
20190916	Mon	1832	12139	1--6--	Schorschi	X06b before XPB1
20190919	Thu	0855-1125	11450	1--6--	Ary	VERY long X06b i. p.
20190919	Thu	1134-1137	10820	1--6--	Edd	X06b i. p. via SDR Enschede
20190919	Thu	1330-1337	17468	436512	Edd	I. p. via SDR Enschede, G180
20190920	Fri	1440	10583	1---66	Ary	X06b before E07a
20190920	Fri	1445/1449	10583	1616--	Ary	X06b before E07a
20190922	Sun	0502-0556	9064	1--6--	Edd	X06b before E07(1)
20190923	Mon	0736-0757	10229	6-----	Edd	X06b single tone i. p. (SDR)
20190925	Wed	0731-0733	10814	412356	Edd	I. p., TX to Budapest, G243 (SDR)
20190925	Wed	1113	13484	1-616-	Ary	X06b before XPA2
20190925	Wed	1122	13484	1--6--	Ary	X06b before XPA2
20190927	Fri	1005-1020	14863	615243	Ary	I. p., TX to Geneva, G276
20191001	Tue	0616-0620	11564	1--6--	Edd	X06b i. p. via SDR Enschede
20191002	Wed	0643-0650	12150	256341	Ary	I. p., TX to Beirut, G311
20191002	Wed	0830	12138	362154	Ary	End tail (SDR), TX to Athens, G32
20191004	Fri	1133	13452	1--6--	Ary	X06b before XPA2
20191006	Sun	1117/1122	14469	1--6--	Ary	X06b before XPA2
20191006	Sun	1127/1132	14469	1--6--	Ary	X06b again before XPA2
20191009	Wed	0755-0810	11155	465132	Ary	I. p., TX to Sofia, G100
20191010	Thu	0741-0800	7988	561243	Edd	I. p., TX to Helsinki, G117 (SDR)
20191013	Sun	1046/1052	16169	1--6--	Ary	X06b before XPA2
20191013	Sun	1048/1052	14469	1--6--	Ary	X06b before XPA2
20191014	Mon	0818-0828	17475	156234	Danix	UNID embassy (Africa), G68
20191014	Mon	0838-0848	12101	431625	Danix	Alert 3 (TX to Warsaw, G75) 1(2)
20191014	Mon	0848-0858	12109	431625	Danix	3.2
20191014	Mon	0858-0908	10372	431625	Danix	3.3
20191014	Mon	0932-0938	13517	463125	Danix	TX to Rabat, G77
20191015	Tue	1058/1102	17469	6-1---	Ary	X06b before XPA2

```
20191015 Tue 1101      16169 6-1--- Edd        X06b before XPA2, i. p. (SDR)
20191015 Tue 1102      14469 6-1--- Edd        X06b before XPA2, i. p. (SDR)
20191016 Wed 1230-1238 18245 231654 Danix      TX to Abuja, R
20191017 Thu 0756-0817 12150 1--6-- Ary        X06b i. p.
20191017 Thu 1848-1856  8175 542136 Danix      Alert 2 (TX to Beijing, R) 1
20191017 Thu 1904-1914  5826 542136 Danix      2.2
20191019 Sat 1446-1500 16277 436512 Danix      Alert 2 (TX to Harare, R) 1
20191019 Sat 1500-1514 15866 436512 Danix      2.2
20191022 Tue 0809-0816 17523 542136 Danix      TX to Beijing, G88
20191022 Tue 1010-1029 13510 612534 Danix      Alert 2 (TX to Ashgabat, G234) 1
20191022 Tue 1013-1018 17470 216354 Danix      TX to Chennai, G228
20191022 Tue 1029-1039 11025 612534 Danix      2.2
20191022 Tue 1106      16169 61-616 Ary        X06b before XPA2
20191022 Tue 1107      17469 1--6-- Ary        X06b before XPA2
20191022 Tue 1109      14469 61-616 Ary        X06b before XPA2
20191022 Tue 1110      16169 1--6-- Ary        X06b before XPA2
20191022 Tue 1111      17469 61-616 Ary        X06b before XPA2
20191022 Tue 1115      14469 1--6-- Ary        X06b before XPA2
20191022 Tue 1116      17469 1--6-- Ary        X06b before XPA2
20191022 Tue 1118      16169 1--6-- Ary        X06b before XPA2
20191022 Tue 1119      14469 1--6-- Ary        X06b before XPA2
20191023 Wed 0721-0727 20950 435621 Danix      TX to Africa, G244
20191024 Thu 0941-0946 13506 164532 Ary        TX to Dublin, G252
20191030 Wed 0844-0856 16159 1--6-- Edd        X06b i. i. via SDR Enschede
20191031 Thu 0741-0747 12150 1--6-- Edd        X06b i. p. via SDR Enschede
20191031 Thu 0843-0847 11250 1--6-- Edd        X06b i. p. via SDR Enschede
```

1) During the time in the log X06b was transmitted sporadically at short intervals, as was the carrier [alone]

2) Wrong frequency?

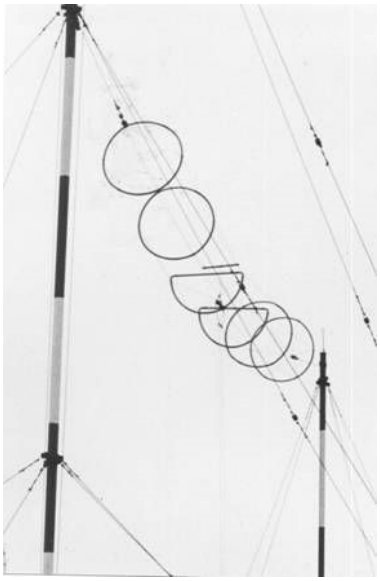
Many thanks to all contributors as usual. Best 73&55

Jochen Numbers-, X06 Database and Teamkopf

Thanks Joche

Thank you to all our contributors

For DGW05 and friends:



Phone Antenna	1	2	3	4	5	6	7	8	9	10
Type AFUE	VGDSH 24 30	VGDSH 16 20	VGDSH 20 20	VGDSH 16 25	VGDSH 16 25	VGDSH 16 25	VGDSH 16 26	RGD 57 30	RGD 40 30	VGDSHP 63 15
Operating Freq. Range	2-7,8 MHz	2,9-11,7 MHz	2,3-9,8 MHz	2,9-11,7 MHz	2,9-11,7MHz	2,9-11,7 MHz	2,9-11,7 MHz	2,7-6,6 MHz	6,4-15,8 MHz	1,7-20 MHz
Azimuth	135°/31°	7°/187°	7°/187°	15°/195°	0°/180°	100°/280	80°/260°	7°/	7°/	43°/223°
Phone Antenna	11	12	13	14	15	16	17	18	19	20
Type AFUE	VGDSHP 63 15	VGDSH 16 24	VGDSH 24 25	VGDSHP 16 20	VGDSH 24 25	VGDSH 16 24	VGDSH 16 20	VGDSHP 24 25	VGDSH 24 25	RGD 32 18
Operating Freq. Range	7,7-20 MHz	2,9-11,7 MHz	2-7,8 MHz	3-7,8 MHz	2-7,8 MHz	2,9-11,7 MHz	3-7,8 MHz	2-7,8 MHz	2-7,8 MHz	2,7-6,6 MHz
Azimuth	135°/315°	43°/223°	43°/223°	43°/223°	7°/187°	50°/230°	135°/315°	135°/315°	43°/223°	135°/
Phone Antenna	21	22	23	24	25	26	27	28	29	30
Type AFUE	VGDSH 16 24	VGDSH 16 20	RGD 32 18	VGDSH 24 25	V-arr.	RGD 57 30	VGDSH 24 25	RGD 32 18	VGDSH 24 25	VGDSH 24 25
Operating Freq. Range	2,9-11,7 MHz	2,9-11,7 MHz	2,7-6,6 MHz	2-7,8 MHz	2-24 MHz	2,7-6,6 MHz	2-7,8 MHz	6,4-15,8 MHz	2-7,8 MHz	2-7,8 MHz
Azimuth	70°/250°	90°/270°	135°/	135°/315°	135°/	43°/	135°/315°	43°/	135°/315°	43°/223°

PoSW's Items of Interest in the Media

Cressida Dick warns against the surveillance state; Cressida Dick? "Who the **** is Cressida Dick?", comes the cry. Cressida Dick is not, as one might suppose, the name of a character in one of those old British comedy films in the *Carry On...* series - played by someone like Barbara Windsor. No, Cressida Dick is the name of the individual who is in charge of the police in the capital city of my country. "Beware of Orwellian state, Met chief says", is the headline of an piece in *The Times* of 4-September, written by John Simpson, Crime Correspondent, which says, "Britain's most senior police officer has warned of the risk of sleepwalking into an Orwellian police sate as she renewed her commitment to utilising new technologies to combat crime.
Cressida Dick, commissioner of the Metropolitan Police, said that advances in facial recognition (AI) and robotics necessitated a new code of ethics and strict legal framework.
'We're now tiptoeing into a world of robotics, AI and machine learning. The next step might be predictive policing,' she told the Lowy Institute, a think tank in Sydney. 'People are starting to get worried about that...particularly because of the potential for bias in the data or the algorithm, such as live facial recognition software.
Challenges for policing in the modern era included the disclosure of evidence from digital devices, trawling CCTV and criminals hiding behind encrypted technology, she said.
She added, 'I'd like to talk a little bit about some of the principles that might assist with these ethical dilemmas so that we can maintain public trust and make the best use of technologies, and not just sleepwalk into some kind of ghastly, Orwellian, omniscient police state'
Ms Dick, 58, said that the average London household had ten 'data devices' containing about 50,000 'data items that we might be interested in'.
She has spoken in favour of new technologies being used to bolster policing efforts and renewed her call, highlighting the new challenges in policing.
'Most crimes have a digital element' she said. 'Most investigations require accessing data in multiple locations and criminals communicate sometimes across multiple encrypted platforms, often simultaneously, making identification or analysis of relevant content very challenging.
Ms Dick and other leading police figures hope that AI will help to solve the continuing crisis of forces being overwhelmed by digital evidence requests as investigations increasingly involve multiple mobile phones, computers and tablets.
She has been a staunch advocate of facial recognition technology which is opposed by civil liberty groups.
A ruling in a case against the use of the technology brought by a member of the public and the charity Liberty is expected today."

Another, "Big Brother is watching you" type story appeared in *The Times* of 9-October which made the suggestion that when it comes to spying on the individual the government's spooks are trailing somewhat behind other entities. "Facebook and Google know more about you than any spy agency" is the headline over an item by David Sanderson which says, "Internet giants have more personal information than any intelligence agency has ever had or should have, according to a former director of GCHQ.
Sir David Omand said profiting from information that people freely gave to companies such as Google and Facebook was 'truly dangerous and a major threat to democracy'. In contrast to 'extraordinarily regulated' British intelligence agencies, the power of the internet companies was uncontrolled.
'Nobody has worked out how to control the private use of our information' he told *The Times* and *The Sunday Times* Cheltenham Literature Festival yesterday. 'It's a fact that the internet companies know more about me, you, everyone in the hall than any intelligence agency ever could or should know'
Sir David, who was in charge at the signals intelligence organisation based in Cheltenham in the 1990s, likened the rise of the internet to the story about the blues guitarist Robert Johnson, who was said to have sold his soul to the devil at a crossroads in exchange for becoming the best musician in the world.

'Then he had to pay for his success and the internet is like that,' he said. 'It was wonderful to start off with, all open, the bad guys weren't there. Now the downside of the internet is very serious. It is very, dangerous for children, dangerous for anyone trying to do financial business.
Sir David accepted that the Investigatory Powers Act 2016, which, for example, compelled a senior judge to countersign any surveillance warrant, had left Britain's agencies like 'going on a football pitch with eight players and a goalkeeper with his hands tied'.
He said that while there had been qualms within the intelligence community 'in a democracy you are entitled to know what kinds of methods are being used to keep us safe.'
'The big revelation over the last couple of years has not been about government intelligence agencies,' he added. 'It has been about the private sector.'
'The Cambridge Analytica scandal – in which the company used personal data of Facebook users for political advertising, for which Facebook was fined - showed how information was becoming the 'feedstock for political campaigning'.
He said that people 'freely give our personal data in return for having an internet free at the point of use so we can do our searches and so on. And that information is monetised
and that is the feedstock for political campaigning where a political party can send different messages to different groups of people because they already knew what individuals likely preferences are. This is truly dangerous. I think it is a major threat to democracy and it is uncontrolled.'
Sir David, who was talking to Richard Aldrich, who has written a history of GCHQ, said Britain was vulnerable to a cyberattack, adding: 'It is difficult to give any assurance that the attackers will not get through and cause damage, perhaps damage which they were not even intending'.
Aldrich said that the challenge over the next decade for GCHQ was to tackle the threats posed by everyday items that were internet-enabled.
He said the person at the centre of this 'alarming landscape of malware' is the director of GCHQ'. He envisaged a scenario in which ten internet-enabled fridges across Los Angeles could be 'simultaneously set on fire by hackers'.
He added: 'Who needs an air force when you have the internet of things? This is very alarming and difficult territory.' "

Point to ponder:- "...a man hath no better thing under the sun than to eat, and to drink, and to be merry..." - Ecclesiastes, chapter 8, verse 15.

The Spectre 3000 News articles

Japan Times 14/09/2019

https://www.japantimes.co.jp/news/2019/09/14/world/cias-secret-cold-war-animal-spies-included-cats-dolphins-one-smart-raven/#.Xbw49NL7TIU

The CIA's secret Cold War animal spies included cats, dolphins and one smart raven
AFP-JIJI

In early 1974, Do Da was top in espionage class, on the way to becoming a high-flying CIA agent: He handled himself better in the rough, carried heavier loads and could brush off attackers.

But on his toughest test, he disappeared, done in by some of his own kind: ravens.

The bird was a central figure in a decadelong U.S. Central Intelligence Agency program to train animals as agents, helping Washington fight the Cold War against the Soviet Union.

On Thursday, the CIA released dozens of files from its tests on cats, dogs, dolphins and on birds from pigeons to some of the smartest: ravens and crows.

It studied cats as possible loose-roaming listening devices — "audio surveillance vehicles" — and put electrical implants in dogs' brains to see if they could be remotely controlled.

Neither of those programs went very far. More effort was put into training dolphins as potential saboteurs and helping spy on the Soviet Union's development of a nuclear submarine fleet — perhaps the most potent challenge to U.S. power in the mid-1960s.

Projects Oxygas and Chirilogy sought to see if dolphins could be trained to replace human divers and place explosives on moored or moving vessels, sneak into Soviet harbors and leave in place acoustic buoys and rocket detection units, or swim alongside submarines to collect their acoustic signatures.

Those programs, too, were given up, left to the U.S. Navy, which to this day makes use of dolphins and seals.

But what also grabbed the U.S. spy chiefs' imagination was birds: pigeons, hawks, owls, crows and ravens — even flocks of wild migratory birds.

The agency enlisted ornithologists to try to determine which birds regularly spent part of the year in the area of Shikhany in the Volga River Basin southeast of Moscow, where the Soviets operated a chemical weapons facility.

The CIA saw the migratory birds as "living sensors" whose flesh would reveal, based on what they had eaten, what kinds of substances the Russians were testing.

In the early 1970s, the CIA turned to birds of prey and ravens, hoping they could be trained for "emplacement" missions like dropping a listening device on a windowsill, and photo missions.

In project Axiolite, bird trainers working on San Clemente island off Southern California taught the birds to fly far over the water between a boat and land.

If the training went well, a chosen candidate would have a tough mission: being smuggled to Soviet Russia, where it would be released secretly in the field, tasked to fly 15 miles (25 kilometers) carrying a camera to snap pictures of a radar for SA-5 missiles, and fly back.

They had red-tailed and Harris's hawks, great horned owls, a vulture and a cockatoo.

It was not easy. A cockatoo was "a clever flyer" but "maybe too slow to avoid gull attacks."

Two falcons died from illness; another promising candidate lost feathers, and trainers had to wait for it to molt and grow them back.

The most promising flyer was Do Da, the raven. In just three months, Do Da went from a successful three-quarter-mile trip to 6 miles (9½ km) from shore to boat and then 4 miles back to shore on the same day.

He was the "star of this project," one scientist wrote, figuring out the right altitudes in various winds and acquiring "sufficient guile to outwit the native ravens and gulls," which hid for attacks on him.

But on a training mission he was attacked by "the usual pair" of ravens — and was not seen again.

The other major effort was with pigeons. The challenge was that pigeons work from home coops or roosts they are familiar with.

The CIA needed them for missions in the Soviet Union, where they would fly between unfamiliar roosts and photo targets.

The agency acquired hundreds of pigeons, testing them and cameras in areas around the United States to see if they could be trained on simulated paths.

Soon the target became known: the shipyards where the Soviets built nuclear submarines in Leningrad (now St. Petersburg).

After much training, the birds were brought to Washington for testing, and results were mixed. Some snapped perfect photos, but others flew out, with expensive cameras attached, and weren't seen again. One was attacked by a hawk, and came back three weeks later with no camera.

The documents don't say if the Leningrad operation was attempted. But a 1978 review the CIA released made clear that there were too many questions about the birds' reliability.

The Epoch Times 26/10/2019

https://www.theepochtimes.com/china-develops-portable-sonic-weapon-for-crowd-control_3097887.html

China Develops Portable Sonic Weapon for Crowd Control

Chinese Academy of Sciences (CAS) recently announced that it has developed the world's first hand-held sonic weapon, and will soon enter mass production for police crowd control.

The announcement was made in an online report from the academy's Technical Institute of Physics and Chemistry (TIPC) on Sept. 18.

The specific name of the research project was "portable low frequency high decibel focused acoustic device in crowd dispersion for police use."

It is one of the top ten national key R&D programs launched in November 2016, according to the report.

The instrument, jointly developed with research teams from the Chinese military and Ministry of Public Security, passed third-party testing and field testing on Sept. 4. The development was verified as "an independent innovation," the TIPC reported.

However, the entire report was later removed from TIPC's website.

Sonic weapons use sound waves to injure, incapacitate, or kill an opponent. There are two major categories of sonic weapons: those that involve audible frequencies and those that are either ultrasonic or infrasonic and are inaudible to humans.

TIPC's project name suggests that the sound generated by this portable weapon is likely infrasound (low frequency). According to a Sept. 25 article from Popular Mechanics, infrasound's effects on the human inner ear include, "vertigo, imbalance, intolerable sensations, incapacitation, disorientation, nausea, vomiting, bowel spasm; and resonances in inner organs, such as the heart."

Traditional infrasonic weapons are typically bulky units, and are most commonly used for crowd control and repelling pirates.

Flesh-burning Laser Rifle

Previously, China claimed to have developed a laser gun that burns flesh from half a mile away.

In an Aug. 2018 article, Phoenix News, a Hong Kong-based pro-Beijing publication, described this star-wars like laser rifle, ZKZM-500, as a powerful weapon that can instantly cause serious flesh burns and set flammable fabrics on fire, inflicting pain "beyond human endurance." The laser beams can even penetrate windows to attack the target.

Despite the horrific damaging effects, the Phoenix article emphasized repeatedly that this laser gun is a non-lethal weapon and will first of all be used as riot gear for China's armed police.

In addition, China does not plan to export this powerful laser gun. The only users will be the Chinese military and law enforcers, the article said.

Chinese Regime Is 'Modern Nazi Organization Equipped with High-Tech'
Zheng Haochang, a U.S.-based commentator on current affairs, told the Chinese-language Epoch Times that high-tech riot weapons have always been used by Western countries to combat terrorists, but in China, the regime's main focus is quelling dissidents.

"Especially at the present time, the Chinese Communist Party (CCP) feels very insecure about its power, and the suppression of dissidents has continued to escalate over the years."

In addition, the damaging effects of sonic weapons are not readily visible. "From this perspective, a portable sonic gun can cause extensive damage without leaving any traces. The victims will have difficulty proving the injuries they suffered. Chinese civilians are at a bigger risk when the CCP deploys this type of weapon to quell dissidents," Zheng added.

Li Da, an automation engineer working in the United States, told the Chinese-language Epoch Times that the CCP has been trying to control China's 1.4 billion Chinese people by developing high-tech weapons, police equipment, and surveillance technology on a large scale in recent years.

As far as he knows, the CCP also uses biological weapons that destroy liver cells and eventually kill pro-democracy activists. "The CCP is already a modern Nazi organization equipped with high-tech," Li said.

NYTimes 08/10/2019

https://www.nytimes.com/2019/10/08/world/europe/unit-29155-russia-gru.html

Top Secret Russian Unit Seeks to Destabilize Europe, Security Officials Say

First came a destabilization campaign in Moldova, followed by the poisoning of an arms dealer in Bulgaria and then a thwarted coup in Montenegro. Last year, there was an attempt to assassinate a former Russian spy in Britain using a nerve agent. Though the operations bore the fingerprints of Russia's intelligence services, the authorities initially saw them as isolated, unconnected attacks.

Western security officials have now concluded that these operations, and potentially many others, are part of a coordinated and ongoing campaign to destabilize Europe, executed by an elite unit inside the Russian intelligence system skilled in subversion, sabotage and assassination.

The group, known as Unit 29155, has operated for at least a decade, yet Western officials only recently discovered it. Intelligence officials in four Western countries say it is unclear how often the unit is mobilized and warn that it is impossible to know when and where its operatives will strike.

The purpose of Unit 29155, which has not been previously reported, underscores the degree to which the Russian president, Vladimir V. Putin, is actively fighting the West with his brand of so-called hybrid warfare — a blend of propaganda, hacking attacks and disinformation — as well as open military confrontation.

"I think we had forgotten how organically ruthless the Russians could be," said Peter Zwack, a retired military intelligence officer and former defense attaché at the United States Embassy in Moscow, who said he was not aware of the unit's existence.

In a text message, Dmitri S. Peskov, Mr. Putin's spokesman, directed questions about the unit to the Russian Defense Ministry. The ministry did not respond to requests for comment.

Hidden behind concrete walls at the headquarters of the 161st Special Purpose Specialist Training Center in eastern Moscow, the unit sits within the command hierarchy of the Russian military intelligence agency, widely known as the G.R.U.

Though much about G.R.U. operations remains a mystery, Western intelligence agencies have begun to get a clearer picture of its underlying architecture. In the months before the 2016 presidential election, American officials say two G.R.U. cyber units, known as 26165 and 74455, hacked into the servers of the Democratic National Committee and the Clinton campaign, and then published embarrassing internal communications.

[Our correspondent Matt Apuzzo reported on Russia's blueprint for foreign disruption on "The Weekly," The Times's TV show. Watch on FX and Hulu.]

Last year, Robert S. Mueller III, the special counsel overseeing the inquiry into Russian interference in the 2016 elections, indicted more than a dozen officers from those units, though all still remain at large. The hacking teams mostly operate from Moscow, thousands of miles from their targets.

By contrast, officers from Unit 29155 travel to and from European countries. Some are decorated veterans of Russia's bloodiest wars, including in Afghanistan, Chechnya and Ukraine. Its operations are so secret, according to assessments by Western intelligence services, that the unit's existence is most likely unknown even to other G.R.U. operatives.

The unit appears to be a tight-knit community. A photograph taken in 2017 shows the unit's commander, Maj. Gen. Andrei V. Averyanov, at his daughter's wedding in a gray suit and bow tie. He is posing with Col. Anatoly V. Chepiga, one of two officers indicted in Britain over the poisoning of a former spy, Sergei V. Skripal.

“This is a unit of the G.R.U. that has been active over the years across Europe,” said one European security official, who spoke on condition of anonymity to describe classified intelligence matters. “It’s been a surprise that the Russians, the G.R.U., this unit, have felt free to go ahead and carry out this extreme malign activity in friendly countries. That’s been a shock.”

To varying degrees, each of the four operations linked to the unit attracted public attention, even as it took time for the authorities to confirm that they were connected. Western intelligence agencies first identified the unit after the failed 2016 coup in Montenegro, which involved a plot by two unit officers to kill the country’s prime minister and seize the Parliament building.

But officials began to grasp the unit’s specific agenda of disruption only after the March 2018 poisoning of Mr. Skripal, a former G.R.U. officer who had betrayed Russia by spying for the British. Mr. Skripal and his daughter, Yulia, fell grievously ill after exposure to a highly toxic nerve agent, but survived.

(Three other people were sickened, including a police officer and a man who found a small bottle that British officials believe was used to carry the nerve agent and gave it to his girlfriend. The girlfriend, Dawn Sturgess, died after spraying the nerve agent on her skin, mistaking the bottle for perfume.)

The poisoning led to a geopolitical standoff, with more than 20 nations, including the United States, expelling 150 Russian diplomats in a show of solidarity with Britain.

Ultimately, the British authorities exposed two suspects, who had traveled under aliases but were later identified by the investigative site Bellingcat as Colonel Chepiga and Alexander Mishkin. Six months after the poisoning, British prosecutors charged both men with transporting the nerve agent to Mr. Skripal’s home in Salisbury, England, and smearing it on his front door.

But the operation was more complex than officials revealed at the time.

Exactly a year before the poisoning, three Unit 29155 operatives traveled to Britain, possibly for a practice run, two European officials said. One was Mr. Mishkin. A second man used the alias Sergei Pavlov. Intelligence officials believe the third operative, who used the alias Sergei Fedotov, oversaw the mission.

Soon, officials established that two of these officers — the men using the names Fedotov and Pavlov — had been part of a team that attempted to poison the Bulgarian arms dealer Emilian Gebrev in 2015. (The other operatives, also known only by their aliases, according to European intelligence officials, were Ivan Lebedev, Nikolai Kononikhin, Alexey Nikitin and Danil Stepanov.)

The team would twice try to kill Mr. Gebrev, once in Sofia, the capital, and again a month later at his home on the Black Sea.

Speaking to reporters in February at the Munich Security Conference, Alex Younger, the chief of MI6, Britain’s foreign intelligence service, spoke out against the growing Russian threat and hinted at coordination, without mentioning a specific unit.

“You can see there is a concerted program of activity — and, yes, it does often involve the same people,” Mr. Younger said, pointing specifically to the Skripal poisoning and the Montenegro coup attempt. He added: “We assess there is a standing threat from the G.R.U. and the other Russian intelligence services and that very little is off limits.”

The Kremlin sees Russia as being at war with a Western liberal order that it views as an existential threat.

At a ceremony in November for the G.R.U.’s centenary, Mr. Putin stood beneath a glowing backdrop of the agency’s logo — a red carnation and an exploding grenade — and described it as “legendary.” A former intelligence officer himself, Mr. Putin drew a direct line between the Red Army spies who helped defeat the Nazis in World War II and officers of the G.R.U., whose “unique capabilities” are now deployed against a different kind of enemy.

“Unfortunately, the potential for conflict is on the rise in the world,” Mr. Putin said during the ceremony. “Provocations and outright lies are being used and attempts are being made to disrupt strategic parity.”

In 2006, Mr. Putin signed a law legalizing targeted killings abroad, the same year a team of Russian assassins used a radioactive isotope to murder Aleksander V. Litvinenko, another former Russian spy, in London.

Unit 29155 is not the only group authorized to carry out such operations, officials said. The British authorities have attributed Mr. Litvinenko’s killing to the Federal Security Service, the intelligence agency once headed by Mr. Putin that often competes with the G.R.U.

Although little is known about Unit 29155 itself, there are clues in public Russian records that suggest links to the Kremlin’s broader hybrid strategy.

A 2012 directive from the Russian Defense Ministry assigned bonuses to three units for “special achievements in military service.” One was Unit 29155. Another was Unit 74455, which was involved in the 2016 election interference. The third was Unit 99450, whose officers are believed to have been involved in the annexation of the Crimean Peninsula in 2014.

A retired G.R.U. officer with knowledge of Unit 29155 said that it specialized in preparing for “diversionary” missions, “in groups or individually — bombings, murders, anything.”

“They were serious guys who served there,” the retired officer said. “They were officers who worked undercover and as international agents.”

Photographs of the unit’s dilapidated former headquarters, which has since been abandoned, show myriad gun racks with labels for an assortment of weapons, including Belgian FN-30 sniper rifles, German G3A3s, Austrian Steyr AUGs and American M16s. There was also a form outlining a training regimen, including exercises for hand-to-hand combat. The retired G.R.U. officer confirmed the authenticity of the photographs, which were published by a Russian blogger.

The current commander, General Averyanov, graduated in 1988 from the Tashkent Military Academy in what was then the Soviet Republic of Uzbekistan. It is likely that he would have fought in both the first and second Chechen wars, and he was awarded a Hero of Russia medal, the country’s highest honor, in January 2015. The two officers charged with the Skripal poisoning also received the same award.

Though an elite force, the unit appears to operate on a shoestring budget. According to Russian records, General Averyanov lives in a run-down Soviet-era building a few blocks from the unit’s headquarters and drives a 1996 VAZ 21053, a rattletrap Russia-made sedan. Operatives often share cheap accommodation to economize while on the road. British investigators say the suspects in the Skripal poisoning stayed in a low-cost hotel in Bow, a downtrodden neighborhood in East London.

But European security officials are also perplexed by the apparent sloppiness in the unit’s operations. Mr. Skripal survived the assassination attempt, as did Mr. Gebrev, the Bulgarian arms dealer. The attempted coup in Montenegro drew an enormous amount of attention, but ultimately failed. A year later, Montenegro joined NATO. It is possible, security officials say, that they have yet to discover other, more successful operations.

It is difficult to know if the messiness has bothered the Kremlin. Perhaps, intelligence experts say, it is part of the point.

“That kind of intelligence operation has become part of the psychological warfare,” said Eerik-Niiles Kross, a former intelligence chief in Estonia. “It’s not that they have become that much more aggressive. They want to be felt. It’s part of the game.”

Note: I wonder if the 5 figure unit numbers within this news article, have anything in common with known Russian Data Mode Headers?

The Guardian 24/10/2019

https://www.theguardian.com/world/2019/oct/24/paul-whelan-ex-us-marine-detained-russia-spy-charges

Ex-US marine held in Russia on spy charges says he is Mr Bean not Mr Bond

Moscow court extends detention until 29 December for Paul Whelan, who says he’s being kept for a potential prisoner swap

A former US marine who has been held in Russia since last year on spy charges insisted he was more Mr Bean than Mr Bond as a Moscow court extended his detention for another two months.

Paul Whelan, 49, who has US, Irish, Canadian and British citizenship, denounced the case against him and said he was being held “hostage” for a possible prisoner exchange.

He was arrested in December for allegedly receiving state secrets, and risks up to 20 years in prison if convicted.

“Russia thought they caught James Bond on a spy mission, in reality they abducted Mr Bean on holiday,” he said, reading out a statement as the judge was announcing the decision to keep him in jail until 29 December.

Appearing in court in a dark sweater and jeans, he described the case against him as “a hostage situation”.

Asked by AFP if he thought he was being kept for a potential prisoner swap, he replied from his cage, “I would characterise it that way.”

Whelan asked for the prosecutor and judge to be removed from the case because complaints that he has been assaulted in jail were ignored.

“Evidence that I provided has been ignored … Questions of law are always decided in favour of the prosecutors and the FSB [security service],” he told the judge, who rejected the requests.

“I was handcuffed, held down by a guard … assaulted,” Whelan said, adding that the incidents were overlooked by authorities.

Whelan, a former US marine, maintains he has been framed and that he took a USB drive from an acquaintance thinking it contained holiday photos.

Whelan’s lawyer, Vladimir Zherebenkov, said the acquaintance that handed over the drive is the only witness against Whelan while the rest of his longtime acquaintances in Russia gave witness statements in his defence.

The man testifying against Whelan “was a provocateur”, the lawyer said.

David Whelan, Paul’s brother who runs a public campaign in his defence, told AFP on Wednesday that he believes Moscow to be “open for a trade for Paul”, exchanging him for Russians in US custody.

“I think in this case, this is just lowdown extortion, ransoming,” David Whelan said. “Paul was grabbed up and charged with a crazy charge of espionage.”

Paul Whelan frequently uses court hearings to appeal to journalists and governments, and on Thursday called on “prime ministers and presidents” to “act decisively now” and provide support.

Representatives of all four embassies were in the courtroom for the first time on Thursday.

Al Jazeera 24/10/2019

https://www.aljazeera.com/news/2019/10/release-russian-agent-maria-butina-prison-191024054855469.html

US to release Russian 'agent' Maria Butina from prison

Gun advocate who built network of Republican contacts before spying arrest is expected in Russia within days.

Maria Butina, the red-headed gun advocate from Russia who built a network of high-level Republican contacts in the United States before being arrested for spying, is expected to return to her country after her Friday release from a Florida prison.

The only Russian arrested and convicted in the three-year investigation of Moscow's interference in US politics, Butina parlayed ties with the National Rifle Association (NRA) firearms lobby into a network that brought her into contact with US President Donald Trump before his 2016 election, as well as with one of his sons.

Butina said she was on a quest to establish better relations between Russia and the US, and enrolled in university in Washington, DC while living with a Republican operative.

But she was arrested in July 2018 on allegations she was engaging in espionage, though she had no connection with Russia's established spy agencies.

In December, Butina, 30, entered a plea deal on a charge that she acted as an illegal, unregistered foreign agent, and was sentenced to 18 months in prison, nearly half of which was credited as already served.

Cause-celebre
Under broader attack in the US for interfering in the 2016 election, Moscow made the Siberian native a cause-celebre, with the foreign ministry posting her picture prominently on its social media accounts, calling to "Free Maria".

Her lawyer, a Washington public defender, did not reply to questions about her plans, but said in a filing this week she would return to Russia.

Russian media also reported she was expected to be back within days.

But it remained unclear whether she was an intelligence operative positioned to infiltrate US political circles, or just someone genuinely creating people-to-people channels of cooperation who fell victim to a higher level of intrigue relating to Russian election interference.

Butina told NPR radio from jail while a graduate student in politics at American University, she had only sought to be involved in "civil diplomacy".

"I never hide my love to my motherland neither to this country... I love both countries and I was building peace," she said.

Gun rights

Starting in 2013, Butina built a bridge to the US through ties between her small Russian gun-rights group and the Republican-aligned NRA.

Her group hosted NRA leaders in Russia and she and her influential Moscow sponsor, Alexander Torshin, attended NRA events and US political gatherings, where they met influential Republicans.

Attending a Trump rally in 2016, Butina was singled out to ask the future president a question about US-Russia relations.

Her social media was full of pictures of her posing with various firearms, endearing her to US gun activists. She became the girlfriend of a mid-level Republican and NRA operative, Paul Erickson.

In 2016, she enrolled in American University, but prosecutors said she was in regular contact with embassy personnel with intelligence ties.

They said although Butina was not an employee of any of Moscow's spy services, she knowingly took part in an operation to "spot and assess" potential US espionage targets.

"There is no doubt that she was not simply a graduate student," Assistant US Attorney Erik Kenerson told the court.

Butina denied it but ultimately agreed to plead guilty to the charges of being an unregistered foreign agent.

"I humbly request forgiveness. I'm not this evil person depicted in the media," she told the court before being sentenced.

This caught our eye as a peculiar article. [what do they think we need]?

Counter-terror police running secret Prevent database

Jamie Grierson Home affairs correspondent
18 hrs ago

https://www.msn.com/en-gb/news/uknews/counter-terror-police-running-secret-prevent-database/ar-AAInvSz?ocid=spartanntp

Counter-terror police across the UK have been running a secret database containing details of thousands of individuals referred to the government's controversial anti-radicalisation Prevent programme, the Guardian can reveal.

The National Police Prevent Case Management (PCM) database is managed centrally by national counter-terrorism policing headquarters. It is accessible to all police forces across England, Wales, Scotland and Northern Ireland, as well as the Home Office, according to documents sent to human rights group Liberty and seen by the Guardian.

The stated aim of Prevent, a voluntary programme, is to divert people from terrorism before they offend and crucially deals with individuals who have yet to cross the criminality threshold.

© Associated Newspapers Ltd Judge blasts police whitewash in VIP abuse case

Each Prevent referral received is added to the PCM database by individual police forces, including personal details and reasons for the referral, but the person is not notified, responses to Freedom of Information (FOI) requests submitted by Liberty showed. Other agencies are able to request information held on the database.

The revelations about the existence of the database come at a time when Prevent is facing renewed scrutiny as an independent review begins, sparked by years of accusations that the programme had become a toxic brand that disproportionately targeted Muslims.

Police chiefs told the Guardian that recording referrals ensured accountability and allowed forces to understand when vulnerabilities are increasing.

Gracie Bradley, Liberty policy and campaigns manager, said: "This secret database isn't about keeping us safe. It's about keeping tabs on and controlling people – particularly minority communities and political activists.

"It is utterly chilling that potentially thousands of people, including children, are on a secret government database because of what they're perceived to think or believe."

Any rank of police officer or police staff can access the database but users must be Prevent practitioners, who are vetted and given training prior to access.

The exact number of individuals on the database is currently unknown but forces that responded to Liberty's request for information said all referrals were added at the time of receipt and official statistics show that 21,042 individuals have been referred in the three years to March 2018 alone.

In the most recent year available, 2017/18, a total of 7,318 individuals were subject to a referral but 3,096 or 42% left the process requiring no further action and 3,466 left the process and were signposted to alternative services.

The majority – 4,144 or 57% – were aged 20 years or under. Within this figure, 2,009 were under 15 and 2,135 were aged 15 to 20.

Related: Look who's watching - intelligence agencies around the world (Photos) 62nd anniversary of the NSA

Worth looking at: https://www.msn.com/en-gb/news/uknews/counter-terror-police-running-secret-prevent-database/ar-AAInvSz?ocid=spartanntp

MI6 - United Kingdom

Thanks to James Bond, the Secret Intelligence Service is perhaps the most well-known intelligence agency in the world. Tasked with supplying the British government with foreign intelligence, the origins of MI6 (Military Intelligence 6) date back to 1909, but its existence was only officially acknowledged in 1994. The MI6 building is seen on Vauxhall Cross, London.

3/11 SLIDES© Thibault Camus/AP Photo

DGSE - France

Created in 1982, the Direction générale de la sécurité extérieure, or DGSE, is France's external intelligence agency. In the early 1980's, the agency revealed the most extensive technological spy network in Europe and the United States to date. This network had allowed the Soviet Union to gather significant amounts of information about important technical advances in the West without the knowledge of Western intelligence agencies. The photo shows a general view of the DGSE building in Paris, France.

4/11 SLIDES© Sergey Butorin/Getty Images

FSB - Russia

One of the most important players in the world of spy agencies, the Federal Security Service of the Russian Federation (FSS) is the principal security agency of the Russian Federation and the main successor to the USSR's KGB. In 2006, the FSB achieved major success in its counter-terrorism efforts when it successfully killed Shamil Basayev, the mastermind behind the Beslan tragedy. The Federal Security Bureau can be seen in the photo, at Lubyanka Street in Moscow.

5/11 SLIDES© Andrew Caballero-Reynolds/AFP/Getty Images

RAW - India

India's premier intelligence agency was founded in 1968, to mostly counter China's influence in South-Asia. Over the years, the Research and Analysis Wing (RAW) has helped unearth links between terrorist groups and Pakistani intelligence, and is said to have a hand in the creation of Bangladesh. A security officer stands near the Taj Mahal in Agra, Nov. 13, 2011.

6/11 SLIDES© Pakistan Rangers/AP Photo

ISI - Pakistan

Inter Service Intelligence, formed in 1948, is Pakistan's answer to India's RAW. After 9/11, ISI has been working closely with the CIA in various counter-terrorism operations. In this undated handout photo, the new ISI Chief, Maj. Gen. Rizwan Akhtar, right, walks with Prime Minister Nawaz Sharif in Karachi, Pakistan.

7/11 SLIDES© Sean Gallup/Getty Images

Bundesnachrichtendienst (BND) – Germany

Organisation Gehlen was founded after the end of World War II, to pool all information relevant to Germany's security policy. The Federal Intelligence Service (BND) is a direct offshoot of this organization and is reportedly based out of 300 locations in Germany and around the world. A man rides a bicycle past the construction site of the new headquarters of Germany's Federal Intelligence Service, the BND, March 31, 2014 in Berlin, Germany.

8/11 SLIDES© Jason Lee/Reuters

MSS - China

The Ministry of State Security (MSS) is China's apex intelligence and security agency, responsible for counter-intelligence, foreign intelligence and political security. It is headquartered in Beijing. A soldier stands guard amid heavy haze near Tiananmen Gate in Beijing, Oct. 24, 2014.

9/11 SLIDES© AP Photo

Mossad - Israel

Founded in 1949 under the direction of David Ben Gurion, Mossad is a key factor in the war against terror directed at Jewish and Israeli targets abroad. The ultra-secretive agency hit its peak when it captured and tried Nazi war criminal Adolf Eichmann in 1960. German Gestapo officer Adolf Eichmann listens to the guilty verdict read by the presiding judge as he stands in a special bullet-proof glass enclosure in a Jerusalem court on Dec. 11, 1961 during his trial for war crimes against Jews. He was sentenced to death and hanged at Ramleh Prison, May 31, 1962.

10/11 SLIDES© Bill O'Leary/The Washington Post/Getty Images

CIA - United States

After the U.S. entered World War II, the need for a centralized intelligence organization made President Truman sign the National Security Act of 1947, establishing the CIA. A portrait of William Donovan, considered the father of American intelligence, is the first in a long line of Director's portraits on a wall in the headquarters of the CIA in McLean, VA.

11/11 SLIDES© Adrees Latif/Reuters

ASIS - Australia

Headquartered in Canberra, the Australian Secret Intelligence Service (ASIS) is a government agency founded in 1952, responsible for collecting foreign intelligence, undertaking counter-intelligence activities and cooperation with other intelligence agencies overseas. A police sniper stands guard on the roof of the Sydney Opera House during an Asia-Pacific Economic Cooperation (APEC) business summit in Sydney, Sept. 7, 2007.

11/11 SLIDES
Ultimately, only 394 were escalated to the Channel process, which provides specialist support to people who were deemed at risk of being drawn into terrorism following a number of assessments.

Police Prevent practitioners also have access to the Channel Management Information System which is a database of Prevent Channel cases, the responses said. CMIS is owned and managed by the Home Office.

Information on the database is derived from referrals made by public servants like teachers and doctors as well as police, who are compelled to monitor and report signs of what they believe could indicate extremism under a controversial statutory duty.

In its response, the Met police said an individual can challenge the decision and have their details removed but the challenge may not always be successful depending on the circumstances.

However, the force did not elaborate on how that would be possible given that individuals are not aware their details are entered on the database.

Harun Khan, secretary general of the Muslim Council of Britain, said: “That a database is being compiled by police forces detailing every Prevent referral is deeply worrying. That it is secret is even more concerning.

“This database – over and above being a hugely authoritarian tool – will mean that the vast majority of those referred, who are found to have no terrorism link, will still be perceived as potential risks by the state, and this will disproportionately affect Muslims.

“Our questions on transparency, accountability and oversight around Prevent now become even more important.”

The independent review of Prevent, announced in January, attracted controversy itself when it emerged the man appointed to lead the exercise, Lord Carlile, had admitted to parliament that he “may be somewhat biased towards” the programme and had pledged his “considered and strong support” to it, prompting calls for him to step down.

Further criticism was triggered by the terms of reference for the review, published last month, which suggested the exercise would not “consider past decisions” made under the programme.

Lord Carlile sought to reassure critics by claiming that “everything is up for discussion, including scrapping” the programme.

One of four strands of the government’s counter-terrorism strategy known as Contest, Prevent was created by the Labour government in 2003 and its remit was widened by the coalition government in 2011. The statutory duty on schools, NHS trusts, prisons and local authorities to report concerns about people who may be at risk of turning to extremism or terrorism was introduced in 2015.

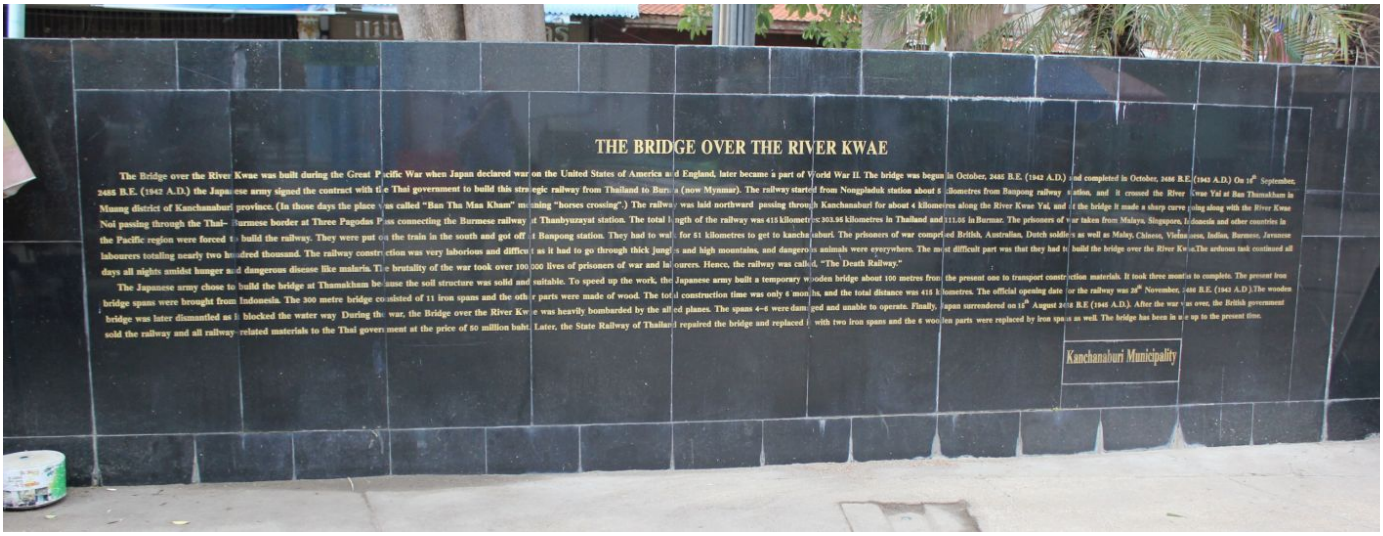
A National Police Chiefs’ Council spokesman said: “The public would expect the police to maintain professional records of those individuals referred for support as potential victims of radicalisation. This is no different to the way we record other forms of supportive safeguarding activity such as child sexual exploitation, domestic abuse or human trafficking.

“Good records ensure we are accountable, allow us to understand when vulnerabilities are increasing, and ensure we act consistently and proportionately, only taking action in those cases where our support is necessary.

“If we did not maintain proper, legally compliant records, the public would rightly have far less confidence in the police.”

https://www.msn.com/en-gb/news/uknews/counter-terror-police-running-secret-prevent-database/ar-AAInvSz?ocid=spartanntp

Image of Plaque erected at site of the ‘Bridge over the River Kwae’ where allied prisoners of war were used as slave labour by Imperial Japanese Forces



Plaque erected by the Kanchanaburi Municipality of Thailand in Remembrance of those souls who perished and whose remains are interred in the War Graves nearby

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Chart Section Index

November 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
x							0000		M14	01A	5825 376	5825 376	
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x				x			0010/0030/0050		M12	01B	**search**	**search**	
x							0025		M42C	01C	12101	10884	
x							0035		M42C	01C	9215	8157	
x	x	x	x	x			0100		M42C	01C	14421	14421	
x	x	x	x	x	x	x	0100		V13	0			
	x		x				0100/0120/0140		M12	01B	15831/14431/13431 844	15956/14756/13456 974	
x							0125		M42C	01C	12101	10884	
x							0135		M42C	01C	9215	8157	
						x	0100/0120/0140		V07	01B	15946/14846/13486 984	11594/10794/10194 571	
x	x	x	x	x	x	x	0200		V13	0	13750	13750	
x							0210/0310		E06	01A	10673/14398 537	9382/13426 537	
x				x			0210/0230/0250		M12	01B			
			x	x			0300/0400		E06	01A	16163/13863 361	14654/12177 361	
x	x	x	x	x	x	x	0300		V13	0	13750	13750	
	x		x				0300/0320/0340		M12	01B			
						x	0300/0320/0340		V07	01B			
		x	x				0315		E11	03	5779 25#	5779 25#	
x	x	x	x	x	x	x	0400		V13	0	11430	11430	
			x				0430/0450/0510		E07A	01B			
				x		x	0435		E11	03	search	search	
x							0450		E11	03	4909 41#	4909 41#	
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	x		x		x		0455		HM01	18	11462	11462	
						x	0500/0520/0540		V07	01B			
			x	x			0500/0600	1/3	E06	01A			
	x			x			0530		M01A	14	9441 751	9441 751	
		x	x				0530		M01A	14	9129 or 9192 498	9129 or 9192 498	
	x						0530/0550/0610		M12	01B	9317/10484/11552 135	9317/10484/11552 135	
			x				0530/0550/0610		E07A	01B	5111/ 5811/ 6911 189	5111/ 5811/ 6911 189	
		x	x				0540		M01A	14	7692 536	7692 536	
x		x		x		x	0555		HM01	18	10345	10345	
	x		x		x		0555		HM01	18	14375	14375	
x				x			0600		E11	03	9200 18#, **check**	9200 18#	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
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			x	x			0600/0700	1/3	E06	01B	18285/20140 507	14575/17420 923	
	x			x			0620		M01A	14	10233 or 10235 354/458	10233 or 10235 354/458	
		x	x				0620		M01A	14	9421 135	9421 135	
	x			x			0630		M01A	14	9447 143/796	9447 143/796	
		x	x				0630		M01A	14	8111 902/536	8111 902/536	
				x			0630/0640		S06S	01A	11780/12570 156, **check**	11780/12570 156	
x							0630/0640		S06S	01A	13470/16515 462, check	13470/16515 462	
x		x					0640		E11	03	11450 94#	11450 94#	
	x		x				0645		E11	03	7840 51#	7840 51#	
x		x		x		x	0655		HM01	18	9330	9330	
	x		x		x		0655		HM01	18	13435	13435	
	x			x			0700		E11	03	**6804** 57#	6804 57#	
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	x						0700/0710		S06S	01A	5250/ 6320 452	5250/ 6320 452	
	x			x			0700/0720/0740		E07	01B	15823/16323/18623 836	14364/14964/15964 399	
			x		x	x	0700/0720/0740		E07	01B	10112/11112/12112 111	8123/ 9323/10423 134	
	x		x				0700/0720/0740		M12	01B			
						x	0700/0720/0740		V07	01B			
x		x					0700/0720/0740		XPA2	01B			XPA2p
					x	x	0710		E11	03	4505 49#	4505 49#	
	x			x			0710		M01A	14	10651 297/358	10651 297/358	
		x	x				0710		M01A	14	9175 146/208	9175 146/208	
	x		x				0710/0730/0750		XPA1	01B			XPA1c
	x			x			0715		E11	03	9130 63#	9130 63#	
	x			x			0720		M01A	14	9151 728	9151 728	
	x						0730/0740		S06S	01A	7410/11532 427	7410/11532 427	
		x					0730/0740		S06S	01A			

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
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	x		x		x		0755		HM01	18	11365	11365	
x	x	x	x	x	x	x	0800		V13	0	15250	18040	
x							0800	1/3	G06	01A	5320 329	5320 329	
			x				0800/0810		E17Z	01A	11170, 9820 217	11170, 9820 217	
	x						0800/0810		S06S	01A	11945/13195 127	11945/13195 127	
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x		x					0800/0820/0840		XPA2	01B	13427/14627/15827 **check**	10278/12178/13478 **check**	XPA2p
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			x	**x**			0820		E11	03	5149 43#	5149 43#	
	x	x					0820		E11	03	14611 13#	14611 13#	
x							0830/0840		S06S	01A	8057/ 8530 764	8057/ 8530 764	
		x					0830/0840		S06S	01A	7062/10532 464	7062/10532 464	
		x					0830/0840		S06S	01A	11535/11830 172, check	11535/11830 172	
				x			0830/0840		S06S	01A	x11945/13195 352, search **cf. Fri 0830**	x11945/13195 352, search	
			x	x			0830/0930		S06	01A	19875/16067 842	17435/14375 842	
	x		x				0845		E11	03	11104 15#, **check**	11104 15#	
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	x		x		x		0855		HM01	18	11462	11462	
x		x					0900		E11	03	8597 53#, **check**	8597 53#	
x							0900/0910		S06S	01A	14675/12830 232	14675/12830 232	
				x			0900/0910		S06S	01A	5765/ 6315 239	5765/ 6315 239	
					x		0900/0920/0940		E07A	01B	11553/12153/13553 515	11121/12221/13421 124	
x		x					0910/0930/0950		XPA2	01B	17413/15852/13363	13562/11583/10281	
			x		x		0910/0930/0950		XPA2	01B	15985/14885/13885	13919/11419/10719 11**5**19?	
x				x			0915		S11A	03	48#, **search**	48#	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
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			x				0930/0940		S06S	01A	8812/ 9540 698	8812/ 9540 698	
x		x		x		x	0955		HM01	18	9155	9155	
	x		x		x		0955		HM01	18	12180	12180	
	x			x			1000		E11	03	8800 30#, **check**	8800 30#	
	x						1000/1010		S06S	01A	6440/ 5660 427	6440/ 5660 427	
		x					1000/1010		S06S	01A	12365/14280 276	12365/14280 276	
x			x				1015		S11A	03	11559 47#	11559 47#	**deleted?**
	x			x			1020		S11A	03	**7600** 42#	7600 42#	
x		x					1045		E11	03	7984 69#	7984 69#	
		x		x			1100		S11A	03	x5815 37#, **check**	x5815 37#	
	x						1100/1110		S06S	01A	5035/5975 265	5035/5975 265	
	x			x			1100/1120/1140		E07	01B	14884/13384/11584 835	11493/10193/ 8193 411	
x	x	x	x	x	x	x	1200		V13	0	7502	7688	
		x					1200/1300	1/2	G06	01A	4897/ 4034 145	4897/ 4034 145	
x							1200/1210		S06S	01A			
			x				1200/1210		S06S	01A	12155/10920 175	12155/10920 175	
x					x		1200/1210/1210 1230/1240/1250		XPB1	01B	**search**	**search**	
	x					x	1200/1220/1240		XPA2	01B			
	x	x					1205		E11	03	6433 46#	6433 46#	
		x		x			1210/1230/1250		M12	01B			
			x				1300	1/3	G06	01A	4460 329	4460 329	
			x		x		1300		E11	03	11116 58#	11116 58#	**deleted?**
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x							1300/1310		S06S	01A	8420/10635 149	8420/10635 149	
			x			x	1300/1320/1340		E07	01B			
	x					x	1300/1320/1340		XPA2	01B	x18238/16238/ 14438, **search**	x14538/13538/ 12138, **search**	XPA2m
		x		x			1310/1330/1350		M12	01B	13936/12136/11536 915	12217/11517/10317 253	
	x				x		1345		E11	03	14666 91#, **check**	14666 91#	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
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x	x	x	x	x	**x**	x	1400		M08A	18	8096	8096	
x		x					1400/1420/1440		M12	01B	16296/14796/13396 273	13371/11571/10271 352	
			x		x		1410/1430/1450		E07	01B	11574/10274/ 9274 327	10226/ 9226/ 8126 674	
	x	x	x				1500/1600		S06	01A	13397/ 9194 387		
					x		1500		M01	14	5810 197	5810 197	
	x						1500/1510		S06S	01A	6845/ 9170 914	6845/ 9170 914	
x					x		1500/1520/1540		XPA2	01B			
	x					x	1500/1520/1540		XPA2	01B			XPA2m
			x		x		1510/1530/1550		E07	01B	search	search	
				x			1510/1530/1550		E07A	01B			
x				x			1530		E11	03	52#, **search**	52#	
			x				1530		E11	03	5409 26#	5409 26#	
x	x	x	x	x	x	**x**	1555		HM01	18	11435	11435	
	x	x					1600	1/3	M14	01A	4483 (tue) 5425 (wed) 239	4483 (tue) 5425 (wed) 239	
x					x		1600/1620/1640		XPA2	01B	**search**	**search**	
	x		x				1600/1620/1640		XPA2	01B	**search**	8184/ 7864/ 6784	
	x					x	1605		E11	03	4505 23#, **check**	4505 23#	
				x			1610/1630/1650		E07A	01B	8138/ 7538/ 6838 158	5887/5387/ 5087 830	
		x				x	1625		E11	03	6923 97#	6923 97#	
	x		x				1645		E11	03	11493 33#	11493 33#	
				x		x	1650		E11	03	16335 92#, **check**	16335 92#	
x							1700/1800	1/2	G06	01A	3619/ 4528 145	3619/ 4528 145	
x	x	x	x	x	x	**x**	1655		HM01	18	11530	11530	
		x				x	1700/1720/1740		E07	01B			
			x				1700/1720/1740		M12	01B	12162/11566/1ß711 546	12162/11566/1ß711 546	
				x			1700/1800	1/3	M14	01A	**4562** **574**	**4562** **574**	
		x			x		1705		E11	03	x9443 39#, **check**	x9443 39#	
x							1710/1730/1750		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938	
		x					1710/1730/1750		M12	01B	12162/11566/10711 546	12162/11566/10711 546	
		x			x		1730		E11	03	8545 40#	8545 40#	**deleted?**
			x				1730		E11	03	5779 41#	5779 41#	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
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x						x	1745		E11	03	12924 24#	12924 24#	**deleted?**
	x		x				1800		M01	14	5320 197	5320 197	
x	x	x	x	x	x	**x**	1755		HM01	18	11635	11635	
		x				x	1800/1820/1840		E07	01B	7582/ 6782/ 5182 571	6771/ 5871/ 4571 785	
			x				1700/1720/1740		M12	01B	12162/11566/1ß711 546	12162/11566/1ß711 546	
	x					x	1800/1820/1840		XPA2	01B			XPA2m
x							1810		M01B	14			
	x						1820	2/4	M14	01A	4636 186	4636 186	
			x				1830	2/4	G06	01A	4519 271	4519 271	
			x				1832		M01B	14			
	x			x			1840/1850/1900	1	F01	01A			
		x			x		1850		S11A	03	11486 28#	11486 28#	
x			x				1900		E11	03	6849 64#	6849 64#	
	x					x	1900/1910/1910 1930/1940/1950		XPB1	01B			
x		x					1900/1920/1940		E07	01B			
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463	
				x			1900/2000	1/3	M14	01A	4813/ 4480 735	4813/ 4480 735	
				x			1900/2000	1/3	S06	01A	7309/ 5091 627		
				x			1902		M01B	14			
				x		x	1910		E11	03	10487 61#	10487 61#	
x							1910		M01B	14	2435, 3520 853	2435, 3520 853	
x							1915		M01B	14			
		x					1920	2/4	M14	01A	4761 748	4761 748	
				x			1930	2/4	G06	01A	4792 436	4792 436	
					x	x	1930		E11	03	x11107 36#, **search**	x11107 36#	
			x				1932		M01B	14	2470, 3545 910	2470, 3545 910	
	x			x			1940/1950/2000	1	F01	01A	8172/ 6791/ 4546	7684/ 5326/ 4029	
			x				1940		M01B	14			

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
		x		x			1950/2010/2030		M12	01B			
	x		x				2000		M01	14	4490 197	4490 197	
x	x	x	x	x	x	x	2000		M08A/ V02A	18	7554	7554	
	x					x	2000/2010/2010 2030/2040/2050		XPB1	01B	6776/ 5876/ 5376 5176/ 4876/ 4576	5458/ 5358/ 5158 4958/ 4558/ 4458	
					x		2000/2020/2040		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463	
		x					2000/2020/2040		E07A	01A			
x		x					2000/2020/2040		E07	01B	7616/ 6816/ 5216 682	6823/ 5823/ 5123 881	
	x					x	2000/2020/2040		XPA2	01B			XPA2m
				x			2000/2100	1/3	S06	01A		7309/ 5091 627	
				x			2002		M01B	14	2655, 3195 866	2655, 3195 866	
				x			2010		M01B	14			
x							2015		M01B	14	2427, 3205 375	2427, 3205 375	
			x				2030	1/3	E06	01A	4836 321	4836 321	
			x				2040		M01B	14	2485, 3160 382	2485, 3160 382	
		x		x			2050/2110/2130		M12	01B	7536/ 6836/ 5136 581	6908/ 5808/ 4508 985	
x		x		x		x	2055		HM01	18	11635	11635	
	x		x		x		2055		HM01	18	16180	16180	
		x					2100/2120/2140		E07A	01A	5877/ 5277/ 4577 825	5877/ 5277/ 4577 825	
				x	x		2100/2120/2140		M12	01B			
	x					x	2100/2120/2140		XPA2	01B			XPA2m new sked
				x			2110		M01B	14	2405, 3180 610	2405, 3180 610	
x			x				2110/2130/2150		M12	01B			
				x			2130	1/3	E06	01A	4760 472	4760 472	
x		x		x		x	2155		HM01	18	10715	10715	
	x		x		x		2155		HM01	18	17480	17480	
				x	x		2200/2220/2240		M12	01B	6859/ 7459/ 9959 849	5832/ 6832/ 7732 887	
x			x				2210/2230/2250		M12	01B	6937/ 5737/ 4537 975	6937/ 5737/ 4537 975	
		x			x		2210/2230/2250		M12	01B			
					x		2230		F01	01C	20741	18169	
					x		2240		F01	01C	18702	15765	
x		x		x		x	2255		HM01	18	8010, 8136	8010, 8136	
	x		x		x		2255		HM01	18	8136	8136	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
						x	2300		M14	01A	5240 376	5240 376	
	x		x		x		2300		M08A	18	8135	8135	
					x		2330		F01	01C	20741	18169	
					x		2340		F01	01C	18702	15765	

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC M01/1 197

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

MAR APRIL SEPT OCT M01/2 463

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

MAY JUNE JULY AUG M01/3 025

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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
		x	x				0315		E11	03	7850 25#	7850 25#	5779 25#	5779 25#	since 01/14, last log 08/19
				x		x	0435		E11	03	5779 35#	5779 35#	search	search	since 04/15, last log 10/19
x							0450		E11	03	5371 41#	5371 41#	4909 41#	4909 41#	since 02/10, last log 10/19 2nd transmission Thu 1730z
x				x			0600		E11	03	**13873** 18#	13873 18#	9200 18#, **check**	9200 18#	since 07/15, last log 10/19
x		x					0640		E11	03	12153 94#	12153 94#	11450 94#	11450 94#	since 07/17, last log 10/19
	x		x				0645		E11	03	13424 51#	10800 51#	7840 51#	7840 51#	since 07/09, last log 10/19
	x			x			0700		E11	03	8180 57#	8180 57#	**6804** 57#	6804 57#	since 01/12, last log 10/19
					x	x	0710		E11	03	8102 49#	8102 49#	4505 49#	4505 49#	since 07/15, last log 10/19
	x			x			0715		E11	03	9963 63#	9963 63#	9130 63#	9130 63#	since 02/11, last log 10/19
x							0745		E11	03	10213 26#	10213 26#	10213 26#	10213 26#	since 03/14, last log 10/19 2nd transmission Thu 1530z
		x		x			0745		E11	03	17410 34#	17410 34#	17378 34#	17378 34#	since 06/17, last log 10/19
					x	x	0805		E11	03	5371 31#	5371 31#	4909 31#	4909 31#	since 07/14, last log 10/19
			x	**x**			0820		E11	03	5941 43#	5941 43#	5149 43#	5149 43#	since 10/09, last log 10/19
	x	x					0820		E11	03	19184 13#	19184 13#	14611 13#	14611 13#	since 12/18, last log 10/19
	x		x				0845		E11	03	12202 15#	12202 15#	11104 15#, **check**	11104 15#	since 07/17, last log 10/19
x		x					0900		E11	03	8180 53#	8180 53#	8597 53#, **check**	8597 53#	since 10/05, last log 10/19
x				x			0915		S11A	03	4505 48#	4505 48#	48#, **search**	48#	since 04/19, last log 10/19
		x	x				0930		E11	03	6940 27#	6940 27#	8180 27#, **check**	8180 27#	since 02/14, last log 10/19
	x			x			1000		E11	03	**7317** 30#	7317 30#	8800 30#, **check**	8800 30#	since 11/16, last log 10/19
x			x				1015		S11A	03	11493 47#	11493 47#	11559 47#	11559 47#	since 04/10, last log 09/19 **d e l e t e d ?**
	x			x			1020		S11A	03	7469 42#	7469 42#	**7600** 42#	7600 42#	since 02/10, last log 10/19
x		x					1045		E11	03	7317 69#	7317 69#	7984 69#	7984 69#	since 03/18, last log 10/19
		x		x			1100		S11A	03	6433 37#	6433 37#	x5815 37#, **check**	x5815 37#	since 02/14, last log 10/19
	x	x					1205		E11	03	6923 46#	6923 46#	6433 46#	6433 46#	since 03/10, last log 10/19 2nd transmission Mon 0450z
			x		x		1300		E11	03	13873 58#	13873 58#	11116 58#	11116 58#	since 02/16, last log 08/19 **d e l e t e d ?**
	x				x		1345		E11	03	**14972** 91#	14972 91#	14666 91#, **check**	14666 91#	since 10/15, last log 10/19
x				x			1530		E11	03	5737 52#	5737 52#	52#, **search**	52#	since 05/15, last log 10/19 until 04/19 at 1225z
			x				1530		E11	03	10330 26#	10330 26#	5409 26#	5409 26#	since 06/14, last log 10/19 2nd transmission Mon 0745z
	x					x	1605		E11	03	**5082** 23#	5082 23#	4505 23#, **check**	4505 23#	since 11/15, last log 10/19
		x				x	1625		E11	03	**6923** 97#	6923 97#	6923 97#	6923 97#	since 02/15, last log 10/19
	x		x				1645		E11	03	10800 33#	10800 33#	11493 33#	11493 33#	since 06/17, last log 10/19
				x		x	1650		E11	03	**11116** 92#	11116 92#	16335 92#, **check**	16335 92#	since 05/16, last log 10/19
		x			x		1705		E11	03	4181 39#	4181 39#	x9443 39#, **check**	x9443 39#	since 02/14, last log 10/19 until 02/19 at 1955z
		x			x		1730		E11	03	5844 40#	5844 40#	8545 40#	8545 40#	since 06/16, last log 08/19 **d e l e t e d ?**
			x				1730		E11	03	7864 41#	7864 41#	5779 41#	5779 41#	since 03/10, last log 10/19 2nd transmission Mon 0450z
x						x	1745		E11	03	13470 24#	13470 24#	12924 24#	12924 24#	since 04/18, last log 09/19 **d e l e t e d ?**
		x			x		1850		S11A	03	10213 28#	10213 28#	11486 28#	11486 28#	since 06/17, last log 10/19
x			x				1900		E11	03	7317 64#	7317 64#	6849 64#	6849 64#	since 05/16, last log 10/19
				x		x	1910		E11	03	8530 61#	8530 61#	10487 61#	10487 61#	since 04/17, last log 10/19
					x	x	1930		E11	03	4505 36#	4505 36#	x11107 36#, **search**	x11107 36#	since 03/14, last log 10/19 2nd transmission Thu 1530z

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
x							0800	1/3	G06	01A	6810 329	6810 329	5320 329	5320 329	since 07/10, last log 10/19 repeat at Thu 1300Z
		x					1200/1300	1/2	G06	01A	5234, 5412 145	5234, 5412 145	4897/ 4034 145	4897/ 4034 145	since 10/14, last log 10/19 yearly changing frequencies + id
			x				1300	1/3	G06	01A	4598 329	4598 329	4460 329	4460 329	since 09/11, last log 08/19 repeat from Mon 0800Z
x							1700/1800	1/2	G06	01A	4792, 48772 145	4792, 48772 145	3619/ 4528 145	3619/ 4528 145	since 04/10, last log 10/19 yearly changing frequencies + id
			x				1830	2/4	G06	01A	5934 579	5934 579	4519 271	4519 271	since 05/01, last log 10/19 repeat at Fri 1930Z
				x			1930	2/4	G06	01A	5442 947	5442 947	4792 436	4792 436	since 04/01, last log 10/19 repeat from Thu 1830Z

SPECIAL MATTERS

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Ary, BR, DanAr, Dannix, , E, HH, HJH, JkC, Jochen, KW, Malc, MaleAnon, , PoSW, PLdn, RNGB, SloRoll, tING,
Apologies to anyone missed.

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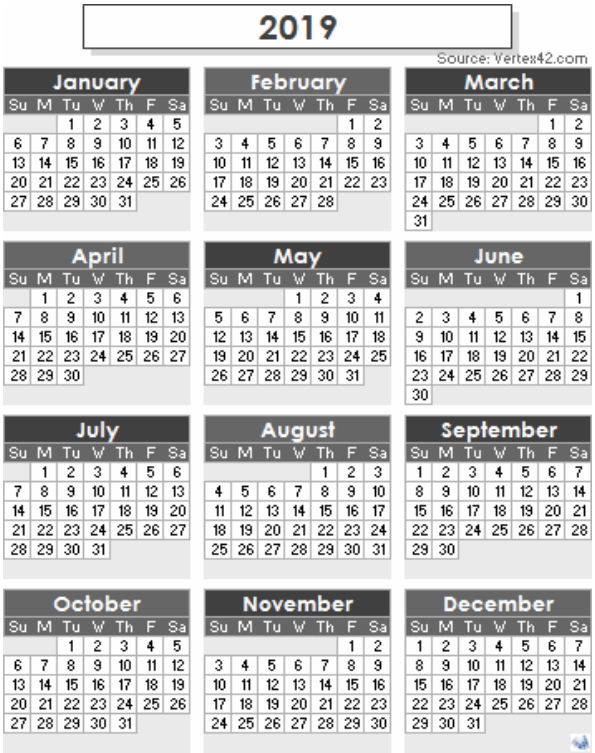
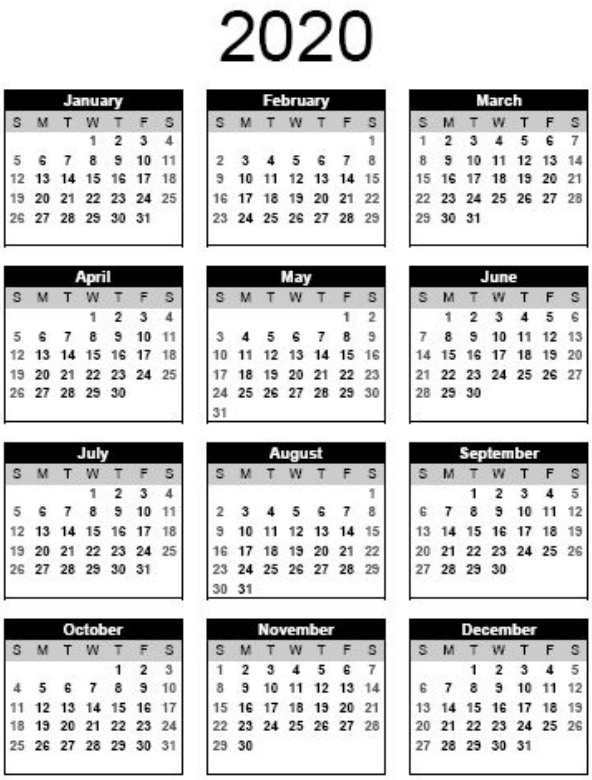
RELEVANT WEBSITES

ENIGMA 2000 Website:	http://www.enigma2000.org.uk
Mystery Signals	http://www.mysterysignals.signalshed.com/
Frequency Details can be downloaded from:	http://www.cvni.net/radio/
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





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