

ENIGMA 2000 NEWSLETTER



<http://enigma2000group.org>



Remember E10?
Our RDF exercise on this always cut through
Tel Aviv, where Kiryah is situated

These pics courtesy of 'XY.' [Thanks] RDF via DoK and PLdn

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See last page also.

Editorial

Apart from the propagational and noise problems there are other changes being experienced whilst monitoring Number Stations; changes in idents, frequencies and with the polytones apparent station closure. I have searched for the XPA2 Sunday/Tuesday schedule 'm' as well as Friday/Saturday schedule 'r' and both with little success. A break in Scarborough, with no radio, meant I was unable to monitor the XPA1 Tuesday/Thursday 'c' schedule but I did get to see CSOS Scarborough in all its glory. Radio signals seem to be perking up for now but in the UK the noise due to ADSL/Broadband distribution and these damnable poorly made PSU's that have pervaded society continue to cause us problems. I have noticed it in the countryside at Bletchley too, which I had thought might be somewhat quieter being away from the general humdrum of city life; sadly it isn't really so.

Many thanks to the reader who sent the front page pics in; we've featured like before but these really are a reminder of E10 in its past form before its migration to BGAN and SATPhone use.

A couple more pics for your pleasure:



Again, thanks to 'XY.'

Propagation, again!

The poor conditions have prevailed however two unexpected lifts suggest we may be in for a treat HF wise. 10M was well open around 1900z / 2000z on the 13th and 14th August enabling me to raise my spirits somewhat as I perused the forthcoming extraction of a diseased molar. I was as glad to see the back of it as I was glad to see the lift on both days. Even 18 and 24MHz seemed busy and I had briefly looked at 21MHz on Saturday during my regular stint at Bletchley Park to see traces of USB sigs there on the waterfall of the unit being used.

Shout from the past?

In Group Message 59329 Barry Williams [SloRoll] writes, "6925kHz USB. Pirate station started up by playing Lincolnshire Poacher & 5 fig group. Classic Pirate Radio Relay Service with old number station clips aired. A station ID was given out, and frequency changes along with mode changes occurred during the broadcast. It was a bit of fun to listen to. 0115 utc, 12 Aug. I thought the group would be interested in hearing about this station.

Thanks Barry, brilliant post, a good trip down memory lane and perhaps enhanced by Jochen's mention of the German language stations.

Here's another brilliant offering from our Man in Belfast; a true shout from the past it really is worth a look for those of us 'of a certain age.'

Radio Free Derry remembered 50 years on

By Áine O'Donnell BBC News NI

<https://www.bbc.co.uk/news/uk-northern-ireland-foyle-west-49369573>

18 August 2019

"This is the first free radio Derry has ever known."

These were the first words broadcast via a clandestine transmitter smuggled across the border into Londonderry in 1969 from the Irish Republic. This was a time of protest, with campaigners clamouring for change in Northern Ireland.

Civil rights campaigner Eamonn McCann set up the transmitter that would broadcast Radio Free Derry.

"We weren't expecting the transmitter to arrive and we knew very little about radio transmitters," Mr McCann said.

"We didn't have a plan. Like most things in those days, it was done on the spot.

"Our first aerial was a strip of tinfoil stuck to the roof and we played records off an old gramophone.

Then aged 25, Mr McCann had the reputation of a fiery speaker at the forefront of the civil rights movement in Northern Ireland. Now he was broadcasting to Derry's Bogside and beyond. 'Daring, fun, unexpected'

The makeshift station's schedule was comprised of music, interviews, updates and political commentary.

It predated the Battle of the Bogside, three days of serious rioting in Derry widely regarded as being among the key moments in the infancy of Northern Ireland's Troubles.

"Radio Free Derry is one of the things I remember most fondly about that time," Mr McCann said.

"In the midst of the mayhem, we were having fun sitting in a flat communicating with the whole of the Bogside trying to be DJs.

"Radio Free Derry was daring, fun and unexpected. It was a light-hearted operation."

But that would soon change.

The Battle of the Bogside in August 1969 came following rising tensions between the nationalist residents of the Bogside in Derry and the RUC (Royal Ulster Constabulary) over an Apprentice Boys parade.

It brought British troops on to the streets of Northern Ireland for the first time.

Mr McCann said: "Within a couple of weeks the seriousness of the situation began to impinge on everybody, it wasn't possible to think of anything in a light-hearted way again."

When violence started to break out on 12 August, 1969 at William Street in Derry, fellow political campaigner Eamon Melaugh rushed home to get the Radio Free Derry transmitter.

"I brought the transmitter to the Rossville Street flats. I threw the cable out the window and started broadcasting," Mr Melaugh explained.

During the Battle of the Bogside, Mr Melaugh was the voice behind the microphone.

"It was a source of information for people. No-one had phones in those days so they found out what was happening through Radio Free Derry," he said.

"I talked for hours on it, non-stop for almost three days. My voice was hoarse by the end of it.

'Primitive equipment'

Mr Melaugh said the radio equipment was uncovered by soldiers during house searches in the Bogside in the years after 1969.

"I had stashed the transmitter in a house under a bed. The family told me a soldier found it and shouted, 'I've got Radio Free Derry'.

"They had to leave each house after two and a half minutes so they left it behind. That could have been the end of Radio Free Derry.

"The equipment was so primitive that if you had as much as coughed on it, it would have fallen apart."

Eamonn McCann said people still speak fondly of the pirate station.

"People always smile when they talk about, there's a tinge of nostalgia when I talk about it. It was unproblematic, it hurt nobody.

"There are plenty of things from that period that we would all like to forget.

"Radio Free Derry is one of the few things that people are pleased to remember today."

<https://www.bbc.co.uk/news/uk-northern-ireland-foyle-west-49369573>

From our Man in Belfast - thanks

From 'The Spectre 3000:

Clearance Jobs 10/04/2019

Spies on the Radio: Numbers Stations Are Still On the Air

Even in the internet era where members of ISIS and other terrorist groups have been found to use Sony's PlayStation 4 as a communication tool, one relic of the Cold War is still very much active. It is the "numbers station," a shortwave radio station that broadcasts seemingly random number sequences – only the numbers reveal a code that spies use to receive messages from their governments.

The numbers were used with a "one-time pad" encryption, and thus nearly impossible to crack without a code book. Unlike other forms of encryption, the numbers were broadcast in the clear on the shortwave band, which is well above the normal AM/MW frequencies.

While number stations are largely associated with the Cold War, this form of communication actually dates back more than 100 years when the first messages may have been sent to Archduke Anton of Austria during the First World War. The stations saw use during the Second World War and then really picked up during the Cold War. The reason was that short wave signals – unlike AM or FM radio – can be sent vast distances.

NUMBERS STATIONS AND WWII

During World War II numbers stations were also used alongside regular radio stations, notably by the BBC, as way of sending information to agents in occupied Europe. However, messages sent in code on the BBC had disadvantages over messages sent by number stations.

"The types of messages known to have been communicated by the BBC were often simple code phrases which corresponded to pre-agreed instructions or messages," explained Lewis Bush, author of the Cold War study *Shadows of the State*.

"That obviously limits what instructions can be sent without contacting agents by other means to provide them with new code phrases and corresponding instructions," Bush told ClearanceJobs. "By comparison messages in cipher like those sent by numbers stations can consist of any sort of message, and so in a way it is much more flexible."

COLD WAR TECH IN THE 21ST CENTURY

Over the past century number stations really haven't "evolved" much, if at all. The format has remained fairly similar with transmissions of numbers beginning on the hour or half-hour. Many stations offer a brief identifier in the form of radio-alphabet "code names" – such as Alpha Bravo Oscar – following by a characteristic phrase, usually 'attention' or something similar in the relevant language.

The numbers are typically spoken in the clear by a monotone male or female with almost no emotion in the voice. Following the message, stations sign off with an “end of message.” During the Cold War, those messages believed to have originated from the Soviet Union tended to end with a string of zeros. Not all the number stations were actually transmitting to agents during the Cold War, however. Some were in essence decoy stations.

“There is evidence that some numbers stations did not communicate legitimate messages but may instead have broadcast meaningless text,” said Bush. “The reasons for this are less clear, some might have been for training purposes, but it would also make sense that doing this would be an effective way to encourage your opponent to waste resources monitoring your communications and perhaps even encourage them to spend time hunting for non-existent spies.”

The strangest part of the history is that most government agencies that would use them – think the CIA, MI-6, FSB (formerly the KGB) or others – will deny numbers station exist or ever existed. During the Cold War plenty of short wave radio hobbyists would beg to differ – and the really fascinating thing is that the stations are on the air today!

The good news is that for those who want to tune-in, a short wave radio isn’t even required. Here is where the technology has gone high tech. The University of Twente in the Netherlands maintains a web-based software radio.

Priom.org, an international group that monitors shortwave intelligence and military communications, even publishes a list of active shortwave stations and maintains a listing of known schedules of broadcasts. The group has cataloged interesting activity.

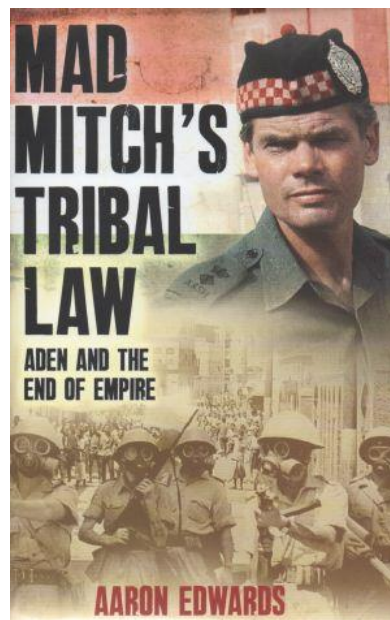
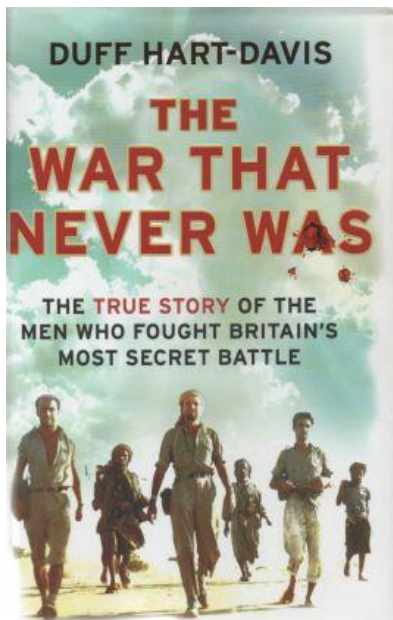
Given that shortwave can be monitored online, and the fact that number stations could be considered a Cold War relic, the question can be asked: Why are numbers stations still used? The best answer is that number stations were reliable and with an unbroken code book. That has advantages over communication through the internet.

“Anything new is also by definition untested and therefore potentially risky, and internet communications are well known to be quite traceable, although it is also used for covert communications,” said Bush.

“By contrast something which has been around for a long time and only really requires equipment as unsuspicious and affordable as a radio is a very safe option,” he added. “The risks are clear and well known, and there is less likelihood of unexpected surprises.”

Thanks Spectre

Recommended Reading



Two books that both have stirring accounts of what was an ongoing ‘small war’ for Great Britain and in the name of Empire in a colony that was deemed a dodgy posting for the military and a decent one for Crown Agents and civilians alike.

There are five E2k members who will read this and who have been unwilling partners in this event jacked up by Egypt’s Colonel Gamal Nasser, the fated FLOSY [the Front for the Liberation of South Yemen] and the NLF [National Liberation Front].

Both protagonists fought the might of the British Military [many whose final resting place is the well-kept military cemetery ‘Silent Valley] and then on our withdrawal in November 1967, to the strains of ‘Fings ain’t wot they used to be’ played at RAF Khormaksar as our last Governor there climbed the steps to his aircraft, along with pistol bearing bodyguard as ‘independence’ was granted NLF started on FLOSY and wiped them out in days.

Aden became the Republic of the South Yemen and with gusto hosted the Russian Military who they found to be a totally different fish to their ‘Imperial’ masters whom they [the protagonists] wished to free themselves from being their ‘lackey’s’. They found out the British were courteous to them and always requested with a please [unless bugged about then it was a rifle butt or ammunition boot] but always a hard demand with the occupying Russian forces.

They soon wanted us back, something yours truly has been asked of when visiting certain ex-colonies, but of course they fried their own fish thoroughly.

The War That Never Was Starts in September 1962 as a *coup d’état* strikes in North Yemen. Never a fan of the Brits it was the flashpoint necessary to bolster some support both ways and by March 1963 plans were underfoot to train and lead Yemeni tribesmen into battle against Nasser’s Egyptian soldiers. Bloody fighting and good leadership removed in excess of 20,000 troops permanently and led by what can only be described as ‘Mercenaries’ but who were ex-SAS men who believed in what they were doing and prosecuted a legal action against Nasser’s lot who also used chemical warfare against those who opposed their Yemen campaign. It’s a damn good read and there’s radio content too. I say hello to those who may remain, or not remain, in the call book.

Mad Mitch’s Tribal War The end of Empire? It was going that way as Aden was handed over but two events caused the UK Government of the time to send the Argyll and Sutherland Highlanders, led by Lt Col Colin Mitchell into Crater [the capital of Aden at the time, now Krater] to seize back what was ours.

The first was a hand grenade thrown into Shenaz open air cinema; situated on the RH side of the Crater by-pass as you drove away from the Qat market off the Ma'alla Strait it was dominated by the mountain Jebel Shamsam. In fact it dominated everywhere and provided cover for insurgents and British forces alike. That was followed by a failed attack on the local radio station where the insurgent 'got his own back' and then came the atrocity of the wholesale slaughter of a patrol of Royal Northumberland Fusiliers bar one, who took refuge in a flat near to the attack and then to the roof of that block where he fired the entire magazine of his SMG off at some insurgents in for the kill.....the 9mm experience.

Then comes Mad Mitch, his troops and the eerie sound of the pipes as they drive into Crater, make the roof of the Standard Bank as their HQ and set about letting the insurgents know who is boss. Those who carried out the attack were lightly armed members of the Aden Police, a colonial force, who later suffered for their actions.

The account is an excellent one of a soldier who would have fared better had he been involved in Victoria's push for Empire rather than a politico-colonial skirmish where the only winners are the politicians and those who take the risks, with paltry support from their political masters, suffer the excrement from on high as they are discarded into another life. It's a good read indeed.

The outcome of us leaving Aden can be seen on the news; rebels being fought by Saudi airforce and possibly ground troops and little care for the Yemeni life at large. Sad indeed. More sad is that I can never return to the place where I had five years of utter happiness.

Here's something you don't often trip over seen in a property I was inspecting on behalf of someone else



The Battalion delivers competent MI Operators who are highly capable analysts and confident leaders and soldiers. As analysts the training emphasis is on building strong, core Operational Intelligence (OPINT) skills, overlaid by an understanding of actual and emerging threats and theatres of operation.

Analysts need to be able to draw information from a wide range of sources, classified or open. They must be able to understand complex situations and then communicate their conclusions to decision makers often under the pressures of time and the operational situation.

The Battalion is extremely operationally focussed, with a very large number of its officers and soldiers having completed operational deployments. In the past, the Unit has deployed personnel to Kuwait, the Balkans, Sierra Leone, Iraq, most recently to Afghanistan and in support of operations in Libya.

They also support deployed personnel working within the London area. When deployed they are completely integrated with and work alongside their Regular Army Intelligence Corps counterparts.

<https://www.army.mod.uk/who-we-are/corps-regiments-and-units/intelligence-corps/3-military-intelligence/>

Morse Stations

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

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

Morse - Number Stations

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

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 numerous times in July/August)
Variant Format 4:	197 (R4m) 589 589 = 30 30 == 40728 58918 == 589 589 = 30 30 000	(Used numerous times in July/August)

July 2019:

4905	2000z	02 Jul	'025' 227 30 == 85027 ... 04446 ==	Strong, fast. Several errors. Jumbled fig. string at grp23	BR	TUE
	2000z	04 Jul	'025' 305 30 == == 31585 ... 83091 == ==	Strong, slow. Several errors noted. Format 3	BR	THU
	2000z	09 Jul	'025' 219 30 == 37243 ... 30352 ==	Strong, slow. Several errors. Two grps sent once only	BR	TUE
	2001z	11 Jul	'025' 717 30 == 23739 ... 33808 ==	Strong, V. fast. Slightly late start with series of 'dits'	BR	THU
	2000z	16 Jul	'025' 218 = 30 == 83748 ... 54362 ==	Strong, very slow. No errors. Format 4	BR	TUE
	2001z	18 Jul	'025' 237 30 == == 74618 ... 58025 == ==	Strong, med-fast. Errors grp08-09	BR	THU
	2001z	23 Jul	'025' 421 30 == 60734 ... 99731 ==	Strong, med-fast. Slightly late start. No noted errors	BR	TUE
	2000z	25 Jul	'025' 635 30 == 13384 ... 24955 ==	Fair / Good, fast. Error in grp30 repeat.	BR	THU
	2000z	30 Jul	'025' 219 30 == 66072 ... 12470 ==	Strong, fast. Good Morse. No errors	BR	TUE
5280	1800z	02 Jul	'025' 221 30 == 05402 ... 00924 ==	Good, fast. Errors in grps24 - 26	BR	TUE
	1800z	04 Jul	'025' 127 30 == == 29671 ... 16930 == ==	Good, slow. Several errors. Ends 000000	BR	THU
	1800z	09 Jul	'025' 101 30 == 95246 ... 91415 ==	Fair, slow. Several errors noted. Start DK sent as 01 01	BR	TUE
	1800z	11 Jul	'025' 934 30 == 20161 ... 38188 ==	Weak, fast. Difficult copy due to weak sigs & QSB	BR	THU
	1800z	16 Jul	'025' 727 = 30 == 43477 ... 44071 ==	Fair, very slow. No errors. Format 4	BR	TUE
	1800z	18 Jul	'025' 217 30 == == 97560 ... 97867 == ==	Good, fast. Error in grp09 repeat. Format 3	BR/ER	THU
	1800z	23 Jul	'025' 412 30 == 43819 ... 67307 ==	Weak / Fair, med-fast. No errors noted	BR	TUE
	1800z	25 Jul	'025' 297 30 == 40049 ==	Weak, fair, fast. Poor copy, faded out towards end of msg	BR	THU
	1800z	30 Jul	'025' 221 30 == 11612 ... 42778 ==	Fair, fast. Some QSB. Good Morse. No errors	BR/ER	TUE
6435	1500z	06 Jul	'025' 317 30 == 26415 ... 84070 ==	Good, fast. Several errors noted with extra fig. added to grp	BR	SAT
	1500z	14 Jul	'025' Weak signals with high noise - No useful copy		BR	SAT
	1500z	21 Jul	'025' 223 30 == 82 .69 ... 08003 ==	Weak/Fair, med-fast. Long zero for one GC.	BR	SAT
	1505z	27 Jul	'025' 311 30 == 06984 ... 58651 ==	Fair, fast. Late start with short call-up. Errors noted	BR	SAT
6780	0700z	07 Jul	'025' 329 30 == 01799 ... 173 134 ==	Badly keyed. Last grp sent as two grps of three digits	E.SMITH/HFD	SUN
	0659z	14 Jul	'025' 131 30 == == 87345 ... 62533 == ==	Test tone / VVV sent 10 mins before TX	Format 3 E.SMITH	SUN
	0659z	21 Jul	'025' 731 30 == 56200 30069 ... 01483 88339 ==	QRM3 XJT (Via SDR Enschede)	E.SMITH	SUN
	0659z	28 Jul	'025' 367 = 30 == 18648 ... 85921 ==	VVV test keying sent 12 minutes before msg. Format 4	E.SMITH	SUN

August 2019:

4905	2000z	01 Aug	'025' 179 = 30 == 03393 ==	Good, slow. Missed start of msg. No errors. Format 4	BR	THU
	2002z	08 Aug	'025' 511 30 19457 ... 56816 ==	Late start. Nothing after call-up to 2005z, 'dits' then msg	BR	THU
	2000z	13 Aug	'025' 319 = 30 == 75467 ... 47243 ==	Strong, slow. No errors. Format 4	BR	TUE
	2000z	15 Aug	'025' 395 30 == == 19647 ... 65377 == ==	Strong, fast. No errors. Format 3	BR	THU
	2000z	20 Aug	'025' 900 30 == 25729 ... 95128 ==	Strong, fast. Three errors noted - grps04, 09 & 19	BR	TUE
	2000z	22 Aug	'025' 549 30 == == 79149 ... 83648 == ==	Strong, fast. Starting DK sent as 549 59	Format 3 BR	THU
	2000z	27 Aug	'025' 904 30 == 70859 ... 92024 ==	Good, fast. Good, steady Morse. No errors	BR	TUE
5280	1800z	06 Aug	'025' 456 30 == 36808 ... 76756 ==	Fair, fast. Long zeros for start GC. Error grp10 repeat	BR	TUE
	1800z	08 Aug	'025' 523 30 == 33951 ==	Weak/Fair, fast. Difficult copy. Faded towards end of msg	BR	THU
	1800z	13 Aug	'025' 084 = 30 == 08974 ... 27141 ==	Fair, slow. No errors. Format 4	BR	TUE
	1800z	15 Aug	'025' 693 30 == 36899 ... 54051 ==	Weak/Fair, fast. Error grp29 32409 324449	BR	THU
	1800z	20 Aug	'025' 602 30 == 60563 ... 68564 ==	Weak, fair, fast. Two errors noted - grps03 & 05	BR	TUE
	1800z	22 Aug	'025' 839 30 == == 29760 == ==	Weak/Fair, fast. Missed 1 st 2 grps	Format 3 BR	THU
	1800z	27 Aug	'025' 231 30 == 16833 ... 34347 ==	Weak/Fair, fast. Good, steady Morse. No errors	BR	TUE
6435	1500z	03 Aug	'025' 211 30 ==	Late monitoring. Only caught end DK GC	BR	SAT
	1500z	10 Aug	'025' 765 30 == 98543 ... 93459 ==	Fair, fast. Two errors noted - shortened repeat grps.	BR	SAT
	1500z	17 Aug	'025' 351 = 30 == 46615 ... 52512 ==	Fair, slow. No errors. Format 4	BR	SAT
	1500z	24 Aug	'025' 707 30 == 31244 ... 97741 ==	Fair/Good, fast. Error grp10 & ending DK sent as 7070 707	BR	SAT
	1500z	31 Aug	'025' 855 30 == 90386 ... 17408 ==	Weak/Fair, fast. Several errors incl. jumbled string	BR	SAT
6780	0659z	04 Aug	'025' 271 30 == 65172 13817 ... 68099 06673 ==	Test dots 3 mins. Before TX. XJT QRM	E.SMITH	SUN
	0659z	11 Aug	'025' 895 30 == 78321 ... 64290 ==	Fair. Speed alternated fast/med several times during msg.	BR	SUN
	0700z	18 Aug	'025' 181 30 == 71927 ... 69144 ==	VVV Calling/Test at 0654z. XJT QRM	E.SMITH	SUN
	0700z	25 Aug	'025' 123 30 == 93965 74654 ... 89560 28298 ==	Test Tone / VVV prior to transmission	E.SMITH	SUN

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

4489	0619z	20 Aug	111 08788 333 111 08788 20410 75353 84882 65872 111 08788 111 52572 111 000	F5JBR	TUE
10228	0547z	21 Aug	712 (x3) 10115 (x3) 712 (x3) 10217 (x3) (This is possibly a new freq on the Wed/Thu morning schedule - Edd Smith)	F5JBR	WED

M01b**July 2019:**

5065//5805	1942z	04 Jul	'936' 535 31= 83022 02388....	Strong//Strong	BR	THU
5075//5465	1902z	05 Jul	'336' 535 31= 83022 02388....	Good//Good	BR	FRI
5095//5760	1832z	04 Jul	'815' 535 31= 83022 02388....	Strong//Good under STANAG	BR/ER	THU
	1832z	11 Jul	'815' 535 31= 83022 02388....	Good//Fair under STANAG	BR	THU
5095	1832z	18 Jul	'815' 535 31=	(SDR Utwente)	ER	MON
5125//5735	1810 - 1826z	01 Jul	'364' 535 31 = 83022 ... 90714 000	Fair//Good	BR	MON
	1810z	08 Jul	'364' 535 31 = 83022 02388....	Good//Good	BR	MON
	1810z	15 Jul	'364' 535 31 = 83022 02388....	Good//Good	BR/ER	MON
	1810z	27 Jul	'364' 535 31 = 83022 02388....	Fair//Good	BR/ER	MON
5125	1810z	29 Jul	'364' 535 31 =	(SDR Utwente)	ER	MON
5150//5475	1915z	01 Jul	'858' 535 31 = 83022 02388....	Good//Good	BR	MON
	1915z	08 Jul	'858' 535 31 = 83022 02388....	Good//Good	BR/ER	MON
	1915z	15 Jul	'858' 535 31 = 83022 02388....	Strong//Strong	BR	MON

August 2019:

5065//5805	1940z	08 Aug	'936' 717 31 = 85610 84072....	Strong//Very Strong	BR	THU
5075	1902z	02 Aug	'336' 717 31 =	(SDR Utwente)	ER	FRI
5075//5465	1902z	15 Aug	'336' 717 31 = 85610 84072	Strong//Strong	BR	FRI
5075	1902z	23 Aug	'336' 717 31 =	(SDR Utwente)	ER	FRI
5095//5760	1832 - 1848z	01 Aug	'815' 717 31 = 85610 84072....	Strong// Good under STANAG	BR	THU
	1832z	08 Aug	'815' 717 31 = 85610 84072....	Strong// Good under STANAG	BR	THU
5125	1810z	05 Aug	'364' 717 31 =	(SDR Utwente)	ER	MON
	1810z	26 Aug	'364' 717 31 =	(SDR Utwente)	ER	MON
5150	1915z	05 Aug	'858' 717 31=	(SDR Utwente)	ER	MON
	1913z	26 Aug	'858' 717 31 =	S9+ Signal (SDR Utwente)	ER	MON

M01b 5125//5735kHz 1810 - 1826z 01 July 2019	M01b 5075kHz 1902z 02 Aug 2019
364 (R4m) 535 535 31 31 ==	336 (R4m) 717 717 31 31 ==
83022 02388 04791 86693 81255 82707 96066 69246 45133 63493 94512 83604 30183 15021 55884 87594 38278 97049 84775 97422 76133 05884 07254 33285 48115 12003 22242 27323 75686 80975 90714 ==	85610 84072 83326 09272 81278 25173 49612 86691 93563 87509 94157 59599 69644 94753 39989 62550 08125 31504 88086 58570 41052 50788 58932 82438 29031 30984 77519 70593 87914 78448 07398 ==
535 535 31 31 000	717 717 31 31 000
Courtesy BR	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 Schedules

10807/10207/9207	0700/20/40z 0700/20/40z	09 Jul 11 Jul	822 1 822 1 (9947 98)	94724 55535 ... 82919 55808	(via SDR Japan) (Via SDR Japan)	HFD AB	TUE THU
15881/14781/13481	0210/30/50z	15 Jul	874 1			HFD	MON
11148/10648/9148 11148	0700/20/40z 0700z	01 Aug 15 Aug	161 1 161 1 (348 100)	02113....etc.	(Via SDR Hong Kong)	HFD RNGB	THU THU

European M12 Logs

July 2019:

New scheds in bold type

8047/6802/5788	1800/20/40z	01 Jul	463 1 (2526 99)	34039 40201....		BR	MON
	1800/20/40z	08 Jul	463 1 (4777 95)	24310 24488....		BR/ER	MON
	2000/20/40z	13 Jul	463 1 (2306 94)	14114 82877....		BR	SAT
	1800/20/40z	15 Jul	463 1 (4676 95)	85736 68308....		BR/ER	MON
	2000/20/40z	20 Jul	463 1 (3513 100)	76139 20877 ... 82261 24898 000 000		Gert/HFD	SAT
	1800/20/40z	22 Jul	463 1 (4250 94)	88006 65354....		BR	MON
	2000/20/40z	27 Jul	463 1 (6912 95)	63875 55458....		BR	SAT
	1800/20/40z	29 Jul	463 1 (8142 98)	46566 12840....		BR/	MON
9284/8084/7584	2210/30/50z	13 Jul	295 1 (608 98)	19637 20194....		BR	SAT
	2210/30/50z	20 Jul	295 1 (630 76)	39654 58631....		BR	SAT
	2210/30/50z	24 Jul	295 1 (9675 98)	67769 97483....		BR	WED
	2210/30/50z	27 Jul	295 1			HFD	SAT
	2210/30/50z	31 Jul	295 000			BR	WED
9317/10484/11552	0530/0550/0610z	16 Jul	135 1 (9653 110)	58159 43909 ... 66395 95130	(SDR Enschede)	E.SMITH/HFD	TUE
	0530/0550/0610z	24 Jul	135 1 (6138 109)	07958 05013 ... 29646 69256	(SDR Enschede)	E.SMITH	TUE
	0530/0550/0610z	30 Jul	135 1 (379 49)	52294 56546 ... 18489 74868	(SDR Enschede)	E.SMITH	TUE
10343/9264/8116	2000/20/40z	01 Jul	124 1 (8031 105)	27059 28277....		BR	MON
	2000/20/40	08 Jul	124 1 (8776 109)	33574 79496....		BR	MON
	2000/30/40z	22 Jul	Missing - Sched ceased			BR	MON
10767/10167/---	2100/20/40z	05 Jul	712 1			HFD	FRI
	2100/20/40z	12 Jul	712 000			BR	FRI
	2100/20/40z	13 Jul	712 000			BR	SAT
	2100/20/40z	19 Jul	712 000			BR	FRI
	2100/20/40z	20 Jul	712 000			BR	SAT
	2100/20/40z	27 Jul	712 000			BR	SAT
11435/10598/9327	1800/20/40z	02 Jul	938 1 (4950 110)	93899 63388 ... 06564 21627 000 000		Gert	TUE
	1710/30/50z	08 Jul	938 1 (5275 110)	19117 87580....		BR/ER	MON
	1800/20/40z	09 Jul	938 1 (3862 107)	00843 03652....		BR	TUE
	1710/30/50z	15 Jul	938 1 (984 113)	53864 65620....		BR/ER/HFD	MON
	1710/30/50z	22 Jul	938 1 (3396 113)	32349 08906....		BR	MON
	1800/20/40z	23 Jul	938 1 (4420 104)	82342 64406....		BR	TUE
	1710/30/50z	29 Jul	938 1 (4681 110)	24594 51673....		BR	MON
	1800/20/40z	30 Jul	938 1 (6326 106)	34896 74609....		BR/ER	TUE
12162/11566/10711	1710/30/50z	03 Jul	546 1 (9230 111)	80849 30488....		BR	WED
	1700/20/40z	04 Jul	546 1 (6409 110)	71992 24841....		BR	THU
	1800/20/40z	04 Jul	546 1 (5600 105)	25036 47090....		BR	THU
	1710/30/50z	10 Jul	546 1 (4578 107)	25987 71809....		BR	WED
	1800/20/40z	11 Jul	546 1 (5499 109)	35655 05770 ... 92846 02048 000 000		Gert/HFD	THU
	1710/30/50z	17 Jul	546 1 (4738 109)	02054 84393....		BR/HFD	WED
10711	1740z	18 Jul	546 1 (4738 109)		(SDR Utwente)	ER	MON
	1800/20/40z	18 Jul	546 1 (9529 113)	48050 97456....		BR/ER	MON
	1710/30/50z	24 Jul	546 1 (4108 105)	18724 17910....		BR	WED
	1800/20/40z	25 Jul	546 1 (3273 104)	39884 32850....		BR	THU
	1720/30/50z	31 Jul	546 1 (7259 107)	53023 15275....		BR	WED
13381/12181/---	2110/30/50z	01 Jul	317 000			BR	MON
	2110/30/50z	04 Jul	317 000			HFD	THU
	2110/30/50z	08 Jul	317 000			BR	MON
	2110/30/50z	11 Jul	317 000			BR	THU
	2110/30/50z	15 Jul	317 000			BR	MON
	2110/30/50z	22 Jul	317 000			BR	MON
	2110/30/50z	25 Jul	317 000			BR	THU
13423/12123/11523	1210/30/50z	03 Jul	415 1 (7995 100)	21891 64012 ... 13753 70829 000 000		Gert/HFD	WED
	1210/30/50z	12 Jul	415 000			BR	FRI
	1210/30/50z	24 Jul	415 000			BR	WED
	1210/30/50z	31 Jul	415 000			BR	WED

15821/13921/12221	1400/20/40z 1400/20/40z 1400/20/40z 1400/20/40z 1400/20/40z	08 Jul 10 Jul 15 Jul 24 Jul 29 Jul	892 1 (9295 153) 88927 14418.... 892 1 (9295 153) 88927 14418.... 892 1 (9295 153) 88927 14418 ... 19463 00344 000 000 892 1 (9103 39) 88723 57397.... 892 000		BR/HFD BR Gert BR BR	MON WED MON WED MON
16323/14923/---	1950/2010/2030z 1950/2010/2030z 1950/2010/2030z 1950/2010/2030z 1950/2010/2030z 1950/2010/2030z 1950/2010/2030z 1950/2010/2030z 1950/2010/2030z	03 Jul 05 Jul 10 Jul 12 Jul 17 Jul 19 Jul 24 Jul 26 Jul 31 Jul	395 000 395 000 395 000 395 000 395 000 395 000 395 000 395 000 395 000		HFD BR BR BR BR BR BR BR BR	WED FRI WED FRI WED FRI WED FRI WED
August 2019:						
8047/6802/5788 6802	2000/20/40z 1820z 2000/20/40z 1800/20/40z 2000/20/40z 1800/20/40z	03 Aug 05 Aug 10 Aug 19 Aug 24 Aug 26 Aug	463 1 (3472 91) 75586 95174.... 463 1 (7905 97) 463 1 (9344 100) 40708 40478.... 463 1 (3840 100) 25028 18679.... 463 1 (1055 91) 62840 72061.... 463 1 (3981 99) 15329 18858....		BR/HFD ER BR BR BR BR/ER	SAT MON SAT MON SAT MON
9052/8052/6952	2210/30/50z 2210/30/50z 2210/30/50z 2210/30/50z 2210/30/50z	03 Aug 10 Aug 17 Aug 24 Aug 31 Aug	992 000 992 1 (453 84) 30608 54286.... 992 000 992 1 (453 84) 30608 54286.... 992 000		HFD BR BR BR BR	SAT SAT SAT SAT SAT
9317/10484/11552	0530/0550//0610z 0530/0550/0610z	06 Aug 27 Aug	135 1 135 1 (6763 106) 53408 78246 00538 75704 000 000	Good/Clear	HFD E.SMITH	TUE TUE
10314/9114/---	2100/20/40z 2100/20/40z 2100/20/40z 2100/20/40z 2100/20/40z 2100/20/40z 2100/20/40z 2100/20/40z	02 Aug 09 Aug 10 Aug 16 Aug 17 Aug 24 Aug 30 Aug 31 Aug	310 000 310 000 310 000 310 000 310 000 310 000 310 1 (483 120) 82376 29394.... 310 1 (483 120) 82376 29394....		HFD BR BR BR BR BR BR BR	FRI FRI SAT FRI SAT SAT FRI SAT
10598 11435/10598/9327	1730z 1800/20/40z 1710/30/50z 1800/20/40z 1710/30/50z 1800/20/40z 1710z 1800/20/40z	05 Aug 06 Aug 12 Aug 13 Aug 19 Aug 20 Aug 26 Aug 27 Aug	938 1 (2497 109) 938 1 (9053 106) 76863 31695.... 938 1 (5382 106) 72638 21533.... 938 1 (1967 109) 27830 80200.... 938 1 (7248 107) 80537 23361.... 938 1 (4373 109) 00285 36400.... 938 1 (8325 108) 938 1 (5904 109) 65950 15611....		ER BR/HFD BR/HFD BR/ER BR BR ER BR	MON TUE MON TUE MON TUE MON TUE
12162/11566/10711	1700/29/40z 1800/20/40z 1700/20/40z 1800/20/40z 1710/30/50z 1700/20/40z 1800/20/40z 1800/20/40z 1710/30/50z 1720z	01 Aug 01 Aug 08 Aug 08 Aug 14 Aug 15 Aug 15 Aug 22 Aug 28 Aug 29 Aug	546 1 (7406 107) 26422 00184.... 546 1 (3672 106) 20315 98086.... 546 1 (5709 107) 75844 80986.... 546 1 (558 43) 94626 97636.... 546 1 (2864 106) 77372 55206.... 546 1 (2452 112) 78039 45227.... 546 1 (7136 108) 81644 64804.... 546 1 (3493 113) 00957 71280.... 546 1 (5564 105) 59174 49092.... 546 1 (6114 109)		BR/HFD BR/HFD BR BR BR/HFD BR BR BR/ER BR/ER ER	THU THU THU THU WED THU THU THU WED THU
12178/11578/---	1210/30/50z 1210/30/50z 1210z 1210/30/50z	02 Aug 07 Aug 23 Aug 28 Aug	155 000 155 000 155 1 (309 100) 08607 57288....etc. 155 000		HFD BR RNGB BR	FRI WED FRI WED
12214/11014/9914	2110/30/50z 2110/30/50z 2110/30/50z 2110/30/50z 2110/30/50z 2110/30/50z	08 Aug 12 Aug 15 Aug 22 Aug 26 Aug 29 Aug	209 000 209 000 209 000 209 000 209 000 209 1 (266 102) 26356 60162....		HFD BR BR BR BR BR	THU MON THU THU MON THU
15983/14683/13383	1400/20/40z 1400/20/40z 1400/20/40z 1400/20/40z 1400/20/40z 1400/20/40z	07 Aug 12 Aug 14 Aug 19 Aug 26 Aug 28 Aug	963 000 963 1 (9789 66) 64946 98197.... 963 1 (9789 66) 64946 98197.... 963 1 (163 90) 71137 45184.... 963 1 (163 90) 71137 45184 .. 12874 45887 000 000 963 1 (163 90) 71137 45184 ...12874 45887 000 000	 Weak/Good/Good Good	HFD BR BR BR Gert E.SMITH	WED MON WED MON MON WED

14748	2010z	07 Aug	174 000	Gert	WED
16148/14748/---	1950/2010/2030z	09 Aug	174 000	BR	FRI
	1950/2010/2030z	14 Aug	174 000	HFD	WED
	1950/2010/2030z	16 Aug	174 000	BR	FRI
	1950/2010/2030z	21 Aug	174 000	BR	WED
	1950/2010/2030z	28 Aug	174 000	BR	WED
	1950/2010/2030z	30 Aug	174 000	BR	FRI

M12 10807/10207//9207kHz 0700/0720/0740z 11 Jul 2019	M12 12162/11566/10711kHz 1800/1820/1840z 11 Jul 2019
822 822 822 1 (R2m) 9947 98 9947 98	546 546 546 1 (R2m) 5499 109 5499 109
94724 55535 96335 25957 91662 89351 49971 68473 41513 45754 06479 90264 30573 50371 61523 89059 07226 38778 43655 68221 89258 01969 70866 77546 54828 18538 80266 97594 61074 13204 22413 65973 78813 24883 37468 64012 79461 27855 29073 00850 36779 63750 08835 45629 10161 03360 80182 49801 75859 34557 77095 12867 97391 67469 76600 73270 04956 99533 85969 40813 46826 02731 18312 58977 80551 95568 18007 36311 36389 80340 37920 02769 97599 49971 09629 26597 57252 50462 37904 23813 05340 57720 14511 33129 87259 58062 18506 95402 65378 73860 05952 88379 51630 74398 51941 19330 82919 55808 000 000	35655 05770 69168 92383 40979 46103 84577 30847 13332 12520 24870 25960 34641 23385 83801 17657 21800 46875 71234 76910 78671 85769 58488 15637 55637 71563 47540 35082 88179 96342 19534 22203 79124 73984 64718 63848 08042 42207 13054 97831 67406 62447 83822 98609 50913 24269 94522 33085 27728 85825 00836 58373 20858 47509 58857 83024 76919 86157 50352 29134 09730 22368 11025 60750 86933 54325 82284 78607 52475 39196 12526 49494 78019 88187 83685 51270 52463 66929 83769 62376 57318 86771 27789 44383 28989 46098 28505 79385 99217 06864 18434 68413 26798 42731 41533 36818 87346 43168 94142 31233 89449 03101 90325 42324 01152 09009 13570 92846 02048 000 000
Courtesy AB	Courtesy Gert

M14 IA MCW / ICW Short 0

Ary, (AB), logged this series of tests from M14 on the afternoon of 17 July;

7390	1509 - 1601z	17 Jul	Tests. Single groups followed by a null message	MCW	AB	WED
1509z	Z25 49591 54992 54083 13230 08873 25511 00153 69490 11063 93716 65546 79626 23798 82107 00999 06997 85204 23604 76970 26426 66518 90033 71537 84700 55457 88075 32777 11299 22399 44057 60925 29512 82Z <pause> 7079 82102 18061 036S					
1513z	34040 03689 57326 67432 45299 38516 57326 67432 45299 38516 58879 68140 50198 31115 09702 38322 22					
1515z	W 79819 12558 78844 20401 93742 66310 28673 80026 20219 81177 20487 59432 06186 V					
1517z	M6 49114 33398					
1553z	1672 36267 68679 47404 69719 21297 35176 64058 58695 54379 31698 4048 7277 6387G 16368 50558 45214 65876 99260 68542 4 877 69453 07 19 8 187 46262 02639 67380 99M					
1556z	6497 96641 28839 45979 05653 63126 21833 96200 95714 69075 627H					
1601z	M4 31507 91766 32197 48004 08849 0288 239 239 239 00000					
1606z	239 239 239 00000					

July 2019:

4650	0900z	06 Jul	523 (741 40) = 90164 36168 ... 73891 04672 00000	(Via SDR Poland)	ER	SAT
	0900z	13 Jul	523 (105 30) = 77781 55671 ... 14880 32145 00000	(Via SDR Poland)	ER	SAT
	0900z	20 Jul	523 (674 42) = 90635 25146 ... 78231 45279 00000	(Via SDR Poland)	ER	SAT
	0900z	27 Jul	523 (546 38) = 12345 56720 ... 95178 ????? 00000	(Via SDR Poland)	ER	SAT
4730	0800z	06 Jul	523 (741 40) = 90164 36168 ... 73891 04672 00000	(Via SDR Poland)	ER	SAT
	0800z	13 Jul	523 (105 30) = 77781 55671 ... 14880 32145 00000	(Via SDR Poland)	ER	SAT
	0800z	27 Jul	523 (546 38) = 12345 56720 ... 95178 ????? 00000	(Via SDR Poland)	ER	SAT
5938	1920z	10 Jul	417 (106 40) = 55511 19099 ... 78909 55454 00000	(Via SDR Poland)	ER	WED
14878	0930z	11 Jul	617 (409 63) = 20303 57938 ... 28766 18046 00000	(Via SDR Utwente)	ER	THU
16347	0930z	25 Jul	617 (409 63) = 20303 57938 ... 82620 18046 00000 S9 Signal	(Via SDR Utwente)	ER	THU

August 2019:

4650	0900z	03 Aug	523 (104 40) = 55511 99059 ... 78909 55454 00000	(Via SDR Poland)	ER	SAT
	0900z	17 Aug	523 (102 35) = 78787 65456 ... 89098 00777 00000	(Via SDR Poland)	ER	SAT
	0900z	24 Aug	523 (105 30) = 77781 45671.... Signal faded right out at end	(Via SDR Poland)	ER	SAT
	0900z	31 Aug	523 (674 42) = 90635 25146 ... 78231 45279 00000	(Via SDR Poland)	ER	SAT

4730	0800z	03 Aug	523 (104 40) = 55511 99059 ... 78909 55454 00000	(Via SDR Poland)	ER	SAT
	0800z	10 Aug	523 (101 40) = 12345 45678 ... 65655 78654 00000	(Via SDR Poland)	ER	SAT
	0800z	17 Aug	523 (102 35) = 78787 65456 ... 89098 00777 00000	(Via SDR Poland)	ER	SAT
	0800z	31 Aug	523 (674 42) = 90635 25146 ... 78231 45279 00000	(Via SDR Poland)	ER	SAT
5939	1920z	28 Aug	417 (123 38) =	(Via SDR Poland)	ER	WED
6876	2000z	02 Aug	735 00000	(Via SDR Poland)	ER	FRI
7608	1900z	16 Aug	735 00000	(Via SDR Poland)	ER	FRI
16347	0930z	10 Aug	617 00000	(SDR Utwente)	ER	SAT
	0930z	25 Aug	617 00000	(SDR Utwente)	ER	SUN

M14 5938kHz 1920z 10 July 2019						
417 (R4m) 106 106 40 40 ==						
55511 19099 21232 43433 56545 67656 76787 89878 98909 09876						
12321 54333 67656 45456 12345 54321 13579 24680 08442 97351						
09890 76567 43234 21232 21636 14888 22810 98765 21232 21636						
54345 34343 56768 88909 07799 12343 23312 22571 78909 55454						
==						
106 106 40 40 00000						
Courtesy ER						

M14 4730kHz 0800z 10 August 2019						
523 (R4m) 101 101 40 40 ==						
12345 45678 09890 78956 23456 09909 57678 91234 45678 90876						
54321 11122 22345 44556 76543 12567 89999 99887 00678 08976						
34567 45678 98765 89765 09097 12345 56787 45645 67678 98988						
23456 67890 09876 76766 87788 12356 34578 76543 65655 78654						
==						
101 101 40 40 00000						
Courtesy ER						

As Edward, (ER), points out in his reports a number of M14 messages consist of some strange groups, which seem unlikely to be genuine coded messages. The most likely explanation is that these are used for training. Examples of these questionable messages are shown above.

M23 O ICW

No Reports

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

No reports for a long time - Believed ceased.

M90 0 CW DEQJ Czech Military

Thanks to André, F5JBR, for this M90 log;

4133	0630z	08 Aug	DEQJ CW DEQJ (x3) AR = QTR 0831 DEQJ (x3) AR and DEQJ (x3) AR (Via SDR Austria) F5JBR THU
			(DEQJ - repeated 3 times and AR: as a beacon)
	0638z		QTC 628 = 628 20 08 0838 628 = DEQJ = DNFVZ KADQS FKEIU YMISI IRFBP QWXTY RZBNM BGMNX QRKRK JEYCR VNASC ARECA HKXPY HOURP DCNCX BIOIP MSKLY NVKMG KRIQL LAYGZ = SDAE = (REPEAT TEXT) = HDAE == FOR DEQJ RPT QLN AR
	0641 - 0730z		DEQJ (x3) AR = QTR 0848 DEQJ (X3) AR and DEQJ (x3) AR and DEQJ 768 435 035 530 DEQJ AR

Morse Stations - Not Number Related

M51 has recently restarted the practice of sending continuous groups without headers outside of the scheduled lesson times, which is defined as M51b. The station has switched between this variant & M51, (using 100 group blocks with headers), a number of times over the last few years.

M51 XIX

3881//6825 100 grp 5-ltr messages with headers

No logs

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

3881//6825 1130z 25 Jul Jeudi- Leçon 14-2/1 Codé, 14-2/2 Clair, 14-2/3 Codé, 14-2/4 Clair (840 grps/hr) AB THU

M51b transmissions ceased for the regular 1130z scheduled lessons, recommencing soon after the end of the transmission.

VVV VVV VVV DE FAV22 FAV22 QLH 3881/6825 KHZ

JEUDI-LEÇON NUMÉRO 14-2/1 VITESSE 840 CODÉ =

SHQJA WNXJD QKAIL QMAPO BHJRT XVSJQ WJGDH EUZJD CNFJT SJZKA
YHDJS JQKEU DIKOZ KLZSG 36276 10984 JGDHS WJURY PEUSH ZUJDG
SHWBC XVSHE ZUJAI QKDGF HCBVJ SKRYF CBXVD 46359 UJHDI KSLOP
JHFGC GFCBX NJETD SHZUJ AIKSI QKBCV FGRYD SXKJN OHFGV 45287
HBCGF XNWJR DUJYG CVXKJ HSGZY WBZAJ KAIOF PAMJK UJBGT CVXJS
ZUJKQ 27108 HAJKR GBXJS AJSUK QKOAL PMAYH JQKZU +

JEUDI-LEÇON NUMÉRO 14-2/2 VITESSE 840 CLAIR =

DANS LES ANNÉES 1990, LES ÉCOLES ONT ÉGALEMENT COMMENCÉ À SE DOTER D'OUTILS
DE SIMULATION CONSTRUCTIVE POUR TRAVAILLER LA TACTIQUE. NOTRE OBJECTIF EST NON
SEULEMENT DE FAIRE ACQUÉRIR À NOS STAGIAIRES DES SAVOIRS ET UNE TECHNIQUE
IRRÉPROCHABLE, MAIS AUSSI D'ENTRAÎNER L'INTELLIGENCE DES CHEFS EN LES
PRÉPARANT AUX ENGAGEMENT À VENIR. +

JEUDI-LEÇON NUMÉRO 14-2/3 VITESSE 840 CODÉ =

GVXHS WNQHA IKDLS MWPZY DGSHA NWJDU DGRUJ WKLSP NJWKE UJSHZ
OKHJD BXHRT 36271 IUJFG CBSJZ WHNSL KOLWM AUJDG XBCFV WHNSK
OLMQH AYHDG XVCFD BWJZU XIDKC XKJDU HNDIC VPMRY 65378 KLSGQ
WNBBDH XVCUR CIKDL PMSVR XVCHF YHFKS ZUYHS 56372 BWVDY IKDHY
XBCJS GBWJZ UJWKL KJDBV YHCIR YHXVF GBFYR DFSCZ UJVFC FVCHD
FKSLR WCXVF HNFLA PHFCT WVXHZ QJHAU 67354 BXHDY WBXHZ GFCUJ
SHRTF CJGUH 10964 GBCHS WBXUY TGDJZ 652/3 BXHSJ WKAPL PMDHV
BXGRT DFXCS JNCGV YHXJZ JWKAO KLWUY HNCRD XVCHZ YHWJZ PLGCV
TGXLA PMWJD WFGRT CJSJZ WNXGD YHDGV 64829 IKFHC BXHDL VHDUI
VCXGR YHSPA PKLDU LWJDY GHFUC VXYRT DGSHZ LKFHT KHDYT XVDJK +

JEUDI-LEÇON NUMÉRO 14-2/4 VITESSE 840 CLAIR =

AU TOTAL, LA SANCTION PRONONCÉE CONTRE GROSJEAN EST CONSTITUÉE D'UNE EXCLUSION
DE MONZA ET D'UNE AMENDE DE 50000\$. IL POUVAIT POTENTIELLEMENT BLESSER
D'AUTRES PILOTES. IL A COMMIS UNE FAUTE EXTRÊMEMENT SÉRIEUSE ET UNE ERREUR DE
JUGEMENT DIT LA SENTENCE SIGNÉE PAR TROIS COMMISSAIRES ET LE PILOTE
PROFESSIONNEL DE SERVICE, ELISEO SALAZAR QUI A COURU EN FIET EN INDYCAR. +

CQ DE FAV22 VA

Followed by more M51b message streams.

M51b

3881//6825 0735z 23 Jul Non-stop 5-character groups composed of M51a messages AB TUE

 0935z 25 Jul Non-stop 5-character groups composed of M51a messages AB THU

The space between the messages were inserted by me. The transmission was one long stream of groups.

MXSKW NCJDA KDOWP BCMJK AZMNS SKWID NXSOQ NXSDF HJCSI 26530
BCHSW „=VA BZAHA CXSHA JAQIS NXZKA LDKIW CBSHA ZALOQ BXNSJ
02148 MDYUG ?/„AS ZAQIS HXAKQ XMNSA AQPOE CNSHW LDOJF XNWM
LDKOW 48901 SHWTD ?/„, MVKDL SAHQB XVSHD DJWIF SALOJ NCSJS
QAQSD NNCJE 74302 DRWED ?/„VA' NVBXC NSWPO NDEYJ DJKED AXZVS
NVLRL LDPEJ WRSFU 43269 HGKRO /AS.? KDWIC SNSJW VZWPO LFMKR
DREGN MCEIS MCKDO AFQTH 01658 GSWPO .AR'./ NSYWP ASQEZ NXHWY
BXWJK LFPEI CNMWI ZCVQT MVIEW 49635 KFUEI VA:AS/ VXBAQ KAOWP
BCHWQ CVDBE FKEIS QEAFY CBDFW VFLPE 41203 SPIJG ?/„VA' ZAJSU
VXBHQ XHQS BXBWH ALPQE BCBYD CBXBX NXWPO ?/„GDWYD 56320
AZNXM WLJSS FSWTH BXVCS VMKDA ZBCYQ LSOPD VCNWM 93502 JDIWK
?.VA, ZAUSH BDHWA BXVSG GDYWL POFKE NDJAI BCXVA MQIKD MVLAO
56398 KDOWL „=/?/ JXUWG GDJAL PLGOE

SHQJA WNXJD QKAIL QMAPO BHJRT XVSJQ WJGDH EUZJD CNFJT SJZKA
YHDJS JQKEU DIKOZ KLZSG 36276 10984 JGDHS WJURY PEUSH ZUJDG
SHWBC XVSHE ZUJAI QKDGF HCBVJ SKRYF CBXVD 46359 UJHDI KSLOP
JHFGC GFCBX NJETD SHZUJ AIKSI QKBCV FGRYD SXKJN OHFGV 45287
HBCGF XNWJR DUJYG CVXKJ HSGZY WBZAJ KAIOF PAMJK UJBGT CVXJS
ZUJKQ 27108 HAJKR GBXJS AJSUK QKOAL PMAYH JQKZU

GVXHS WNQHA IKDLS MWPZY DGSHA NWJDU DGRUJ WKLSP NJWKE UJSHZ
OKHJD BXHRT 36271 IUJFG CBSJZ WHNSL KOLWM AUJDG XBCFV WHNSK
OLMQH AYHDG XVCFD BWJZU XIDKC XKJDU HNDIC VPMRY 65378 KLSGQ
WNBBDH XVCUR CIKDL PMSVR XVCHF YHFKS ZUYHS 56372 BWVDY IKDHY
XBCJS GBWJZ UJWKL KJDBV YHCIR YHXVF GBFYR DFSCZ UJVFC FVCHD
FKSLR WCXVF HNFLA PHFCT WVXHZ QJHAU 67354 BXHDY WBXHZ GFCUJ
SHRTF CJGUH 10964 GBCHS WBXUY TGDJZ 652/3 BXHSJ WKAPL PMDHV
BXGRT DFXCS JNCGV YHXJZ JWKAO KLWUY HNCRD XVCHZ YHWJZ PLGCV
TGXLA PMWJD WFGRT CJSJZ WNXGD YHDGV 64829 IKFHC BXHDL VHDUI
VCXGR YHSPA PKLDU LWJDY GHFUC VXYRT DGSHZ LKFHT KHDYT XVDJK

JNDHE VXGST AUZRS QVWGS ETZYA GFVCH SNWJU AIKSL QOLAP QNBWH
SGDTE IKJHF BCGFT 34265 89106 XBDGE SJNWK QKAOL QNHUY UJIHY
NBCVD XGSTZ ATQYA WHBDU ETSTR DKDKS BXJEU SJQA ZIKSO KQLAP
NJKSF XGDTX WVQHZ AHUGF CJNDG ETZUS QQLAI NCHDY XCDGE UJFGE
26479 CGDFE XHQYE DGXUZ AJNHD XCSVJ SHLOQ ALKIJ NHYRT OLAIK
NCJDK SLAPM NHDJF CGVET SHQUZ NXJSU AIKSH BCHDU ZIJQK LQMAI
NCJGD FVCBX WNQJZ SJAUJ 46528 JSUEY SGQSA 27845 AJNDH IKAOL
WXCSG QMAPL NKCXB DGETS AHSUE BXNWJ SHUTE DURYH FGCXV OLAKI
BHDGR XGSUK ZRWBC VHFUV CNXJF GUJRT DHXUE SJZKS XBWJQ IKHTG
VSDQH ZUJAY VXBWG 42763 89210 75648 HDBXF RVCHS ZUHQI OLDGR
BCHSU YDTFV CVXGD SHGVC BXNHA XHWUE ZJSKQ HTRGF BDHVB IKHBG
CHSTR DFSTF DGERF ZYSFW XGDCB QNAJH CBDUJ RTDGS WJHUY

CXVDG SHQJA WBQJA NJKIU RTSGZ QHAUJ QNWJE ZUJAI QLAKP MQLAO
 YTGFT 45287 EHSQA WBSGQ WJUKL AMPLO QNJKU WNHEG SGQHZ AJUHS
 67489 18624 ZBWCW QNAKL QMAPL KJSGR XVWBS QBAJH WNQJU NWHUJ
 AIKOL QLAMP KIAUY WBSGE WJQUA IAUUY QKAOL QMAPO LQORT DHXVZ
 UJKQG AYTGH WBQHZ SHAJK QKALP TRZUI QJKAM BXVSC WHQKA KLQPM
 LKAYG 56387 XVSGA WNQJA KLQMA JKQLE ZUHSJ APLOK WNBGF DJSKA
 KLAMJ BHGCV XGBWH QJAKI YHDUR STZGA QHBWJ QJKAU YTGDH 46287
 KLAMP JKQJH BCVFG XNWBQ AHJKU RTSGA WHNQK SJAUY QKALM PLKJH
 QNBQD AVWHJ QKALU YHFGR 38721 AYOPM 90176 XVCHF WBQNJ ALKAI
 OLAPM NCBXW JSHTD QJNHG CGFTR AJKHU QKALP MLKAY DHGST HQJAU
 OIAJN ETDGS WNQHA 27654 QBWND AJZUH DGQMA HJQKA IINHY CGDHS
 MAPLK BXGDT 19873 5A176 NXVDG SHAJK LQMAP HDGTU

DHIQU VCGSH PELEO XAQEZ NCBGD MVNBT PTOTI BVNVE SWREG 02589
 NCDIE ..VA'AR NCBBDH MNLHK CXSDW ASQWE CVXBW LGRPO CBHYW NVVNR
 45896 BCASHW ..?/ BCDHE LHPOT BCNDW XMKWU ASQVS NDEF MFKE
 VXSGW 47896 VZQAO ..?AS' MCDJU MVLOR ACQRZ NCDHE MBCND LGPRO
 CDWRE NNCJE 74302 BCMAK ..?/= NVBXC NSWPO NDEYJ DIKET AXZVS
 NVMRU LDPEJ WRSFU 43269 BCCPW ..AS' / KDWIC SNSJW VZWPO LFMKR
 DREGN MCEIS MCKDO AFQTH 01658 CAQMK ..?/ NCYWP ASQEZ NXHWY
 BXWJK LFPEI CNMWI ZCVQT MVIEW 49635 VXQAU ..?/' MVLPE QADTD
 NDJEI CVDBE FKEIS QEAFY CBDFW VFLPE 41203 CXZBA ..AR'?' ASQRV
 NVDYE MCDEI BXBWH ALPOE BCDDY CBXBX MXWPO ..?/ CZPLO 58023
 SNHWY BDGWT XWEUD MVLEO XWTCN ASKEO DGETQ CBNSK 41123 LMPOI
 ?VA' QPALO BCGEY MXNWU VCHWIMVLO SDQRA XZSBV DMLGS ..?/
 CXABQ 39856 VATYW IDOPW VXCZB LPFDO

etc. etc.

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).

3156	4143	5566	7540
3167	4197		
3636	4244		
	4250		
	4279		
	4305		
	4392		

New Schedules for Jul / Aug 2019: From logs submitted from JPL & F5JBR

4192//4489 Sending different Round slips Continues into July & August V 2B7D (x3) DE 3GR1 (x2) on 4192kHz
 V HFL2 (x3) DE M6NY (x2) on 4489kHz

Logged on 25 August sending different Round Slips, then on 27 August logged sending the same Round Slip on both frequencies - A rare event;
 V 2B7D (x3) DE 3GR1 (x2)

5691//10383 Sending different Round slips First heard 15 July continued V HFL2 (x3) DE M6NY (x2) on 5691kHz
 Into August. V 2B7D (x3) DE 3GR1 (x2) on 10383kHz

Logged on 25 August sending different Round Slips, then on 28 August logged sending the same Round Slip on both frequencies - A rare event;
 V 2B7D (x3) DE 3GR1 (x2)

4720//NRH Hand sent Round Slip First heard 20 August V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
 4720//5120 Hand sent Round Slip First heard 28 July V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K

7620//NRH Hand sent Round Slip First heard 28 July V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
 7620//8350 Hand sent Round Slip First heard 03 August V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K

5920//6840//10640 New frequency for NYZ First heard 26 July VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?

4860//5920 New frequency for NYZ First heard 16 Aug VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?

Chart of M89 Freq & Call signs heard in Jul / Aug 2019 New Schedules shown in Bold Type From logs submitted from JPL & F5JBR

Freq in kHz	Call Slip
3156//3597	VVV (x3) 3JWV (x3) DE QH4P (x2)
3156//3597//6913//7397	VVV (x3) 3JWV (x3) DE QH4P (x2)
4131//NRH	V JKDJ (x3) DE SLBC (x2)
4192//4489	V 2B7D (x3) DE 3GR1 (x2) (Different R/Slip)
4489//4192	V HFL2 (x3) DE M6NY (x2) (Different R/Slip)
4720//NRH	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
4720//5150	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K
4860// NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
4860//5920	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
4860//5920//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
4860// 6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
5177//NRH	V JKDJ (x3) DE SLBC (x2)

Freq in kHz	Call Slip
5691//10383	V D72H (x3) DE 1HM4 (x2) (Not Synchronised)
5691//10383	V HFL2 (x3) DE M6NY (x2) (Different R/Slip)
5920//6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
6840//NRH	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6913//NRH	V 3JWV (x3) DE QH4P (x2)
6913//7397	V 3JWV (x3) DE QH4P (x2)
7620//NRH	V WNF(x3) DE FXM (x2) (R5) (Hand Sent)
7620//8350	V WNF(x3) DE FXM (x2) (R5) (Hand Sent)
8350//NRH	V WNF (x3) DE FXM (x2)
10383//NRH	V 2B7D (x3) DE 3GR1 (x2)
10383//5691	V 2B7D (x3) DE 3GR1 (x2) (Different R/Slip)

3156//3597		1235z (IP) 10 Aug	V 3JWV (x3) DE QH4P (x2) (IP - Cont'd MSG NR 0805 CK 99 24 0810 2030 RMKS 9646 TO 5861 0236 9846 BT (Machine sent)	(Remote tuner Siberia)	JPL	SAT
3636		1832z (IP) 29 Jul	NR .415 CK 31 35 0730 0239 RMKS 6468 TO 6881 K NOTE: This logging could be M95, since 99% of M95 messages have the number 35 following the group count.	(Remote tuner Siberia)	JPL	MON
4143		1357z (IP) 10 Aug	NR /.393/EX 2111 RMKS CQ BT NR 73.. SP 11W TO 40W BT NR 395/EX 2136 RMKS CQ BT	(Remote tuner Siberia)	JPL	SAT
4279		0811z (IP) 25 Aug	VVV D3WC DE DEATT K K BT UAT1700 UGT COMM 6998 20632094 20632063 8 AR K VVV D3.C DE DLHATT K K VVV D3WC DE 3WCDL ..TT K K	(Remote tuner China) (0814z)	JPL	SUN
4305	M2QX XP3W	1352z (IP) 20 Aug	M2QX calling various stations. VV 5TBY DE M2QX K 5TBY, 7U8P, 9UBT, IEC BT ADMQ AR K (Normally associated with exercise) XP3W calling various stations VVV RWI4 DE XP3W RW14, 7U8P, 5TBY, 9UBT, FF NR 1012/EX 2203 RMKS BT NR 1012/EX 2203 RMKS CQ BT WJM3/R7F2 AR NR 1013 CK 81 49 0820 2200 RMKS CQ K	(Remote tuner Siberia) (Changed his call sign) (1405z) (1408z)	JPL	TUE
4740	JBYA	1927z (IP) 10 Aug	IEC BT 1.31 AR K (Normally associated with exercise) VV D8TW DE JBYA K VV G8FY DE JBYA K VV A0QJ DE JBYA K VV NJCX DE JBYA K VV FJFJ DE JBYA K NR 5685/EX 0332 RMKS CQ K B4Y6/N3O9 AR BT NR 5686 CK 200 28 0811 0300 RMKS CQ K	(Remote tuner Vietnam)	JPL	SAT
6913	QH4P	0719z (IP) 25 Aug	V 3JWV (x3) DE QH4P (x2) NR 0817 CK 94 24 0825 1515 RMKS 9546 TO 0922 9386 93.5 BT	(Remote tuner Siberia)	JPL	SUN
7540	BNC3	1031z 02 Aug	M8KG DE BNC3 HR QSA 2 IEC BT 0386 AR K (Normally used during exercises)	(Remote tuner Hong Kong)	JPL	FRI

M89	7540kHz	1031 (IP) - 1034z	02 August 2019
M8KG DE BNC3			
VVV 7G NR 005		(IP – Hand sent – 1031z)	
VVV RK RK (1032z)			
V M8KG DE BNC3 K			
R QSA 2 K		(Other stn. also on this freq., but very weak)	
R HR QSA 2 IEC BT 0386 AR K (Normally used during exercises)			
R HR . BT ..20 AR K			
R HR NR 95 K			
R HR NR 95 K			
RPT			
R HR NR 95 K			
R R HR NR 13 K			
R NIL SK			
R R SK		(1034z)	

M89	4279kHz	0811 (IP) 0817z	25 August 2019
3952 AR K		(IP – Hand sent – 0811z)	
BT UAT17			
BT HR SVC GA K (0812z)			
VVV D3WC DE DEATT K K			
BT UAT1700 UGT COMM 6998 2063209 420634 EEEE BT			
BT UAT1700 UGT COMM 6998 20632094 20632063 8 AR K (0814z)			
VVV D3.C DE DLHATT K K			
QSY /0III U QSY /03 UQSY /03 (0815z)			
VVV D3WC DE .HATT K K		(Can't seem to get his c/s)	
U QSY /04 U QSY /03			
VVV D3WC DE 3WCDL ..TT K K		(Silent - 0817z)	

Courtesy JPL

M89	4740kHz	1927- 1942z	10 August 2019
[JBYA]			
R KP VV	(IP – Hand sent – 1927z)		
VV O5WY DE JBYA K			
R QSA 2 QSA ? K	(Other stns. N/H on this freq.)		
R IEC BT 1.31 AR K	(Normally associated with exercise)		
R KP VV			
VV D8TW DE JBYA K			
VV G8FY DE JBYA K			
VV G8FY DE JBYA K	(1929z)		
VV A0QJ DE JBYA K	(1930z)		
VV NJCX DE JBYA K			
VV FJFJ DE JBYA K	(1931z)		
FF GA K (1932z)			
R F NR 5685/EX 0332 RMKS CQ K	(1933z)		
RPT K			
R BT BT B4Y6/N3O9 AR BT			
BT BT B4Y6/N3O9 AR			
BT B4Y6/N3O9 AR K	(1936z)		
R HR MSG GA K			
NR 5686 CK 200 UD 6DAA EEEEE	(1928z)		
NR 5686 CK 200 28 0811 0300 RMKS CQ K	(1939z)		
K (1940z)			
RPT K			
RPT K			
R 1P BT			
3N65 .65U 3UTD N536 6UN5 A46N 4U67 DN54 A7DU N7A4			
	(Cont'd – 1942z)		
<i>Courtesy JPL</i>			

M95 O XSV, XSV70, XSV85

NOTE: Have noticed recently the M95 station using 4243//9054 kHz & 9054//NRH kHz no longer repeats messages. Previously each msg would be repeated within the transmission, this is no longer the case. JPL

M95 Morse Logs (Bold type indicates new logging)

3045	E2UG	1705 (IP) - 1717z	21 Dec	V JX0N (x3) DE E2UG (x2) (IP - Cont'd)	(Remote tuner Siberia)	JPL	FRI	
3642//NRH	Call Sign 3A7D 1534z	(Active daily - only first marker log has been included) 03 Jul V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)			(Remote tuner Siberia)	JPL	WED	
3642//7602	Call Sign 3A7D 1630z	(Active daily - only first marker log has been included) 12 Jul V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)			(Remote tuner Siberia)	JPL	FRI	
	1640z	01 Aug	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)		(Remote tuner Siberia)	JPL	THU	
4129//9054	1154 - 1208z	09 Aug	IEC BT 2212 AR K (Normally associated with exercise) (Remote tuner Japan) NR 1004/CCK CK 91 11 0809 2000 RMKS BT 1446 TO 5206 AR K			JPL	FRI	
4243//NRH	Message number differs from current XSV70 and XSV85 message numbers. 1146 (IP) - 1203z	22 Jul	NR 092 CK 17 35 0722 1525 BT NR 44 CK 154 35 0722 1553 BT NR 027 CK 24 35 0722 1625 BT			(Remote tuner China)	JPL	MON
	1144 (IP) - 1154z	11 Aug	NR 22 CK 242 35 0811 1544 BT			(Remote tuner China)	JPL	SUN
	1150 (IP) - 1220z	16 Aug	NR 040 CK 26 35 0816 1546 BT NR 041 CK 16 35 0816 1546 BT (Repeats message – 1153z) NR 32 CK 135 35 0816 1603 BT NR 32 CK 135 35 0816 1603 BT (Repeats message – 1204z) NR 029 CK 20 35 0816 1615 BT NR 029 CK 20 35 0816 1615 BT (Repeats message – 1217z)			(Remote tuner Japan) JPL	FRI	
4243//9054	Message number differs from current XSV70 and XSV85 message numbers. 1140 (IP) - 1217z	08 Jul	NR 064 CK 16 35 0708 1538 BT NR 16 CK 152 35 0708 1615 BT NR 084 CK 18 35 0708 1619 BT			(Remote tuner New Zealand)	JPL	MON
	1147 (IP) - 1202z	21 Jul	NR 09 CK 15 35 0721 1528 BT NR 42 CK 117 35 0721 1557 BT NR 024 CK 13 35 0721 1633 BT			(Remote tuner Hong Kong)	JPL	SUN
	1131 (IP) - 1154z	09 Aug	NR 0623 CK 25... (Garbled CW – Cont'd...) NR 028 CK 31 35 0809 1543 BT NR 18 CK 235 35 0809 1617 BT			(Remote tuner New Zealand)	JPL	FRI
	1214 (IP) - 1255z	10 Aug	NR 20 CK 254 35 0810 1556 BT NR 089 CK 29 35 0810 1635 BT NR 090 CK 20 35 0810 1638 BT NR 091 CK 36 35 0810 1750 BT			(Remote tuner Siberia)	JPL	FRI
	1150 (IP) - 1159z	16 Aug	NR 047 CK 32 35 0819 1550 BT NR 38 CK 106 35 0819 1559 BT			(Remote tuner Hong Kong)	JPL	MON
	2342 (IP) - 2357z	20 Aug	NR 042 CK 17 35 0821 0607 BT NR 050 CK 25 35 0821 0640 BT NR 41 CK 062 35 0821 0658 BT			(Remote tuner Japan)	JPL	TUE
	1140 - 1219z	28 Aug	NR 56 CK 159 35 0828 1555 BT NR 065 CK 45 35 0828 1607 BT NR 065 CK 24 35 0828 1637 BT			(Remote tuner Cangzhou)	JPL	WED
4283//7553	Call sign XSV70 1330 (IP) - 1338z	20 Aug	NR 724 CK 176 35 0820 1622			(Remote tuner Siberia)	JPL	TUE
4364//8073	Call Sign XSV85 1139 - 1144z	21 Jul	HR MSG GA PSE CY (Sig too poor to copy msg)			(Remote tuner Hong Kong)	JPL	SUN
	1133 - 1142z	22 Jul	NR 0551 CK 182 35 0722 1618 BT			(Remote tuner New Zealand)	JPL	MON
	1131 - 1142z	11 Aug	NR 0631 CK 46 35 0811 1631 BT NR 0632 CK 226 35 0811 1630 BT			(Remote tuner Vietnam)	JPL	SUN
	1129 - 1139z	19 Aug	NR 0659 CK 1.4 35 0819 1605 BT			(Remote tuner Hong Kong)	JPL	MON
5801//10180	Call Sign 3A7D 1220z	(Active daily - only first marker log has been included) 08 Jul V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)			(Remote tuner Siberia)	JPL	MON	
	1009z	02 Aug	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)			(Remote tuner Siberia)	JPL	FRI

8073	Usual format is Initial call-up in voice USB, then to digital 4+4 mode LSB, finally, switching to CW CW call-up is V BNGC (x3) DE XSV85 (x2)					
	1135 - 1143z	02 Aug	NR 0590 CK 261 35 0802 1 BT	(Very noisy)	(Remote tuner New Zealand)	JPL FRI
9054	Call sign XSV85 All logged via Remote tuner Hong Kong unless stated (See also 4243//9054kHz listing)					
	2342 (IP) - 2359z	26 Jul	NR 040 CK 14 35 0727 0548 BT		(Remote tuner Japan)	JPL FRI
			NR 001 CK 22 35 0727 0631 BT			
			NR 53 CK 101 35 0727 0700 BT			
	2340 (IP) - 2353z	28 Jul	NR 046 CK 17 35 0729 0622 BT		(Remote tuner Japan)	JPL SUN
			NR 005 CK 41 35 0729 0653 BT			
			NR 57 CK 090 35 0729 0707 BT			
	2342 - (IP) - 2357z	15 Aug	NR 027 CK 22 35 0816 0626 BT		(Remote tuner Japan)	JPL THU
			NR 040 CK 31 35 0816 0650 BT			
			NR 31 CK 095 35 0816 0710 BT			
10180	Call Sign 3A7D	(Active daily - only first marker log has been included)				
	0739z	15 Jul	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd)		(Remote tuner India)	JPL MON
	0738 - 0741z	17 Jul	CP/1600/XXZ112/6845/6200 AR QSL ? HR WK NR		(Remote tuner India)	JPL WED
			VV HR HR NR 26153 04 RMKS 6845 TO 2136 BT			
			CL/1600/ZBT/6845/2136 AR QSL? HR WK NR 130 (Return to R/S – 0741z)			

M95	4243kHz	1140 - 1217z	08 July 2019
Initial call-up in voice USB 1140z Female operator Chinese digital 4+4 QPSK 75/3000 LSB 1141z Switched to CW 1149z			
VV HR 7G TO YR PSE CY (1149z) NR 064 CK 16 35 0708 1538 BT 5AA UTT TTD 3U6 3A4 TTU TT3 TT4 773 3.3 U4T 35A 4A7 445 3DA 4D3 AR 7G AGN NR 064 CK 16 35 0708 1538 BT (Repeats msg. – 1151z) AR AHR MSG GA NR 16 CK 152 35 0708 1615 BT UTU TTD 3U6 3A4 TTU 773 353 N3D 354 34U (Cont'd – 1153z) AR (1202z) 7G AGN NR 16 CK 152 35 0708 1615 BT (Repeats msg. – 1202z) AR (1211z) A HR 7G GA NR 084 CK 18 35 0708 1619 BT UT5 TTD 3U6 3A4 TTA TTU TT3 773 353 U4T 35U 37U N45 374 4A7 445 4D3 3DA AR 7G AGN NR 084 CK 18 35 0708 1619 BT (Repeats msg – 1214z) AR A HR UP SB WK (1215z)			
Switched to voice – USB – Chinese – Female			
Now V26 Sked – 1217z			
Courtesy JPL			

M95	9054kHz	1147 (IP) - 1202z	21 July 2019
VV HR 7G TO YR PSE CY (1148z) NR 09 CK 15 35 0721 1528 BT 5AA UTT TUA 3.6 3A4 TTU TT3 TT4 773 356 36T 4TN 445 3DA 4D6 AR A HR 7G GA NR 42 CK 117 35 0721 1557 BT UTU TUA 3U6 3A4 TTU 773 35A N36 353 4TN (Cont'd – 1150z) AR (1157z) A HR 7G GA NR 024 CK 13 35 0721 1633 BT UT5 TUA 3U6 3A3 TTA TTU TT3 773 356 4AD 445 4D3 3DA AR (1158z) A HR UP SB WK (1159z)			
Switched to voice – USB – Chinese			
Now V26 Sked – 1202z			
M95	4129kHz	1145 (IP) - 1208z	09 August 2019
QSA 1 QSA 1 U QSY NR 04 QSY NR 04 K (IP – Hand sent – 1203z) QSA 1 QSA 1 U QSY TO 1446 U QSY TO 1446 K (1204z) (First time this type of QSY reference seen) QSA 1 QSA 1 U QSY TO 1844 U QSY TO 1844 U QSY TO 1844 K (1205z) VV PG/J DE DEKP35 K (call signs poorly sent) QSA2 K (Other station N/H on this frequency) R IEC BT 2212 AR K (Normally associated with exercise) HR MSG GA K 7G NR 1004/CCK CK 91 11 0809 2000 RMKS BT 1446 TO 5206 AR K (1207z) (Msg. format indicates M95 family) K K R BT BT A6U7 65N4 3TU7 65NU U6DN 6UTA U63T ND47 673T D7N6 735U (Cont'd – 1208z)			
Courtesy JPL			

Oddities

S28	'The Buzzer'								
4625	1741z	11 Aug	S28	'The Buzzer' Marker	USB	Normal buzz	Good	chpa	SUN
S30	'The Pip'								
3756	1742z	11 Aug	S30	'Pip' marker (Night freq)	USB	Normal pip	Moderate	chpa	SUN

XSL 'Japanese Slot Machine'

8588 0211z 02 Aug XSL 'Japanese Slot Machine' Maritime Self Defense Forces. (Perseus net- Japan) B Williams FRI

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

Voice stations, Polytones and Hybrids

E06

E06 July/Aug log:

Mondays **0210z** **11632kHz** **0310z** **13827kHz**
01/07 '537' 100 44 46426.....etc via KiwiSDR (thanks HfD)

Thursdays **0300z** **14648kHz** **0400z** **12084kHz**
15/08 '361' 428 39 94558.....etc (thanks HfD)

First /Third Thursday (repeats Friday) **0500z** **13825kHz** **0600z** **15615kHz**
04/07 '679' 481 52 86310 90435 19339 35162 48519 82066 26441 45585 23085 21669 05876 87672 47060 54049 54410 84108 01096 98644 25162 55146
34775 19951 98491 67021 76423 20313 64714 39247 38326 09768 92058 78176 53296 32626 78321 29021 03524 55477 09651 63519
27650 46311 74899 45428 17003 99439 08971 41045 36928 85899 63618 66928 481 52 00000

18/07 '679' 312 58 64951 80572 93486 42376 84823 93988 84267 81877 45670 93082 38025 73247 71267 42724 90795 30133 71938 82667 50316 11024
14221 90148 02736 21542 75611 74600 79966 19952 15964 52944 29866 36833 19598 78876 56446 44849 87893 24605 22279 39552
87062 38456 30304 17161 80787 26807 27216 60245 02407 33759 95621 67264 46336 17021 27154 86883 83425 43402 312 58 00000

01/08 **0500z** **13540khz** **0600z** **16115kHz**
'210' 846 53 06734 20102 93794 80156 44545 69821 40160 72985 74527 53130 44686 40516 61583 59943 58982 25929 22276 51372 55078 96768
06316 10910 00123 12200 01588 13299 19468 32153 48641 40762 96560 10560 75601 01278 83095 39849 89419 28606 17854 38910
84413 68723 77676 01690 54028 82387 09003 48631 16759 18493 13405 48123 92168 846 53 00000

15/08 '210' 346 57 65462 63563 44673 95627 28494 03583 59200 95111 73560 34238 74543 59400 19113 13684 85936 66006 94400 71629 34293 56295
65216 06850 37479 14582 03111 01967 08000 75348 15239 41467 86813 11035 77047 43870 47936 73823 34979 43996 53538 89876
71381 86274 64217 29446 48813 15020 34135 01299 75932 72617 45701 44900 62152 41558 63498 18787 53256 346 57 00000

First/Third Thursday of month **2030z** **5948kHz** (frequency may vary slightly)
04/07 & 18/07 Too much BC QRM to copy
01/08 '724' 741 41 53178 61135 61345 79320 59385 58736 77233 95864 48376 22795 48538 34693 26852 26468 34579 34687 33529 23258 04468 46726
60964 69477 23295 27399 80453 17847 31125 11631 12253 13648 65824 66893 63136 85458 12496 55482 79383 23682 23392 23328
34789 741 41 00000 (used 5940khz)

15/08 '724' Unreadable to BC QRM

Friday following First & Third Thursday **2130z** **5731kHz** (frequency may vary slightly)
05/07 '315' 974 42 45671 65736 96930 23572 72375 23672 92358 23653 29359 23659 12345 23582 23692 60232 23658 23689 13245 23682 03956 01956
69382 23765 83726 96874 27165 96844 43837 34572 28716 65896 23876 26372 90684 76845 27252 13945 76845 94038 37265 57693
48690 03856 974 42 00000

19/07 '315' repeated until 2138z then Windows Shutdown Sound (Thanks Malc)

02/08 '315' 741 41 53178 61135 61345 79320 59385 58736 77233 95864 48376 22795 48538 34693 26852 26468 34579 34687 33529 23258 04468 46726
60964 69477 23295 27399 80453 17847 31125 11631 12253 13648 65824 66893 63136 85458 12496 55482 79383 23682 23392 23328
34789 741 41 00000

16/08 '315' 149 52 12265 10965 47839 38654 84677 93453 72217 84393 04673 97564 01824 75643 84221 95647 9211294543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 31244 05674 01765 7635483654 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234 05124 95732 149 52 00000

E06 From PoSW:

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

18-July-19:- 5936 kHz, started about 30 seconds before the half-hour, calling “724”, good signal on a clear frequency inside the 49 metre broadcast band, DK/GC “975 975 42 42”, ended around 2040:30s UTC, computer shut-down sounds heard after 2042.

1-Aug-19:- 5940 kHz, call “724”, DK/GC “741 741 41 41”, had started when tuned in a second or two before the half-hour, DK/GC at 2033 UTC so started early.
Strong signal, slight side-band splash from a very strong broadcaster on the HF side, not enough to cause problems. Ended just before 2040 UTC, computer shut-down sounds heard at approx 2041:25s followed by hum.

Friday 2130 UTC Schedule Following First + Third Thursdays:-

5-July-19:- 5731 UTC, call “315”, DK/GC “974 974 42 42”, S9 signal.

19-July-19:- 5731 kHz, some rather strange behaviour from E06 this evening, started well before the half-hour calling “315” at a more rapid rate than is usual, went on with just a couple of brief pauses around 2135 UTC and stopped at approx 2138; computer shut-down sounds heard followed by plain carrier for about one minute then more sounds – computer starting up again? - started calling “315” again at 2140 UTC, normal speed of delivery this time, then DK/GC “149 149 52 52” at approx 2144. Ended around 2153, carrier stayed on afterwards, was still up at 2210z.

2-Aug-19:- 5731 kHz, started about one minute after the half-hour – unusual! Strong signal, call “315”, DK/GC “741 741 41 41”, same as the previous day's 2030z. Ended around 2141 UTC, computer shut-down sounds at 2142:40s.

Thanks PoSW.

E07

Sunday/Wednesday

July 2019

1700z	12223kHz	1720z	11023kHz	1740z	10123kHz	
03/07		201 1 5700 60 0214 ... 20365 000 000				Weak
10/07		201 000				Fair
14/07		201 1 278 81 17655 ... 73060 000 000				Fair, QRM3
17/07		201 1 278 81 17655 ... 73060 000 000				Weak
21/07		201 1 8742 43 77712 ... 44404 000 000				Weak
24/07		201 1 8742 43 77712 ... 44404 000 000				Weak
28/07		201 000			[1720z QRM3]	Fair
31/07		201 000				Weak

August 2018

1700z	13397kHz	1720z	12197kHz	1740z	10697kHz	
04/08	316 000					Weak, noisy
07/08	316 000				[1700z Weak]	Fair
11/08	316 1 231 57 23539 ... 35731 000 000					Weak
14/08	316 1 231 57 23539 ... 35731 000 000				[1740z noisy]	Fair
18/08	316 1 207 30 74510 ... 17170 000 000					Weak
21/08	316 1 536 139 53726 ... 13645 000 000					Fair
28/08	316 000					1700z Weak, 1720z Fair

Sunday/Saturday

July 2019

0600z	9064kHz	0620z	10264kHz	0640z	11464kHz	
07/07		024 1 597 49 78142 ... 39628		[0600z Weak]		Fair
13/07		024 000				Fair

14/07	024 000	[0620z XJTQRM3]	Weak
21/07	024 000		Weak
27/07	024 000		Fair
28/07	024 000		Fair

August 2019

03/08	024 000		Weak (Dutch SDR)
11/08	024 000		0600z Weak, 0620z Fair
17/08	024 1 838 49 20364 ... 14192 000 000		Weak
18/08	024 1 838 49 20364 ... 14192 000 000		Weak
25/08	024 1 838 49 20364 ... 24192 000 000	[0620z QRM]	Weak

Sunday/Thursday/ Saturday

1300z	9064kHz	1320z	10264kHz	1340z	11464kHz	
07/07	024 1 597 49 78142 ... 39628					Weak
21/07	024 000					Weak
28/07	024 000			[1300z NRH]		Weak

August 2019

04/08	024 000					Weak
10/08	024 000					Weak
11/08	024 000					Weak
17/08	024 1 838 49 20364 ... 14192 000 000					Weak
18/08	024 1 838 49 20364 ... 14192 000 000					Weak
25/08	024 1 838 49 20364 ... 24192 000 000			[1320z QRM]		Weak
31/08	024 1 838 49 20364 ... 24192 000 000					Weak

Monday/Wednesday

July 2019

1900z	16263kHz	1920z	14763kHz	1940z	13363kHz	
03/07	273 1 940 100 04191 ... 86421 000 000					Strong
08/07	273 1 687 120 96389 ... 86261 000 000				[1940z Very strong]	Weak
10/07	273 1 687 120 96389 ... 86261 000 000					Weak (Dutch SDR)
17/07	273 1 687 120 96389 ... 86261 000 000				[1900z Weak,1920z NRH]	Very strong
22/07	273 000					Very strong
24/07	273 000				[1920z NRH]	Weak
29/07	273 000					Very strong
31/07	273 000				[1900z Dutch SDR Weak]	Very strong, local Rx

August 2019

1900z	16147kHz	1920z	14647kHz	1940z	13447kHz	
05/08	164 000				[1900z Fair (Dutch SDR)]	Weak, local Rx
07/08	164 000				[1900z NRH]	Weak
14/08	164 000					Strong
19/08	164 000				Weak	

21/08	164 000		[1900z Fair, noisy]	Very strong
26/08	164 1 724 115 79773 ... 86355 000 000		[1900z Weak, 1920z Fair]	Very strong
28/08	164 1 724 115 79773 ... 86355 000 000		[1900z Weak]	Strong

Tuesday/Friday

July 2019

0700z	15962kHz	0720z	17462kHz	0740z	18542kHz	
05/07	945 1 6355 74 92177 ... 04325 000 000					Weak (Dutch SDR)
09/07	945 000					Weak (Dutch SDR)
18/07	945 1 239 56 51269 ... 18007 000 000					Weak (Dutch SDR)
23/07	945 000				[0720z (Dutch SDR)]	Weak
26/07	945 000					Weak

August 2019

0700z	16246kHz	0720z	18446kHz	0740z	19246kHz	
02/08	242 1 7571 87 88619 ... 17717 000 000				[0720/0740z Unworkable]	Weak (Dutch SDR)
09/08	242 000				[0720z Unworkable]	Weak
16/08	242 1 7140 34 36712 ... 04198 000 000					Weak (Dutch SDR)
27/08	242 1 7140 34 36712 ... 04198 000 000				[0720z (Dutch SDR)]	Weak
30/08	242 1 7140 34 36712 ... 04198 000 000				[0700z local Rx]	Weak (Dutch SDR)

Tuesday/Friday

July 2019

1100z	19252kHz	1120z	17242kHz	1140z	16252kHz	
05/07	242 1 8783 5 72250 60130 38086 81009 48295 000 000					Weak
09/07	242 1 9383 112 54941 ... 00697 000 000				[1100z NRH]	Weak (Dutch SDR)
19/07	242 1 9383 112 54941 ... 00697 000 000					Weak
23/07	242 000				[1100z NRH]	Weak
26/07	242 000					Weak
30/07	242 1 7362 91 83440 ... 87160 000 000				[1100z (Dutch SDR)]	Weak

August 2019

1100z	20146kHz	1120z	18246kHz	1140z	16346kHz	
06/08	123 000					Weak (Dutch SDR)
09/08	123 000				[1100z NRH]	Weak
16/08	123 1 211 54 33280 ... 80502 000 000					Weak
20/08	123 1 6802 98 40960 ... 43581 000 000					Weak
27/08	123 000					Weak

Thursday/Saturday

July 2019

1410z	13562kHz	1430z	14862kHz	1450z	16162kHz	
18/07	441 000					Weak (Dutch SDR)
25/07	441 000					Weak

August 2019

1410z 13519kHz 1430z 14819kHz 1450z 15919kHz

01/08 288 1 9530 78 43872 ... 17904 000 000 AB THU

288 288 288 1 9530 78 9530 78
43872 12588 06915 12945 37606 65175 66219 82213 02453 57650
27088 04482 62392 45615 20813 59090 82950 80824 03193 49800
99257 87229 10971 30308 96190 76740 62227 43974 83661 62947
57440 62389 69925 81502 66823 36542 10674 64611 43894 71915
09093 23191 54797 96852 58460 63616 33561 88889 53905 93405
59371 42832 02268 74156 75957 66190 37044 22072 78867 97865
47523 74731 80543 69124 76678 16985 75627 70843 81914 2753
29786 84029 15515 25638 36418 48062 83837 17904 000 000
Courtesy AB

03/08 288 1 9530 78 43872 ... 17904 000 000 Weak (Dutch SDR)

10/08 288 000 Weak

17/08 288 000 Weak

29/08 288 1 8366 84 12642 ... 01659 000 000 Weak

31/08 288 1 8366 84 12642 ... 01659 000 000 Weak

PoSW's logs and analysis:

Saturday + Sunday Schedule, 0600 UTC Start:-

6-July-19, Saturday:- 0600 UTC, 9064 kHz, "024 024 024 1", DK/GC "597 49" x 2, indicating around "7" on the S-meter.
0620 UTC, 10264 kHz, also S7.
0640 UTC, 11464 kHz, third sending, about one S-point stronger.

7-July-19, Sunday:- 0600 UTC, 9064 kHz, "024" and "597 49" again.
0620 UTC, 10264 kHz, and 0640 UTC, 11464 kHz, the repeats, all reasonable signals.

13-July-19, Saturday:- 0600 UTC, 9064 kHz, and 0620 UTC, 10264 kHz, "024 024 024 000".

20-July-19, Saturday:- 0600 UTC, 9064 kHz, weak, "024 024 024 000".
0620 UTC, 10264 kHz, stronger.

21-July-19, Sunday:- 0600 UTC, 9064 kHz, weak, and 0620 UTC, 10264 kHz, stronger, "024 024 024 000".

3-Aug-19, Saturday:- 0600 UTC, 9064 kHz, "024 024 024 000" S7.
0620 UTC, 10264 kHz, weaker.

18-Aug-19, Sunday:- 0600 UTC, 9064 kHz, "024 024 024 1" for a "full message", DK/GC "838 49" x 2.
0620 UTC, 10264 kHz, and 0640 UTC, 11464 kHz, all three transmissions S7.

Monday + Wednesday Schedule, 1900 UTC Start:-

1-July-19, Monday:- 1900 UTC, 16263 kHz, "273 273 273 000", peaking around S7 with QSB.
1920 UTC, 14763 kHz, second sending, slightly stronger.

3-July-19, Wednesday:- 1904 UTC, 16263 kHz, "full message" in progress, missed start having lost track of the time – as you do. Strong signal, ended around 1912:30s UTC.
1920 UTC, 14763 kHz, "273 273 273 1", DK/GC "940 100" x 2, strong.
1940 UTC, 13363 kHz, third sending, S9+, very strong signal.

8-July-19, Monday:- 1900 UTC, 16263 kHz, "273 273 273 1", very weak signal in contrast with last week, unreadable.
1920 UTC, 14763 kHz, second sending much stronger, S8 and peaking S9, "273 273 273 1". DK/GC "687 120" x 2.
1940 UTC, 13363 kHz, over S9.

15-July-19, Monday:- 1900 UTC, 16263 kHz, "273" and "687 120" again, back to being a strong signal, pushing the S-meter well over the "9".
1920 UTC, 14763 kHz, and 1940 UTC, 13363 kHz, both over S9.

17-July-19, Wednesday:- 1900 UTC, 16263 kHz, "273" and "687 120" again, strong signal.
1920 UTC, 14763 kHz, and 1940 UTC, 13363 kHz, both strong.

29-July-19, Monday:- 1900 UTC, 16263 kHz, "273 273 273 000", S9+, very strong.
1920 UTC, 14763 kHz, slightly weaker – but not by much.

7-Aug-19, Wednesday:- 1900 UTC, 16147 kHz, very weak signal on the expected frequency
for the first sending of this schedule in August, unreadable.
1920 UTC, 14647 kHz, "164 164 164 000", weak but readable – just.

14-Aug-19, Wednesday:- 1900 UTC, 16147 kHz, "164 164 164 000", very strong signal unlike on the 7th.
1920 UTC, 14647 kHz, strong.

19-Aug-19, Monday:- 1900 UTC, 16147 kHz, S6 to S7, and 1920 UTC, 14647 kHz, weaker,
"164 164 164 000".

21-Aug-19, Wednesday:- 1900 UTC, 16147 kHz, "164 164 164 000", S4 to S5.
1920 UTC, 14697 kHz, stronger signal this evening, around S8.

Sunday + Wednesday Schedule, 1700 UTC Start:-

This schedule made the change from AM to SSB and a change of frequencies in July of last year, so now one year on and following the usual practice with E07 the frequencies in any month should be predictable from now on.

3-July-19, Wednesday:- 1700 UTC, 12223 kHz, strong signal, “201 201 201 1”, DK/GC “5700 60” x 2.
1720 UTC, 11023 kHz, second sending, around S8.
1740 UTC, 10123 kHz, also S8.

7-July-19, Sunday:- 1700 UTC, 12223 kHz, “201 201 201 000”, peaking around S9.
1720 UTC, 11023 kHz, slightly weaker.

10-July-19, Wednesday:- 1700 UTC, 12223 kHz, over S9, and 1720 UTC, 11023 kHz, S7, “201 201 201 000”.

17-July-19, Wednesday:- 1700 UTC, 12223 kHz, “201 201 201 1”, DK/GC “278 81” x 2, strong signal.
1720 UTC, 11023 kHz, and 1740 UTC, 10123 kHz, both weaker.

21-July-19, Sunday:- 1700 UTC, 12223 kHz, “201 201 201 1”, DK/GC “8742 43” x 2, S9 signal, a relatively short message, total transmission time just under seven minutes.
1720 UTC, 11023 kHz, and 1740 UTC, 10123 kHz, both around S7.

31-July-19, Wednesday:- 1700 UTC, 12223 kHz, “201 201 201 000”, peaking S9.
1720 UTC, 11023 kHz, S6 to S7.

4-Aug-19, Sunday:- 1700 UTC, 13397 kHz, “316 316 316 000”, S6 to S7.
1720 UTC, 12197 kHz, over S9.

7-Aug-19, Wednesday:- 1700 UTC, 13397 kHz, and 1720 UTC, 12197 kHz, “36 316 316 000”.

14-Aug-19, Wednesday:- 1700 UTC, 13397 kHz, “316 316 316 1” for a “full message”, DK/GC “231 57” x 2, S5 to S7.
1720 UTC, 12197 kHz, over S9.
1740 UTC, 10697 kHz, S8.

18-Aug-19, Sunday:- 1700 UTC, 13397 kHz, “316 316 316 1”, DK/GC “207 30” x 2, another short message, ended around 1705:30s UTC. 5F groups 11 and 15 were the same, “36170”.
1720 UTC, 12197 kHz, and 1740 UTC, 10697 kHz, the repeats.

21-Aug-19, Wednesday:- 1700 UTC, 13397 kHz, “316 316 316 1”, DK/GC “536 139” x 2, competing with a wide-band pulse signal extending from approx 13375 to 13400, over-the-horizon radar, perhaps.
1720 UTC, 12197 kHz, strong signal.
1740 UTC, 10697 kHz, S8

E07a

We start with PoSW's logs and analysis:

Friday Schedule, 1510 UTC Start:-

5-July-19:- 1510 UTC, 12213 kHz, “241 241 241 1 39794”, a full message, the first for several weeks - perhaps since the month of March. DK/GC “9835 57” x 2, good signal.

1530 UTC, 11413 kHz, second sending, slightly weaker signal.

1550 UTC, 10113 kHz, third sending, weakest of the three, inside the 30 metre amateur band, weak CW on a close frequency.

12-July-19:- 1510 UTC, 12213 kHz, “241 39794 9835 57” again.

1530 UTC, 11413 kHz, and 1550 UTC, 10113 kHz, all three transmissions indicating around S8.

19-July-19:- 1510 UTC, 12213 kHz, and 1530 UTC, 11413 kHz, “241 241 241 000”, back in the old routine.

2-Aug-19:- 1510 UTC, 12213 kHz, “241 241 241 000”.

1530 UTC, 11413 kHz, second sending, both around S7.

9-Aug-19:- 1510 UTC, 12213 kHz, and 1530 UTC, 11413 kHz, both good signals, “241 241 241 000”.

23-Aug-19:- 1510 UTC, 12213 kHz, and 1530 UTC, 11413 kHz, 2241 241 241 000”.

Saturday Schedule, 0800 UTC Start:-

6-July-19:- 0800 UTC, 12173 kHz, “198 198 198 1 39794”, DK/GC “9835 57” x 2, it has been observed that this E07a schedule is always a repeat of the previous day's 1510z sending and thus it was today. Weak signal.

0820 UTC, 13973 kHz, second sending, also weak.

0840 UTC, 14873 kHz, third sending, the strongest.

13-July-19:- 0820 UTC, 13973 kHz, missed the 0800z sending, “198 39794” and “9835 57” again.

0840 UTC, 14873 kHz, both transmissions around S6.

20-July-19:- 0800 UTC, 12173 kHz, and 0820 UTC, 13973 kHz, “198 198 198 000”.

3-Aug-19:- 0800 UTC, 12177 kHz, “148 148 148 000”, strong “XJT” noise-maker on frequency.
0820 UTC, 13477 kHz, interference from a rapidly swept carrier.

10-Aug-19:- 0800 UTC, 12177 kHz, and 0820 UTC, 13477 kHz, “148 148 148 000”.

Wednesday Schedule, 2000 UTC Start:-

3-July-19:- 2000 UTC, 12166 kHz, “172 172 172 1 16865”, DK/GC “230 73” x 2, very strong signal.
 2020 UTC, 10766 kHz, second sending, strong.
 2040 UTC, 9266 kHz, also strong.

10-July-19:- 2000 UTC, 12166 kHz, “172....16865” and “230 73” again, very strong.
 2020 UTC, 10766 kHz, and 2040 UTC, 9266 kHz, both strong.

17-July-19:- 2000 UTC, 12166 kHz, and 2020 UTC, 10766 kHz, both very strong, “172 172 172 000”.

7-Aug-19:- 2000 UTC, 12166 kHz, “172 172 172 000”, very strong.
 2020 UTC, 10766 kHz, also very strong.

14-Aug-19:- 2000 UTC, 12166 kHz, “172 172 172 1 30894”, DK/GC “338 77” x 2, very strong signal.
 2020 UTC, 10766 kHz, and 2040 UTC, 9266 kHz, repeats, both very strong.

Others’ logs

Wednesday**July 2019**

2000z	12166kHz	2020z	10766kHz	2040z	9266kHz
03/07	172 1 16865 230 73 84980 ... 89492 000 000				Strong
10/07	172 1 16865 230 73 84980 ... 89492 000 000				Very strong
17/07	172 000				Strong
24/07	172 000				Very strong
31/07	172 000				Strong

August 2019

07/08	172 000				Very strong
14/08	172 1 30894 338 77 29466 ... 24957 000 000				Very strong
21/09	172 1 30894 338 77 29466 ... 24957 000 000				Very strong
28/08	172 000				Very strong

Thursday**July 2019**

0430z	7933kHz	0450z	9133kHz	0510z	10233kHz
04/07	912 1 16865 230 73 84980 ... 89492 000 000			[0510z Weak]	Strong
11/07	912 1 16865 230 73 84980 ... 89492 000 000				Strong
18/07	912 000				Very strong
25/07	912 000				0430z Strong, 0450z Weak

August 2019

01/08	NOT MONITORED				
08/08	912 000			[0450z NRH; CW: 'ZLJ']	Very strong
15/08	912 1 30894 338 77 29466 ... 24957 000 000			[0510z Fair, noisy]	Very strong
22/09	912 1 30894 338 77 29466 ... 24957 000 000				Very strong
29/08	912 000				Very strong

Friday

July 2019

1510z	12213kHz	1530z	11413kHz	1550z	10113kHz		
05/07	241 1 39794 9835 57 96171 ... 64268 000 000					[1510z local Rx]	Weak (DutchSDR)
12/07	241 1 39764 9835 57 96171 ... 64268 000 000					[1540z Local QRM3]	Strong QSB2
19/07	241 000						Weak
26/07	241 000						Weak

August 2019

1510z	12166kHz	1530z	11413kHz	1550z	10113kHz		
02/08	241 000						Weak
09/08	241 000					[1510z Fair (Dutch SDR)]	Weak, Local Rx
17/08	241 000						Weak
30/08	241 000						Fair

Saturday

July 2019

0800z	12173kHz	0820z	13973kHz	0840z	14873kHz		
06/07	198 1 39794 9835 57 96171 ... 64268 000 000						Weak
13/07	198 1 39764 9835 57 96171 ... 64268 000 000					[0800z Fair]	Weak
20/07	198 000						Weak
27/07	198 000					[0800z QSB3]	Weak

August 2019

0800z	12177kHz	0820z	13477kHz	0840z	14877kHz		
03/08	148 000						Weak
10/08	148 000						Weak
17/08	148 000						Weak
31/08	148 000						Weak

E11 log July/August

4783kHz	1705z	10/07 [395/00] Out 1708z S2		Malc	WED
	1705z	20/07 [392/00] Out 1708z S2		Malc	SAT
	1705z	24/07 [392/00] Out 1708z S4		Malc	WED
	1705z	31/07 [394/00] Out 1708z S2		Malc	WED
	1705z	03/08 [390/00] Out 1708z S5		Malc	SAT
	1705z	07/08 [396/00] Out 1708z S3		Malc	WED
	1705z	10/08 [295/00] Out 1708z S3		Malc	SAT
	1705z	21/08 [392/00] Out 1708z S3		Malc	WED
	1705z	24/08 [390/00] Out 1708z S3		Malc	SAT
	1705z	28/08 [390/00] Out 1708z S4 +QRM		Malc	WED
	1705z	31/08 [394/00] Out 1708z S3		Malc	SAT
4909kHz	0820z	04/07 [439/00] Out 0823z S3 (Dutch SDR)		Malc	THU
	0820z	11/07 [435/35 19743.....00853] Out 0830z S2 (Dutch SDR)		Malc	THU
	0820z	25/07 [439/00] Out 0823z S2 (Dutch SDR)		Malc	THU
	0820z	15/08 [439/00]		RNGB	THU
	0820z	16/08 [436/00] Good (Dutch SDR)		RNGB	FRI
	0820z	22/08 [432/37 38151.....91103] Out 0830z S2 (Dutch SDR)		Malc	THU

5082KHz	1930z	07/07 [367/001 Out 1933z S3	Malc	SUN
	1930z	20/07 [364/00] Out 1933z S7	Malc	SAT
	1930z	21/07 [363/00] Out 1933z S3	Malc, Gary H	SUN
	1930z	28/07 [366/00] Out 1933z S5	Malc	SUN
	1930z	03/08 [363/00] Out 1933z S3	Malc	SAT
	1930z	04/08 [367/00] Out 1933z S5	Malc	SUN
	1930z	10/08 [365/00] Out 1933z S5	Malc	SAT
	1930z	11/08 [364/00] Out 1933z S4	Malc	SUN
	1930z	18/08 [363/36 48145 37646 71241 73192 90589 14246 80920.....4360136266] Out 1940z S6	Gary H, Malc	SUN
	1910z	24/08 [367/00] Out 1933z S3	Malc	SAT
	1930z	31/08 [565/00] Out 1933z S5	Malc	SAT
5149kHz	1130z	07/08 [121/23 Attention 33256 35565 23458 33563 14733 56533 35355 33839 34436 35347 39835 9832 13435 36983 73536 34321 32135 36393 98333 43213 53839 73643 536.3] Attention (message repeated) Out An exercise or for real? Lots of 3's and a silence instead of a letter on two places, on both readings and the repeat. The dot marks the silence.	Ary	TUE
5371kHz	1605z	07/07 [233/00] Out 1608z S2	Malc	SUN
	1605z	09/07 [237/00] Out 1608z S3	Malc	TUE
	1605z	21/07 [236/35 27102.....13070] Out 1615z S2	Malc	SUN
	1605z	23/07 [230/00] Out 1608z S2	Malc	TUE
	1605z	28/07 [235/00] Out 1608z S2	Malc	SUN
	1605z	30/07 [232/00] Out 1608z S2	Malc	TUE
	1605z	04/08 [232/00] Out 1608z S2	Malc	SUN
	1605z	06/08 [233/00] Out 1608z S3	Malc	TUE
	1605z	11/08 [236/00] Out 1608z S2	Malc	SUN
	1605z	20/08 [230/00] Out 1608z S4 (Dutch SDR)	Malc	TUE
	1605z	27/08 [235/00] Out 1608z S2	Malc	TUE
5409kHz	1530z	05/07 [527/39 07154.....56243] Out 1541z S4	Malc	FRI
	1530z	19/07 [528/00] Out 1533z S3	Malc	FRI
	1530z	26/07 [527/00] Out 1533z S2	Malc	FRI
	1530z	29/07 [524/00] Out 1543z S3 (Dutch SDR)	Malc	MON
	1530z	02/08 [522/001 Out 1533z S2	Malc	FRI
	1530z	05/08 [525/00] Out 1533z S9 (Dutch SDR)	Malc	MON
	1530z	09/08 [520/00] Out 1533z S2	Malc	FRI
	1530z	16/08 [521/00] Out 1533z S2	Malc	FRI
	1530z	19/08 [522/31 94061.....96274] Out 1540z S4 (Dutch SDR)	Malc	MON
5737kHz	0805z	06/07 [315/00] Out 0808z S2	Malc	SAT
	0805z	07/07 [313/00] Out 0808z S2	Malc	SUN
	0805z	21/07 [311/00] Out 0803z S3 (Dutch SDR)	Malc, dmhz	SUN
	0805z	27/07 [313/00] Out 0808z S2	Malc	SAT
	0805z	03/08 [315/00] Out 0808z S2	Malc, RNGB	SAT
	0805z	04/08 [311/00] Out 0808z S2	Malc	SUN
	0805z	10/08 [310/00] Out 0808z S2	Malc	SAT
	0805z	11/08 [316/00] Out 0808z S2	Malc	SUN
	0800z	17/08 [316/33 85935.....44195] Out 0815z S3	Malc	SAT
	0805z	18/08 [316/33 85935.....etc] Repeat of Saturday	Malc	SUN
	0805z	24/08 [312/00] Fair	RNGB	SAT
	0805z	25/08 [313/00] Out 0808z S2 (Dutch SDR)	Malc, RNGB	SUN
	0805z	31/08 [314/00] Out 0808z S2	Malc	SAT
6304kHz	1205z	03/07 [463/38 96695.....06160] Out 1216z S3 (Dutch SDR)	Malc	WED
	1205z	09/07 [462/00] Out 1208z S2	Malc	TUE
	1205z	10/07 [469/00] Out 1208z S2 (Dutch SDR)	Malc	WED
	1205z	24/07 [463/00] Out 1208z S2	Malc	WED
	1205z	23/07 [465/001 Out 1208z S2 (Dutch SDR)	Malc	TUE
	1205z	30/07 [469/00] Out 1208z S3 (Dutch SDR)	Malc	TUE
	1205z	31/07 [466/00] Out 1208z S2 (Dutch SDR)	Malc	WED
	1205z	06/08 [465/00] Out 1208z S2	Malc	TUE
	1205z	07/08 [462/00] Out 1208z S2	Malc	WED
	1205z	14/08 [463/00]	RNGB	WED
	1205z	20/08 [463/35 07354.....92444] Out 1210z S3 (Dutch SDR)	Malc	TUE
	1205z	21/08 [463/35 07354.....etc] Repeat of Tuesday	Malc	WED
	1205z	27/08 [461/00] Out 1208z S3 (Dutch SDR)	Malc	TUE
6480kHz	0710z	06/07 [496/00] Out 0713z S2	Malc	SAT
	0710z	07/07 [491/00] Out 0713z S3	Malc	SUN
	0710z	13/07 [491/35 16983 07086 73909 51187 12063 66483 34441 02670.....etc]	RNGB	SAT
	0710z	20/07 [496/00] Out 0713z S3 (Dutch SDR)	Malc	SAT

	0710z	27/07 [495/00] Out 0713z S2	Malc	SAT
	0710z	28/07 [497/00]	RNGB	SUN
	0710z	03/08 [497/35 35066.....36503] Out 0720z S2	Malc	SAT
	0710z	04/08 [497/35 35066.....36503] Out 0720z S2	Malc	SUN
	0710z	10/08 [492/00] Out 0713z S2	Malc	SAT
	0710z	18/08 [491/00] Out 0713z S2	Malc	SUN
	0710z	31/08 [495/00] Out 0713z S2	Malc	SAT
6923kHz	0930z	03/07 [271/00] Out 0933z S2	Malc	WED
	0930z	04/07 [279/00] Out 0933z S2	Malc	THU
	0930z	10/07 [275/00] Out 0933z S2	Malc, RNGB	WED
	0930z	11/07 [273/00] Out 0933z S2	Malc	THU
	0930z	18/07 [279/39 05690 94445 04216 64842 43925 05425 92780 63080.....40258 90340]	RNGB, Malc	THU
	0930z	24/07 [271/00]	dhmz, Malc	WED
	0930z	25/07 [273/00] Out 0933z S4 (Dutch SDR)	Malc	THU
	0930z	31/07 [271/00] Out 0933z S2	Malc	WED
	0930z	04/08 [279/00]	RNGB	THU
	0930z	08/08 [273/00]	RNGB	THU
	0930z	08/08 [273/00] Out 0933z S2	Malc	THU
	0930z	14/08 [278/00]	RNGB	WED
	0930z	21/08 [275/36 36130.....35207] Out 0940z S2	Malc	WED
	0930z	22/08 [275/36 36130.....etc] Repeat of Wednesday	Malc	THU
	0930z	28/08 [276/00] Out 0933z S2	Malc	WED
	0930z	29/08 [273/00] Out 0933z S4 (Dutch SDR)	Malc	THU
7449kHz	0900z	08/07 [538/00]	Ary	MON
	0900z	10/07 [537/00] Good	RNGB	WED
	0900z	17/07 [534/00]	RNGB	WED
	0900z	22/07 [533/39 07522.....38930] Out 0911z S4 (Dutch SDR)	Malc	MON
	0900z	24/07 [533/39 07522.....etc] Repeat of Monday	Malc	WED
	0900z	29/07 [534/00] Out 0903z S2	Malc	MON
	0900z	31/07 [537/00] Out 0903z S2	Malc	WED
	0900z	05/08 [532/00] Out 0903z S2	Malc	MON
	0900z	07/08 [538/00] Out 0903z S5 (Dutch SDR)	Malc	WED
	0900z	19/08 [530/00]	RNGB, Malc	MON
	0900z	21/08 [534/00] Out 0903z S3	Malc	WED
	0900z	26/08 [531/00] Out 0903z S3 (Dutch SDR)	Malc	MON
	0900z	28/08 [534/00] Out 0903z S2	Malc	WED
7600kHz	1900z	15/07 [644/00]	RNGB	MON
	1900z	18/07 [640/00] Out 1903z S3	Malc	THU
	1900z	22/07 [648/00] Out 1903z S4	Malc	MON
	1900z	25/07 [643/00] Out 1903z S3	Malc	THU
	1900z	29/07 [643/00] Out 1903z S3	Malc	MON
	1900z	05/08 [644/35 69956.....00395] Out 1910z S5	Malc	MON
	1900z	08/08 [644/35 69956 59963 14637 36379 07643 86013 05113 66017.....33609 00395] Out 1910z	Gary H, Malc	THU
	1900z	19/08 [647/00] Out 1903z S2	Malc	MON
	1900z	26/08 [649/00] Out 1903z S3	Malc	MON
	1900z	29/08 [640/00]	RNGB	THU
7863kHz	1625z	07/07 [978/00] Out 1728z S2	Malc	SUN
	1625z	10/07 [972/00] Out 1628z S3	Malc	WED
	1625z	14/07 [972/00]	Gary H	SUN
	1625z	21/07 [970/40 71937.....52719] Out 1636z S3	Malc	SUN
	1625z	24/07 [977/00]	dhmz, Malc	WED
	1625z	31/07 [970/00] Out 1628z S3	Malc	WED
	1625z	04/08 [976/00] Out 1628z S2	Malc	SUN
	1625z	07/08 [977/00] Out 1628z S2	Malc	WED
	1625z	11/08 [976/00] Out 1728z S3	Malc	SUN
	1625z	18/08 [970/00] Out 1728z S2	Malc	SUN
	1625z	21/08 [976/31 11445.....00066] Out 1635z S4	Malc	WED
	1625z	28/08 [972/00] Out 1628z S5	Malc	WED
7984kHz	1730z	20/07 [404/37 28342.....32993] Out 1741z S3	Malc	SAT
	1730z	03/08 [405/00] Out 1733z S4	Malc	SAT
	1730z	07/08 [403/32 71409.....50880] Out 1739z S3	Malc	WED
	1730z	10/08 [403/32 71409.....etc] Repeat of Wednesday	Malc	SAT
8088kHz	1730z	04/07 [415/00] Out 1733z S6	Malc	THU
	1730z	11/07 [414/32 68894.....34197] Out 1740z S4	Malc	THU
	1730z	18/07 [416/00] out 1733z S4	Malc	THU
	1730z	08/08 [413/38 88101.....94655] Out 1741z S3	Malc	THU

8180kHz	1000z	02/07 [309/00]	Ary	TUE
	1000z	05/07 [306/00] Out 1003z S3	Malc	FRI
	1000z	09/07 [305/24 69860.....86125] Out 1008z S2	Malc	TUE
	1000z	19/07 [305/00] Out 1003z S2	Malc	FRI
	1000z	23/07 [308/00] Out 1003z S2	Malc	TUE
	1000z	26/07 [300/00] Out 1003z S2	Malc	FRI
	1000z	30/07 [308/00] Out 1003z S3	Malc	TUE
	1000z	02/08 [307/00] Out 1003z S3	Malc	FRI
	1000z	06/08 [305/00] Out 1003z S2	Malc, RNGB	TUE
	1000z	09/08 [309/00] Out 1003z S2	Malc	FRI
	1000z	16/08 [309/31 16372 46242 88586 58858 01576 86749 83933 66000 83219.....89718 82744]	RNGB, Malc	FRI
	1000z	20/08 [302/00] Out 1003z S2	Malc	TUE
	1000z	27/08 [308/00] Out 1003z S2	Malc	TUE
	1000z	30/08 [302/00] Out 1003z S2	Malc	FRI
8545kHz	1045z	03/07 [690/00] Out 1048z S2	Malc	WED
	1045z	22/07 [690/00] Out 1048z S3	Malc	MON
	1045z	24/07 [690/00] Out 1048z S2	Malc	WED
	1045z	29/07 [690/23 07446.....21243] Out 1048z S6 (Dutch SDR)	Malc	MON
	1045z	31/07 [690/23 07446.....etc] Repeat of Monday	Malc	WED
	1045z	05/08 [693/00] Out 1048z S4	Malc	MON
	1045z	07/08 [690/00] Out 1048z S5 (Dutch SDR)	Malc	WED
	1045z	19/08 [691/00] Out 1048z S2	Malc	MON
	1045z	21/08 [696/00] Out 1048z S3	Malc	WED
8680kHz	0700z	02/07 [576/00]	RNGB	TUE
	0700z	05/07 [570/00] Out 0703z S2	Malc, RNGB	FRI
	0700z	09/07 [574/00] Out 0703z S2	Malc	TUE
	0700z	19/07 [577/00] Out 0703z S2	Malc	FRI
	0700z	23/07 [573/31 94676.....56171] Out 0710z S6	Malc	TUE
	0700z	26/07 [573/31 94676.....etc] Repeat of Tuesday	Malc	FRI
	0700z	30/07 [570/00] Out 0703z S2	Malc	TUE
	0700z	02/08 [574/00] Out 0703z S2	Malc, RNGB	FRI
	0700z	06/08 [570/00] Out 0703z S2	Malc, RNGB	TUE
	0700z	09/08 [573/00] Out 0703z S2	Malc	FRI
	0700z	13/08 [579/00]	RNGB	TUE
	0700z	16/08 [575/00] Out 0703z S2	Malc, RNGB	FRI
	0700z	20/08 [576/00]	RNGB, Malc	TUE
	0700z	27/08 [574/36 22283.....39334] Out 0710z S2	Malc, RNGB	TUE
	0700z	30/08 [574/36 22283 56351 85791 44625 78190 08115 01327 29199.....86857 39334]	RNGB	FRI
9610kHz	0745z	01/07 [268/32 78494 81070 53743 46534 62665 53428 24694.....99592 69844]	RNGB	MON
	1910z	05/07 [618/36 81270.....80291] Out 1920z S6 QRM S9	Malc	FRI
	1910z	07/07 [618/36 82170.....etc] Repeat of Friday	Malc	SUN
	0745z	15/07 [268/00] Good	RNGB	MON
	1910z	19/07 [612/00] Out 1913z S3 + QRM	Malc	FRI
	1910z	21/07 [616/00]	Gary H	SUN
	0745z	22/07 [264/000 Out 0748z S2	Malc	MON
	1910z	26/07 [618/001 Out 1913z S3 + S9 AM QRM	Malc	FRI
	1910z	28/07 [618/00] Out 1913z S3 + S9 QRM	Malc	SUN
	1910z	02/08 [616/00] Out 1913z S3 + S9 QRM from B/C station	Malc	FRI
	1910z	04/08 [617/00] Out 1913z S4 + S6 QRM	Malc	SUN
	0745z	05/08 [266/00] Out 0748z S2	Malc	MON
	1910z	09/08 [616/00] Out 1913z S4 + S9 QRM	Malc	FRI
	1910z	11/08 [611/00] Out 1913z S4 + QRM S9	Malc	SUN
	1910z	16/08 [610/00] Out 1913z S7 + QRM S9	Malc, RNGB	FRI
	1910z	18/08 [612/00] Out 1913z S3 QRM+8	Malc	SUN
	0745z	19/08 [264/00] Out 0748z S3	Malc, RNGB	MON
	0745z	26/08 [269/40 55223.....84988]	Malc, RNGB	MON
10356kHz	1530z	04/07 [268/32 78494.....69844] Out 1540z S3	Malc	THU
	1530z	11/07 [267/00] Out 1533z S2	Malc	THU
	1530z	18/07 [264/00] Out 1533z S3	Malc	THU
	1530z	25/07 [266/00] Out 1533z S3	Malc	THU
	1530z	08/08 [267/00] Out 1533z S2	Malc	THU
	1530z	29/08 [269/40 55223.....84988] Out 1541z S4	Malc	THU
10429khz	0715z	05/07 [634/33 95100 67393 37987 25459 13520 37363 79541.....71710 70765] Out 0725z S2	RNGB, Malc	FRI
	0715z	09/07 [631/00] Out 0718z S2	Malc, RNGB	TUE
	0715z	12/07 [636/00]	RNGB	FRI

	0715z	16/07 [639/00]		RNGB	TUE
	0715z	19/07 [635/00] Out 0718z S2		Malc	FRI
	0715z	23/07 [636/00] Out 0718z S2		Malc	TUE
	0715z	26/07 [631/00] Out 0718z S2		Malc	FRI
	0715z	30/07 [631/00] Out 0718z S2		Malc	TUE
	0715z	02/08 [639/00] Out 0718z S2		Malc, RNGB	FRI
	0715z	06/08 [634/31 43101 99995 13580 25608 43237 81362 80392 39470.....72562]		RNGB	TUE
	0715z	09/08 [634/31 43101.....72562] Out 0724z S3		Malc	FRI
	0715z	13/08 [631/00]		RNGB	TUE
	0715z	16/08 [639/00] Out 0718z S3		Malc	FRI
	0715z	20/08 [631/00] Out 0718z S2		Malc, RNGB	TUE
	0715z	27/08 [633/00] Out 0718z S4 (Dutch SDR)		Malc	TUE
	0715z	30/08 [636/00]		RNGB, Malc	FRI
11092kHz	1300z	04/07 [583/00] Out 1303z S2		Malc	THU
	1300z	11/07 [583/32 06132.....56553] Out 1310z S4 (Dutch SDR)		Malc	THU
	1300z	18/07 [589/00] Out 1303z S2		Malc	THU
	1300z	25/07 [587/00] Out 1303z S2		Malc	THU
	1300z	27/07 [580/00] Out 1303z S3		Malc	SAT
	1300z	03/08 [589/00] Out 1303z S8 (Dutch SDR)		Malc	SAT
11559kHz	0600z	01/07 [189/00] Fair		RNGB	MON
	0600z	05/07 [189/00] Out 0603z S3		Malc	FRI
	0600z	08/07 [183/00] Good		RNGB	MON
	0600z	15/07 [184/00] Good		RNGB	MON
	0600z	12/08 [189/00] Fair		RNGB	MON
	0600z	19/08 [189/00]		RNGB	MON
	0600z	26/08 [185/26 55200 18889 58533 26639 17268 22887 43518.....32686 88389]		RNGB	MON
12153kHz	0845z	04/07 [154/00] Out 0848z S3		Malc	THU
	0845z	09/07 [154/00] Out 0848z S2		Malc	TUE
	0845z	11/07 [150/00] Out 0848z S2		Malc	THU
	0845z	18/07 [157/35 27309 83016 91121 40025 71728 91820 78220 09990.....95755 31202]		RNGB, Malc	THU
	0845z	23/07 [155/00] Out 0848z S3		Malc	TUE
	0845z	25/07 [159/00] Out 0848z S2		Malc	THU
	0845z	30/07 [156/00] Out 0848z S4		Malc	TUE
	0845z	06/08 [157/00] Out 0848z S2		Malc, RNGB	TUE
	0845z	08/08 [150/00]		RNGB, Malc	THU
	0845z	20/08 [150/27 06875.....41509] Out 0854z S2		Malc	TUE
	0845z	22/08 [150/27 06875.....etc] Repeat of Tuesday		Malc	THU
	0845z	27/08 [157/00] Out 0848z S5		Malc	TUE
	0845z	29/08 [150/00] Out 0848z S2		Malc	THU
12229kHz	1650z	05/07 [926/00] Out 1653z S3		Malc	FRI
	1650z	07/07 [921/00] Out 1653z S3		Malc	SUN
	1650z	14/07 [925/33 62886 36786 16060 79650 24284 76856 48851 64796.....94989 25846]		Gary H	SUN
	1650z	19/07 [920/00] Out 1653z S3		Malc	FRI
	1650z	21/07 [920/00] Out 1653z S4		Malc	SUN
	1650z	26/07 [927/00] Out 1653z S3		Malc	FRI
	1650z	02/08 [927/00] Out 1653z S3		Malc	FRI
	1650z	04/08 [921/00] Out 1653z S2 (Dutch SDR)		Malc	SUN
	1650z	09/08 [927/34 04268.....84643] Out 1700z S3		Malc	FRI
	1650z	11/08 [927/34 04268.....etc] Repeat of Friday		Malc	SUN
	1650z	16/08 [920/00] Out 1653z S4		Malc	FRI
	1650z	18/08 [925/00] Out 1653z S3		Malc	SUN
	1650z	30/08 [924/00] Out 1653z S2		Malc	FRI
12984kHz	1345z	09/07 [919/00] Out 1348z S3		Malc	TUE
	1345z	23/07 [911/30 44483.....98288] Out 1345z S2		Malc	TUE
	1345z	27/07 [911/00 44483.....98288] Out 1348z S2		Malc	SAT
	1345z	30/07 [919/00] Out 1348z S2		Malc	TUE
	1345z	03/08 [914/00] Out 1348z S9 (Dutch SDR)		Malc	SAT
	1345z	06/08 [910/00] Out 1348z S3		Malc	TUE
	1345z	17/08 [914/00] Out 1348z S3		Malc	SAT
	1345z	20/08 [914/00] Out 1348z S3		Malc	TUE
	1345z	27/08 [918/35 76333.....79754] Out 1355z S3		Malc	TUE
	1345z	31/08 [918/35 76333.....etc] Repeat of Tuesday		Malc	SAT
13424kHz	0645z	02/07 [512/00]		RNGB	TUE
	0645z	04/07 [518/00] Out 0648z S3		Malc, RNGB	THU
	0645z	09/07 [518/00] Out 0648z S3		Malc, RNGB	TUE
	0645z	11/07 [511/00] Out 0648z S3		Malc, RNGB	THU

	0645z	16/07 [515/33 49166 51763 47881 81026 44809 15179 02991 98397.....84133 21606]	RNGB	TUE
	0645z	18/07 [515/33 49166.....etc] Repeat of Tuesday	Malc	THU
	0645z	23/07 [514/00] Out 0648z S3	Malc	TUE
	0645z	25/07 [512/00] Out 0648z S2	Malc	THU
	0645z	30/07 [518/00] Out 0648z S3	Malc	TUE
	0645z	06/08 [515/00] Out 0648z S5	Malc, RNGB	TUE
	0645z	08/08 [510/00] Out 0648z S2 (Dutch SDR)	Malc	THU
	0645z	13/08 [519/31 34598 14612 53277 11587.....etc]	RNGB	TUE
	0645z	20/08 [519/00] Out 0748z S5	Malc	TUE
	0645z	22/08 [512/00]	RNGB, Malc	THU
	0645z	27/08 [515/00] Out 0648z S3	Malc	TUE
	0645z	29/08 [514/00] Out 0648z S5	Malc	THU
14410kHz	1745z	01/07 [248/32 59336 58572 10196 48044 07773 65212 63527 01597.....64772 13762]	RNGB	MON
	1745z	07/07 [248/32 59336.....13762] Out 1755z S2	Malc	SUN
	1745z	21/07 [247/00] Out 1748z S4	Malc	SUN
	1745z	22/07 [246/00] Out 1748z S2 (Dutch SDR)	Malc	MON
	1745z	28/07 [244/00] Out 1748z S3	Malc	SUN
	1745z	29/07 [247/00] Out 1748z S5	Malc	MON
	1745z	04/08 [240/00] Out 1748z S2 (Dutch SDR)	Malc	SUN
	1745z	05/08 [247/00] Out 1748z S5	Malc	MON
	1745z	11/08 [240/00] Out 1748z S3	Malc	SUN
	1745z	18/08 [242/00] Out 1748z S2 (Dutch SDR)	Malc	SUN
	1745z	19/08 [246/35 92603.....77840] Out 1655z S2 (Dutch SDR)	Malc	MON
	1745z	26/08 [248/00] Out 1748z S3	Malc	MON
14575kHz	1645z	04/07 [332/00] Out 1648z S2	Malc	THU
	1645z	09/07 [332/00] Out 1648z S3	Malc	TUE
	1645z	11/07 [330/00] Out 1648z S2	Malc, RNGB	THU
	1645z	16/07 [334/00] Out 1648z S2	Malc	TUE
	1645z	18/07 [330/00]	RNGB	THU
	1645z	23/07 [333/35 21184.....59468] Out 1655z S3	Malc	TUE
	1645z	25/07 [336/50 08385 14166 19852 07545 21224 05365 46373.....84983 71641] Out 1657z S2	Ary, Malc	THU
	1645z	06/08 [337/00] Out 1648z S1	Malc	TUE
	1645z	08/08 [335/00] Out 1648z S2	Malc	THU
	1645z	27/08 [338/00] Out 1648z S3	Malc	TUE
15720kHz	0745z	03/07 [343/00] Out 0748z S3	Malc	WED
	0745z	05/07 [347/00] Out 0748z S2 (Dutch SDR)	Malc, RNGB	FRI
	0745z	10/07 [343/00] Out 0748z S3	Malc, RNGB	WED
	0745z	19/07 [346/37 90676.....66525] Out 0756z S3	Malc	FRI
	0745z	24/07 [344/00] Out 0748z S2	Malc	WED
	0745z	26/07 [344/00] Out 0748z S2	Malc	FRI
	0745z	31/07 [347/00] Out 0748z S3	Malc	WED
	0745z	02/08 [342/00] Out 0748z S2	Malc	FRI
	0745z	07/08 [349/00] Fair (Dutch SDR)	RNGB, Malc	WED
	0745z	09/08 [246/00] Out 0748z S2	Malc	FRI
	0745z	16/08 [342/00] Out 0748z S2	Malc, RNGB	FRI
	0745z	21/08 [349/38 51418.....22150] Out 0755z S3	Malc	WED
	0745z	28/08 [342/00] Out 0748z S3	Malc	WED
	0745z	30/08 [343/00] Out 0748z S2	Malc	FRI
15800kHz	0640z	01/07 [942/00]	RNGB	MON
	0640z	03/07 [942/00]	RNGB	WED
	0640z	08/07 [945/00]	RNGB	MON
	0640z	10/07 [949/00] Out 0643z S2	Malc, RNGB	WED
	0640z	15/07 [941/28 04886 73747 09029 84513 84494 85665 00119.....25943 18900]	RNGB	MON
	0640z	22/07 [940/00] Out 0643z S2	Malc	MON
	0640z	24/07 [941/00] Out 0643z S4	Malc, RNGB	WED
	0640z	29/07 [948/00] Out 0643z S2	Malc	MON
	0640z	31/07 [944/00] Out 0643z S4	Malc	WED
	0640z	05/08 [941/00] Out 0643z S2	Malc	MON
	0640z	12/08 [944/00]	RNGB	MON
	0640z	19/08 [948/35 78012etc] Very weak (HK SDR)	RNGB	MON
	0640z	21/08 [943/35 78012.....etc] Repeat of Monday	Malc	WED
	0640z	26/08 [945/00] Out 0643z S2	Malc	MON
17378kHz	0820z	03/07 [130/00]	RNGB	WED
	0820z	09/07 [132/00] Out 0823z S2	Malc, RNGB	TUE
	0820z	10/07 [136/00] Out 0823z S3	Malc, RNGB	WED
	0820z	16/07 [134/00] Out 0823z S4 (Dutch SDR)	Malc	TUE
	0820z	24/07 [134/33 97329.....03396] Out 0830z S3	Malc	WED

0820z	30/07 [138/00] Out 0823z S3	Malc	TUE
0820z	31/07 [135/00] Out 0823z S4	Malc	WED
0820z	06/08 [138/00] Out 0823z S2	Malc, RNGB	TUE
0820z	07/08 [134/00] Out 0823z S2	Malc	WED
0820z	13/08 [135/00]	RNGB	TUE
0820z	14/08 [133/00] Weak	RNGB	WED
0820z	20/08 [131/00] Out 0823z S2	Malc	TUE
0820z	21/08 [130/00] Out 0823z S2	Malc, RNGB	WED
0820z	27/08 [133/31 69376.....76053] Out 0825z S2	Malc	TUE
0820z	28/08 [133/31 69376.....etc] Repeat of Tuesday	Malc	WED

E17z

E17z Training [From Ed Smith]

10240kHz 1402z 13/08 I.P. - 1421z QSB3 QRN4 USB (SDR Enschede) Edd TUE

274 (Rpt)...
 274 (Rpt) 510 25 47665 94092 48521 63888 9206...
 274 (Rpt) 48521 63888 92060 11749 70552 62936 57989 05371 65906 66610 20336 17301 88554 82045 36717 24042 75956 31670 40614 77249 40...

274 (Rpt) 40614 77249 40678 17976 21826 510 25 0 0 0...
 274 (Rpt) 40678 17976 21826 510 25 0 0 0 0

Recorded 10420kHz until 1505z and searched, no more activity found.

https://www.dropbox.com/s/htke278a677c4zg/websdr_recording_start_2019-08-13T14_02_12Z_10240.0kHz.wav?dl=0

Sent using AM, standard E17z format: I.D. repeated, D.K./G.C. sent twice and paired groups.
 10240kHz 1339z 19/08 I.P. - 1400z QSB3 QRN3 USB E.SMITH MON. SDR Enschede.

274 (Rpt) 88620 58069 61732 74537 57440 20597 23521...

Test Tones.

274 (Rpt) 57440 20597 23521 47660 92883 69901 29524 27228 25626 46891 23247 17099 94971 25926 65906 77244 813 20 0 0 0 0...

274 (Rpt)...

274 (Rpt) 25926 65906 77244 813 20 0 0 0 0 0

Recorded 10420kHz until 1408z, no more activity heard. Edd MON

Thursday

July 2019

0800z	16780kHz	0810z	12850kHz		
04/07	674 298 5 33640 38293 43330 32403 88443 298 5 00000			[Distorted USB]	Weak (Dutch SDR)
11/07	674 298 5 33640 38293 43330 32403 88443 298 5 00000				Weak (Dutch SDR)
18/07	674 801 5 ????? 64385 82707 06133 22536 801 5 00000			[0800z NRH]	Weak USB distorted
25/07	674 801 5 11171 64385 82707 06123 22536 801 5 00000			[Copied AM, USB distorted]	Weak

August 2019

0800z	16780kHz	0810z	12850kHz	[Best heard in narrow AM]		
01/08	217 948 5 46062 68672 97478 36685 30485 949 500000				RNGB/ER	THU
08/08	217 948 5 46062 68672 97478 36685 30485 948 5 00000			[0800z NRH]	Weak, USB Distorted	
22/08	217 958 6 40614 77249 40678 17976 21816 42997 958 6 00000			[AM, USB Distorted]	Weak (Dutch SDR)	
29/08	217 00000				Weak (USB Distorted)	

G06

PoSW leads us into the G06 logs:

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

8-July-19:- 1700 UTC, 5344 kHz, “145 145 145 00000”, tuned in at approx 1701z, voice stopped at 1704:20s UTC so probably started a few seconds after 1700.

1800 UTC, 5918 kHz, second sending, started about ten seconds after the hour.

5-Aug-19:- 1701 UTC, started late, 5344 kHz, “145 145 145 00000”, S7 to S8.

1800 UTC, 5915 kHz, difficult copy, very strong DRM- type signal.

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

11-July-19:- 6887 kHz, calling “842”, DK/GC “996 996 15 15”, an unusually short message, ended a bit before 1837 UTC.

8-Aug-19:- 6887 kHz, “842”, DK/GC “978 978 44 44”, ended after 1841 UTC, computer shut-down sound heard just before 1842 followed by mains hum.

22-Aug-19:- 6887 kHz, “842”, DK/GC “978 978 44 44”, as on the 8th, complete with computer sounds after the ending.

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

12-July-19:- 5943 kHz, call “218”, DK/GC “974 974 42 42”, so not a repeat of the previous day's short message. Ended after 1941 UTC, computer shut-down sound heard shortly afterwards.

9-Aug-19:- 5936 kHz, “218”, DK/GC “978 978 44 44”, same as yesterday's transmission complete with computer shut-down sound and hum after the ending. Started well after the half hour.

Others' logs

Monday

August 2019

0758z 7320kHz

19/08	329 00000	Weak
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1700z 5344kHz 1800z 5918kHz

08/07	145 00000	Weak
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Wednesday

July 2019

1200z 7531kHz 1300z 6981kHz

03/07	145 00000	Weak
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10/07	145 00000	Weak
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Thursday

July 2019

1300z 5890kHz

04/07	329 00000	Weak
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18/07	329 00000	Weak (Dutch SDR)
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1830z 6887kHz

11/07	842 996 15 15830 ... 18684 996 15 00000	Weak
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842 996 15
15830 48648 48642 68751 59874
18789 87542 97893 48972 89724
48644 18948 17425 88423 18684
996 15 00000 *Courtesy M8*

25/07	842 974 42 45671 ... 03856 974 42 00000	Weak
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August 2019

08/08 842 978 44 11532 ... 38780 978 44 00000 Weak

842 978 44
11532 37595 68553 78912 87463 94712 18514 02953 38414 13202
42325 23285 15802 65245 87462 78912 87463 94562 14712 84853
53067 42412 15464 75612 14352 34585 68553 23462 73459 41847
21250 37473 27624 17923 54332 81620 81244 41265 96183 74874
66753 78203 80329 38780
978 44 00000
Windows shut down sound *Courtesy Ary/HJH*

Friday

July 2019

1930z 5951kHz

26/07 218 978 44 11532 ... 38780 978 44 00000 Weak

August 2019

1930z 5936kHz

09/08 218 978 44 11532 ... 38780 978 44 00000 Weak

218 978 44
11532 37595 68553 78912 87463 94712 18514 02953 38414 13202
42325 23285 15802 65245 87462 78912 87463 94562 14712 84853
53067 42412 15464 75612 14352 34585 68553 23462 73459 41847
21250 37473 27624 17923 54332 81620 81244 41265 96183 74874
66753 78203 80329 38780
978 44 00000
Windows shut down sound *Courtesy Ary*

S06

S06 log July 2019

Daily Mon- Fri	0400z	15721kHz	No reports
Thursday	0830z	15875kHz	0930z 13469kHz
04/07	‘842’ 735 42 31291 79516 92983 81393 50810 69738 23507 12632 07840 97629 69559 40232 54309 81221 88169 58657 84449 75427 47716 54009 23842 61311 93059 23126 95437 18674 27174 75106 97417 61611 07724 11289 55594 41758 82019 86808 34530 48893 08791 201-8 19367 63590 735 42 00000		
11/07	‘842’ 619 45 54665 22121 06899 91641 61454 75120 61983 91634 54884 62612 76293 73119 90377 22524 88537 50013 64455 77-08 13200 35835 75158 53770 38515 52294 58734 37358 81163 71564 94783 64437 92428 15666 97047 96191 15398 61588 32030 50182 38050 24969 32643 37323 21768 21813 99050 619 45 00000		
18/07	‘842’ 705 36 91059 71128 85734 47986 19839 79433 91015 01674 67145 22730 03337 52525 17941 10864 72096 23398 40782 32972 49792 85834 13664 55474 25727 47359 54266 42040 69582 88095 96777 06458 39544 20136 82490 34363 34662 68098 705 36 00000		

Fridays (1st & 3rd)	2000z	9336khz	2100z	7314kHz
05/07	‘627’ 00000			

S06s July log:

Monday

1st/8th	0630/0640z	16320/14875	‘524’ 897 6 33684 93413 13805 93922 96191 80933
15th/22nd			‘524’ 890 6 30130 30905 37181 39971 35748 35931
1st/8th	0830/0840z	8221/9353	‘371’ 240 5 89964 76695 41068 16101 43982
15th/22nd			‘371’ 902 5 36148 25163 22415 25821 73717
1st/8th	0900/0910z	16380/14835	‘872’ 413 5 42312 96937 40933 38356 90649
15th/22nd			‘872’ 936 5 44613 30309 39342 35474 35494
1st/8th	1300/1310z	10230/12165	‘831’ 276 5 50339 46064 92797 86013 58879
15th/22nd			‘831’ 974 5 32993 23539 38408 36363 36982

Tuesday

2nd/9th	0600/0610z	15855/16485	‘438’ 915 6 60284 00960 65139 71205 51648 05133
16th/23rd			‘438’ 290 5 35944 64372 13079 10915 84612
2nd/9th	0700/0710z	5430/6780	‘374’ 218 5 42990 33000 32968 35332 36880
16th/23rd			‘374’ 508 6 33640 38293 43330 32403 88443 36772

2nd/9th	0730/0740z	7365/11655	‘427’ 538 6 33640 38293 33663 35358 41385 36362
16th/23rd			‘427’ 985 6 81235 32469 33311 37642 86212 43808
2nd/9th	0800/0810z	14373/12935	‘352’ 490 6 36880 33582 44060 33600 47061 46300
16th/23rd			‘352’ 904 6 31467 33351 43533 35211 33212 38714
2nd/9th	1000/1010z	4820/5660	‘893’ 510 6 32619 31250 46280 83060 43879 40606
16th/23rd			‘893’ 421 5 42990 33000 32968 85332 36880
2nd/9th	1100/1110z	6810/7560	‘754’ 210 6 36374 38915 33676 32679 93099 40606
16th/23rd			‘754’ 801 6 43798 46937 33032 38334 44613 30309
2nd/9th		6766/7744	‘537’ 489 6 31502 33886 33766 37399 32148 35819
16th/23rd			‘537’ 912 6 46062 68672 97478 30685 30485 96632

Wednesday

3rd/10th	0730/0740z	11530/14977	‘745’ 918 6 43806 44187 46688 40529 30535 (Only 5 groups sent)
17th/24th			‘745’ 290 6 26990 59806 71432 74537 10108 99601
3rd/10th	0830/0840z	12110/14977	‘464’ 512 7 37833 30024 32958 32235 8785553367 99630
17th/24th			‘464’ 521 7 42990 22000 22968 35222 26880 22582 47061
3rd/10th	1000/1010z	14580/16020	‘729’ 514 6 88443 36772 98493 36340 32048 34338
17th/24th			‘729’ 541 6 28294 27130 22902 93322 95247 22002

Thursday

4th/11th (E17z)	0800/0810z	16780/12850	‘674’ 298 5 33640 38293 43330 32403 88443
18th/25th			‘674’ 801 5 11171 64385 82707 06123 22536
4th/11th	0930/0940z	9255/10325	‘314’ 209 5 33633 35358 41385 36362 43010
18th/25th			‘314’ 896 5 33796 13577 74261 88146 40678
4th/11th	1200/1210z	13145/14535	‘425’ 938 6 81235 32469 33311 37642 66212 34237
18th/25th			‘425’ 891 6 15009 34140 78386 91497 82963 24163

Friday

5th/12th	0630/0640z	10290/9655	‘516’ 270 8 31467 33351 43533 35211 33212 38714 36997 80093
19th/26th			‘516’ 923 7 88569 89617 25757 77159 95225 84090 09531
5th/12th	0900/0910z	6844/7161	‘624’ 957 8 38882 37914 30901 45985 85258 74738 16533 30807
19th/26th			‘624’ 830 5 39534 17228 15636 47891 23247

Saturday

6th	0800/0810z	12460/10250	‘254’ 879 6 42881 54814 38884 24421 40239 38792
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With thanks to RNGB, Malc, Ary, HfD

S06 log August 2019

Daily Mon- Fri	0400z	15721kHz	No reports
Thursday		0830z 16327kHz	0930z 13875kHz
01/08	‘842’ 750 38 19457 01221 47038 60275 67938 42292 62418 70780 05955 47220 98298 91454 40996 07239 54779 17414 96665 55474 48049 57400 30712 25870 48776 44520 82466 59089 55371 21291 91848 66329 56799 72457 57140 86977 64629 03978 23777 01062 750 38 00000		
08/08	‘842’ 905 44 61625 13810 33483 83734 10051 20180 04809 29031 36423 34199 99264 90986 33944 57303 76159 01771 16562 99731 64204 67498 02726 68037 42968 94304 39481 54440 32649 55907 34075 63330 71826 01130 85277 36891 87885 24785 31590 64795 89811 50390 58542 89389 38032 98127 905 44 00000		
29/08	‘842’ 517 2 11111 00060 517 2 00000	Note: This is an S06b sending (11111 stutter group at beginning). It was repeated the next day.	

Fridays (1st & 3rd)	1900z	9336khz	2000z	7314kHz
02/08	‘627’ 00000			
16/08	‘627’ 941 36 90891 74535 50170 19271 96063 09780 29679 53390 93898 40946 24868 46969 02293 40559 65576 71388 83431 63676 76956 99531 37771 67442 66742 47130 88858 96904 37373 05501 85218 50163 30252 33152 79813 63301 42812 46021 941 36 00000			

S06s call-ups

A major change of call-ups occurred from 1st August. This is the first change I know of the regular calls since this station was first discovered more than 20 years ago. And in those days it was an Old Man and S06s was only differentiated from S06 by the slower delivery speed of the final 00000’s sent at the end. It was to be a few years later (May 2004) that is started sending short messages, one a month. Only a few of the calls have remained unchanged. And ID 427 was heard on two different schedules. A mistake? Time will tell.

One 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.

Mondays:

06.30 16320kHz	‘462’	(ex ‘524’)
08.30 8221kHz	‘764’	(ex ‘371’)
09.00 16380khz	‘232’	(ex ‘872’)
12.00 10230kHz	‘149’	(ex ‘831’)

Tuesdays:
06.00 15945kHz '438' (No Change)
07.00 5430khz '452' (ex '374') and repeat now at 0710z instead of 0715z
07.30 7365kHz '427' (No change)
08.00 14373kHz '127' (ex '352')
10.00 4820khz '427' ID Mistake?
11.00 6810khz '265' (ex '893')
15.00 6766kHz '914' (ex '537')

Wednesdays
07.30 11530kHz '172' (ex '745')
08.30 11565khz '464' (No Change)
10.00 14580kHz '276' (ex '729')

Thursdays
08.00 16780kHz '217' (ex '674')
09.30 9255kHz '698' (ex '314')
12.00 13145kHz '175' (ex '425')

Fridays
06.30 10290kHz '156' (ex '516')
09.00 6844kHz '239' (ex '624')

Saturday
08.00 12460kHz '132' (ex '254')

E17z (in green) has been included for completeness.

The following calls with their corresponding schedules have disappeared. Either no longer in use or on different schedules not found.
ID 153, 167, 176, 196, 278, 328, 418, 471, 481, 635, and 934

S06s August log:

Monday

5th/12th	0630/0640z	16320/14875	'462' 837 5 88569 89617 25757 77159 95225
19th/26th			'462' 830 5 36944 64381 13078 10915 84612
5th/12th	0830/0840z	8221/9353	'764' 281 5 40614 77249 40678 17976 21816
19th/26th			'764' 890 5 28571 15277 59881 64604 49656
5th/12th	0900/0910z	16380/14835	'232' 417 5 96320 36793 53038 76342 14009
19th/26th			'232' 870 5 99446 90809 53182 34203 80686
5th/12th	1300/1310z	10230/12165	'149' 268 5 05899 50387 55847 23013 89758
19th/26th			'149' 860 5 42881 54814 38884 24421 40239

Tuesday

6th/13th	0600/0610z	15855/16485	'438' 926 5 46062 68672 97478 39685 30485
20th/27th			'438' 572 6 87378 30647 31464 40750 42433 35630
6th/13th	0700/0710z	5430/6780	'452' 903 6 13857 34369 36385 45524 46421 83447
20th/27th			'452' 830 6 85418 31896 36053 33779 32814 47565
6th/13th	0730/0740z	7365/11655	'427' 583 6 38024 43233 30906 33558 32330 96724
20th/27th			'427' 859 6 35943 64372 13078 10915 84612 76148
6th/13th	0800/0810z	14373/12935	'127' 503 6 42196 31015 36233 38250 91354 41532
20th/27th			'127' 430 5 42881 54814 38884 24421 40239
6th/13th	1000/1010z	4820/5660	'427' 905 6 49807 33684 35116 40210 34753 47606
20th/27th			'427' 906 5 82308 37829 47458 35478 36583
6th/13th	1100/1110z	6810/7560	'265' 403 7 47140 84300 44936 38010 30729 40210 49696
20th/27th			'265' 981 7 76148 25163 22415 25821 73717 65962 57057
6th/13th	1500/1510z	6766/7744	'914' 203 6 44028 43453 82027 36575 46373 31059
20th/27th			'914' 832 5 53623 02507 34465 29833 44233

Wednesday

7th/14th	0730/0740z	11530/14977	'172' 890 5 39534 17228 15636 47891 23247
21st/28th			'172' 934 5 35944 64372 13078 10915 84612
7th/14th	0830/0840z	12110/14977	'464' 810 5 88620 58069 61732 74537 54440
21st/28th			'464' 510 7 28571 15277 59881 64604 49656 65962 57057
7th/14th	1000/1010z	14580/16020	'276' 819 5 47665 94092 48321 63888 92060
21st/28th			'276' 409 5 07414 62694 84843 81185 08844

Thursday

1st/8th (E17z)	0800/0810z	16780/12850	'217' 948 5 46062 68672 97478 36685 30485
15th/22nd			'217' 958 6 40614 77249 40678 17976 21816 42997
1st/8th	0930/0940z	9255/10325	'698' 213 5 33796 13577 74526 46647 79302
15th/22nd			'698' 217 5 20534 11160 43494 37638 16070
1st/8th	1200/1210z	13145/14535	'175' 892 6 88620 58069 61732 74537 57440 10597
15th/22nd			'175' 942 6 52401 63919 92699 14600 74248 48754

Friday

2nd/9th	0630/0640z	10290/9655	'156' 870 9 84523 60543 61462 84040 39493 91458 83723 92688 46952
16th/23rd			'156' 234 7 88620 58069 61732 74537 57440 10597 23521
2nd/9th	0900/0910z	6844/7161	'239' 864 5 87655 75855 07443 51240 62343
16th/23rd			'239' 416 5 52401 76911 75155 92918 97067

Saturday

3rd	0800/0810z	12460/10250	'132' 940 5 64385 82707 06123 78927 34694
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With thanks to RNGB, Malc, Ary, HfD

We follow on with PoSW's logs, analysis and findings:**S06 OM Voice:-****First + Third Fridays in the Month 2000 + 2100 UTC Schedule:-**

5-July-19:- 2000 UTC, 9336 kHz, "627 627 627 00000", strength around S6.

2100 UTC, 7314 kHz, second sending, what appears to be the last remaining regular schedule of this once prolific number station – at least in the UK evening-time.

19-July-19:- 2000 UTC, 9336 kHz, "627 627 627 000002, S7 to S8.

2100 UTC, 7310 kHz, weaker broadcast station on the same frequency.

This schedule moved by one hour in August, as is its custom from time to time:-

1900 UTC, 9336 kHz, "627 627 627 00000", peaking around S8.

Unable to find a second sending at 2000 UTC, 9 PM in the good old summertime here,

a very strong wide-band signal assumed to be a DRM broadcaster taking up the band between roughly 7308 to 7318 kHz.

S06a YL Voice:-

A selection of some of the stronger transmissions heard in the last couple of months; with any schedule a message is transmitted two weeks in succession and during the last few days at the end of the month which fall outside this pattern the transmission is always of the "00000 - no message" format.

In August several S06s schedules changed their "call", that is the 3-figure number spoken for about the first four minutes of the transmission; I don't recall this happening before, unusual enough to be worthy of comment.

Monday 0830 + 0840 UTC Schedule, Call "371" - changed to "764" in August:-

1-July-19:- 0830 UTC, 8221 kHz, DK/GC "240 240 5 5", strength S6, "89964 76695 41068 16101 43982".

0840 UTC, 9353 kHz, weaker.

8-July-19:- 0830 UTC, 8221 kHz, "240 240 5 5" and 5Fs as on the 1st.

0840 UTC, 9353 kHz, very weak signal.

15-July-19:- 0830 UTC, 8221 kHz, DK/GC "902 902 5 5", "36148 25163 22415 25821 73717".

0840 UTC, 9353 kHz, weak.

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

2-July-19:- 0730 UTC, 7365 kHz, weak signal, strong broadcast station on the same frequency, unreadable.

0740 UTC, 11655 kHz, second sending much stronger, over S9 with QSB, DK/GC "538 538

6 6", "33640 38293 33663 35358 41385 36362".

16-July-19:- 0730 UTC, 7365 kHz, DK/GC "985 985 6 6", not too strong, "81235 32469 33311 37642 86212 43808".

0740 UTC, 11655 kHz, much stronger, peaking over S9.

30-July-19:- 0730 UTC, 7365 kHz, "427 427 427 00000", "no message", as expected, this being the fifth Tuesday in this month.

0739:10s UTC, 11655 kHz, the expected early start for this format.

13-Aug-19:- 0730 UTC, 7365 kHz, DK/GC "583 583 6 6", "38024 43233 30906 33558 32330 96724".

0740 UTC, 11655 kHz, strong signal.

20-Aug-19:- 0730 UTC, 7365 kHz, very weak signal, unreadable. Second sending much better.

0740 UTC, 11655 kHz, DK/GC "859 859 6 6", peaking around S8, "35943 64372 13078 10915 84612 76148".

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

3-July-19:- 0730 UTC, 11530 kHz, DK/GC "918 918 6 6" - but there were only five 5F

groups:- "43806 44187 46688 40529 30535", over-riding a weaker broadcast station on the same frequency.

0740 UTC, 14977 kHz, second sending, S7 with QSB.

10-July-19:- 0740 UTC, 14977 kHz, missed the 0730z sending, "918" and "6" as expected,

still only five 5F groups, around S9 with S9.

31-July-19:- 0730 UTC, 11530 kHz, "745 745 745 00000", competing with the broadcaster,

a distinct low frequency beat-note suggesting a slight difference of frequency between the two carriers.

0739 UTC, just after, 14977 kHz, S8 with QSB.

In August this schedule changed the call to “172”:-

7-Aug-19:- 0730 UTC, 11530 kHz, calling “Odin sem dva”, not “Sem chety're pyat”, DK/GC “890 890 5 5”, became swamped by the strong broadcast station on the same frequency.

0740 UTC, 14977 kHz, strong signal on a clear frequency, “39534 17228 15636 47891 23247”.

21-Aug-19:- 0730 UTC, 11530 kHz, DK/GC “934 934 5 5”, competing with the broadcaster, “35944 64372 13078 10915 84612”, 5F groups 2,3,4 and 5 were also used in yesterday's “427” schedule, and 5F group number 1 was just “one up”.

0730 UTC, 14977 kHz, second sending.

Wednesday 1000 + 1010 UTC Schedule, Call “729”:-

3-July-19:- 1000 UTC, 14580 kHz, DK/GC “514 514 6 6”, strong signal, “88443 36772 98493 36340 32048 34338”.

1010 UTC, 16020 kHz, second sending, slightly weaker signal.

17-July-19:- 1000 UTC, 14580 kHz, DK/GC “541 541 6 6”, good signal, “28294 27130 22902 93322 95247 22002”.

1010 UTC, 16020 kHz, much weaker.

31-July-19:- 1000 UTC, 14580 kHz, “729 729 729 00000”, S7 to S8.

1009:10s UTC, 16020 kHz, weaker.

Another schedule which changed the call in August, to “276”:-

7-Aug-19:- 1000 UTC, 14580 kHz, calling “Dva sem shesht”, not “Sem dva devyat”

DK/GC “819 819 5 5”, signal up and down, “47665 94092 48321 63888 92060”.

1010 UTC, 16020 kHz, peaking over S9 with QSB.

Friday 0630 + 0640 UTC Schedule, Call “516”:-

This schedule used to show up at 0930 + 0940 UTC, but as of this summer it has decided to be out and about three hours earlier:-

19-July-19:- 0630 UTC, 10290 kHz, good signal, DK/GC “923 923 7 7”, “88569 89617 25757 77159 95225 84090 09531”.

0640 UTC, 9655 kHz, strong, well over the “9”.

2-Aug-19:- 0630 UTC, 10290 kHz, very weak signal, unreadable.

0640 UTC, 9655 kHz, also very weak, signal came up slightly stronger for just a few seconds, fairly sure “91458 83723 92688” were somewhere in there

23-Aug-19:- this is another S06s schedule which has changed its call in August, is now “156”:-

0630 UTC, 10290 kHz, strong signal, calling “Odin pyat shesht”. DK/GC “234 234 7 7”,

“88620 58069 61732 74537 57440 10597 23521”.

0640 UTC, 9655 kHz, S9 signal.

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

6-July-19:- 0800 UTC, 12460 kHz:- DK/GC “879 879 6 6”, “42881 54814 38884 24421 40239 38792”. Strong signal, most unusual for this Saturday schedule.

0810 UTC, 10250 kHz, much weaker.

In August the call changed from “254” to 132”, from “Dva pyat chety're” to “odin tri dva”

3-Aug-19:- 0800 UTC, 12460 kHz, DK/GC “940 940 5 5”, peaking S8 to S9, strong signal again, “64385 82707 06123 78927 34694”.

0810 UTC, 10240 kHz, weak.

S11a log July/August

5082khz	0915z	05/07 [482/00] Konyetz 0918z S2	Malc	FRI
	0915z	08/07 [487/00]	RNGB	MON
	0915z	12/07 [481/00]	RNGB	FRI
	0915z	19/07 [483/35 73774.....02464] Konyetz 0926z S3 (Dutch SDR)	Malc	FRI
	0915z	22/07 [483/00] Konyetz 0918z S2	Malc	MON
	0915z	26/07 [480/00] Konyetz 0918z S2 (Dutch SDR)	Malc	FRI
	0915z	29/07 [483/00] Konyetz 0918z S3 (Dutch SDR)	Malc	MON
	0915z	02/08 [484/00] Konyetz 0918z S2	Malc	FRI
	0915z	05/08 [480/00] Konyetz 0918z S2	Malc	MON
	0915z	16/08 [481/40 07975.....13587] Konyetz 1927z S2	Malc	FRI
	0915z	19/08 [482/00] Konyetz 0918z S2	Malc	MON
	0915z	26/08 [482/00]	RNGB	MON
	0915z	30/08 [482/00] Konyetz 0918z S2	Malc	FRI
5149kHz	1100z	03/07 [370/32 50724 00654 07192 74126 53476 46112 36100.....83852 39592] Konyetz 1110z	RNGB, Malc	WED
	1100z	05/07 [370/32 50724.....etc] Repeat of Wednesday	Malc	FRI
	1100z	10/07 [370/00] Konyetz 1103z S2	Malc	WED
	1100z	19/07 [377/00] Konyetz 1103z S2	Malc	FRI
	1100z	26/07 [372/00] Konyetz 1103z S3 (Dutch SDR)	Malc	FRI
	1100z	31/07 [377/00] Konyetz 1103z S2	Malc	WED
	1100z	02/08 [378/00] Konyetz 1103z S2	Malc, RNGB	FRI
	1100z	07/08 [371/00] Konyetz 1103z S5 (Dutch SDR)	Malc	WED
	1100z	09/08 [371/00] Konyetz 1103z S2 (Dutch SDR)	Malc	FRI

	1100z	16/09 [370/00] Good	(Dutch SDR)	RNGB, Malc	FRI
	1100z	21/08 [378/00] Konyetz 1103z S2		Malc	WED
	1100z	28/08 [372/34 33809 86502 75436.....unable to copy full msg] S2		Malc	WED
	1100z	30/08 [372/34 3380978804] Koinyetz 1110z S4 (Dutch SDR)		Malc	FRI
6977kHz	1020z	09/07 [425/40 82029 93542 05662 75139 83017 18136 98108 25608.....91970 56674]		RNGB, Malc	TUE
	1020z	16/07 [420/00]		RNGB	TUE
	1020z	19/07 [427/00] Konyetz 1023z S2		Malc	FRI
	1020z	23/07 [427/00] Konyeyz 1023z S2		Malc	TUE
	1020z	26/07 [424/00] Konyetz 1023z S2		Malc	FRI
	1020z	30/07 [421/00] Konyetz 1023z S2		Malc	TUE
	1020z	02/08 [425/00] Konyetz 1023z S2		Malc, RNGB	FRI
	1020z	06/08 [427/00] Konyetz 1023z S2		Malc	TUE
	1020z	09/08 [429/00] Konyetz 1023z S2		Malc	FRI
	1020z	16/08 [427/31 93912 44969 02249 51908 57563 00593 47470 15550.....38551 62930]		RNGB	FRI
	1020z	27/08 [422/00] Konyetz 1023z S2		Malc, RNGB	TUE
	1020z	30/08 [427/00] Konyetz 1023z S3	(Dutch SDR)	Malc	FRI
10210kHz	1015z	04/07 [476/00] Konyetz 1018z S2		Malc	THU
	1015z	18/07 [477/00]		RNGB, Malc	THU
	1015z	22/07 [476/00] Konyetz 1018z S2		Malc	MON
	1015z	25/07 [477/00] Konyetz 1018z S2		Malc	THU
	1015z	29/07 [478/00] Konyetz 1018z S5	(Dutch SDR)	Malc	MON
	1015z	01/08 [470/00]		RNGB	THU
	1015z	05/08 [476/00] Konyetz 1018z S3		Malc	MON
	1015z	19/08 [477/00] Konyetz 1018z S3	(Dutch SDR)	Malc	MON
	1015z	22/08 [479/00] Konyetz 1018z S2		Malc	THU
	1015z	26/08 [477/00] Konyetz 1018z S2		Malc	MON
	1020z	29/08 [478/00] Konyetz 1023z S2		Malc	THU
12457kHz	1850z	03/07 [284/34 24558.....07480] Konyetz 1901z S6		Malc	WED
	1850z	10/07 [285/00] Konyetz 1853z S4		Malc	WED
	1850z	20/07 [287/00] Konyetz 1853z S3		Malc	SAT
	1850z	24/07 [285/00] Konyetz 1853z S4		Malc	WED
	1850z	31/07 [280/00] Konyetz 1853z S5		Malc	WED
	1850z	03/08 [288/00] Konyetz 1853z S2		Malc	SAT
	1850z	07/08 [287/34 67282.....52125] Konyetz 1900z S5		Malc	WED
	1850z	10/08 [287/32 67282.....etc] Repeat of Wednesday		Malc	SAT
	1850z	21/08 [284/00] Konyetz 1853z S3		Malc	WED
	1850z	24/08 [284/00] Konyetz 1853z S3		Malc	SAT
	1850z	31/08 [287/00] Konyetz 1853z S3		Malc	SAT

V07

Sunday

July 2019

0300z	13521kHz	0320z	12121kHz	0340z	11421kHz
13521kHz0300z	21/07 (514 514 514 1 7530 102 45409 80605 96984 ... 85760 24051 000 000) QSA3 QRM1 DanAR Sun	Via Kiwi SDR NAGANO ,JAPAN			
12121kHz0320z	21/07 (514 514 514 1 7530 102 45409 80605 96984 ... 85760 24051 000 000) QSA2 DanAR Sun	Via Kiwi SDR NAGANO, JAPAN			
11421kHz0340z	21/07 (514 514 514 1 7530 102 45409 80605 96984 ... 85760 24051 000 000) QSA2 DanAR Sun	Via Kiwi SDR NAGANO, JAPAN			
<i>Daniel writes: "Thanks to Priyom for data and links to SDR."</i>					

28/07 514 1 7530 102 45409 ... 24051 000 000 Via Kiwi SDR KYOTO , JAPAN Weak [DanAr]

August 2019

0700z	13563kHz	0720z	12163kHz	0740z	10263kHz
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No reports

V13

18040kHz0738z	15/07 [i/p 4FGs] Via KiwiSDR Japan	Danix	MON
18040kHz0830z	15/07 [Intro music followed by 4FG traffic] Via KiwiSDR Japan	Danix	MON
18040kHz0826z	19/07 USB in progress	Ary	FRI
18040kHz 0700z	20/07 AM. Intro tune followed by a message in Chinese	Ary	SAT
18040kHz0801z	24/07 New Star Broadcasting #3	Ary	WED
18040kHz0700z	25/07 New Star Broadcasting #3. Flute tune followed by a message in Chinese	Ary	THU
18040kHz0801z	25/07 New Star Broadcasting #3. Flute tune followed by a message in Chinese	Ary	THU
18040kHz0701z	22/08 New Star Broadcasting station #3 USB	AB-J	THU
18040kHz0701z	23/08 New Start Broadcasting Station #3. Flute tune followed by a message in Chinese	AR	FRI

V15

North Korea Spy Numbers Broadcasting via Pyongyang BS

No reports

V24 South Korean Intelligence.

4925kHz1430z	11/07 South Korean intelligence. Piano music followed by a message in Korean	Ary	THU
4925kHz1430z	15/07 AM South Korean Intelligence. Piano music followed by a message on Korean	Ary	MON
5900kHz1600z	15/07 AM South Korean Intelligence. Song followed by a message in Korean	Ary	MON

V26

4243kHz1217z	08/07/19[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner New Zealand)]	JPL	MON
4243kHz1202z	21/07/19[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner Hong Kong)]	JPL	SUN
4243kHz1203z	22/07/19[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner China)]	JPL	MON
4243kHz1255z	10/08/19[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner Siberia)]	JPL	SAT
4243kHz1220z	16/08/19[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner China)]	JPL	FRI
4243kHz1159z	19/08/19[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner Hong Kong)]	JPL	MON
4243kHz1219z	28/08/19[(From M95 sked - USB - Chinese - Female - // 9054) (Remote tuner China)]	JPL	WED
9054kHz1217z	08/07/19[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner New Zealand)]	JPL	MON
9054kHz1202z	21/07/19[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner Hong Kong)]	JPL	SUN
9054kHz2359z	28/07/19[(From M95 sked - USB - Chinese - Female - // N/H) (Remote tuner Japan)]	JPL	SUN
9054kHz1255z	10/08/19[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner Siberia)]	JPL	SAT
9054kHz1159z	19/08/19[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner Hong Kong)]	JPL	MON
9054kHz1219z	28/08/19[(From M95 sked - USB - Chinese - Female - // 4243) (Remote tuner China)]	JPL	WED

Polytones

Many changes occurring in this mode, notably with XPA2 schedules ‘m’ and ‘p.’

It appears the Friday/Saturday schedule ‘r’ has closed unless entirely rescheduled.

XPA1 c

Tuesday/Thursday

July 2019

0710z	10446kHz	0730z	11474kHz	0750z	12157kHz
02/07	367 1 07631 00098 72786 ...			Last group not heard	Weak
04/07	367 1 07631 00098 72786 ... 56116				Weak
367 367 367 1 367 367 367 1 367 367 367 1					
07631 00098 72786 34944 78988 66181 85276 09080 07381 82178 16901 20711 79705 45846 48640 32076 11139 11788 73686 81863 47452 51645 12754 38394 03680 28716 31936 58814 51174 46813 75676 36591 86497 71844 47731 63845 71555 30710 24860 35330 16526 05949 23312 92499 40129 19702 47607 46500 72593 40829 93414 40570 95984 19013 33556 04348 00106 16812 85131 34434 57818 57680 78342 49403					
88799 38005 54283 15068 96157 88946 97604 13773 70215 90902 84699 46147 53456 34867 27024 32421 15473 04377 23721 70423 17066 69116 27454 73281 36782 05265 41132 73536 40815 43443 27393 78852 58168 58425 62022 00544 56116 <i>Courtesy PLdn</i>					
09/07	367 1 06237 00145 91563 ... 17606			[0730z Strong]	Very strong
367 367 367 1 367 367 367 1 367 367 367 1					
06237 00145 91563 38341 62937 89546 98695 54368 92471 02866 45078 64978 37749 60154 40332 51847 32227 17779 13970 49120 67739 37875 69220 20204 98754 08351 58187 72362 57775 69659 45044 63105 20045 21494 98293 02802 24610 66683 62628 66427 43692 09360 92055 86240 82485 00976 63273 62349 83940 37605 06619 51287 28928 63477 42699 96681 48723 21941 56534 37341 56420 92816 65663 96188					
09595 98951 66614 28814 72806 11113 39990 89867 72880 83410 19655 91186 56937 23291 95733 82227 86404 41669 35210 17410 88324 83861 77624 47311 80920 06532 80874 68356 86935 34555 34101 31780 55240 01161 32430 99198 26215 18121 80845 29609 24252 34608 76232 74049 72187 48157 62212 51655 87299 91835 82777 27287 89925 48364 59733 55786 21394 34193 36441 97641 04189 85021 23337 89642					
29663 47359 00726 15891 81774 09377 88826 03395 47551 68122 11324 74792 03119 72711 89594 95794 37613 65772 98665 17606 <i>Courtesy PLdn</i>					
11/07	367 1 06237 00145 91563 ... 17606				Weak, QSB3
16/07	367 1 06237 00145 91563 ... 17606				Strong, QSB3
18/07	367 1 06237 00145 91563 ... 17606				Weak
23/07	367 1 00589 00102 41976 ... 33562				Strong
367 367 367 1 367 367 367 1 367 367 367 1					
00589 00102 41976 92498 91506 17850 33158 86537 04603 48382 89288 13608 81028 22259 35991 07842 12198 80071 80362 97565 34199 68418 66131 41263 26134 56808 26579 02429 63781 25259 87707 92582 09439 81878 13493 19247 34233 39758 33537 61874 73835 56639 46219 91675 71222 33090 49756 35783 77659 56248 02975 36056 00104 07559 82658 75792 86541 11451 62329 28318 96706 12292 45122 32882					
33873 77823 67850 97473 00374 25022 99552 80268 01602 89228 72926 20692 86505 09298 48069 25599 48274 92296 05664 97571 30713 20950 02530 78645 22013 10659 64287 02455 94600 63882 08536 95325 12888 08566 73560 75311 96242 37465 79745 11882 33562 <i>Courtesy PLdn</i>					
25/07	367 1 00589 00102 41976 ... 33562			[0710z MISSED]	Fair

August 2019

0710z 10234kHz 0730z 11511kHz 0750z 12117kHz

01/08 829 1 00589 00102 41976 ... 33562 AB THU

829 829 829 1 829 829 829 1 829 829 829 1
00589 00102 41976 92498 91506 17850 33158 86537 04603 48382
89288 13608 81028 22259 35991 07842 12198 80071 80362 97565
34199 68418 66131 41263 26134 56808 26579 02429 63781 25259
87707 92582 09439 81878 13493 19247 34233 39758 33537 61874
73835 56639 46219 91675 71222 33090 49756 35783 77659 56248
02975 36056 00104 07559 82658 75792 86541 11451 62329 28318
96706 12292 45122 32882 33873 77823 67850 97473 00374 25022
99552 80268 01602 89228 72926 20692 86505 09298 48069 25599
48274 92296 05664 97571 30713 20950 02530 78645 22013 10659
64287 02455 94600 63882 08536 95325 12888 08566 73560 75311
96242 37465 79745 11882 33562
Courtesy Ary

06/08 829 000 06256 00001 00000 ... 35263 Strong

08/08 829 000 03605 00001 00000 ... 36653 Strong

13/08 829 000 08690 00001 00000 ... 34271 [0730z Strong] Very strong

Note: All transmissions were preceded by a 'ticking' pulse signal, *sample below*. Any ideas as to what it might be gratefully requested.



14/07 08178 00098 51623 ... 67577 Very strong UK, Weak Argentine

08178 00098 51623 70359 55769 90495 12434 32431 59068 58893
21114 50782 83287 56860 31362 92050 56756 11337 71141 83697
23769 79013 30562 83729 56975 78790 22098 68906 87080 53392
00065 46640 72422 97455 74762 47545 57022 38814 75033 40380
46971 06569 60557 42180 42916 40951 19257 37344 03629 61987
83422 13636 44555 29598 65282 63147 72414 35768 79741 14405
52351 53966 52331 54276 76391 92341 88398 14970 05913 36410
26612 62644 99808 93338 46366 99101 42807 29366 00981 69756
84048 74820 24968 75267 24673 95807 05075 84646 63290 34273
47560 19490 69138 82515 86830 32412 92228 38593 54383 15992
67577
Courtesy KW

16/07 MISSED

21/07 08159 00102 32926 ... 66477 [2140z Strong, QRM3] Very strongUK Weak Argentine

08159 00102 32926 29243 40408 58448 71212 17448 79726 45847
99035 10454 77444 04828 21060 98928 46035 16149 47272 63423
48699 52910 70449 47091 13634 76190 50285 10134 30009 43303
31247 04292 97236 27981 80810 15955 91504 19054 34775 04585
00090 72207 14488 20220 51949 41255 47477 48224 05462 71413
68418 85392 63534 89249 34266 44829 03939 88476 95443 36899
65081 01655 83974 72352 52140 42452 14531 07602 10340 12813
63778 80852 02165 39068 07865 26920 76245 06347 99624 47496
52454 49391 47417 70218 17444 20219 16790 89598 56115 71942
89267 97679 99846 86214 19426 30710 28678 14314 22154 26684
44630 32980 68809 13166 66477
Courtesy PLdn

*Daniel, in Argentine heard a test transmission also; note comments:
12194kHz 2113z 21/07 (12345 6789) QSA2 DanAr Sun -It seems to be a test transmission but not XPA2-*

23/07 08159 00102 32926 ... 66477 [2100z Fair] Strong

28/07 00393 00198 82437 ... 61253 Very strong UK, Weak Argentine

August 2019

2100z	12159kHz	2120z	11559kHz	2140z	10559kHz	
06/08	00153 00091 04838 ... 61210					Very strong
11/08	00143 00100 55807 ... 61135			[2140z Fair]		Weak, QSB3
13/08	00143 00100 55807 ... 61135			[2120z Fair]		Very strong
18/08	00339 00096 71715 ... 37074					Weak [DanAr]
25/08	00639 00090 07578 ... 27624					Weak Ar Strong UK

00639 00090 07578 23667 18554 62073 85471 41745 85117 65396
88724 68418 03774 29975 71552 72524 38268 82272 98135 01759
31637 86846 68492 64653 78274 73306 06738 01221 60509 83285
88655 57643 59299 81605 14797 41303 68573 71995 47443 81314
74574 80827 12102 08274 61449 48169 00857 51615 12263 54199
09462 51257 30657 96543 03874 20940 58893 18547 46544 97157
31509 08406 58871 18575 19567 62313 16389 16685 86480 91922
89819 32952 77023 17530 97936 30531 23553 08649 44130 36211
35433 66916 90812 59710 14138 94761 67006 43858 76255 70667
21325 73030 27624
Courtesy DanAr

Possibly rescheduled for September, yet to be found?

XPA2 p

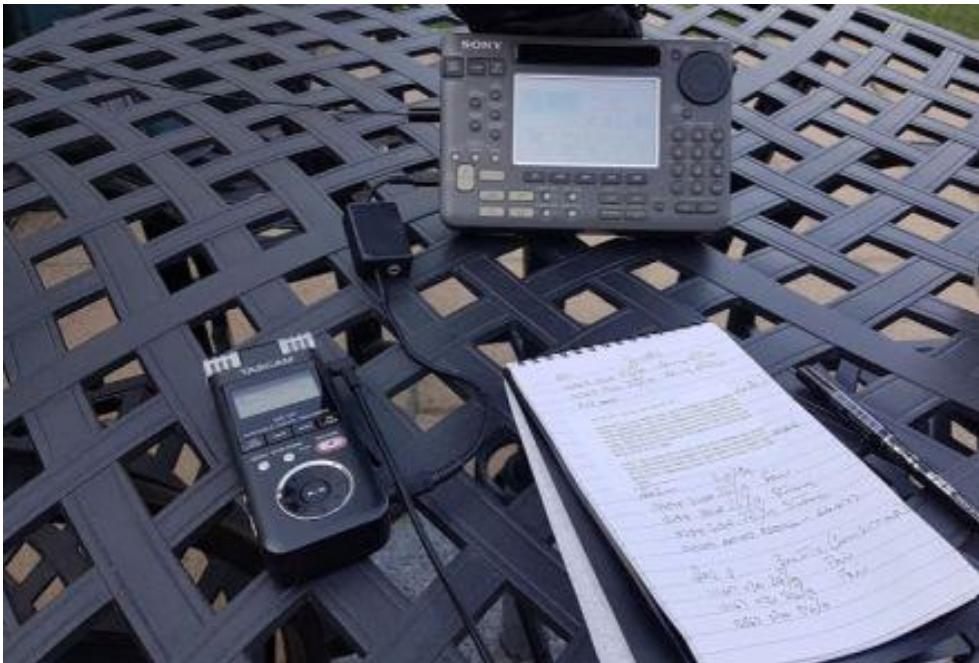
Monday/Wednesday

July 2019

0700z	11167kHz	0720z	12167kHz	0740z	13567kHz	
01/07	04318 00001 00000 ... 36655			[0700z Weak, localQRM3]		Strong
08/07	05937 00210 40306 ... 36035					Fair
10/07	05937 00210 40306 ... 36035			[0720z QSB2]		Fair
15/07	05937 00210 40306 ... 36035			[0700z Weak, unworkable]		Strong, QSB3
17/07	05937 00210 40306 ... 36035					Strong
22/07	06163 00100 63542 ... 55173			[0700z Fair]		Strong

06163 00100 63542 36611 09313 94179 84914 63689 02468 14164
95406 11105 19095 10882 11488 61012 03243 10811 28378 38887
11348 13411 65466 69143 09930 92558 60545 46211 55444 98119
76685 66638 44768 36731 08630 10707 52213 00395 03967 58587
47486 93334 40891 20365 25476 62867 56067 69958 14671 67155
37506 53854 34489 72013 17749 61145 27453 92258 44685 93151

64342 89947 85622 07316 81118 22266 77795 16266 57497 05701
81312 63011 87055 81802 18707 90388 86331 56860 93519 59422
26347 06945 35330 66363 54198 11181 79212 09222 77754 22693
75530 60372 08969 81172 21983 20530 48947 46341 93773 24256
56059 34727 55173
Courtesy PLdn



24/07 Receiving XPA2 p in garden on Sony SW-77 and short wire antenna,

24/07	06163 00100 63542 ... 55173	[0740z QSB3]	Fair
29/07	06163 00100 63542 ... 55173	[0700z Fair]	Very strong

August 2019

0700z	10278kHz	0720z	12178kHz	0740z	13478kHz	
05/08	06163 00100 63542 ... 55173				[0740z Unworkable]	Weak, QRM3
07/08	06163 00100 63542 ... 55173				[0740z Strong]	Very strong
12/08	00501 00096 67555 ... 73673					Fair
14/08	00501 00096 67555 ... 73673					Very strong
	Pulse signal [ticks] running before each transmission and after at 0730z [See XPA1 c August 2019]					
19/08	NRH					

Change of freqs [last heard on 10278/12178/13478kHz 12/08 and 14/08 same message]

0700z	12152kHz	0720z	13552kHz	0740z	13952kHz	Courtesy Ary, thanks.	
21/08	00501 00096 67555 ... 73673					AB	WED

00501 00096 67555 86867 43497 82063 60426 36787 90026 79765
10955 89797 92392 02723 23671 11145 33603 32345 59297 63597
06868 60385 48189 31264 03572 52817 28543 36820 89183 59309
14903 36437 04470 49056 40900 51483 38400 61847 73794 97579
91714 76595 35921 22569 35711 80409 14958 46256 75742 39372
76172 70519 73472 91753 14759 53252 64839 65362 69938 96645
13470 42858 22131 56414 44134 95158 71650 61550 34733 17629
40575 99245 15368 15058 86999 75732 90985 67854 92303 88733
23494 76272 44810 18597 51615 67776 14960 40926 23882 99778
43641 84422 02274 21179 46529 55938 06691 37049 73673
Courtesy Ary

Frequencies remaining the same for September.

XPA2 r

Friday/Saturday

July 2019

2100z	15967kHz	2120z	13884kHz	2140z	12217kHz	
05/07	00162 00060 69847 ... 75740					Strong

06/07	00162 00060 69847 ... 75740	[2100z Weak]	Strong
00162 00060 69847 79651 65019 21896 15808 98500 00412 01600 29111 39232 21117 31454 10696 72575 55383 98157 15980 88775 45385 71964 33493 07101 25737 54568 11609 17615 72681 66641 24986 41726 66699 52236 12767 89816 71541 83613 76837 60502 51197 23090 34580 15768 80298 19791 38795 13394 38026 92764 67306 12265 82289 18390 80578 72077 74036 94823 16865 57078 55243 68882 75740 <i>Courtesy PLdn</i>			
12/07	00564 00098 76870 ... 15523	[2140z Strong]	Very strong
00564 00098 76870 16910 01435 36656 75118 11161 06535 93580 81183 68267 02783 11823 80861 70827 48677 64585 83777 46458 30266 11566 50788 78944 16667 77821 28888 44188 14246 11636 12146 18060 82158 00785 78566 50382 15811 90387 81058 42668 56536 82456 56838 33801 43810 15775 06432 80647 61523 95481 41858 41883 30738 07731 19419 13798 04467 01861 93384 88651 87964 30100 97486 40067 68883 70679 33356 85413 10795 39894 11413 14951 71405 36836 04497 99861 41915 30115 19464 39341 13741 75990 06711 05154 73574 89841 49411 44151 81737 65010 88810 00139 03864 19138 76196 19108 65119 57011 85640 68065 15523 <i>Courtesy KW</i>			
13/07	00564 00098 76870 ... 15523		Strong
19/07	8149 00104 79482 ... 31156	[2100/2120z Unworkable]	Strong
20/07	8149 00104 79482 ... 31156		Strong
26/07	MISSED ... Lightning/antenna disconnected		
27/07	00130 00108 24223 ... 63304	[2100zNRH, 2120z Unworkable]	Very strong

August 2019

1900z	16167kHz	1920z	14663kHz	1940z	13923kHz
02/08	MISSED ... Lightning/antenna disconnected				
03/08	MISSED ... Lightning/antenna disconnected				
09/08	NRH?				
10/08	NRH?				

This station all but disappeared; total reschedule?

XPB

XPB1

July Schedule:

14644kHz 1900z	07/07 QSA2 DanAR Sun
12144kHz 1920z	07/07 QSA2 DanAR Sun
11044kHz 1930z	07/07 QSA2 DanAR Sun
10344kHz 1940z	07/07 QSA3 DanAR Sun
9244kHz 1950z	07/07 QSA3 DanAR Sun

August Schedule [from Ary]:

14918 04-08-2019 1900z XPB MFSK-66 Russian intel.
13918 04-08-2019 1910z XPB MFSK-66 Russian intel.
12218 04-08-2019 1920z XPB MFSK-66 Russian intel.
11118 04-08-2019 1930z XPB MFSK-66 Russian intel.
10218 04-08-2019 1940z XPB MFSK-66 Russian intel.
9118 04-08-2019 1950z XPB MFSK-66 Russian intel.

And heard in Argentina by DanAr:

14918kHz 1900z 13/08 QSA2	DanAr	TUE
13918kHz 1910z 13/08 QSA2	DanAr	TUE
12218kHz 1920z 13/08 QSA2	DanAr	TUE
11118kHz 1930z 13/08 QSA3	DanAr	TUE
10218kHz 1940z 13/08 QSA3	DanAr	TUE
9118kHz 1950z 13/08 QSA3	DanAr	TUE

X06 Mazeilka

Date	Day	UTC	Freq	Scale	Monitor	Comments
20190703	Wed	1553/1557	12223	1--6--	Ary/NL	X06b before E07
20190707	Sun	2012	13394	1--6--	LU5EMM	X06b before XPA2(1)
20190707	Sun	2014	13394	1--6--	LU5EMM	X06b before XPA2(1)
20190707	Sun	2019	13394	1--6--	LU5EMM	X06b before XPA2(1)
20190710	Wed	1807	14763	1--2--	Ary	X06b before E07
20190710	Wed	1811	14763	6--4--	Ary	X06b before E07
20190712	Fri	0831-0837	10653	356412	Edd Smith	I. p., G126, TX to Berlin(2)
20190714	Sun	2030	13394	1--6--	LU5EMM	X06b before XPA2 with QSA2
20190716	Tue	0826-0836	12149	154263	Edd	I. p., G148, TX to Rome(2)
20190721	Sun	1602	11023	1--6--	Schorschi	X06b before E07 i. p. with S9
20190803	Sat	1242/1244	9064	1--6--	Ary	X06b before E07
20190808	Thu	0741-0742	9065	561243	Edd	I. p., G117, TX to Helsinki
20190813	Tue	2003/2005	10559	1--6--	LU5EMM	X06b with QSA3 before worse XPA2
20190816	Fri	0757-0847	14720	241563	Edd	I. p., G187, via SDR Enschede
20190816	Fri	0827-0837	19405	352416	Edd	I. p., R, via SDR Enschede
20190816	Fri	0830-0832	12094	324615	Edd	I. p., TX to Madrid, G189, Enschede
20190821	Wed	0850	11450	1--6--	Edd	X06b i. p. via SDR Enschede
20190821	Wed	0905	12450	1--6--	Edd	X06b i. p. via SDR Enschede
20190821	Wed	0948/1133	11450	1--6--	Edd	X06b i. p. via SDR Enschede
20190823	Fri	0844-0856	10653	356412	Edd	TX to Berlin, G271 (SDR Enschede)
20190905	Thu	0737-0753	12319	6-----	Edd	X06b single tone i. p. (SDR)
20190905	Thu	1109-1118	11450	1--6--	Edd	X06b i. p. via SDR Enschede(3)
20190905	Thu	1130-1146	11449	6-----	Edd	X06b single tone (SDR Enschede)(4)
20190905	Thu	1232-1236	11449	6-----	Edd	X06b single tone via SDR Enschede

- 1) QSA3 - better signal than XPA2 and some carrier with hum between transmissions
- 2) Heard via SDR Enschede
- 3) During the period between 1118z and 1130z some transmissions of X06b Single Tone Variant were sent for a few minutes each time, however as I was tuned on 11450kHz USB, I can only hear a quiet hum on the recording and cannot log those transmissions in-between those times accurately. [Edd]
- 4) A thirty second continuous tone at 1148 UTC.

Thanks to Jochen and monitors.

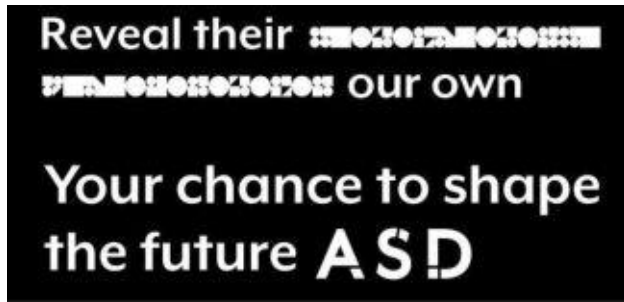
Hybrids

HM01

10715kHz2200z	21/07(18716 71212 88653 05173 56866 84121) QSA1 QRM3 QSB1	DanAr	SUN
10715kHz2220z	11/08	SR	SUN

Gizza Job

Job chance Down Under a'la Pine Gap:



Closer to home:



PoSW's Items of Interest in the Media:-

Who dunnit? Why, the Russians, of course; any incident which causes some kind of disruption in daily life often gets blamed on the Russians in the absence of any other explanation. I remember the "Hatton Garden Heist" of a couple of years back was at first blamed on the Russians by the mainstream media for a short while after its discovery; a crime of a somewhat impressive nature in which the perpetrators had, over the course of the Easter holiday weekend, used some specialist drilling equipment to gain access to a strong-room in the vaults of a building where the wealthy kept their jewellery and other valuables, a haul valued in tens of millions – at least. When the crime was first discovered, the media were in no doubt that a crime of this nature could only have been carried out by some very highly trained experts, almost certainly Russian former or current special forces personnel acting with the approval of the Russian government and that sanctions must immediately be enacted against those in charge in Moscow and yada, yada, blah, blah.

When the facts behind the case swiftly came to light it turned out that those involved, far from being special forces acting at the behest of the Kremlin, were in fact a gang of "old geezers", British through and through, mostly well over retirement age and about as far removed from Vladimir's Spetsnaz types as it is possible to be. So stories such as those with the headline, "Russia linked to huge hack on tax agency", which appeared in The Times newspaper of 17-July come as no surprise. Written by Tom Parfitt, reporting from Bulgaria, it says, "Hackers have stolen private financial data from millions of Bulgarians and circulated it via a Russian email account in an attack suspected to be in retaliation for the country's purchase of fighter jets from the United States.

Links to 57 data-bases, which included identification numbers, addresses and incomes, were sent to local media after Bulgaria's tax agency was hacked. They are understood to have been sent using an email registered to Yandex, Russia's largest technology company. Mladen Marinov, Bulgaria's interior minister, said that the attack could have been in response to the purchase of eight Lockheed Martin F-16 fighter jets for \$1.26 billion.

'Political motives are possible', he told reporters, according to Radio Free Europe's Bulgarian service. He added that emails sent after the leak calling for the resignation of Vladislav Goranov, the Bulgarian finance minister, had come from Russia. 'One can make a guess here,' he said. Mr Marinov, 47, did not say whether he suspected that the Russian state was involved.

Mr Goranov, 42, said that the hack had taken place before the F-16 deal had been approved, and he did not link the two. He confirmed that the data of millions of people had been accessed.

In an email to a television channel the purported hacker claimed to be a Russian citizen with a Bulgarian wife. He is understood to have called for the release of Julian Assange, the Wikileaks founder. There was no immediate response from the Russian authorities.”

The suggestion of hacking by “the usual suspects” was also made as a possible explanation for the failure of the electricity supply which occurred in the early evening of 9-August, although this denied by the authorities. This event occurred just as the homeward rush hour was getting under way. The official reason was later given as lightning strikes but what was unusual was that power cuts occurred over widely spaced parts of the country, not just within a confined area which might be expected if thunderstorm activity was the cause. It was noted that transport was especially disrupted with traffic lights in several towns and cities being knocked out and the electricity supply to commuter rail services badly hit. Trains were stopped from running and it turned out that in many cases that with the loss of power the modern, up to the minute carriages had no method of opening the doors and the windows are incapable of being opened anyway and so many commuters desperate to get home at the start of the weekend were left to swelter for some considerable time on a hot Friday evening. Not a bright prospect for anyone who suffers from claustrophobia.

The Times of 21-August carried an article on the initial findings into the loss of electricity supply with the headline, “Investigation into National Grid after worst power cuts in decades”, written by Emily Gosden, Energy Editor, which said among other things, “... The Hornsea One offshore wind farm off Yorkshire and the Little Barford gas plant in Bedfordshire both unexpectedly failed within seconds of each other. A series of small power plants also failed and National Grid did not have enough back-up power to cope with the combined losses, leading to supplies being cut to local networks.

Sixty trains operated by Govia Thameslink ‘reacted unexpectedly to the electrical disturbance’ and shut down by themselves; half could only be started by an engineer”.

It did not take long for the conspiracy theories to start with regard to this incident, hacking by Russia and North Korea was suggested by several callers on radio phone-in shows and perhaps the most intriguing suggestion that it was a limited cyber attack by the Chinese as a warning to the British government not to get involved with the pro-democracy demonstrations kicking off in Hong Kong; all denied off course, but there does seem to be more to this than meets the eye and I don't suppose we will ever know the truth.

Point to ponder:- “If you drive a car, I'll tax the street. If you try to sit, I'll tax your seat. If you get too cold, I'll tax the heat. If you take a walk, I'll tax your feet.”, from Taxman by the Beatles, from the album Revolver, available on compact disc, EMI Parlophone CDP 7 464412

Thanks Peter.

The Spectre 3000's News Round-up

The Guardian 23/08/2019

The Russian spy who posed as a Canadian for more than 20 years

Elena Vavilova's book offers rare insight into the Soviet deep-cover ‘illegals’ programme

“A spy has to be an actor, but an actor that doesn't need a public or a stage, and doesn't require the approval of others,” says Elena Vavilova, as she sips a cappuccino in a Moscow cafe.

Vavilova acted the part of a Canadian woman named Tracy Foley, an identity stolen for her by the KGB, for two decades. Almost no one knew her real identity, not even her own children. She was an “illegal”, a deep-cover Russian operative sent to the west along with her husband Andrei Bezrukov, who used the name Donald Heathfield.

Vavilova and Bezrukov were arrested at their Boston home in 2010, part of a group of 10 Russian spies detained by the FBI, most of them illegals living in the US as ordinary Americans or Canadians. They were deported to Russia in a spy swap that included media favourite Anna Chapman and also involved four Russians accused of spying for the west travelling in the other direction, including Sergei Skripal, who was infamously poisoned in Salisbury last year.

Vavilova has written a fictionalised account of her spying career, called *The Woman Who Can Keep Secrets*, and agreed to meet the Guardian at a cafe in central Moscow, the first time any of the deep-cover illegals has spoken to non-Russian media since their return to the country.

The book provides rare insight into the illegals programme, which was set up by the Soviet Union but continued in modern Russia. Its characters, just like Vavilova and Bezrukov, are a couple who meet at Tomsk University in Siberia in the 1980s, are recruited by the KGB into the top-secret programme and spend years in training before they are dispatched to Canada and the US.

The training includes long hours of language lessons to mimic native accents; evading surveillance, coding and other espionage tradecraft; and a period of living in a country house outside Moscow mocked up to mimic an US home, to help the young Siberians who had never travelled before learn about western life.

In real life, Bezrukov and Vavilova married in the Soviet Union before departing, but they left for the west separately in the late 1980s, staged a meeting in Canada, began “dating” and then married for a second time, this time using their new, Canadian identities. They never spoke Russian together. Vavilova speaks perfect English, though with a noticeable Slavic accent. During her life in the west she claimed to be of French Canadian origin to explain the accent.

The ideal illegal, she says, is someone who is average looking, does not attract attention and does not require external approval. During the final years before the arrests, when the couple were living in Boston, Vavilova worked as a estate agent, while sending regular coded messages back to controllers in Moscow.

Much of the book is devoted to how the couple managed life with their two children. Vavilova and Bezrukov's sons Alex and Tim were 16 and 20 respectively when the FBI made their arrests in 2010, and both believed their parents to be ordinary Canadians.

If Vavilova's story sounds familiar to fans of the US television series *The Americans*, it's because the creators based the show on the story of her family, though they moved the action back to the early 1980s. Vavilova says little of the television series bore much resemblance to reality.

“After watching *The Americans*, I thought: ‘Well, that's not the real work and that's not how it's done.’” The show captured the flashbacks and psychological dilemmas faced by illegals well, she says, but the sex and murder shown were not part of her work. Vavilova and Bezrukov used no violence and no disguises. The whole point was to create a fully believable character who would live a mainly “normal” life.

“If one day you come and do something like James Bond, then that's it and you're done, you can't sustain a longer life and work doing that. People think it's always on the edge, but actually most of it is very routine and very boring.”

She admits her preparation involved weapons training and karate, but says she never had to use it in the field: “The most it’s good for is self-confidence. In the beginning, if you don’t feel comfortable in certain neighbourhoods, you know that at least you can do something and remember a few moves and could get away from a robber or someone who attacks you.”

The FBI discovered the group because the US had turned Alexander Poteyev, the deputy head of Russia’s illegals programme, who escaped shortly before the roundup and is now living in hiding in the US. Vavilova confirms she knew Poteyev personally but says she is unsure if his decision to work for Washington was motivated by money or ideology.

In the aftermath of the 2010 spy swap, the general understanding was that the group had achieved little of intelligence value, but Vavilova claims this was not the case. “Of course I can’t talk about it, but I know what we were doing, and it doesn’t matter what others say,” she says.

On their return to Russia, the illegals were invited to the Kremlin to meet Vladimir Putin. Bezrukov now has a job teaching at a Moscow university and an advisory role at a Russian oil company. Vavilova also has a consultancy role at a company, though does not give details, and does not want to discuss current Russian politics.

She admits though that parts of returning home were hard. She left the Soviet Union in the 1980s during perestroika, Mikhail Gorbachev’s attempts to reform the country, and returned to Putin’s Russia, where two decades of capitalism have changed Moscow beyond recognition.

“I didn’t know anything about contemporary culture, and it was only when we came back that we discovered the main political figures of the day. The only news we had about Russia was short items we saw on CNN. It’s very strange to find out that we actually don’t know our own history.”

In many ways, she remains a patriot of the Soviet Union today. “I grew up during Soviet times, so that was my life, what I knew, what I believed in and what I thought was a fair society, so this hasn’t changed really,” she says. Yes, maybe it was not perfect, but no society is perfect.”

Japan Times 30/08/2019

Remains of North Korean spy vessel crew rest alongside war victims in Kagoshima

In the corner of a cemetery near the central part of the city of Kagoshima stands an independent ossuary. The charnel house, administered by the Kagoshima Municipal Government, is home to unidentified people who lost their lives in the bombings of the city during World War II. But few people know that among those laid to rest there are crewmen of a North Korean spy ship that sank off the coast in 2001.

Between March and August 1945, the city was hit by eight air raids that left more than 3,300 people dead. The remains of the unidentified victims of the bombings were laid to rest at the ossuary, which is periodically cleaned and decorated with flowers by residents appointed by the city.

It was in December 2001 when Kagoshima once again found itself in peril when a North Korean spy vessel entered Japan’s territorial waters in the East China Sea and sank there.

Toshimi Shiratake from Nagasaki, 64, who was then chief navigator of the patrol vessel Inasa that exchanged gunfire with the North Korean vessel, vividly remembers the crew aboard the ship.

“They looked brawny and seemed composed the whole time,” Shiratake said. “My intuition told me they were trained professionals.”

The North Korean crewmen ignored orders and warning shots from the Japan Coast Guard to stop and threw away what looked like articles of evidence. The vessel later caught fire but the crew managed to skillfully put out the blaze.

After a nine-hour chase, the North Korean crewmen retaliated by firing rounds from automatic rifles and rocket launchers, and the vessel later was engulfed by an explosion and sank.

Shiratake recalls having seen about a dozen men floating in the water right after the spy ship sank.

Fearing a possible counterattack from the sea surface, the patrol vessel crew threw life buoys but they soon disappeared in the waves.

The 10th Regional Coast Guard Headquarters in Kagoshima strongly suspected the men of being involved in smuggling stimulants.

The Coast Guard retrieved four bodies and the skeletal remains of four other people. Autopsies showed that there is an extremely high possibility that at least seven of the deceased men were from North Korea or South Korea. The investigators also concluded that at least 10 people were on board the North Korean spy ship.

Based on the act that covers the treatment of those who die during a journey, which applied in this case as the people were not recognized as Japanese citizens, the Kagoshima Municipal Government cremated the bodies and bones of the Korean vessel crewmen given that no one showed up to claim the remains. Their remains were treated the same way as unidentified homeless people who die in the city of Kagoshima.

It is believed the government sounded out North Korea to see if they could retrieve the remains. But according to the Japan Coast Guard, “the deal likely fell through” as the government was reluctant to further investigate the incident out of concern that it may hinder Tokyo’s efforts to resolve the issue of Japanese nationals abducted by North Korea.

The remains stored in the ossuary, alongside those of the victims of the Kagoshima air raids, also belong to people without kin who died in the city, as well as others who were buried there before the war and had no one to tend their graves. The city decided to bury the bodies of the North Korean vessel crewmen there, but the local authorities won’t openly disclose the exact place where their remains are buried to avoid any unexpected situations.

Many residents in Kagoshima visit the cemetery on a daily basis, and in late July some were visiting to offer flowers and burn incense sticks. But few come to the ossuary to pray.

When told about the North Korean vessel crew members laid to rest there, most passers-by said they had never heard of that before.

Reactions to the revelation varied.

“I’m opposed to burying them at the same place as the air bomb victims,” a 64-year-old housewife said with a grimace.

A 28-year-old man responded in a more positive way.

“Maybe commemorating them with respect could help improve the ties between Japan and the Koreans,” he said.

Japan Times 31/08/2019

Trump tweet of failed Iran launch raises worries about disclosure of U.S. surveillance secrets

WASHINGTON – U.S. President Donald Trump on Friday posted on Twitter a photo of what appeared to be the site of a failed Iranian satellite launch, raising questions about whether he had disclosed U.S. surveillance secrets.

The black-and-white photo showed the fire-blasted launch site at a space center in northern Iran, including a damaged gantry service tower and a downed mobile erector launcher.

Trump, in his tweet, cited the specific location of the site, saying the United States was not involved in the “catastrophic accident during final launch preparations for the Safir SLV Launch at Semnan Launch Site One in Iran.”

Speaking to reporters at the White House later on Friday, Trump defended his posting of the photo and reiterated that the United States had nothing to do with the incident.

“We had a photo. I released it, which I have the absolute right to do,” Trump said.

He said the Iranians “were going to set off a big missile and it didn’t work out too well. Had nothing to do with us.”

The rocket exploded on its launchpad on Thursday, an Iranian official said. A U.S. official also said Iran suffered a satellite launch failure.

“I wish Iran best wishes and good luck in determining what happened at Site One,” Trump said in his tweet.

Patrick Eddington, a former CIA satellite imagery analyst, said the photograph tweeted by Trump appeared to be a classified image taken by a U.S. spy satellite.

“If the president simply tweeted out an image from classified briefing that utilizes our most advanced overhead collection capabilities, it is no doubt welcome news to our adversaries,” said Eddington, now a research fellow at the Cato Institute.

“While he has the authority to declassify any federal document, Twitter is not a legitimate or responsible way to do so.”

A U.S. defense official told CNBC that the picture, which appeared to be a snapshot of a physical copy of the satellite image, was included in an intelligence briefing on Friday.

The Pentagon did not have any immediate comment.

The United States has warned Iran against rocket launches, fearful the technology used to put satellites into orbit could enable Tehran to develop the ballistic missile capability needed to launch nuclear warheads.

Tehran denies the U.S. accusation that such activity is a cover for ballistic missile development.

The Trump administration has ratcheted up economic pressure on Iran this year with economic sanctions to try to force it to renegotiate a pact reached with world powers in 2015 limiting its nuclear program. Trump withdrew the United States from the pact in May last year.

Trump has offered to hold talks with Iran but Tehran says first it must get relief from U.S. sanctions.

Thanks Spectre



Antennas seen at CSOS Irtan Moor, better known as GCHQ Scarborough

Chart Section Index

1. Prediction Chart
2. M01 Schedule
3. Family III
4. G06 Chart

September 2019

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Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
		x	x				0315		E11	03	7850 25#	7850 25#
x	x	x	x	x	x	x	0400		V13	0	11430	15388
x	x	x	x	x			0400		S06	01A	15721 480	15721 480
			x				0430/0450/0510		E07A	01B	6788/ 7488/ 9322 741	6788/ 7488/ 9322 741
				x		x	0435		E11	03	5779 35#	5779 35#
x							0450		E11	03	5371 41#	5371 41#
	x			x			0455		S11A	03	5371 32#	5371 32#
x	x	x	x	x	x	x	0500		V13	0	18040, 15388	15388, 11430
x		x		x		x	0455		HM01	18	10860	10860
	x		x		x		0455		HM01	18	11462	11462
			x	x			0500/0600	1/3	E06	01A	14370/16265 354	
	x			x			0530		M01A	14	9441 751	9441 751
		x	x				0530		M01A	14	9129 or 9192 498	9129 or 9192 498
		x	x				0540		M01A	14	7692 536	7692 536
x	x	x	x	x	x	x	0600		V13	0	16134, 11430	15388, 11430
x				x			0600		E11	03	12089 18#, check	12089 18#
x		x		x		x	0555		HM01	18	10345	10345
	x		x		x		0555		HM01	18	14375	14375
	x						0600/0610		S06S	01A	15855/16485 438	15855/16485 438
					x	x	0600/0620/0640		E07	01B	9064/10264/11464 024	9064/10264/11464 024
			x	x			0600/0700	1/3	E06	01B		18425/20230 186
	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	12140/13515 156, check	12140/13515 156
x							0630/0640		S06S	01A	22185/20050 462, check	22185/20050 462
x		x					0640		E11	03	12153 94#	12153 94#
	x		x				0645		E11	03	13424 51#	10800 51#
x		x		x		x	0655		HM01	18	9330	9330
	x		x		x		0655		HM01	18	13435	13435
	x			x			0700		E11	03	8180 57#	8180 57#
x	x	x	x	x	x	x	0700		V13	0	8169	8169

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
						x	0700		M01	01B	6510 463	6510 463
	x						0700/0710(15)		S06S	01A	5760/ 6930 452	5760/ 6930 452
	x			x			0700/0720/0740		E07	01B	16354/18654/19353 363	15962/17462/18562 945
	x		x				0700/0720/0740		M12	01B	search	
x		x					0700/0720/0740		XPA2	01B	10324/11524/13524 check	12192/13892/14892
					x	x	0710		E11	03	8102 49#	8102 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	search	12167/13437/14972
	x			x			0715		E11	03	9963 63#	9963 63#
	x			x			0720		M01A	14	9151 728	9151 728
	x						0730/0740		S06S	01A	7425/11560 427	7425/11560 427
		x					0730/0740		S06S	01A	11530/12140 172, check	11530/12140 172
x							0745		E11	03	10213 26#	10213 26#
		x		x			0745		E11	03	17410 34#	17410 34#
x		x		x		x	0755		HM01	18	9065	9065
	x		x		x		0755		HM01	18	11365	11365
x	x	x	x	x	x	x	0800		V13	0	8169	8169
x							0800	1/3	G06	01A	6810 329	6810 329
			x				0800/0810		E17Z	01A	14260/12930 217	14260/12930 217
	x						0800/0810		S06S	01A	11635/10420 127	11635/10420 127, check
					x		0800/0810	1	S06S	01A	10350/ 8520 132	10350/ 8520 132
					x		0800/0820/0840		E07A	01B	11153/12153/13453 114	11484/12184/13384 413
x		x					0800/0820/0840		XPA2	01B		
					x		0800/0900		M14	01A	4730/ 4650 523	4730/ 4650 523
					x	x	0805		E11	03	5371 31#	5371 31#
	x		x				0810/0830/0850		XPA1	01B		
x			x				0820		E11	03	5941 43#	5941 43#
	x	x					0820		E11	03	19184 13#	19184 13#
		x					0820/0830		S06S	01A	8630/ 9255 471, inactive?	8630/ 9255 471, inactive?

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x							0830/0840		S06S	01A	9220/ 8270 764	9220/ 8270 764
		x					0830/0840		S06S	01A	9082/ 9952 464	9082/ 9952 464
				x			0830/0840		S06S	01A	10855/11160 352, check cf. Fri 0830	10855/11160 352, check
			x	x			0830/0930		S06	01A	19035/15645 842	20312/16237 842
	x		x				0845		E11	03	12202 15#	12202 15#
x		x		x		x	0855		HM01	18	9240	9240
	x		x		x		0855		HM01	18	11462	11462
x		x					0900		E11	03	8180 53#, check	8180 53#
x							0900/0910		S06S	01A	14580/13165 232	14580/13165 232
				x			0900/0910		S06S	01A	5744/ 6524 239	5744/ 6524 239
x		x					0910/0930/0950		XPA2	01B	search	17471/16149/14406
			x		x		0910/0930/0950		XPA2	01B	15859/14659/13459	17438/16338/15938
x				x			0915		S11A	03	4505 48#	4505 48#
x	x	x	x	x	x	x	0930		M14	01A	16347/14878 617, only 10., (11.), 25.,(26)	17458/15994 617, only 10., (11.), 25.,(26)
		x	x				0930		E11	03	6940 27#, check	6940 27#
			x				0930/0940		S06S	01A	9081/10514 698	9081/10514 698
x		x		x		x	0955		HM01	18	9155	9155
	x		x		x		0955		HM01	18	12180	12180
	x			x			1000		E11	03	7840 30#, check	7840 30#
	x						1000/1010		S06S	01A	6410/ 7340 427	6410/ 7340 427
		x					1000/1010		S06S	01A	13365/14505 276	13365/14505 276
			x			x	1010/1030/1050		M12	01B		14769/16269/18169 721
x			x				1015		S11A	03	11493 47#	11493 47#
	x			x			1020		S11A	03	7469 42#	7469 42#
x		x					1045		E11	03	7317 69#	7317 69#
		x		x			1100		S11A	03	6433 37#	6433 37#
	x						1100/1110		S06S	01A	6190/ 7230 265	6190/ 7230 265
	x			x			1100/1120/1140		E07	01B	18438/16338/14938 439	17421/15871/13931 481
x	x	x	x	x	x	x	1200		V13	0	9725	9725
		x					1200/1300	1/2	G06	01A	5234, 5412 145	5234, 5412 145

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x							1200/1210		S06S	01A	9145/11460 149	9145/11460 149
			x				1200/1210		S06S	01A	12415/14212 175	12415/14212 175
	x	x					1205		E11	03	6923 46#	6923 46#
		x		x			1210/1230/1250		M12	01B	search	14416/13416/12216 442
			x				1300	1/3	G06	01A	4598 329	4598 329
			x		x		1300		E11	03	13873 58#	13873 58#
x	x	x	x	x	x	x	1300		V13	0	9725	9725
			x			x	1300/1320/1340		E07	01B	9064/10264/11464 024	9064/10264/11464 024
	x				x		1345		E11	03	13046 91#, check	13046 91#
x	x	x	x	x	x	x	1400		M08A	18	8096	8096
x		x					1400/1420/1440		M12	01B	16348/14484/13448 384	18369/17439/15839 648
				x	x		1400/1420/1440		XPA2	01B		17462/16114/14828
			x		x		1410/1430/1450		E07	01B	search	15849/14849/13449 746
					x		1500		M01	14	6260 463	6260 463
	x						1500/1510		S06S	01A	6464/ 7242 914	6464/ 7242 914
x					x		1500/1520/1540		XPA2	01B	search	
	x					x	1500/1520/1540		XPA2	01B		x16338/14538/ 13538, search
				x			1510/1530/1550		E07A	01B	10583/ 9383/ 8183 531	11424/10124/ 9124 411
x				x			1530		E11	03	5737 52#	5737 52#
			x				1530		E11	03	10330 26#	10330 26#
		x			x		1540		S11A	03	10800 56#	10800 56#
x	x	x	x	x	x	x	1555		HM01	18	11435	11435
	x	x					1600	1/3	M14	01A	5775 (tue)/ 6793 (wed) 239	5775 (tue)/ 6793 (wed) 239
x					x		1600/1620/1640		XPA2	01B		search
	x		x				1600/1620/1640		XPA2	01B	search	search
	x					x	1605		E11	03	6397 23#, check	6397 23#
		x				x	1625		E11	03	x10448 97#, search	x10448 97#
	x		x				1645		E11	03	10800 33#	10800 33#
				x		x	1650		E11	03	13873 92#, check	13873 92#
x							1700/1800	1/2	G06	01A	4792, 48772 145	4792, 48772 145
x	x	x	x	x	x	x	1655		HM01	18	11530	11530
		x				x	1700/1720/1740		E07	01B	12139/10639/ 9139 161	11156/ 9356/ 8056 130

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
				x			1700/1800	1/3	M14	01A	5945/ 5477 382	5945/ 5477 382
		x			x		1705		E11	03	4181 39#	4181 39#
		x			x		1730		E11	03	5844 40#	5844 40#
			x				1730		E11	03	7864 41#	7864 41#
		x					1740/1840	3	E06	01A		2015: 13457/10204 634, search
x						x	1745		E11	03	13470 24#	13470 24#
	x		x				1800		M01	14	5475 463	5475 463
x	x	x	x	x	x	x	1755		HM01	18	11635	11635
	x					x	1800/1820/1840		XPA2	01B	x14538/13538/ 12138, search	
x							1810		M01B	14	3535, 4590 420	3535, 4590 420 (summer time)
	x						1820	2/4	M14	01A	5945 346	5945 346
			x				1830	2/4	G06	01A	5934 579	5934 579
			x				1832		M01B	14	3510, 4605 201	3510, 4605 201 (summer time)
	x			x			1840/1850/1900	1	F01	01A	13467/11084/ 9052	11136/ 9074/ 7723
		x			x		1850		S11A	03	10213 28#	10213 28#
x			x				1900		E11	03	7317 64#	7317 64#
	x					x	1900/1910/1910 1930/1940/1950		XPB1	01B	search	
x		x					1900/1920/1940		E07	01B	14584/13384/11584 535	11539/10139/ 8139 9139? 511
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
				x	x		1900/1920/1940		XPA2	01B	16167/14663/13923	
				x			1900/2000	1/3	M14	01A	5275/ 4875 735	5275/ 4875 735
				x			1900/2000	1/3	S06	01A	8191/ 5943 627	
				x			1902		M01B	14	3625, 4941 153	3625, 4941 153 (summer time)
				x		x	1910		E11	03	8530 61#	8530 61#
x							1910		M01B	14		3625, 4440 153 (winter time)
x							1915		M01B	14	3645, 4455 771	3645, 4455 771 (summer time)
		x					1920	2/4	M14	01A	5464 537	5464 537
	x		x				1925		E11	03	7749 55#	7749 55#
				x			1930	2/4	G06	01A	5442 947	5442 947

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
					x	x	1930		E11	03	4505 36#	4505 36#
			x				1932		M01B	14		3510, 4605 201 (winter time)
			x				1940		M01B	14	3715, 4570 477	3715, 4570 477 (summer time)
		x		x			1950/2010/2030		M12	01B	13375/11575/10275 352	10984/ 9384/ 8084 930
	x		x				2000		M01	14	5020 463	5020 463
x	x	x	x	x	x	x	2000		M08A/ V02A	18	7554	7554
	x					x	2000/2010/2010 2030/2040/2050		XPB1	01B		search
x							2000/2020/2040		M12	01B	10343/ 9264/ 8116 463	10343/ 9264/ 8116 463
		x					2000/2020/2040		E07A	01A	8144/ 6944/ 5744 147	8144/ 6944/ 5744 147
				x			2000/2100	1/3	S06	01A		8191/ 5943 627
				x			2002		M01B	14		3625, 4941 153 (winter time)
				x			2010		M01B	14	3520, 4585(4940) 582	3520, 4585(4940) 582 (summer time)
x							2015		M01B	14		3645, 4455 771 (winter time)
			x				2030	1/3	E06	01A	5186 891	5186 891
			x				2040		M01B	14		3715, 4570 477 (winter time)

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC

M01/1

197

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

MAR APRIL SEPT OCT

M01/2

463

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

MAY JUNE JULY AUG

M01/3

025

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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	Remarks
	x	x					0315		E11	03	8565 25#	8565 25#	7850 25#	7850 25#	since 01/14, last log 08/19
			x		x		0435		E11	03	6849 35#	6849 35#	5779 35#	5779 35#	since 04/15, last log 08/19
x							0450		E11	03	7469 41#	7469 41#	5371 41#	5371 41#	since 02/10, last log 08/19 2nd transmission Thu 1730z
x			x				0455		S11A	03	5844 32#	5844 32#	5371 32#	5371 32#	since 09/14, last log 06/19 deleted?
x			x				0600		E11	03	11559 18#	11559 18#	12089 18#	12089 18#	since 07/15, last log 08/19
x	x						0640		E11	03	15800 94#	15800 94#	12153 94#	12153 94#	since 07/17, last log 08/19
x		x					0645		E11	03	13424 51#	13424 51#	13424 51#	10800 51#	since 07/09, last log 08/19
x			x				0700		E11	03	8680 57#	8680 57#	8180 57#	8180 57#	since 01/12, last log 08/19
				x	x		0710		E11	03	6480 49#	6480 49#	8102 49#	8102 49#	since 07/15, last log 08/19
x			x				0715		E11	03	10429 63#	10429 63#	9963 63#	9963 63#	since 02/11, last log 08/19
x							0745		E11	03	9610 26#	9610 26#	10213 26#	10213 26#	since 03/14, last log 08/19 2nd transmission Thu 1530z
	x		x				0745		E11	03	15720 34#	15720 34#	17410 34#	17410 34#	since 06/17, last log 08/19
				x	x		0805		E11	03	5737 31#	5737 31#	5371 31#	5371 31#	since 07/14, last log 08/19
x		x					0820		E11	03	4909 43#	4909 43#	5941 43#	5941 43#	since 10/09, last log 08/19
x	x						0820		E11	03	17378 13#	17378 13#	19184 13#	19184 13#	since 12/18, last log 08/19
x		x					0845		E11	03	12153 15#	12153 15#	12202 15#	12202 15#	since 07/17, last log 08/19
x		x					0900		E11	03	7439>7449 53#	7449 53#	8180 53#	8180 53#	since 10/05, last log 08/19
x			x				0915		S11A	03	5082 48#	5082 48#	4505 48#	4505 48#	since 04/19, last log 08/19
		x	x				0930		E11	03	6923 27#	6923 27#	6940 27#	6940 27#	since 02/14, last log 08/19
x			x				1000		E11	03	8180 30#	8180 30#	7840 30#	7840 30#	since 11/16, last log 08/19
x		x					1015		S11A	03	10210 47#	10210 47#	11493 47#	11493 47#	since 04/10, last log 08/19
x			x				1020		S11A	03	6977 42#	6977 42#	7469 42#	7469 42#	since 02/10, last log 08/19
x	x						1045		E11	03	8545 69#	8545 69#	7317 69#	7317 69#	since 03/18, last log 08/19
		x	x				1100		S11A	03	5149 37#	5149 37#	6433 37#	6433 37#	since 02/14, last log 08/19
x	x						1205		E11	03	6304 46#	6304 46#	6923 46#	6923 46#	since 03/10, last log 08/19 2nd transmission Mon 0450z
		x		x			1300		E11	03	11092 58#	11092 58#	13873 58#	13873 58#	since 02/16, last log 08/19
x				x			1345		E11	03	12984 91#	12984 91#	13046 91#	13046 91#	since 10/15, last log 08/19
x			x				1530		E11	03	5409 52#	5409 52#	5737 52#	5737 52#	since 05/15, last log 08/19 until 04/19 at 1225z
		x					1530		E11	03	10356 26#	10356 26#	10330 26#	10330 26#	since 06/14, last log 08/19 2nd transmission Mon 0745z
	x			x			1540		S11A	03	11092 56#	11092 56#	10800 56#	10800 56#	since 03/16, last log 06/19 deleted?
x				x			1605		E11	03	5371 23#	5371 23#	6397 23#	6397 23#	since 11/15, last log 08/19
	x			x			1625		E11	03	7863 97#	7863 97#	x10448 97#	x10448 97#	since 02/15, last log 08/19
x		x					1645		E11	03	14575 33#	14575 33#	10800 33#	10800 33#	since 06/17, last log 08/19
			x		x		1650		E11	03	12229 92#	12229 92#	13873 92#	13873 92#	since 05/16, last log 08/19
	x			x			1705		E11	03	4783 39#	4783 39#	4181 39#	4181 39#	since 02/14, last log 08/19 until 02/19 at 1955z
	x			x			1730		E11	03	7984 40#	7984 40#	5844 40#	5844 40#	since 06/16, last log 08/19
		x					1730		E11	03	8088 41#	8088 41#	7864 41#	7864 41#	since 03/10, last log 08/19 2nd transmission Mon 0450z
x					x		1745		E11	03	14410 24#	14410 24#	13470 24#	13470 24#	since 04/18, last log 08/19
	x			x			1850		S11A	03	12457 28#	12457 28#	10213 28#	10213 28#	since 06/17, last log 08/19
x		x					1900		E11	03	7600 64#	7600 64#	7317 64#	7317 64#	since 05/16, last log 08/19
			x		x		1910		E11	03	9610 61#	9610 61#	8530 61#	8530 61#	since 04/17, last log 08/19
x		x					1925		E11	03	12630 55#	12630 55#	7749 55#	7749 55#	since 07/15, last log 06/19 deleted?
				x	x		1930		E11	03	5082 36#	5082 36#	4505 36#	4505 36#	since 03/14, last log 08/19 2nd transmission Thu 1530z

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	Remarks
x							0800	1/3	G06	01A	7320 329	7320 329	6810 329	6810 329	since 07/10, last log 08/19 repeat at Thu 1300Z
	x						1200/1300	1/2	G06	01A	7525/ 6974 145	7525/ 6974 145	5234, 5412 145	5234, 5412 145	since 10/14, last log 06/19 yearly changing frequencies + id
		x					1300	1/3	G06	01A	5890 329	5890 329	4598 329	4598 329	since 09/11, last log 08/19 repeat from Mon 0800Z
x							1700/1800	1/2	G06	01A	5344, 5916 145	5344, 5916 145	4792, 48772 145	4792, 48772 145	since 04/10, last log 08/19 yearly changing frequencies + id
		x					1830	2/4	G06	01A	6887 842	6887 842	5934 579	5934 579	since 05/01, last log 08/19 repeat at Fri 1930Z
			x				1930	2/4	G06	01A	5935 218	5935 218	5442 947	5442 947	since 04/01, last log 08/19 repeat from Thu 1830Z

SPECIAL MATTERS

Thanks to all our contributors:

Ary, BR, DanAr, E, ER, HH, HJH, JkC, Jochen, KoB, KW, Malc, MaleAnon, PoSW, PLdn, RNGB, SloRoll,

Apologies to anyone missed.



MESSAGES:

E: Many thanks for your input here. See En115

RELEVANT WEBSITES

ENIGMA 2000 Website:

<http://www.enigma2000.org.uk>

Frequency Details can be downloaded from:

<http://www.cvni.net/radio/>

More Info on 'oddities' can be found on Brian of Sussex' excellent web pages:

<http://www.brogers.dsl.pipex.com/page2.html>

Time zone information:

<http://www.timeanddate.com/library/abbreviations/timezones/>

Encyclopedia of Espionage, Intelligence, and Security

<http://www.espionageinfo.com/>

EyeSpyMag!

<http://www.eyespymag.com>

2019						
Source: Vertex42.com						
January						
Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	
February						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		
March						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					
April						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				
May						
Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	
June						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						
July						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			
August						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
September						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				
October						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		
November						
Su	M	Tu	W	Th	F	Sa
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
December						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

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