ENIGMA 2000 NEWSLETTER

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East Berlin

[More inside]

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See last page also.

Please note, ENIGMA2000 will remain aloof from the ongoing UKR/RUS matter, making no comment other than on technical matters. Please do not make contact to discuss or offer material.

The same goes for matters affecting Israel.

Editorial

The year has passed relatively fast for some of us. As ever the news media has rejoiced with a variety of storylines, mostly gloomy and probably suffering the sort of embellishment one offers standing at a bar when telling of events as the booze takes its toll; as my father in law used to say, "The more alcohol, the faster the lips."
The UKR/RUS matter has had a great effect of number schedules with loss of voice and polytone schedules. The news abounds with cases of diplomats and students spying and one must notice the loss of these stations; possibly as a result [?].

NEW ENIGMA DESIGNATION

M14 – Family 1A New Variant M14d is assigned 30 October 2023
M14d Rare, 3-fig ID with additional 5f group In Call
e.g. 801 **79462** (R4) 625 34 etc.

(Credit to Pierre of Priyom who logged this variant on 06 Oct 2023)
Add to ENIGMA 2000 Active Station List V1.3 at end of M14 section

MORE IN BRIAN'S MORSE SECTION

Observations from PoSW:

Strange transmission in the 49 metre band, appeared to be some kind of meteorological station, also with a "French connection":-
27-Sept-23, Wednesday:- 1503 UTC, 6100 kHz, very strong signal in the 49 metre broadcast band, there is not much going on in this part of the short-wave spectrum in broad daylight, just after 4 PM BST and this drew attention to itself by the fact that it was so very strong; a male voice in the French language with what appeared to be weather information. At approx 1510z a female voice in English with a strong French accent with atmospheric pressures in hectopascals and what sounded like positional references in latitude and longitude.
Back to the OM in French again at around 1520z then the YL returning at 1530z with some kind of numerical information in both French and English. Ending with a cheery "That's all for today" . There was then a musical ending which went on until the top of the hour, a selection of theme tunes from TV shows and films, *The Good, the Bad and the Ugly; Star Wars; Gone with the Wind; The Pink Panther* to name but a few, no more than perhaps ten seconds or so of each - to avoid music copyright fees? This stopped around 1600 UTC, there was a short announcement of some kind – missed the details followed by plain carrier then off.

28-Sept-23, Thursday, similar transmission, same voices, ended with the YL voice at approx 1535 UTC with "That's all for today, we won't talk to you tomorrow neither Saturday as we are travelling to (missed it) so see you on Monday". Ended with music, classic rock this time, just the opening few seconds, some of my favourites as it happens, including *Riders on the Storm*, The Doors; *House of the Rising Sun*, The Animals; *You Really Got Me*, The Kinks and *White Room* by Cream - as though someone had been looking through my personal record collection.

29-Sept-23, Friday:- A different male voice, same one in both French and English, perhaps not a fan of music, no long musical ending today, went off air around 1535 UTC.

1-Oct-23, Sunday:- forgot to listen on Saturday the 30th - tuned in to 6100 at around 1522z,
YL in English back on duty, ended with a long session not of music but wildlife calls, certainly the call of the wood pigeon was heard at around 1543z

2-Oct-23, Monday:- tuned in at approx 1502 UTC, usual very strong signal, OM in French followed by YL in accented English, music from around 1540, went off suddenly at 1555 UTC.

And that was the end of it; I am usually near a radio at 1500 UTC, or soon after, on most days of the week but despite continued monitoring of 6100 kHz this station has not been heard again. Which poses the question - was this really information on weather for the benefit of seafarers or was it some kind of espionage-related number station disguised as such. A service for the matelots and Jack Tars would need to be transmitted at the same time every day to be of any use, for example the German Weather Service has several daily transmissions on 5905 and 6180 kHz, also in the 49 metre band.

Not number station related but possibly interesting:-

This year has seen an ongoing decline in traditional, amplitude modulation broadcasting on the medium wave band, something which has been going on for quite a while. The BBC runs a number of local radio stations on FM and DAB and at one time on AM/medium wave also, but many of the AM outlets have been taken off air over the last few years which is unfortunate because it is often the case that good medium wave reception is often possible in locations where FM and DAB can't reach. Also medium wave can be received on radios which consume less power than other types, the older LW/MW transistor radios which can operate for many hours on a set of batteries, certainly for much longer than any DAB radio running on batteries, an important consideration in an emergency situation where mains power might be off. Not that it matters much as regards BBC local radio because no one listens to them anyway - at least that is my observation having conducted surveys among friends, acquaintances and work colleagues in the past.

Most European countries also appear to have closed their medium wave broadcasters, for example The Netherlands, there used to be several stations in the Dutch language which were received with strong signals in the east of England and every radio of a certain vintage had the word Hilversum, a transmitter site in that country, on the tuning dial.

Returning to this year, January saw the end of Absolute Radio on medium wave, a commercial music station which was on 1215 kHz; in late January it was playing a looped message … "no longer on this frequency" and listing other ways to listen.
Going a bit further afield and lower in frequency, in April the Irish broadcaster RTE closed down their long-wave transmitter on 252 kHz which carried the RTE Radio 1 programme and had always put a good signal into eastern England. In the mid-April there was a looped message stating that RTE1 was no longer on long-wave.

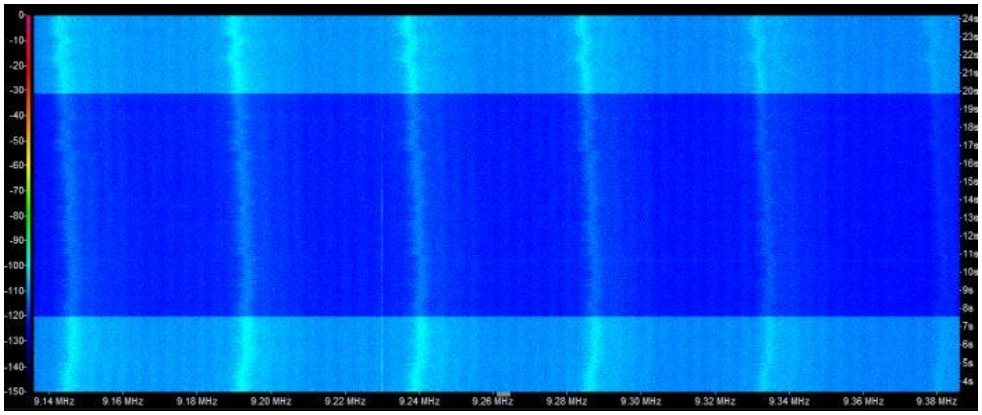
This high powered transmitter had come into being several decades ago as Atlantic 252, a commercial pop music station which was a rather strange enterprise given the limited audio quality available on long-wave when FM broadcasting was around and satellite music TV was becoming "a thing". RTE had announced the decision to close down 252 some time ago but it had been postponed on several occasions because there was a significant audience in the UK of people with connections to Ireland who listened to it, but it was probably the high cost of energy needed to run a powerful long-wave transmitter which probably did for it.

However, there are exceptions to every rule and one fairly recent newcomer to medium-wave/AM is Radio Caroline on 648 kHz, a frequency used by the BBC World Service for many years from a powerful transmitter on the Suffolk Coast, a legacy of the Cold War which closed down over a decade ago. The original Radio Caroline came on air in 1964 from a ship off the Essex coast, the first of several "offshore pirates" and in those days when radio stations identified in terms of wavelength rather than frequency was on 199 metres, "Caroline on one nine nine, your all day music station". The Marine Offences Act a few years later, passed by the Labour government of Harold Wilson with the support of the Conservative Party opposition apart from a handful of libertarian members - the two main political parties were two cheeks of the same backside then just as they are now - forced most of the pirates off the air although some including Caroline continued in some form or other for quite some time afterwards. It took over half a century for Radio Caroline to become legal! [Thanks Peter, interesting account for those of us of a certain age}

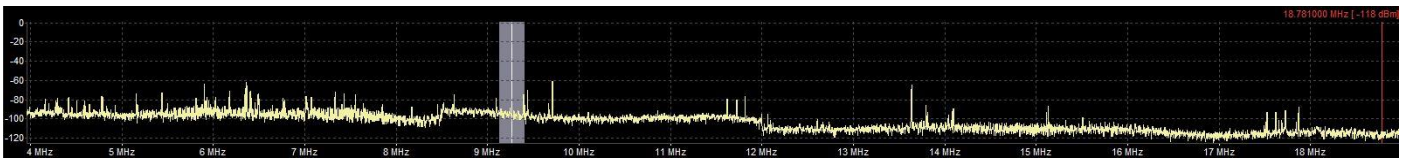
I'd like to thank those of you who help with the production of this newsletter; it's not easy to do and now retired, for me, its more difficult as my wife and I take on the responsibilities as grandparents.

Thank you also for those of you who offer your logs to us. I cannot receive E07 as well as others, a dead spot indeed. Whilst atop one of the highest points in London there are certain problems along with being in the wrong place; that of noise [E and PoSW too, it seems].
We are all being wired for Fibre and one would hope the QRM would disappear but this seems not to be the case as yet [and sadly, if at all].

Below is a screen from my live 9261kHz intercept of the 0600z 17/09 intercept of E07



The light blue being S6 noise; with my phase antenna remover switched in I can realise a S4 environment for a clear, but nonetheless, weak but readable signal, "224 224 224 000…." Some modes are more noise resilient, CW, XPA and XPB1 in particular.

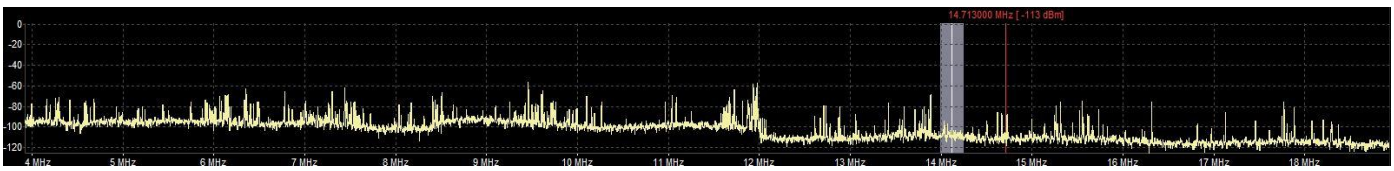


Between 8450 and 12000kHz the raised portion is an indication of the QRM received from internet distribution.

When this QRM will end is anyone's guess; there are a few PLT devices around too but not as popular as they once were. I place the router in the centre of my house and the coverage throughout the house, into the garden and some distance away in the street is brilliant.

Finally, a thank you to Rob, a blast from the past, who sent me a GCHQ advert with a rather cryptic comment at 0429 one morning. I was awake as it happens and took a peek. My laughter waking the missus up.

With variable propagation forecasts hrough September and my being away from radio between 05 to 16/10 I was heartened to receive FM transmissions from the US [Vermont] to Austria on 29600 and later on 29610kHz to Northern Ireland at 1630z on 17/10, prompting me to look at the spectral image on my SDR. Some excellent signals and way above the usual noise, as can be seen here:

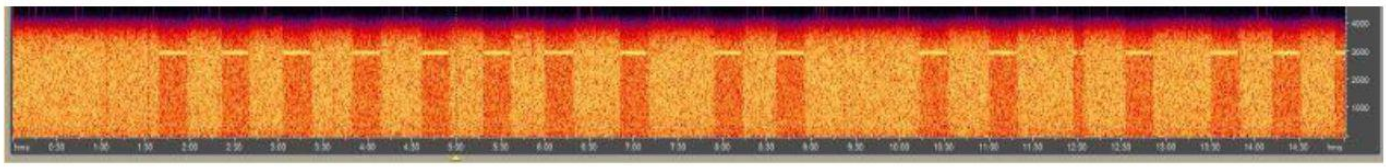


Increase in propagation c1635z 16/10/23

More QRM [as we move to Fibre]

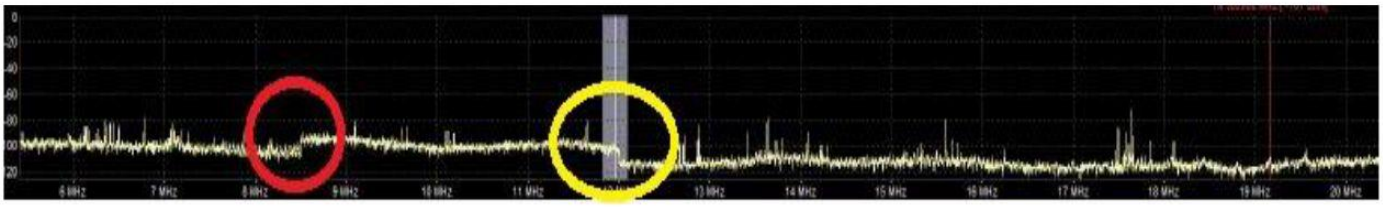
Expecting to hear a routine fair to strong 224 000 on the Sunday E07 0600z 03/09/2023, I was surprised to hear no E07 on 10261kHz and in the event of a message 0640z 11461kHz. but 18s bleeps instead:

E07 10261kHz 0620z 03/09 looks like this [the 9261kHz 0600z file looked the same too]

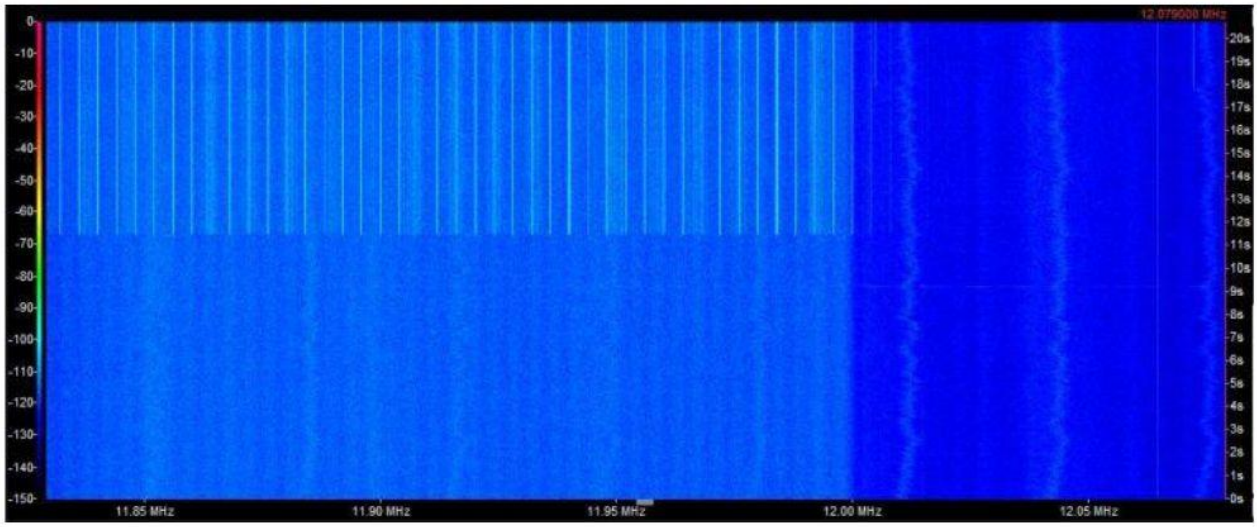


I had previously seen a hint of it on XPB1 for both the Saturday schedules at 1100 and 1200z on the 10 and 11MHz frequencies were used but discounted it as crud.

It needs no explanation. But a quick look across 7 to 30MHz revealed a telling structure between circa 8500kHz to 12000kHz:



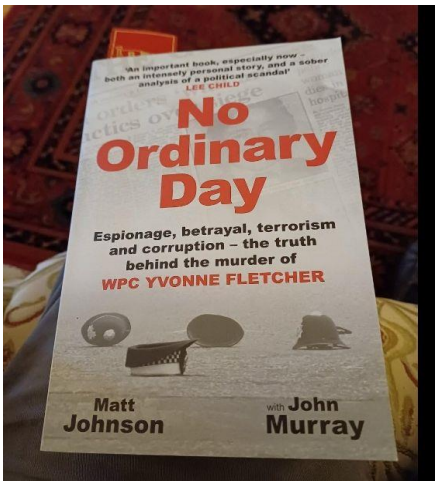
6000 to 20000kHz spectral view



As seen at 12000kHz; 8500kHz the same

Whilst this QRM was new at my QTH it has now thankfully disappeared.

Book Review



No Ordinary Day by Matt Johnson and John Murray

'No Ordinary Day' and certainly no ordinary book. The authors take the reader into the history and politics of the sad event of the shooting of WPC Yvonne Fletcher as she stood opposite the Libyan Embassy. I remember the blue tarpaulin shielding the scene at the time.

The authors dissect the event, illustrating the corruption, Libyan politics and more. Shayler & Tunworth, MI5, MI6 & GCHQ. It's all there.

This book outlines the lengths that politicians, of any political persuasion, will use to protect their interests in the name of 'National Security.'
The denials in both Libya and the UK and the total disregard for those who protect us, our police officers who police by consent, as we sleep.

In this book you will see how our our judiciary works and the problems that can occur (as with policing too) when politics become involved. You'll see direct Libyan Govt. intervention and its latest history. Not a pretty story.

This book reads very well, crime, espionage, assassinations, intercepts and inputs from security services. There's foreign travel and the manner of acceptance by national agencies is well described and somewhat surprising.

Everything in the book is fact, it is a splendid piece of work by the authors, well overdue and most readable. I recommend this book most heartedly.

This will be the last newsletter of 2023; the list owner and moderators particularly wish all those who have contributed throughout 2023, our members, those of N&O and Priyom and all other readers Compliments of the Season.

Happy Christmas

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Entrance to STASI Hq …Haus 7

Newsround

Great Britain

Russia linked hackers hit UK Ministry of Defence as security secrets leaked

Hackers targeted the database of a firm which handles the security for some of Britain's most secretive sites - including a nuclear submarine base and a chemical weapon lab
By
Kevin O'Sullivan
Simon MurphySenior News Reporter
21:09, 2 Sep 2023
UPDATED21:21, 2 Sep 2023

https://www.mirror.co.uk/news/uk-news/russia-linked-hackers-hit-uk-30850139

Top secret security information on British military and intelligence sites has been leaked online by hackers linked to Russia.

They released thousands of pages of data which could help criminals get into the HMNB Clyde nuclear submarine base, the Porton Down chemical weapon lab and a GCHQ listening post.

Information about high-security prisons and a military site key to our cyber defences was also stolen in the raid by group LockBit. Hackers targeted the databases of Zaun, a firm which makes fences for maximum security sites. The information was then placed on to the internet's dark web, which can be accessed using special software.

Last night Labour MP Kevan Jones, who sits on the Commons Defence Select Committee, warned: "This is potentially very damaging to the security of some of our most sensitive sites.

"The Government needs to explain why this firm's computer systems were so vulnerable. Any information which gives security arrangements to potential enemies is of huge concern."

We can reveal the information was stolen last month in a major attack on West Midlands-based Zaun, which makes fences and perimeter security measures for high-risk sites and provided security barriers at the London 2012 Olympics. LockBit is described as the world's most dangerous hacking gang and key suspects are Mikhail Matveev in the FBI's Most Wanted list after

Several Russian nationals have been held in America and Canada accused of cyber raids. LockBit is said to have financial links to Russian gangsters. In one leaked document relating to specific equipment bought to protect Porton Down, Wilts, Zaun describes its work there as "very secretive". Also published was a sales order detailing goods bought for HMNB Clyde – better known as Faslane, home to Trident nuclear subs.

The leaked documents also include a sales order report for equipment at GCHQ's communications complex in Bude, Cornwall. GCHQ describes Bude as playing "a critical part" in our security. The leak includes security equipment at RAF Waddington, Lincs, where the Reaper attack drones squadron is based, and Cawdor Barracks, whose 14th Signal Regiment deals in electronic warfare.

Detailed drawings for perimeter fencing at Cawdor, in Pembrokeshire, were attached to company emails. There is also a map highlighting installations at the site. Paperwork relating to a string of jails, including Category A Long Lartin, Worcs, and Whitemoor, Cambs, was also leaked.

We have chosen not to publish specific details about the equipment, while Zaun would not discuss ransom demands last night. A security expert labelled the incident a “devastating blow to our national security infrastructure”.

And Tory MP Tobias Ellwood, chair of the Defence committee, said: “How does this affect the ability of our defence establishments to continue functioning without threat of attack?

“How do we better defend ourselves from Russian-backed interference no doubt related to our stance in supporting Ukraine? Finally, this is another example of how conflict is no longer limited to the traditional battlefield, it now includes the digital domain and is placing ever greater demands on security apparatus.”

LockBit is said to have issued £80million in ransom demands worldwide. It has been on the radar of the FBI since 2020. Russian national Ruslan Magomedovich Astamirov was charged in the US “for involvement in deploying numerous LockBit ransomware and other attacks in the US, Asia, Europe, and Africa”.

The US Department of Justice said: “LockBit ransomware variant first appeared around January 2020. LockBit actors have executed over 1,400 attacks, issuing over $100million in demands and receiving tens of millions in Bitcoin.”

In 2022 the US announced charges against Mikhail Vasiliev, a dual Russian and Canadian national. He is being held in Canada and is awaiting extradition to the US. A second Russian, Mikhail Pavlovich Matveev, is wanted “for alleged participation” in separate LockBit

Zaun, which has alerted police, recorded a pre-tax profit of almost £700,000 in its last accounts. The firm said: “LockBit will have potentially gained access to some historic emails, orders, drawings and project files. We do not believe classified documents were stored on the system or have been compromised.

“The National Cyber Security Centre has been contacted and we are taking advice. Zaun is a victim of a sophisticated cyber attack and has taken all reasonable measures to mitigate any attack on our systems.”

The Government said: “We do not comment on security matters.”

'Every last detail helps enemies breach our defences'

The firm’s name might mean “fence” in German, but British company Zaun’s security barriers appear to have come crashing down, writes Professor Anthony Glees, Security and Intelligence expert.

It is a devastating blow to our national security infrastructure for details to be leaked on the dark web about security equipment provided to sensitive sites – including the home of Britain’s nuclear deterrent. It shows the ease with which Russia-linked hackers can breach high-strength computer systems at will.

The cache of documents relates to equipment made by high-security fencing specialist Zaun supplied to a host of sites. They include Faslane, home of the UK’s nuclear submarines, top-secret government lab Porton Down, and GCHQ’s Bude outpost.

Any hostile intelligence service would give their right arm to have these kinds of details.

A retired British Intelligence officer once told me that intelligence is like the bones of kippers. In and of them- selves the bones seem to be of little consequence – but, taken together, they are what make the kipper.

In other words, having access to specific security equipment at a sensitive site gives hostile actors a rich picture of what is actually there.

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Every detail about the UK’s defence estate is of huge interest to our foes. It follows other serious breaches involving Scotland Yard and the Police Service of Northern Ireland.

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https://www.mirror.co.uk/news/uk-news/russia-linked-hackers-hit-uk-30850139 [Ooops!]

British diplomats run to defend decision to surrender UK-owned Chagos Islands to close ally of China, after Boris Johnson described it as a 'spineless' move
Islands include Diego Garcia, a highly sensitive Anglo-American military base
Diplomats have said that whatever the outcome, the base will not be affected

By GLEN OWEN, POLITICAL EDITOR FOR THE MAIL ON SUDAY

PUBLISHED: 00:51, 24 September 2023 | UPDATED: 01:51, 24 September 2023

https://www.dailymail.co.uk/news/article-12553829/British-diplomats-defend-surrender-UK-owned-Chagos-Islands-close-ally-China.html

British diplomats yesterday rushed to try to defend the decision to surrender the UK-owned Chagos Islands to a close ally of China, after Boris Johnson described it as a 'spineless' move.

The former Prime Minister revealed that the negotiations to hand the archipelago to Mauritius as part of a transfer of sovereignty of the British Indian Ocean Territory were 'a done deal'.

The islands include Diego Garcia, a highly sensitive Anglo-American military base that has been called 'the unsinkable aircraft carrier in the Indian Ocean'.

Writing in his Daily Mail column yesterday, Mr Johnson said: 'We are apparently about to perform a U-turn and abandon the British Indian Ocean Territory.

'Just as the Chinese are building runways over every reef and atoll they can find – places that have never been Chinese possessions – we are throwing in the sponge.

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The islands include Diego Garcia, a highly sensitive Anglo-American military base that has been called 'the unsinkable aircraft carrier in the Indian Ocean'

'We are about to haul down the flag, casting doubt on a major western strategic asset.'

In May, in a report that said surrender of the territory was imminent, The Mail on Sunday highlighted that the plan had triggered 'serious concerns' in the White House due to the concentration of Western military hardware on Diego Garcia.

But diplomats insisted last night that whatever the outcome of the talks between the UK and Mauritius, a close ally of China, the base would continue to be operated by Britain and America.

A spokesman for the Foreign Office said: 'The UK and Mauritius have held five rounds of constructive negotiations on the exercise of sovereignty over the British Indian Ocean Territory/Chagos Archipelago, and officials will meet again soon to continue negotiations.

'The UK and Mauritius have reiterated that any agreement between our two countries will ensure the continued effective operation of the joint UK-US military base on Diego Garcia, which plays a vital role in regional and global security.'

https://www.dailymail.co.uk/news/article-12553829/British-diplomats-defend-surrender-UK-owned-Chagos-Islands-close-ally-China.html

How a woman-hating loner who worked at GCHQ became obsessed with an American spy and stabbed her at weekly netball match

Joshua Bowles, 29, was sentenced to life for the 'politically motivated' attack

By BETH HALE and GEORGE ODLING
PUBLISHED: 23:07, 30 October 2023 | UPDATED: 01:28, 31 October 2023

https://www.dailymail.co.uk/news/article-12690591/woman-hating-loner-worked-GCHQ-obsessed-American-spy-stabbed-netball.html

The Cheltenham leisure centre is an unlikely location for a spy drama, but on a dark evening in March, as a young woman prepared to head home after a netball match, she was subjected to a terrifying knife attack that rocked the intelligence community.

The brutal assault took place in the sports centre's car park, just three miles from GCHQ, the UK spy agency base.

The victim was a young American spy, the perpetrator a disturbed computer programmer who has also worked at the secretive listening post.

Joshua Bowles, who was described by his barrister as an Incel – a member of a woman-hating online community of men who consider themselves 'involuntarily celibate' having had their sexual overtures to women rejected – was sentenced to life yesterday for what the judge described as a 'politically motivated' terrorist attack.

It seems Bowles, 29, did not just have a grudge against women, but against his former employer and the wider intelligence community. Inexplicably, he vented his anger on a woman he didn't even know.

His victim was saved from fatal injuries by the intervention of two passers-by, and because Bowles, armed with two knives, 'fortuitously missed any major organ'. The stabbing was captured, at least in part, in chilling detail on CCTV.

The footage culminates in the victim, accompanied by a friend, running for her life back into the leisure centre's reception area, her attacker in pursuit.

One detail that was not revealed at London's Old Bailey, however, was the victim's identity. For obvious reasons, she remains anonymous, known only by a series of numbers: 99230.

A spy she may have been, but the victim was also a young woman living out her dreams, having landed a placement at GCHQ via the NSA (the US National Security Agency).

She was, as that game of netball suggests, happily throwing herself into life in the UK. Along with weekly matches with a local team, there was a UK-based boyfriend with whom she was planning to learn to windsurf. She had entered a half-marathon and was studying for a master's degree.

After the attack, she spent a week in hospital, with wounds to her lower abdomen, chest and right thigh. Her boyfriend's family supported her while her own relatives made frantic efforts to book flights.

In a victim impact statement, she told the court: 'He [Bowles] has had a profound effect on me and completely changed my life. It is very difficult to explain to people just how awful it has been.

'I went from being in the best shape I have ever been in, to the weakest I have ever been... I was hunted by him and I don't know why.'

CCTV showed Bowles at the venue a month before the attack. Prosecutors said the assault had been 'premeditated, targeted and vicious'

The attack saw Bowles lash out with a pair of knives, punching and stabbing the American several times

She and her companion - blacked out in the image above - then run for the leisure centre's reception in a bid to escape

She did not remember ever encountering or speaking to her attacker before, she said, and she has not been able to return to work, leaving her status as a resident in this country in question.

So how did 99230, a woman described in court as 'high-achieving, strong and capable', find herself the victim of the outwardly innocuous Joshua Bowles? And more pertinently, perhaps, how did a man who must have passed rigorous security clearances at GCHQ set out to kill a US spy?

The bearded, pale man in a grey jumper, standing in the dock of the Old Bailey on Friday and again yesterday, to be sentenced for attempted murder and assault occasioning actual bodily harm, was an unassuming figure.

Outwardly, Bowles's life was equally unremarkable. He has a younger sister and, until the events of March 9, lived with his parents at their modest semi-detached home in a suburb of Cheltenham.

He dropped out of his A-levels after becoming obsessed with online gaming, then took an access course, leading to a degree in computer science from Coventry university.

Bowles worked a few shifts at a record shop but, in the words of his defence counsel, he was socially 'isolated'.

He joined GCHQ in 2019 – his first job and a role that required him to pass GCHQ's Developed Vetting process. He had been given the organisation's highest level of clearance, sources told the Mail. His family are struggling to understand how he could have perpetrated such senseless violence.

'He has never done drugs, he has never smoked and he never drank,' his grandfather, retired toolmaker John Bowles, 77, told the Mail. 'GCHQ was the first job he had ever applied for – at the age of 26 – and two and a half years in, his head has gone.'

Insisting his grandson has never been interested in politics, Mr Bowles said: 'That place, GCHQ, in my opinion, has turned his mind and ruined his life.' The first signs of his coming descent occurred in 2021 when Bowles, who the court was told has a high functioning form of autism, took time off work suffering with depression.

When he returned to GCHQ he applied to be a higher-level programmer, but was offered only a temporary role – a rejection that led to his resignation in November of that year.

That grievance festered and was exacerbated by Bowles's obsession with the woman who had previously been in the job his intended victim was doing now – a woman who had spurned his advances.

In entries found on his computer, Bowles wrote: 'Nothing will impress her intellectually, can't impress her physically, therefore it is over, suicide is the way.' In the buildup to the leisure centre attack, Bowles made various disturbing searches online.

He was not only familiar with 'incel' culture, the court heard, but researched serial killer Theodore Kaczynski – a mathematician known as the Unabomber, who lived as a recluse and ran a mail-bombing campaign in the US from the 1970s to the 1990s – along with attacks on women and white supremacy. On the latter, he had written: 'This is war, they are replacing you, demoralising you, f*** their system.'

More chilling still was the preparation Bowles put into his attack.

He researched his victim online, looking up her Facebook and Instagram posts, along with two other US nationals who had also worked for the NSA at GCHQ with him. In the month before the attack, he made almost daily visits in his car to GCHQ and visited the leisure centre on a 'dry run' on February 9, a month before the attack, when his victim's netball team was playing a match.

Whether or not he intended to attack that night is unknown; if he did, he was thwarted by the fact his intended victim was absent.

The attack itself unfolded shortly after 9pm when 99230 and her friend, a fellow American woman identified only as 25869, left the leisure centre to walk to their car.

'Excuse me,' Bowles said to them, before he attacked. The victim described how Bowles just kept coming at her with his knife. 'He just wouldn't stop,' she said.

The attack was temporarily halted by the intervention of a man on his way to play football, who was alerted by her screams.

The women took their chance to run back to the centre, but Bowles followed and resumed his attack. A second bystander, Steve Bunn, restrained Bowles, then asked him if he was OK. Bowles said: 'No, I've just tried to kill her.'

Bowles told Mr Bunn that they both worked at GCHQ and if Mr Bunn 'knew what they did there then he would understand'.

In a rambling statement to the police, Bowles said: 'The system is rigged. I believe the intelligence community helps ensure this rigging, this view has been reinforced by my time working at GCHQ.

'The target was selected for her employment at the NSA. Due to the size and resourcing, American intelligence represents the largest contributor within the intelligence community so made sense as the symbolic target.

'I consider GCHQ just as guilty. Any mental health issues I may have, have been induced by the weight of the truth and the bleakness of the situation. Due to fear of retribution from the intelligence community I do not wish to divulge any details of the advanced capabilities I had exposure to whilst working in intelligence.'

Tim Forte, defending, said Bowles's twin motivations were 'rejection by the object of his affections' and a desire to hurt his ex-employer 'for employment reasons'.

Mrs Justice Cheema-Grubb did not agree, sentencing Bowles to a minimum life term of 13 years.

The judge said Bowles's internet history showed he had a 'deep disaffection with society and a desire to challenge authority'.

She told him: 'The court cannot avoid the conclusion that a significant part of your motivation was that your action would have an adverse impact on the intelligence communities of the United Kingdom and the United States. This was a politically motivated attack.'

Additional reporting: Duncan Gardham

https://www.dailymail.co.uk/news/article-12690591/woman-hating-loner-worked-GCHQ-obsessed-American-spy-stabbed-netball.html
[Thanks E … updated as sentence applied].

Norway

PST arrests young Malaysian for spying

September 11, 2023

https://www.newsinenglish.no/2023/09/11/pst-arrests-young-malaysian-for-spying/

Norway's police intelligence agency PST has charged a 25-year-old Malaysian citizen with spying on the Office of the Prime Minister, the defense ministry and other government offices in Oslo. He allegedly drove around or parked near them in a rental car, and tried to tap into their electronic communications.

Norway's defense ministry was among the government offices believed to be a target of alleged spying from the rental car of a young man with a Malaysian passport

"We face quite an extensive investigation and have just begun," state prosecutor Thomas Fredrik Blom told Norwegian Broadasting (NRK) on Sunday, shortly after a local court ordered the 25-year-old held in custody for at least four weeks while the investigation continues. The defendant will be kept in isolation for the first two weeks.

"We're not quite sure what we're up against," Blom told NRK. "We're in a critical and preliminary phase of the investigation." He added that there's a "real and high" danger of tampering with evidence, so much so that isolating the defendant was deemed necessary.

NRK reported that court papers reveal how police think the young man would want to communicate with others involved in the alleged espionage. Police therefore need "to secure several technical items without the man interfering" with the investigation.

"There's such danger of tampering with evidence that we're being very careful with what we can reveal right now," Blom said.

SENT SIGNALS: PST (Politiets sikkerhetstjeneste) said the man was arrested Friday night, after his rental car's movements were picked up by surveillance cameras mounted outside the government offices he's believed to have targeted. His car was photographed repeatedly within a certain time period and he's charged with signaletterretning from the vehicle. That's the Norwegian term used for trying to tap into electronic signals including mobile phone conversations, text messages, email surveillance or electronic signals from weapons and tracking devices.

Newspaper Aftenposten reported Monday that the most common form of such spying involves mobile phone surveillance with the help of false base stations and so-called ISMI-catchers. The man's car landed on PST's own watch list and he reportedly was under PST surveillance himself before being arrested.

He's claimed to be a student but lacks ties to any Norwegian educational institutions. PST said he had not been in Norway very long and there were concerns he'd try to flee and return to Malaysia, especially since Norway has no extradition treaty with Malaysia.

Norwegian investigators think others were involved in the alleged espionage. It remained unclear who the defendant may have been working with or for. Both PST and Norway's military intelligence agency Etterretningstjenesten (E-tjenesten) have repeatedly warned, long before Russia invaded Ukraine, that both Russia and China represent the biggest security threats to Norway and that both carry out extensive espionage in Norway. Iran and North Korea have also been targeted as countries posing "a considerable espionage threat" against Norway. PST officials stressed that they do not believe authorities in Malaysia are behind the man's alleged spying, suggesting he held a passport of convenience.

Ola Kaldager, a former leader of Norwegian intelligence group E14, told NRK on Monday that there are "considerable" espionage operations going on all over Europe at present and "on both sides" of Russia's war on Ukraine. The Russians, he said, want to follow, for example, the extent of Norway's support for Ukraine and how long it can last. He noted that "a young guy" like the defendant now in custody normally wouldn't arouse supicions, "but if he's not trained and can't do his job, it can quickly go wrong."

The defendant has denied any punitive liability but has so far refused to answer PST's questions. His defense attorney, Aase Karine Sigmond, told NRK that her client was simply too shook up after what he described as a "dramatic" arrest. "He was so afraid and upset after his arrest, and after he was denied access to documentation in the case, that he wasn't able to explain himself," Sigmond told NRK. "We'll attempt a new round of questioning after he's been transferred to prison."

Blom of PST claimed the arrest itself was not dramatic. Details of where and how it occurred were withheld, apart from the time of his apprehension: 9:10pm on Friday. Norway's national security agency NSM (Nasjonal sikkerhetsmyndighet) confirmed to NRK that they're supporting PST in its case against its latest suspected spy.

NewsinEnglish.no/Nina Berglund

https://www.newsinenglish.no/2023/09/11/pst-arrests-young-malaysian-for-spying

See also: https://abcnews.go.com/Business/wireStory/foreign-student-arrested-norway-suspicion-espionage-including-electronic-103069668

Scandinavia

Scandinavian spy drama: the intelligence chief who came under state surveillance How Lars Findsen and Claus Hjort Frederiksen came to be facing trial for allegedly disclosing 'state secrets' that had been in public domain for years

Harry Davies
Mon 2 Oct 2023 12.00 BST

Lars Findsen was in police custody when he discovered that spies from Denmark's domestic intelligence agency had tapped his phone and wired his house with bugs.

The spies, he learned, had spent months eavesdropping on his daily life at home, recording hundreds of hours of his conversations in his home, including with his three children.

It was the kind of intrusive surveillance operation normally reserved for a suspected terrorist or enemy foreign agent. Findsen was neither; he was Denmark's top spy chief.

Findsen had spent decades working at the highest levels of the secret services. He was appointed head of the country's foreign intelligence service in 2015. Previously, he had run its sister domestic agency which, he now understood, had been monitoring his every move.

In custody, Findsen was presented with reports from the operation. "That was the shocking thing," he told the Guardian, "to sit and look at your life transformed into police reports written from surveillance tapes."

This autumn, the 59-year-old spymaster is due to stand trial on charges that he disclosed state secrets to journalists and close relatives including his 84-year old mother, in a series of conversations that appear to have been recorded by the tiny listening devices that were hidden in his home.

The prosecution of such a senior intelligence official may seem extraordinary, but shortly after the proceedings get under way, a separate trial will open in which Findsen's former boss at Denmark's defence ministry will face similar charges.

The veteran government minister Claus Hjort Frederiksen is a towering figure in Danish politics who has held multiple senior cabinet positions. As defence minister until 2019, he oversaw the intelligence service run by Findsen.

The criminal cases have rocked Denmark, a scandal that's turned spy against spy and thrust into the spotlight one of the country's most closely guarded secrets – which both men now stand accused of betraying.

At stake, however, is more than the fate of two individuals. The drama has had a profoundly chilling effect on the Danish media and given rise to a slow-burning political crisis about the lengths to which an otherwise liberal European democracy is prepared to go to control its secrets.

Alarmed by the government's handling of the affair and the criminal proceedings it is now pursuing, one of the country's top legal professors recently asked: "What's going on? Hello, we are in Denmark, a state governed by the rule of law. Not Belarus."

In exclusive interviews with the Guardian, Findsen and Frederiksen have spoken for the first time with international media about how they became entangled in this often confounding series of events.

Neither the intelligence chief nor ex-minister are legally permitted to discuss the specific charges against them, and their respective trials are due to be held in highly unusual secret proceedings.

Prosecutors have charged them with offences amounting to treason under a section of the criminal code not used for more than 40 years. Under the draconian law, those found guilty can be imprisoned for up to 12 years.

Both men believe they're innocent. Findsen has described the charges against him as "completely insane", while Frederiksen believes his case is politically motivated, likening it to a bewildering "hoax". "To understand what's going on with me at the moment," he says, "think of Kafka".

Just one of the bizarre aspects of both cases is that the unmentionable state secrets the men are alleged to have leaked are now open secrets and widely known to relate to a long-standing intelligence partnership between Denmark and the US.

The secret deal – the "crown jewels" of Danish intelligence – was hidden from the public until details began to emerge in 2014, when documents leaked by Edward Snowden revealed how European countries such as Denmark help facilitate the US's globe-spanning electronic surveillance.

The disclosures have cast a long shadow over the scandal that's ensnared Findsen and Frederiksen. The scale of western intelligence agencies' bulk surveillance programmes may have faded from most memories. In Denmark, repercussions of Snowden's leaks are still playing out today.

Spy turns whistleblower

On the windswept southern tip of Amager, the island immediately south of Copenhagen, there is a cluster of drab grey buildings surrounded by a high barbed-wire fence and watchful surveillance cameras. Known as "the Farm", the site is home to Denmark's foreign intelligence service, and it's where one of its young officers set the story in motion.

In June 2014, the Danish newspaper Dagbladet Information published a piece based on Snowden's leaks revealing a secret agreement between the intelligence service, known as DDIS, and the US National Security Agency to tap fibre-optic cables transporting internet traffic through Denmark.

The article provided the first glimpse of one of the nation's most sensitive secrets and appears to have caught the attention of the intelligence officer who worked as a hacker in the agency's cyber-division.

Former colleagues said he was viewed as a rising star, though he was also known to be suspicious of the agency's relationship with the NSA and had concerns the US was illegally collecting Danish citizens' data.

The intelligence officer, who was in his 30s, helped launch an internal investigation, codenamed Operation Dunhammer, into whether the NSA was abusing the cable-tapping deal. When its findings were shared with senior managers, his concerns were dismissed as unfounded and he was ordered to cease the investigation.

Rather than drop it, the spy took the extraordinary step of beginning to secretly record conversations with colleagues. Conversations about the NSA partnership with Denmark's most senior spymasters, including Lars Findsen, appear to have been among those captured over a period of several years.

Today, Findsen is sharply critical of the officer and says there was "no basis" for his actions. He was, he says, "unhinged and had his own narrative".

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In late 2019, the officer's concerns found their way to the independent oversight body that supervises Danish intelligence, which took possession of his secret recordings – as many as 100 hours of audio – as well as the internal Dunhammer report. Behind closed doors, the spy had turned whistleblower.

A 'historic scandal'?

In August 2020, "all hell broke loose", a former intelligence official recalls. The independent watchdog, led by a senior judge, revealed in a brief statement that it had obtained a large amount of material from a whistleblower and listed a series of incendiary allegations about how the DDIS spy service was operating.

Among its findings, the body warned there were "risks in the central part of DDIS's intelligence gathering capabilities that unauthorised intelligence has been gathered on Danish citizens". The statement was not explicit, but according to former officials this was a reference to data collected under the NSA cable-tapping programme.

The fallout was immediate. Findsen and several colleagues at the agency were placed on indefinite leave. "It was not a nice situation," says Findsen.

The media branded the findings a “historic scandal” and suggested the spies were working outside the law, effectively acting as a “state within a state”. As one front page read: “Spy chiefs accused of illegal surveillance”.

Responding to the coverage, Frederiksen, who had left the defence ministry a year earlier, defended Findsen and the other officials. “This is what triggered my involvement in this case,” Frederiksen says. “I knew them as loyal employees, dedicated and honest people, who were unjustly labelled as having done something wrong.”

In September 2020, Frederiksen publicly criticised the decision to publish the watchdog’s findings and, crucially, while defending the DDIS employees he appeared to provide the first on-the-record confirmation of the existence of the cable-tapping deal with the US glimpsed in the Snowden leaks.

Frederiksen acknowledged the arrangement again in subsequent interviews and went further in another media appearance in December 2021. “I’m going to be careful what I can say, otherwise I’ll risk a prison sentence,” he said on live TV before remarking that Denmark “greatly benefits from being allied with the NSA”.

Shortly before the interview, a government-appointed panel of judges had rejected the independent watchdog’s findings, seemingly drawing a line under the controversy.

Behind the scenes, there had been a remarkable twist. People close to Findsen were suddenly unable to contact him. It was as though he’d disappeared.

What only a few in Denmark knew was that, days earlier, a group of armed officers had stopped the spy chief at Copenhagen airport and, before anyone could notice, quietly arrested him.

‘Microphones were everywhere’

Speaking to the Guardian as he prepares for trial, Findsen appears relaxed, though there is undoubtedly a quiet anger as he describes the events of the past three years.

Released from prison in February 2022 after 70 days in custody, Findsen technically remains head of the spy agency DDIS, albeit suspended and on two-thirds salary. He says he cannot be certain he’s not still under surveillance.

Suddenly finding himself in prison, he says, was strange. “There were no other spy chiefs,” he jokes. He says he established good relations with the other prisoners. “They were much younger than me. They were there for things like drugs, arms dealing and kidnapping, so it was a different environment for me.”

Findsen’s close ties to the domestic service, which he previously ran after 9/11, added to the sense of betrayal when he came to understand colleagues had authorised a surveillance operation against him, which he believes lasted for more than a year.

“The microphones were everywhere,” he says, not just in his kitchen and living rooms, but in his car and holiday home.

In custody, he was shown the surveillance reports being used as evidence against him. His daily family life was described in the kind of documents he’d spent a career in intelligence reading. “I was talking to my children when they came back from school and things like that.”

Perhaps unusually for a spy chief, Findsen had developed relationships with journalists, on which he’s believed to have relied to counter negative stories about DDIS once sent home in 2020 after the watchdog’s damning statement.

Prosecutors allege that Findsen shared state secrets with two reporters, as well as close relatives, his girlfriend and an old friend. Much about the case remains shrouded in secrecy but Danish journalists reported last year that prosecutors allege Findsen’s conversations related to the NSA cable-tapping partnership.

In April 2021, for example, he is alleged to have spoken to his 84-year-old mother about the whistleblower who raised the alarm about the deal. Many of the conversations, it is alleged, risked causing “significant damage” to Denmark’s “security and relations with foreign powers”. Unable to discuss the specific charges, Findsen describes them as “crazy and ridiculous”.

As for the whistleblower, he remains an elusive protagonist at the heart of the affair. Now in his 40s, he’s never spoken publicly. He no longer works at DDIS and appears to be living a quiet life in the countryside running a small cybersecurity business. He did not respond to the Guardian’s requests for comment.

State secrets in the public domain

In December 2021, a week after the Frederiksen, the former minister, mentioned the NSA cable-tapping deal on television, police officers turned up at his home. Standing outside the thatched fisherman’s cottage, the officers informed the 76-year-old he’d been charged with treason.

The charges have been brought under a section of the criminal code last used against an East German Stasi agent in 1979. It is the same law that is being used in Findsen’s case but Frederiksen is accused of disclosing classified information in media appearances rather than in private. He denies revealing state secrets in the interviews, since the information he shared – which he can no longer repeat – had been in the public domain since the 2014 Snowden story.

“The present government is of the opinion that a secret is a secret,” Frederiksen says. “It might have been described in the newspapers, but they still say it’s a secret.” In court, the trial is expected to turn on whether an open secret can still be a state secret.

The paradox in both cases is that Findsen and Frederiksen, according to people who know them, are staunch believers in DDIS’s US partnership and proud of its special relationship with the NSA. They are not themselves whistleblowers.

Prosecutors are nevertheless seeking custodial sentences for both men. Frederiksen believes the courts will ultimately find it hard to send someone in his mid-70s to prison, and says he will “fight to the bitter end”. The strain on him is clear.

After retiring as an MP last year following 22 years in frontline politics, his time is now spent talking to defence lawyers as well as visiting his wife each day at a care home. She has Alzheimer’s and does not understand the legal jeopardy her husband faces.

“I thought my retirement would mean peaceful periods where my wife and I could have travelled,” he said. “But everything just went wrong and I was accused of serious crimes.”

A sense of disbelief

The former minister believes that Denmark’s centre-left prime minister, Mette Frederiksen, must have ultimately authorised the prosecutions.

“I’m fully convinced that this is a political case,” he says. “It’s a decision that had to be made at a very high level.”

Former officials agreed that the decision to pursue the cases and spy on an intelligence chief is likely to have been signed off by a security committee chaired by the prime minister. They also point to the fact that prosecutions under the rarely used section of the criminal code require the approval of a senior minister.

Denmark's justice minister, Peter Hummelgaardsaid in a statement: "I'd like to emphasise that neither the prime minister, myself, the former minister for justice, nor any other minister in the government has approved investigative steps taken in the cases against Frederiksen and Findsen."

In Copenhagen, among the officials, former spies and journalists who spoke to the Guardian for this article, there's a sense of disbelief about what's transpired.

"Never in my wildest dreams did I think that something like this was possible in Denmark," says Hans Davidsen-Nielsen, a reporter at Politiken.

The veteran security reporter is one of the journalists who prosecutors allege received classified information from Findsen. He may be called as a witness in the trial this autumn, and says he will refuse to testify, preferring to risk punishment rather than discuss his sources.

Shortly after Findsen's arrest in 2021, police summoned several other journalists as witnesses as part of a wider leak investigation. At around the same time, the intelligence agencies held meetings with the top news publishers and warned them that journalists could also be charged for disclosing classified information.

"The case has had a massive impact on the free press in Denmark," according to Davidsen-Nielsen. "Official sources have now to a great extent disappeared because they do not dare talk to us."

Frederiksen believes the forthcoming criminal trials are part of a wider crackdown against leaks from officials. "The idea is to scare officials in the secret services but also in the central ministries in Copenhagen." The government, he says, is trying to warn them: "You should see what happens when you talk to journalists."

Additional reporting by Lucy Hough

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 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.

Some odd happenings on the Morse side of short-wave over the last two months, all of which are reported below. As PoSW has been following much of this activity, we thought that starting with his report would be an excellent start to set the scene.

Interference Problems & Various Morse Activity. A Report from PoSW

Plenty of number station activity in the last two months and a rather strange Morse signal, first noted in mid-October, close to the frequency often used by M23, which has been transmitting words in the French language, each word being sent for several minutes, slow CW, then changing to something else. Appears to be a round-the-clock operation although signals are often not very strong in the daylight hours.

RF Interference
RF interference remains a problem; very strong from about 1400 to 3000 kHz, tails off above this to enable reasonable reception of the Shannon VOLMET station on 3413 kHz which is usually a strong or very strong signal in the hours of darkness, and again the interference starts to become strong again above 8550 kHz up to around 11500 kHz when it starts to reduce. That this is internet related being radiated from the overhead phone lines was proved a few weeks ago when the internet failed, the amber LED on the router was flashing which indicates "no internet". This has happened before but only for a minute or two; on this last occasion it was off for the best part of an hour and tuning around on the radio the severe interference was gone. There were other kinds of interference but at a very much lower level which would present no real problem to radio reception. When the internet returned so did the interference. Not much to be done about that, I guess. *(A position we all sympathise with, Peter. VDSL broadband uses short-wave up to 30MHz & radiates from open, usually overhead copper wires – i.e. Antennas! - Ed)*

M23 CW on 5345 kHz:-
This strange Morse station had been noted in early August sending the letters "MY" once every fifteen minutes - approximately - and this carried over into September for a time; it was certainly still going in the second week of that month:-

11-Sept-23, Monday:- 2134 and 25 seconds, approx. "MY" heard and again at 2149:25s.
No further monitoring done until the weekend, Saturday the 16th when there was no sign and not heard again over the following days.

The next activity of note was in early October which appeared to be a "one off" unless it was the last appearance of a schedule which had been running for some time:-

5-Oct-23, Thursday:- 1427 UTC, casually trawling through the memories on a receiver while waiting for the 1430z Thursday E07 to start, one of which was 5345, surprised to hear strong slow CW sending "O3S". Returned to 5345 after logging the E07 but it had gone and was not heard again on following days when monitored from around 1415 to 1430 UTC.

Nothing of any great significance noted on this frequency until the start of the third week in October:-

Mystery French Morse
15-Oct-23, Sunday:- 0632 UTC, surprised to find slow CW, presumably from the same source as M23 - or maybe not, the frequency seemed to be slightly higher than the regular 5345 kHz used by M23, see comment further down - but not the usual combination of numerals and letters but words in the French language, and at times a single letter. At this time was sending "MANGER".

0719 UTC:- "COUVERTURE", 0809 UTC a single "dit" presumably the letter "E"
0851 UTC:- "SURPRISE". Was still in French vocabulary mode when checked later on in the day:-
1741 UTC:- "MONTRE", 1744 UTC:- "Z", 1805 UTC:- "RESTAURANT",
1824 UTC:- "B", 1837 UTC:- "ROCHER", 1857 UTC:- "ARTISTE" 2112 UTC:- "BANANE"

Has been heard every day since the 15th, certainly early mornings and in the evenings, in this modus operandi. Most of the words found in my ancient copy of the Collins Gem French Dictionary, published by Collins of London and Glasgow and Hachette of Paris, a few of them not in there.

Signal not as strong as the more usual M23 transmissions of recent times, especially in the daylight hours but reasonably clear in the evenings and early mornings, might be down to the vagaries of the ionosphere and propagation. Also the frequency seemed to be slightly higher than 5345, perhaps "point something" or even 5346 - using conventional receivers with readout to 1 kHz, no doubt someone using SDR will be able to confirm the frequency to the nearest Hz. *(Confirmed as 5345.8kHz - Ed).*

Update:- Still on with the old French parlez-vous in the last days of October:-

30-Oct-23, Monday:- 0659 UTC, "KANGOUROU"; 0726 UTC, "BUS"; 0827 UTC, "B";
1926 UTC, "ETOILE"; 1959 UTC, "CHIEN"; 2003 UTC, "HIRONDELLE" - signal very weak here.

Perhaps this has nothing to do with M23; noticed on several occasions that a strong carrier lasting a second or two on 5345 kHz exactly at five minutes before the hour – roughly - which is more in keeping with the behaviour of M23 so perhaps this apparently French station is something else entirely.

M51 & F9TM More French Morse Activity
Continuing on a French theme:- the CW station on 6825 kHz seemed to be less active in the summer months, or at least there were several days when there was no activity on that frequency, we are used to hearing sending fast 5 character groups at almost any time of the day. Might have been inaudible due to propagation; whatever the case it seems to be strong enough as we progress through autumn with the parallel frequency 3881 usually a good signal after dark. Also noted an example of that special Thursday thing they do once in a while - or at least when I have heard it in the past it has always been on a Thursday:-

05-Oct-23:- 1735 UTC, strong CW, not the usual fast 5 character groups, hand keyed CW using call-sign F9TM, strong signal, working F call-sign amateur stations who were on another frequency with RST reports, mostly 599, followed by "QRG 3536/00K". 3536 kHz was, of course, the frequency in the 80 metre band on which the French amateurs were transmitting as was F9TM in parallel with 6825kHz. As for "QRG", reference to the ARRL Handbook says "Will you tell me my exact frequency"... "Your exact frequency is...", so presumably a frequency checking exercise.

Thanks, Peter, for your excellent report & observations. We, too, have wondered about any association, (or otherwise), between M23, M51 & the 5345.8kHz 'Mystery Station".

F9TM is the amateur radio call sign registered to DIRISI CNMOTSR Centre de Contrôle des Fréquences, BP 10019, FAVIERES 28170, France, & is known to be associated with the M51 group of stations. This Thursday evening net is, as Ary, (AB), has previously informed me, a regular event from the F9TM call. *(Editor)*

For more logs & reports on these stations – Read on…

UNID CW

Mystery French Station – 5345.8 kHz

We were alerted to these transmissions thanks to the Ary's Utility DXers Forum, UDXF@groups.io, who first reported this station on Sunday, 15 October.

Placed just 800 Hz HF of the M23 current active frequency, these transmissions consist of a single French word, a single figure number or a single letter that repeats every few seconds. After 10 minutes the word or figure changes to a new one that is repeated for the next 10 minutes, and so on 24 hours a day.

Although the station is believed be originate from France it appears to avoid any words containing accented letters & the most obvious purpose of the station would seem to be to provide Morse practice – But for whom? The station sends no identification.

The output is auto-sent Morse & as tends to be the case with these systems the clock is not locked to atomic time & AB notes it gaining two minutes in a day.

As we know, the French station M51 has been providing regular daily schedules of Morse practice lessons for a great number of years on 3881//6825kHz, but also wanders onto other frequencies from time to time with the recognisable combination of 5 letter groups interspersed with number groups & punctuation. But this is a totally different pattern to that known format.

There was also a series of transmissions on 4915kHz from 08 – 14 August, that were featured in our last newsletter. So do these transmissions come from either of these two sources or is another organisation behind them?

Examples of the output from this station logged at random are;

16 Oct 9, D, Y, C, 0, Toilettes, ecole, livre, etudiant, acteur, mouche, ordinateur, manteur, lampe, poulet, Mai, taxi, casserole, vehicule

17 Oct T, maladie, education, septembre, pantalon, sujet, tunnel, lac, larguer, K, gris

24 Oct N, silencieux, terre, vitesse, K, Samedi, tui, jardin, viande, brise, V, kookaburra, public, chenille, docteur

Update: The station was still active on 02 November but was missing on 03 November.

Thanks to AB, BR, PLdn, PoSW & particularly UXDF for the reports & logs.

Morse - Number Stations

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

From the beginning of October 2022, all M01 transmissions sent have used a single carrier vs usual 'Two-Tone' transmission mode.

The construction & delivery of messages from M01 has varied considerably over time. Sometimes perfect messages, other times chaotic rambling strings. The most recent incarnation involves using a form of sequential numbers in almost identical groups, examples of which can be seen in the transcribed examples below.

September 2023:

5020	2000z	05 Sep	'463' 542 30 75645 09187 … 44739 87165	Good, fast. Several errors. = = missing at start / end	BR/HFD	TUE
	2000z	12 Sep	NRH		BR	TUE
	2000z	14 Sep	'463' 481 30 = = 00055 21861 … 85619 55000 = =	Strong, fast. V.fast. Excellent Morse	BR	THU
	2000z	19 Sep	'463' 619 30 = = 00077 81755 … 99110 77000 = =	Good, fast. Fine but for corrected error in end sequence	BR	TUE
	2000z	21 Sep	'463' 483 30 = = 43561 17615 … 44838 90178 = =	Good, fast. Msg as 1800z with 10 changed figs. 2 errors	BR	THU
	2000z	26 Sep	'463' 759 30 = = 13212 34215 … 78675 12312 = =	Good, fast. Some grps used twice or three times	BR	TUE
5475	1800z	05 Sep	'463' 127 30 81761 17625 … 57878 19838	Fair, fast. One error noted. = = missing at start / end	BR/HFD	TUE
	1800z	07 Sep	'463' 733 30 = = 81808….		HFD	THU
	18**04**z	14 Sep	'463' 727 30 = = 00066 81050 … 00223 66000 = =	Good, V.fast. Late start. Error on call-up	BR	THU
	1800z	21 Sep	'463' 483 30 = = 43561 17615 … 44838 90187 = =	Fair, fast with QSB. Good Morse. No errors	BR	THU
	1800z	26 Sep	'463' 337 30 = = 12312 45645 … 67543 88664 = =	Fair/Good, fast. One noted error Grp21 12335 12435	BR	TUE
6260	1500z	02 Sep	'463' 224 30 = = 41090 42090 … 69090 60090 = =	Weak, fast. More sequential groups! (See below) *	AB/BR/HFD	SAT
	1500z	09 Sep	'463' 187 30 = = 54739 33890 … 47673 76990 = =	Weak, fast. Good Morse. No errors noted	BR	SAT
6510	0700z	03 Sep	'463' 891 30 = = 12090 13090 … 39090 30090 = =	More sequential groups! (See below)	BR/HFD	SUN

* Sat 02 Sep Started with 025 (R 30sec) 000 EEEEEEE 463 etc. AB

October 2023:

5020	2000z	03 Oct	'463' 34876 45654 … 89654 90345 = = 843 30 000	Good, fast. No intro, from call-up into grps.	BR	TUE
	2000z	05 Oct	'463' 936 30 = = 12312 34534 … 99876 46574 = =	Fair with QSB, fast. Good Morse. Grp10 9087 (x2)	BR	THU
	2000z	12 Oct	'463' 302 30 = = 0040 91859 … 88588 0400 = =	Good, fast. Excellent Morse. Grp01 0040 Grp30 0400	BR	THU
	2000z	17 Oct	'463' 202 30 = = 12323 34533 … 56345 87564 = =	Weak/Fair, fast. Excellent Morse. One error grp19	BR	TUE
	2000z	19 Oct	'463' 736 30 = = 71767 72767 … 99767 90767 = =	Weak/Fair, fast. Excellent Morse. Sequential grps.	BR	THU
	2000z	24 Oct	'463' 391 30 = = 40343 49343 … 63343 61343 = =	Fair, fast. Excellent Morse. Sequential grps. with errors	BR	TUE
5475	1800z	03 Oct	'463' 492 30 = = 23478 65712 … 67321 56123 = =	Fair with QSB & static, fast. Good Morse. No errors	BR	TUE
	1800z	05 Oct	'463' 661 30 = = 33771 76543 … 44773 90098 = =	Weak/Fair with QSB. Excellent Morse. No errors	BR	THU
	1800z	17 Oct	'463' 883 30 = = 90909 99955 … 45678 90909 = =	Fair/Good, fast. Excellent Morse. No errors	BR	TUE
	1800z	24 Oct	'463' 942 30 = = 31565 32565 … 9565056550 = =	Weak/Fair, fast. Excellent Morse. Sequential grps.	BR	TUE
6260	1500z	07 Oct	'463' 598 30 = = 34765 12876 … 7 . .32 90543 = =	Weak/Fast. Mostly copied. Some missed – Lively QSB!	BR	SAT
	1500z	14 Oct	NRH – Strong pirate broadcast station on freq. 'Radio Mi Amigo'		BR	SAT
6510	07**01**z	22 Oct	'463' 337 30 = = 55755…..	0701z start.	HFD	SUN

M01/3 6260kHz 1500z 02 September 2023 Saturday

'463' (R4m) 224 224 30 30 = =

41090 42090 44090 44090 45090 46090 47090 48090 49090 40090
51090 52090 53090 54090 55090 56090 57909 58090 59030 50090
61090 62090 63090 64090 65090 66090 67909 68090 69090 60090
= =

224 224 30 30 000

Courtesy BR

M01/3 6510kHz 0700z 03 September 2023 Sunday

'025' (R4m) 891 891 30 30 = =

12090 13090 11090 14090 15090 16090 17090 18090 19090 10090
21090 22090 23090 24090 25090 26090 27090 28090 29090 20090
31090 32090 33080 34090 35090 36090 37090 38090 39090 30090
= =

891 891 30 30 000

Courtesy AB

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

A number of regular schedules have been reported & Logged by Edd Smith – See ENIGMA 2000 Newsletter 116 for details.

No Logs

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 Logs

14942/13942/12142	0010/30/50z	01 Sep	991 1	(Via SDR Japan)	BR	FRI
	0010/30/50z	04 Sep	991 000	(Via SDR Japan)	BR	MON
	0010/30/50z	29 Sep	991 1 (7884 177) 22197 97808….	(Via SDR Japan)	BR	FRI
17437/15937/14537	0300/20/40z	07 Sep	494 1	(Via SDR Russia)	HFD	THU
17429/16229/15929	0010/30/50z	20 Oct	429 1 (299 78) 56733 01289….	(Vis SDR Japan)	BR	FRI
	0010/30/50z	27 Oct	429:1	(Via SDR Japan)	HFD	FRI
17437/15937/14537	0300/20/40z	12 Oct	495 1	(Via SDR Japan)	HFD	THU

European M12 Logs
September 2023: **New scheds in bold type**

6942/8142/9284	0030/0050/0110z	01 Sep	912 1 (5301 114)	56359 66021 … 00959 18719 000	Gert	FRI
	0030/0050/0110z	20 Sep	912 1		HFD	WED
	0030/0050/0110z	29 Sep	912 1 (7694 98)	89909 13592….	BR/HFD	FRI
7961/6961/5861	2100/20/40z	01 Sep	988 000		HFD	FRI
	2100/20/40z	02 Sat	988 000		BR	SAT
	2100/20/40z	08 Sep	988 1 (1150 120)	87909 75353….	BR/HFD	FRI
	2100/20/40z	09 Sep	988 1 (1150 120)	87909 75353….	BR	SAT
	2100/20/40z	16 Sep	988 1 (3936 140)	39782 70097….	BR	SAT
	2100/20/40z	22 Sep	988 1 (3936 140)	39782 70097….	BR	FRI
	2100/20/40z	23 Sep	988 1 (3936 140)	39782 70097….	BR	SAT
	2100/20/40z	30 Sep	988 1 (3936 140)	39782 70097….	BR	SAT
10831/11531/13431	0600/20/40z	02 Sep	854 1 (594 111)	25586 61497 … 28412 56320 000	AB/HFD	SAT
	0600/20/40z	30 Sep	854 1 (207 190)	47922 37295 ….	Gert	SAT
11109/10309/9209	2000/20/40z	04 Sep	385 1 (7170 135)	11728 77745….	BR/HFD	MON
	2000/20/40z	07 Sep	385 1 (7170 135)	11728 77745….	BR	THU
	2000/20/40z	11 Sep	385 000		BR	MON
	2000/20/40z	14 Sep	385 000		BR	THU
	2000/20/40z	21 Sep	385 1 (577 83)	35409 96766….	BR	THU
	2000/20/40z	25 Sep	385 1 (8784 119)	90279 00972….	BR	MON
11435/10598/9327	1800/20/40z	09 Sep	938 1 (4777 72)	86480 39916….	BR	SAT
	1800/20/40z	16 Sep	938 1 (5264 71)	39682 63044….	BR/HFD	SAT
	1800/20/40z	30 Sep	938 1 (4139 72)	29164 80178….	BR	SAT
13367/12167/10567	1900/20/40z	01 Sep	315 1 (6422 65)	75800 59281….	BR/HFD	FRI
	1900/20/40z	08 Sep	315 000		BR	FRI
	1900/20/40z	13 Sep	315 1 (2029 87)	97805 72336….	BR	WED
	1900/20/40z	15 Sep	315 1 (2029 87)	97805 72336….	BR	FRI
	1900/20/40z	20 Sep	315 000		BR	WED
	1900/20/40z	22 Sep	315 000		BR	FRI
	1900/20/40z	27 Sep	315 1 (644 75)	37102 70884….	BR	WED
	1900/20/40z	29 Sep	315 1 (644 75)	37102 70884….	BR	FRI
13386/12189/11491	1110/30/50z	14 Sep	725 1 (6728 99)	49756 19766….	BR	THU
	1110/30/50z	21 Sep	725 1 (2458 90)	18305 63962….	BR	THU
	1110/30/50z	28 Sep	725 1 (9740 93)	69360 73991….	BR	THU
14927/13927/12227	1600/20/40z	06 Sep	992 1		HFD	WED
	1600/20/40z	10 Sep	992 1 (611 159)	44541 29890….	BR	SUN
	1600/20/40z	13 Sep	992 1 (611 159)	44541 29890….	BR	WED
	1600/20/40z	17 Sep	992 1 (611 159)	44541 29890….	BR	SUN
	1600/20/40z	20 Sep	992 000		BR	WED
	1600/20/40z	24 Sep	992 000		BR	SUN
19546/18446/16346	1600/20/40z	04 Sep	543 1 (2013 93)	20516….	HFD	MON
	1600/20/40z	11 Sep	543 1 (585 77)	50761 04274….	BR	MON
	1600/20/40z	14 Sep	543 1 (585 77)	50761 04274….	BR	THU
	1600/20/40z	25 Sep	543 1 (241 91)	88895 57120….	BR	MON
	1600/20/40z	28 Sep	543 1 (241 91)	88895 57120….	BR	THU

October 2023:

5794/6794/ - - -	2100/20/40z	06 Oct	770 000		HFD	FRI
	2100/20/40z	07 Oct	770 000		BR	SAT
	2100/20/40z	13 Oct	770 000		BR	FRI
	2100/20/40z	20 Oct	770 000		BR	FRI
	2100/20/40z	21 Oct	770 000		BR	SAT
6837/8037/9237	0030/0050/0110z	03 Oct	802 1 (7694 98)	89909 13592 … 90173 93112 000 000	Gert /HFD	TUE
	0030/0050/0110z	20 Oct	802 1 (5203 125)	00241 07213….	BR	FRI
10318/9218/8118	2000/20/40z	02 Oct	178 1 (9960 79)	61055 65230….	BR/HFD	MON
	2000/20/40z	05 Oct	178 1 (9960 79)	61055 65230….	BR	THU
	2000/20/40z	09 Oct	178 000		BR	MON
	2000/20/40z	16 Oct	178 1 (460 67)	92590 02998….	BR	MON
	2000/20/40z	19 Oct	178 1 (460 67)	92590 02998….	BR	THU
	2000/20/40z	23 Oct	178 1 (461 91)	76663 96331….	BR	MON
11135/10235/9235	1900/20/40z	04 Oct	122 1 (9479 99)	87172 39884….	BR	WED
	1900/20/40z	06 Oct	122 1 (9479 99)	87172 39884….	BR/HFD	FRI
	1900/20/40z	11 Oct	122 1 (9479 99)	87172 39884….	BR	WED
	1900/20/40z	13 Oct	122 1 ((9479 99)	87172 39884….	BR	FRI
	1900/20/40z	18 Oct	122 000		BR	WED
	1900/20/40z	20 Oct	122 000		BR	FRI
11435/10598/9327	1800/20/40z	07 Oct	938 1 (2901 76)	46403 12111….	BR	SAT
	1800/20/40z	14 Oct	938 1 (7721 71)	20681 88299….	BR	SAT

	1800/20/40z	21 Oct	938 1 (4934 76)	99396 72178….	BR	SAT
17441/18641/19241	0800/20/40z	04 Oct	462 1 (7283 164)	70026 42798 … 48292 28386 000 000	Gert/HFD	WED
	0800/20/40z	08 Oct	462 1 (7283 164)	70026 42798….	BR	SUN
13386/12189/11491	1110/30/50z	05 Oct	725 1 (9291 95)	73967 22292….	BR	THU
	1110/30/50z	19 Oct	725 1 (7558 93)	03728 42582….	BR	THU
20168/19468/16268	1400/20/40z	02 Oct	142 1 (503 89)	93270 26446….	BR/HFD	MON
	1400/20/40z	09 Oct	142 000		BR	MON
	1400/20/40z	16 Oct	142 1 (202 94)	56121 49633….	BR	MON

M12 6942/8142/9284kHz 0030/0050/0110z 01 Sep 2023

912 912 912 1 (R2m) 5301 114 5301 114

56359 66021 16677 11230 52430 31594 29258 67556 88437 67904
15307 08744 05582 64461 62403 38315 35077 74247 44229 29295
86497 90214 35233 63935 25561 78480 04518 67949 66278 58603
47563 78167 05558 43268 95899 15009 45588 35468 71611 75185
41123 98112 24312 38732 66510 92790 77171 82111 55306 66708
98366 98329 43186 00030 62336 55320 17343 65616 91971 80580
83417 06624 33733 16102 25465 99478 10318 15656 20646 13735
95425 15790 71637 37618 84408 82430 49491 19720 54782 23690
53883 78775 49326 27614 84470 88799 56137 22701 16992 81387
84320 47636 52879 70238 13908 10721 32745 79138 88975 46029
05418 41503 02299 57334 86273 59407 39163 81159 47681 96963
33980 88658 00959 18719 000 000

Courtesy Gert

M12 10831/11531/13431kHz 0600/0620/0640z 02 Sep 2023

854 854 854 1 (R2m) 594 111 594 111

25586 61497 28443 28440 58101 90022 07247 49439 81189 78637
75028 22888 22583 37110 59981 64852 00953 76410 62422 43111
41125 48692 04178 67799 62032 88348 36648 48972 15540 92645
25594 34749 61797 77744 59089 28668 82051 09350 65329 59663
53147 66025 99289 29691 34293 71951 40850 06555 16626 76429
82805 77071 70076 34345 42039 04737 70132 78436 36850 72883
17701 13260 42664 63915 05625 32633 44736 42436 22964 08635
96714 46374 80554 71074 19307 39046 26844 93315 82397 70765
66724 10337 03302 66012 45445 56944 11522 43977 88575 95434
24996 16364 01168 77046 43910 91067 57547 83925 80934 93826
54365 03526 03542 13195 41149 37897 85244 28105 10204 28412
56320 000 000

Courtesy Ary

M14 IA MCW / ICW Short 0

September 2023:

12211	0500z	01 Sep	952 (816 57) = 24853….	(Via SDR Japan)	HFD	FRI
	0500z	13 Sep	952 (616 52) = 89262….	(Via SDR Japan)	HFD	WED
	0500z	29 Sep	952 (867 51) = 41706 13341 … 54598 98327		Gert	FRI
10243	0520z	01 Sep	952 (816 57) = 24853….	(Via SDR Japan)	HFD	FRI
	0520z	13 Sep	952 (616 52) = 89262….	(Via SDR Japan)	HFD	WED

October 2023:

No Logs

M14 12221kHz 0500z 29 September 2023

952 (R4m) 867 867 51 51 = =

41706 13341 10545 85023 91123 72309 67443 92959 13942 31677
38614 60226 06082 65065 37262 53318 77335 83035 99179 41107
96651 28248 02291 11342 68370 25407 60132 56771 56607 71929
18938 79342 99971 80268 13029 85892 83801 07845 58193 73789
62102 35505 87735 29951 46385 80454 60898 91675 03589 54598
98327 = =

867 867 51 51 00000

Courtesy Gert

Rare M14 Variant – New ENIGMA Designation

We are indebted to Pierre from the Priyom group for the logging of a previously unknown variant of M14.

What makes this a new variant is the addition of an extra five-figure group in the call-up header. This variant has been observed in other stations in this Family I Russian group of stations, namely E06b, G06b & S06g, but has not been previously reported in this Morse equivalent.

9463	1150z	06 Oct	801 **79462** (625 34) = 76322 84084 … 92860 50638 = 625 34 00000	Pierre (Priyom)	FRI
	1200z	06 Oct	801 **79462** (625 34) = 76322 84084 … 92860 50638 = 625 34 00000		

Full Intercept:

9463 06-10-2023 1150 M14 ICW Two series of fast beeps
9463 06-10-2023 1200 M14 ICW

801 **79462** (R4m) 625 625 34 34 = =
76322 84084 74035 08490 74434 48199 40794 65311 34108 26648
44669 98986 54758 95096 31928 55589 15369 66499 32559 86096
51069 92755 62280 25237 91145 73491 60212 48568 88157 20409
04302 18705 92860 50638 = =
625 625 34 (unpaired) 00000 Copied by Pierre from Priyom.

Pierre had also copied this format in April 2023 & the log is shown below for reference;

11073 1850z 15 Apr 352 **12643** (679 41) = = 73268 31407 74710 ... 21314 21613 02848 = = 679 679 41 41 00000 Pierre (Priyom) SAT

New Designation – M14d

As there is no existing ENIGMA designation for this previously unreported variant, the following designation has been assigned;

NEW ENIGMA DESIGNATION
M14 – Family 1A New Variant M14d is assigned 30 October 2023
M14d Rare, 3-fig ID with additional 5f group In Call
e.g. 801 **79462** (R4) 625 34 etc.

(Credit to Pierre of Priyom who logged this variant on 06 Oct 2023)
Add to ENIGMA 2000 Active Station List V1.3 at end of M14 section

For reference the previously assigned variants of M14 are as follows;

M14a Dual message variant
M14b Rare, added 2nd message hand-keyed
M14c Rare, Dual message Consecutive IDs

All believed to be inactive.

M23 O ICW

The Transmissions Continue
The long-running series of odd schedules reported in our last newsletter, plus the sending of a single 'MY' every 15 minutes day & night on M23's preferred frequency of 5345kHz, continued into the first days of September, however, attempts to monitor daily schedules were hampered by poor conditions, with some schedules not always audible in the UK..

Time	Frequency	Date discovered	Call + Duration	Schedule	Found by	Day Discovered
0157z	5345	29 Jul	ST3 (R20m)	Daily	AB	SAT
0557z	10381	27 Jul	ST3 (R20m)	Daily	AB + Anon	THU
0957z	20456	26 Jul	ST3 (R20m)	Daily	AB + Anon	WED
1357z	11530	31 Jul	OSS (R20m)	Daily	AB + Anon	MON
1757z	6937	26 Jul	S1S (R15m)	Daily	AB + Anon	WED
1957z	4822	27 Jul	S1S (R15m)	Daily	Priyom via AB	THU

'MY' Transmissions Cease
The 15 minute 'MY' transmissions on 5345kHz were not heard from Wednesday, 13 September, although the 0157z 'ST3' schedule continued. Ary, (AB), reports the 'MY' transmission mixing with the 'ST3' schedule on Monday, 04 September. Ary also notes 'MY' was now running 11 minutes late – so no correction made to return the schedule to H, H+15, 30, 45 for some while.

All Other Schedules End
Although the 'MY' sequence had finally ended, the daily schedules, (shown in the table above), continued unaffected for another five days with the last transmissions being monitored on Monday, 18 September. Further daily checks failed to find any further transmissions on either 5345kHz or on the frequencies used for the daily schedules bringing this series of transmissions to an end.

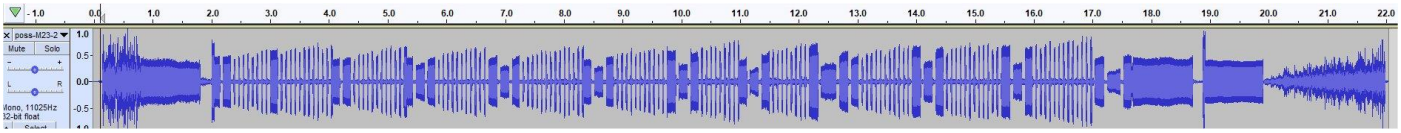
An interesting and intriguing series of transmissions adding to the mystery of this station. Many thanks to those involved in the discovery, reporting and monitoring of this latest series.

October Activity

With the ending of the previous series of transmissions on 18 September, nothing more was heard until Sunday, 08 October when Ary, (AB), monitored another odd transmission on 5345kHz at 2055z.

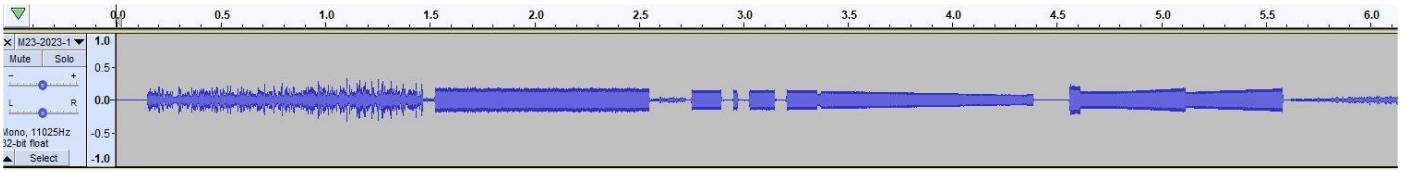
Appearing to be a broken or faulty recording or a transmitter problem, it was first wondered if this was, indeed, M23. However, the transmissions reappeared every hour throughout the night & it soon became clear that this was a genuine transmission. The content of the signal was not so easy to determine being jumbled, & also running faster than the usual M23 Morse, but appears to be either the letter 'O' or the letter 'S' repeated. There is a single long tone at the start of the sequence & two long tones at the end, the whole sequence lasting approximately 20 seconds. Between the characters are heard a staccato series of fast 'dits',

If this was a faulty recording or transmission error it nevertheless continued without correction until 15 October.



M23 Sunday 08 October Full Sequence of Transmission Showing Tones with Staccato 'Dits' between Courtesy AB

This transmitted sequence had changed by Monday, 16 October to a brief burst consisting of a long tone, a Morse 'K' or 'Y' ? then another one or two long tones. As with the previous sequence the whole string is quite muddled & it is difficult to be sure what is actually being sent. The whole sequence, again, still sounds speeded up & lasts approximately 4 seconds & sent at H+55m once every hour.



M23 Monday 16 October Changed sequence Showing Long Tones With Morse 'K' or 'Y' Between Courtesy AB

This hourly burst continued throughout the remainder of October & is still active at time of writing, 01 November.

Morse Stations - Not Number Related

M51 XlX

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

No reports – M51b format in use

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

3881//6825

1130 - 1201z	26 Sep	Mardi-Leçon	22-2/1 Codé	22-2/2 Clair,	22-2/3 Codé,	22-2/4 Clair (600 grps/hr)	BR	TUE
1130 - 1205z	27 Sep	Mercredi- Leçon	23-2/1 Codé,	23-2/2 Clair,	23-2/3 Codé,	23-2/4 Clair (720 grps/hr)	BR	WED
1130 - 1157z	28 Sep	Jeudi- Leçon	24-2/1 Codé,	24-2/2 Clair,	24-2/3 Codé,	24-2/4 Clair (840 grps/hr)	BR	THU

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

3881//6825

0111z	28 Sep	Non-stop 5-character groups composed of M51a messages	Strong//Fair	BR	THU

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).

5389 5549

Chart of M89 Freq & Call signs heard in Sep / Oct 2023 **New Scheds shown in Bold Type** **From logs submitted from JPL**

Freq in KHz	Call Slip
3565//4718	V BSA5 (x3) DE TP4C (x2)
3565//6378	V BSA5 (x3) DE TP4C (x2)
4718//6378	V BSA5 (x3) DE TP4C (x2)
4718//7045	V BSA5 (x3) DE TP4C (x2)

Freq in kHz	Call Slip
4720//5150	V WNF(x3) DE FXM (x2) (R5) (Hand sent)
4860// 6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6378//7045	V BSA5 (x3) DE TP4C (x2)

Courtesy JPL

4517	FY3B	1735z (IP) 19 Oct	VVV UW2K (x3) DE FY3B (x2) 765/X.26/7901/82/28/22/K236A/COMM/7294 AR BT	(Remote tuner Taiwan)	JPL	THU
5549		1451z (IP) 01 Sep	RMKS 4170 TO 4219 4221 4292 4295 BT	(Remote tuner Novosibirsk)	JPL	FRI

M89 4517kHz 1735 (IP) - 1737z 19 October 2023

UW2K (x3) DE FY3B (x2)

VVV UW2K DE FY3B HR SVC GA HR SVC GA BT (IP – 1735z)
765/X.26/7901/82/28/22/K236A/COMM/7294 AR BT
765/XK26/7901/82/28/22/K236A/COMM/7294 AR
HR WK NR 470 WK NR 470 NIL SK NIL SK (1737z)

M89 5389kHz 1217 (IP) - 1317z 23 October 2023

RPT 32W 6274 6274 K K (IP - 1217z)
RPT 41W 5387 5387 K K
RPT 43W 6142 6142 K K (1218z)
RPT 43W 2605 2605 K K
RPT 53W 1604 1604 K K (1219z)
RPT 64W 3521 3521 K K
RPT 70W 9675 9675 K K (Other station N/H on this frequency)
RPT 78W TO 91W BT UDA6 ND5T 4637 A4UD 6375 6T4A 5U3N ATN4 D73U DT5U A7N6 NT56 3D74 DA47 AR K K
R R (1222z)
R 7G GA K (1224z)

Courtesy JPL

M95 O XSV, XSV70, XSV85

M95 Morse Logs (Bold type indicates new logging)

3642//NRH	Call Sign 3A7D	(Active daily - only first marker log has been included)				
3642//7602	Call Sign 3A7D	(Active daily - only first marker log has been included)				
4178//7517	Call Sign S2DJ	Believe this to be new Round Slip and freq for YHXD DE SAQC				
	1448z	01 Sep	V XP5B (x3) DE S2DJ (x2)	(Remote tuner Novosibirsk)	JPL	FRI
	1258z	03 Sep	V XP5B (x3) DE S2DJ (x2)	(Remote tuner Novosibirsk)	JPL	SUN
	1333z	29 Sep	V XP5B (x3) DE S2DJ (x2)	(Remote tuner Novosibirsk)	JPL	FRI
	2236z	02 Oct	V XP5B (x3) DE S2DJ (x2)	(Remote tuner Novosibirsk)	JPL	MON
	1725z	10 Oct	V XP5B (x3) DE S2DJ (x2)	(Remote tuner Novosibirsk)	JPL	MON
4243//9054	Message number differs from current XSV70 and XSV85 message numbers.					
	1151 (IP) - 1205z	16 Oct	NR 084 CK 40 35 1016 1515 BT NR 32 CK 163 35 1016 1531 BT	(Remote tuner South Korea)	JPL	MON
	1144 (IP) - 1149z	23 Oct	NR 46 CK 132 35 1023 1521 BT	(Remote tuner South Korea)	JPL	MON
4364//8073	Call Sign XSV85					
	1130 - 1149z	16 Oct	NR 0812 CK 055 35 TTA6 164U BT NR 0813 CK 370 35 TTA6 A643 BT	(Remote tuner Hong Kong) (Operator has problem with the number 3)	JPL	MON
	1130 – 1142z	23 Oct	NR 0844 CK 208 35 1023 1520 BT	(Remote tuner Hong Kong)	JPL	MON
	0001 - 0008z	29 Oct	NR 0856 CK 100 35 1029 0702 BT	(Remote tuner Hong Kong)	JPL	SUN
5651//12039	Call sign S2DJ					
	1340z	08 Oct	V XP5B (x3) DE S2DJ (x2) (IP - Cont'd)	(Remote tuner Novosibirsk)	JPL	SUN
9054	Call sign XSV85 *(See also 4243//9054kHz listing)*					
	2340 - 2357z	28 Oct	NR 058 CK 19 35 1029 0557 BT NR 010 CK 35 35 1029 0630 BT NR 57 CK 054 35 1029 0700 BT	(Remote tuner South Korea)	JPL	SAT
10180	Call Sign 3A7D	(Active daily - only first marker log has been included)				
10722//NRH	Call Sign 3A7D					
	1048z	01 May	YHXD (x3) DE SAQC (x2)	(Remote tuner Khabarovsk)	JPL	FRI

M95 4364//8073kHz 1130z (IP) 16 October 2023

(In Progress at 1130z)
In Chinese digital 4+4 QPSK 75/3000 LSB (1130z)
Switched to CW Hand sent 1150z

V BNGC (x3) DE XSV85 (X2) (Cont'd – 1142z)
HR MSGS GA PSE CY (1140z)
NR 0812 CK 055 35 TTA6 164U BT
TAT N5U TA6 N53 TA. N54 7TT TTU 746 6TU
N75 6T6 6TU N75 6AT TA4 6A4 A57 6A4 AT6
TA6 TT6 6A7 TAA 74D NT4 N6D U33 D44 635
4A6 DAU D47 DA3 NU6 736 N75 N44 7T5 777
TAU 773 TA7 773 TAD 773 TAN 773 TU3 773
756 TU4 773 756 7AN AR (1146z)
AHR MSG GA
NR 0813 CK 370 35 TTA6 A643 BT
(Operator has problem with the number 3)
TA6 3U6 3AN 3U7 TAU 773 353 373 (Cont'd – 1149z)

M95 4364//8073kHz 0001z 29 October 2023

Into voice USB Chinese Male (0001z)
Switched to Chinese digital 4+4 QPSK 75/3000 LSB (0002z)
Switched to CW Hand sent (0005z)

V BNGC (x3) DE XSV85 (x2) (Cont'd – 0005z)
HR MSG GA PSE CY (0006z)
NR 0856 CK 100 35 1029 0702 BT
TUN 3U4 3A4 TAU 773 TU4 773 TU5 773
353 4T3 NN3 446 3D3 4DT 4D6 TA7 773
TAD 773 353 4T3 NN3 446 3DU 34A N3D (Cont'd – 0008z)

Courtesy JPL

M95 4243//9054kHz 1151z (IP) 16 October 2023

(In Progress at 1151z)
In Chinese digital 4+4 QPSK 75/3000 LSB (1151z)
Switched to CW Hand sent (1152z)
VVV HR 7G TO YR PSE CY (1156z)
NR 084 CK 40 35 1016 1515 BT
5AA UTT TA6 3U6 3A4 5T7 5TD 75U 35U 4TA
33U 33N N3D 4TN 445 3DT 4D6 5TN 5U 35U
33U 34U N3D 446 3DU 336 N3U 445 3DA 4D6
5AA 75U 35U 4TN NAT 4TA 445 3DA 4D6 AR 7G AGN
NR 084 CK 40 35 1016 1515 BT (Repeats msg – 1201z)
AR A HR 7G GA
NR 32 CK 163 35 1016 1531 BT
UTU TA6 3.6 3A4 TTU 773 35A N3D 353 4TA (Cont'd – 1205z)

M95 9054kHz (// 4243 N/H) 1151z (IP) 16 October 2023

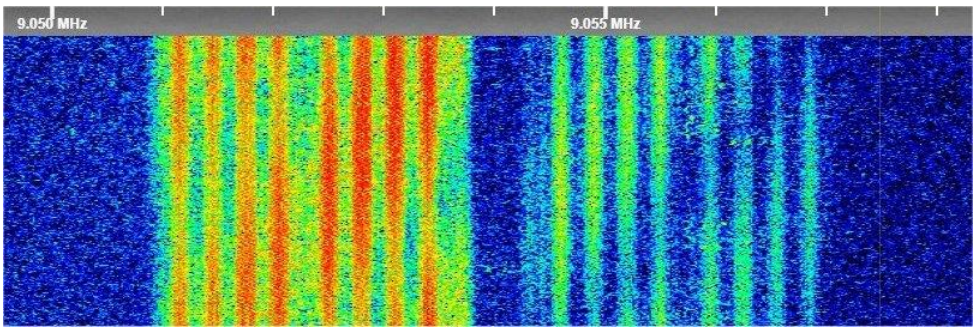
Into voice Chinese Female (2340z)
Into Chinese digital 4+4 QPSK 75/3000 LSB (2343z)
Switched to CW Hand sent (2346z)

HR MSG TO YR PSE CY (2346z)
NR 058 CK 19 35 1029 0557 BT
UT5 TUN 3U4 3A4 TTA TTU TT3 773 356 36U
4AA 445 34U N3U 446 4D4 3DA N3D 3DU AR (2349z)
7G AGN NR 058 CK 19 35 1029 0557 BT (Repeats msg)
AR HR 7G GA
NR 010 CK 35 35 1029 0630 BT
5AA UTT TUN 3U4 3A4 5T7 5TD 75U 35A (Cont'd – 2352z)
AR 7G AGN NR 010 CK 35 35 1029 0630 BT (2353z)
AR HR MSG GA
NR 57 CK 054 35 1029 0700 BT
UTU TUN 3U4 3A4 TTU 773 35A U4T 353 336
N3U 75D 354 373 4TN 445 336 N3U (Cont'd – 2357z)

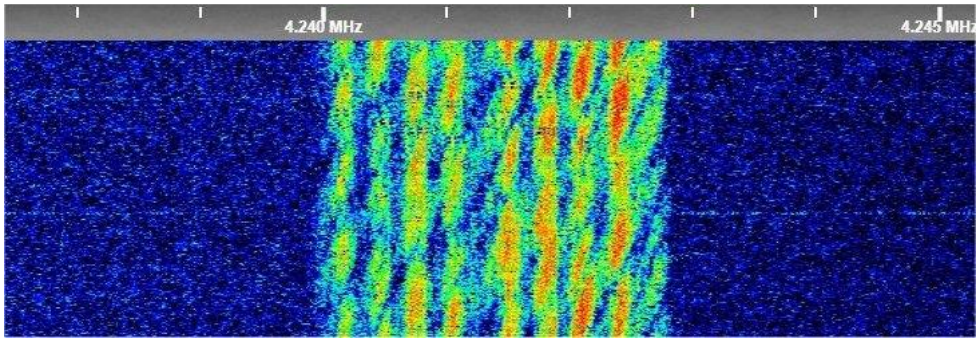
Courtesy JPL

Different Modulation Modes in Use on Parallel Frequencies

On Monday, 23 October Jean-Paul, JPL monitored the regular scheduled transmissions on 4243//9054kHz, but noted that the two parallel frequencies were using different modes, with the 4243kHz output using LSB, (Lower Sideband), while 9054kHz was using both LSB & USB, (Upper Sideband).



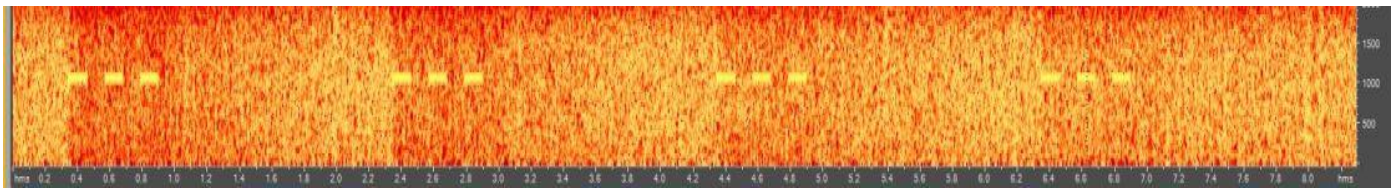
M95 1144z 23 Oct 2023 Image of 9054 kHz Signal Showing Both LSB & USB ***Courtesy JPL***



M95 1144z 23 Oct 2023 Image of //4243 kHz Signal Showing Only LSB ***Courtesy JPL***

Marker Beacons (MX MXI)

4557.7	0101z	28 Sep	MXI CW Beacon "D" Sevastopol			BR	THU
4557.9	0102z	28 Sep	MXI CW Beacon "S" Severomorsk			BR	THU
5153.7	1924z	25 Sep	MXI CW Beacon "D" Sevastopol			BR	MON
5153.9	0103z	28 Sep	MXI CW Beacon "S" Severomorsk			BR	THU
5156.7	0413z	11 Sep	MX CW Beacon "L" St Petersburg		Good	chpa	MON
	0416z	14 Sep	MX CW Beacon "L" St Petersburg		Good	chpa	THU
	0433z	16 Sep	MX CW Beacon "L" St Petersburg		Good	chpa	SAT
	0452z	21 Sep	MX CW Beacon "L" St Petersburg		Good	chpa	SAT
	0500z	06 Oct	MX CW Beacon "L" St Petersburg		Good	chpa	FRI
	0519z	07 Oct	MX CW Beacon "L" St Petersburg		Good	chpa	SAT
	0519z	07 Oct	MX CW Beacon "L" St Petersburg		Good	chpa	SAT
	0521z	18 Oct	MX CW Beacon "L" St Petersburg		Moderate	chpa	WED
7508.7	1912z	25 Sep	MXI CW Beacon "D" Sevastopol			BR	MON
7508.9	1913z	25 Sep	MXI CW Beacon "S" Severomorsk			BR	MON
7509.1	1913z	25 Sep	MXI CW Beacon "A" Astrakhan			BR	MON
8494.9	1912z	25 Sepr	MXI CW Beacon "S" Severomorsk		Under QRM	BR	MON
8495.1	2302z	30 Oct	MXI CW Beacon "A" Astrakhan			BR	SUN
8497.8	0807z	29 Sep	MX CW Beacon "L" St Petersburg			BR	FRI
	1907z	18 Oct	MX CW Beacon "L" St Petersburg			BR	WED
10871.7	1910z	25 Sep	MXI CW Beacon "D" Sevastopol			BR	MON
10871.9	1910z	25 Sep	MXI CW Beacon "S" Severomorsk			BR	MON
13527.7	1908z	25 Sep	MXI CW Beacon "D" Sevastopol			BR	MON
13527.9	0806z	29 Sep	MXI CW Beacon "S" Severomorsk			BR	FRI
13528.1	1911z	18 Oct	MXI CW Beacon "A" Astrakhan			BR	WED
16331.7	0804z	29 Sep	MXI CW Beacon "D" Sevastopol			BR	FRI
16331.9	0804z	29 Sep	MXI CW Beacon "S" Severomorsk			BR	FRI
	1350z	12 Sep	MXI CW Beacon "S" Severomorsk		Fair with QSB3	PLdn	TUE
16332.0	1425z	26 Oct	MXI CW Beacon "C" Moscow			BR	WED
16332.1	1425z	26 Oct	MXI CW Beacon "A" Astrakhan		Weak	BR	WED
20047.7	0802z	29 Sep	MXI CW Beacon "D" Sevastopol			BR	FRI
20047.9	1424z	26 Oct	MXI CW Beacon "S" Severomorsk			BR	THU
20302	0541z	18 Oct	MX CW Beacon "L"		Good	chpa	WED
20305	0543z	18 Oct	MX CW Beacon "P"		Weak	chpa	WED



16331kHz 1350z 12 Sep Russian 'S' Beacon Courtesy PLdn

Oddities

New Russian Marker Activity

We were alerted to these Saturday from a YouTube video from Lewis, of the 'Ringway -Manchester' channel. Many of his videos are related to Number Stations and are well worth viewing;
https://www.youtube.com/watch?v=oOkefl6bAe4&t=195s

New markers, 'buzzers' appeared on the following frequencies (kHz);
4486 5523 5710 7499 8853

We were able to hear the three lower frequencies, late evening on Sat 07 Oct. But on 7499kHz & 8853kHz nothing was heard.

On Sunday, 08 & Monday, 09 October these three markers were audible shortly before dusk in the UK, disappearing mid-evening, then reappearing later at night. No markers were heard on the two higher frequencies.

The tones on the first three frequencies appeared to be from the same source, whereas, (from recordings on Lewis's video), the last two have different tones & speeds. By running three receivers it was noted that the tones are heard equidistant and sequential across the three frequencies, so perhaps the source was being switched between three transmitters, (or the same transmitter being frequency switched?).

None of these markers were heard from Tuesday, 09 October.

On Wednesday, 11 October at 1700z new buzzers were active on 7502kHz & 8856kHz. Again, the tones were equidistant & sequential when monitored simultaneously on two receivers. By 2100z both frequencies were silent & have not reappeared.

Subsequent monitoring on all the frequencies used has shown many frequently occupied by continuous unidentified wideband signals which may or may not be related. Audibly these signals have a multi-tone drone like sound.

The timing of the appearance of these channel markers is interesting as they appeared following the Hamas attack on Israel on Saturday, 07 October.

Regular Oddities – Logs

'The Goose'

3242	0408z	11 Sep	'Goose' Marker – Night Freq		Good	USB	chpa	MON
	0412z	14 Sep	'Goose' Marker – Night Freq		Good	USB	chpa	THU
	0427z	16 Sep	'Goose' Marker – Night Freq		Good	USB	chpa	SAT
	0446z	21 Sep	'Goose' Marker – Night Freq		Very Weak	USB	chpa	THU
	0455z	06 Oct	'Goose' Marker – Night Freq		Good	USB	chpa	FRI
	0513z	07 Oct	'Goose' Marker – Night Freq		Weak	USB	chpa	SAT
	0451z	13 Oct	'Goose' Marker – Night Freq		Excellent	USB	chpa	FRI
	0516z	18 Oct	'Goose' Marker – Night Freq		Moderate	USB	chpa	WED
	0441z	22 Oct	'Goose' Marker – Night Freq		Good	USB	chpa	SUN
4310	1224zz	26 Oct	'Goose' Marker – Day freq	(Via SDR Finland)	Good	USB	BR	THU

'The Air Horn'

4930	0108z	28 Sep	Marker signal (Air Horn)		Fair	USB	BR	THU

'The Alarm'

4770	0412z	11 Sep	Marker Signal (The Alarm)		Good	USB	chpa	MON
	0415z	14 Sep	Marker Signal (The Alarm)		Good	USB	chpa	THU
	0431z	16 Sep	Marker Signal (The Alarm)		Good	USB	chpa	SAT
	0451z	21 Sep	Marker Signal (The Alarm)		Good	USB	chpa	THU
	0458z	06 Oct	Marker Signal (The Alarm)		Good	USB	chpa	FRI
	0518z	07 Oct	Marker Signal (The Alarm)		Moderate	USB	chpa	SAT
	0500z	13 Oct	Marker Signal (The Alarm)		Good	USB	chpa	FRI
	0520z	18 Oct	Marker Signal (The Alarm)		Moderate	USB	chpa	WED
	0445z	22 Oct	Marker Signal (The Alarm)		Good	USB	chpa	SUN

S28 'The Buzzer'

4625	0411z	11 Sep	S28	'The Buzzer' Marker	Good	USB	chpa	MON
	0414z	14 Sep	S28	'The Buzzer' Marker	Good	USB	chpa	THU
	0430z	16 Sep	S28	'The Buzzer' Marker	Excellent	USB	chpa	SAT
	0449z	21 Sep	S28	'The Buzzer' Marker	Good	USB	chpa	THU
	0457z	06 Oct	S28	'The Buzzer' Marker	Good	USB	chpa	FRI
	0517z	07 Oct	S28	'The Buzzer' Marker	Moderate	USB	chpa	SAT
	0459z	13 Oct	S28	'The Buzzer' Marker	Moderate	USB	chpa	FRI
	0519z	18 Oct	S28	'The Buzzer' Marker	Moderate	USB	chpa	WED
	0444z	22 Oct	S28	'The Buzzer' Marker	Good	USB	chpa	SUN

S30 'The Pip'

3756	0110z	28 Sep	S30	'Pip' marker (Night freq)	Good	USB	BR	THU
5448	0501z	06 Oct	S30	'Pip' Marker (Day freq)	V.Weak	USB	chpa	FRI
	0446z	22 Oct	S30	'Pip' Marker (Day freq)	Weak	USB	chpa	SUN

4182 'T Marker'

0410z	11 Sep	Normal sound from the T Marker	Good	USB	chpa	MON
0413z	14 Sep	Normal sound from the T Marker	Good	USB	chpa	THU
0429z	16 Sep	Normal sound from the T Marker	Moderate	USB	chpa	SAT
0448z	21 Sep	Normal sound from the T Marker	Weak	USB	chpa	THU
0459z	06 Oct	Normal sound from the T Marker	Good	USB	chpa	FRI
0516z	07 Oct	Normal sound from the T Marker	Moderate	USB	chpa	SAT
0453z	13 Oct	Normal sound from the T Marker	Good	USB	chpa	FRI
0518z	18 Oct	Normal sound from the T Marker	Moderate	USB	chpa	WED
0443z	22 Oct	Normal sound from the T Marker	Good	USB	chpa	SUN

4183.1//4184.1 'T Marker'

1922z	23 Sep	T Marker			BR	MON
2218z	29 Oct	T Marker			BR	SUN

All logs from chpa Monitored from Stockholm. All logs from BR monitored from UK.

Contributors: AB, BR, chpa, Gert, HFD, JPL, Pierre (Priyom), PLdn, PoSW, UDXF *Thank you all for your logs.*

Voice Number Stations

E06 Sept/Oct log:

E06 Sept/Oct log:

Monday	**(repeats Tuesday)**	**0210z**	**11426kHz**	**0310z**	**14477kHz**	(frequencies may vary slightly)
12/09	'537' 192 36 75211…….etc	via KiwiSDR RUS		Thanks HfD		
		0210z	**11526Hz**	**0310z**	**14613khz**	
23/10	'537' 109 42 71887……etc	via KiwiSDR RUS		Thanks HfD		
Thursday	**(repeats Friday)**	**0300z**	**13545kHz**	**0400z**	**11521kHz**	(frequencies may vary slightly)
01/09	'361' 725 30 35270…….etc	(Thanks hfd)				
		0300z	**16219kHz**	**0400z**	**13545kHz**	
12/10	'361' 705 36 47081…….etc	via KiwiSDR RUS		Thanks HfD		

First /Third Thursday (repeats Friday) **0500z** **14370kHz** **0600z** **16265kHz**

07/09 '354' 107 62 99261 11421 29073 51347 06436 93772 81353 55879 47398 03278 18264 16961 83393 75921 43540 47279 22941 54761 49785 71456 72144 60232 63761 21216 54242 06645 22619 85325 03082 88310 98288 00261 60208 83739 12192 92541 30258 51331 07478 08651 74328 15016 70965 93494 46040 63273 21979 03342 99946 09964 10268 64162 90564 60812 45078 50841 95657 10957 56902 21437 07534 60810 107 62 00000

21/09 '354' 928 61 15665 24891 47283 89601 23210 77563 86841 75687 31745 93842 51773 95676 96515 82740 26090 39322 89804 98230 17416 08593 15674 06691 62991 91423 97458 18127 54518 29697 36449 73346 42794 86163 65209 04283 08065 39958 43954 09648 07043 65438 73437 13101 32516 73988 22775 96132 46503 23519 95647 22837 72867 25316 83329 98767 60350 02949 77955 31065 51951 82910 44492 928 61 00000

0600z **18425kHz** **0700z** **20230kHz**

05/10 '186' 790 52 57217 68664 07071 12468 28795 94764 59384 96885 84186 83430 37338 40165 69976 68644 91102 79398 77863 65018 49377 11282 32318 74867 98511 16464 56083 84439 07424 02896 80690 85253 78013 76627 94182 81461 25743 63483 43230 69188 20088 30050 31835 98785 39531 77419 83794 55925 20807 06127 61135 22483 07060 75713 790 52 00000

19/10 '186' 239 54 93883 29532 85141 36781 21462 96534 47643 96394 03569 68479 22928 93096 00879 86025 75688 32340 25778 11268 92255 00061 54317 31274 17025 38513 74205 41792 89747 26510 54774 40825 32148 06248 49854 86751 57294 23902 69493 00694 00159 76175 81469 17797 92802 80000 28516 17141 32638 07562 72214 84930 17182 53845 99485 90696 239 54 00000

Followed by Peter's logs and comment:

First + Third Thursdays in the Month 0500 + 0600 UTC in September, 0600 + 0700 UTC in October Schedule:-

Continues to follow the prediction list:-
7-Sept-23:- 0500 UTC, 14370 kHz, call "354", DK/GC "107 107 62 62", weak signal at first then became stronger. Ended before 0515z.
0600 UTC, 16265 kHz, good signal.
Repeated on the following day:-
8-Dec-23, Friday:- 0500 UTC, 14370 kHz, stronger than yesterday.
0600 UTC, 16265 kHz, also stronger.

5-Oct-23:- 0600 UTC, 18425 kHz:- very weak signal on predicted frequency for the first sending, unreadable.
0700 UTC, 20230 kHz:- Nothing at all heard on the predicted frequency for the second sending. Much better on the following day:-

6-Oct-23, Friday:- 0600 UTC, 18425 kHz, calling "186", DK/GC "790 790 52 52", good signal, ended around 0613 UTC.
0700 UTC, 20230 kHz, strong signal, S-meter well over the 9, what a difference from 24 hours earlier, presumably all down to the ionosphere.

19-Oct-23:- Nothing readable from the first sending at 0600 UTC on 18425. Second sending much better:-
0700 UTC, 20230 kHz, call "186", DK/GC "239 239 54 54", strong signal.

E07

We start with Peter's logs and analysis:

Saturday Schedule, 1300 UTC Start:-
2-Sept-23:- 1300 UTC, 12176 kHz, "152 152 152 000", strong signal.
1320 UTC, 11576 kHz, also strong.

9-Sept-23:- 1300 UTC, 12176 kHz, "152 152 152 000", strong.
1320 UTC, 11576 kHz, strong.

16-Sept-23:- 1300 UTC, 12176 kHz and 1320 UTC, 11576 kHz, both very strong, "152 152 152 000".

30-Sept-23:- 1300 UTC, 12176 kHz, "152 152 152 000", strong signal.
1320 UTC, 11576 kHz, slightly weaker but still strong enough to over-ride local RF noise interference.

21-Oct-23:- 1300 UTC, 12176 kHz, "152 152 152 000", strong.
1320 UTC, 11576 kHz, weaker.

28-Oct-23:- 1300 UTC, 12176 kHz, "152 152 152 000", strong.
1320 UTC, also strong.

Sunday Schedule, 0600 UTC Start:-
Always a repeat of the Saturday schedule, above, which so far this year has always been the two minutes of "000 … no message" routine. The last time these related schedules sent a message appears to be in December of last year when one with a group count of 277 was transmitted on at least three weekends of that month.
3-Sept-23:- 0600 UTC, 9261 kHz, "224 224 224 000", strong enough to be heard above local QRM.
0620 UTC, 10261 kHz, weaker.

10-Sept-23:- 0600 UTC, 9261 kHz, "224 224 224 000", weak.
0620 UTC, 10261 kHz, also weak.

17-Sept-23:- 0600 UTC, 9261 kHz and 0620 UTC, 10261 kHz, both weak, "224 224 224 000".

24-Sept-23:- 0600 UTC, 9261 kHz and 0620 UTC, 10261 kHz, both weak as usual, "224 224 224 000".

1-Oct-23:- 0600 UTC, 10317 kHz, "312 312 312 000", good signal, surprisingly strong in comparison with the weak signals of September's schedule.
0620 UTC, 11117 kHz, also strong.

8-Oct-23:- "0600 UTC, 10317 kHz and 0620 UTC, 11117 kHz, "312 312 312 000".

15-Oct-23:- 0600 UTC, 10317 kHz, "312 312 312 000", stronger than usual.
0620 UTC, 11117 kHz, also somewhat stronger than usual.

Thursday + Saturday Schedule, 1410 UTC Start:-
2-Sept-23, Saturday:- 1410 UTC, 16228 kHz, "594 594 594 1", DK/GC "115 92" x 2, good signal, same message as was transmitted on Thursday 31-August.
1430 UTC, 15928 kHz, strong signal.
1450 UTC, 14928 kHz, weakest sending of the three.

7-Sept-23, Thursday:- 1410 UTC, 16228 kHz, "594 594 594 000", good signal.
1430 UTC, 15928 kHz, very strong.

9-Sept-23, Saturday:- 1410 UTC, 16228 kHz, "594...000" again.
1430 UTC, 15928 kHz, interference from a very strong pulse/buzz signal extending from about 15925 to 15965 kHz, can always be found on some part of the short-wave spectrum at any time of day or night and generally supposed to be Ivan's over-the-horizon radar.

14-Sept-23, Thursday:- 1410 UTC, 16228 kHz, "594 594 594 1", message, DK/GC "7134 59" x 2, weak signal at first then became stronger, ended at 1417:25s UTC approx.
1430 UTC, 15928 kHz, signal strength up and down.
1450 UTC, 14928, good signal.

16-Sept-23, Saturday:- 1410 UTC, 16228 kHz, "594" and "7134 59" again, not too strong.
1430 UTC, 15928 kHz, weak.
1450 UTC, 14928 kHz, again not too strong.

21-Sept-23, Thursday:- 1410 UTC, 16228 kHz, "594 594 594 000", good signal.
1430 UTC, 15928 kHz, that OHR has returned to this spot, very strong, extending from about 15920 to 15945 kHz.

28-Sept-23, Thursday:- 1410 UTC, 16228 kHz, "594 594 594 1", message, DK/GC "360 70" x 2, signal up and down, ended around 1418:20s UTC.
1430 UTC, 15928 kHz, S4 to S5.
1450 UTC, 14928 kHz, very strong, pushing the S-meter well over the 9.

30-Sept-23, Saturday:- 1410 UTC, 16228 kHz, "594" and "360 70" again, strong signal.
1430 UTC, 15928 kHz, also strong.
1450 UTC, 14928 kHz, mostly strong with occasional deep fading.

5-Oct-23, Thursday:- 1410 UTC, 15849 kHz, "746 746 746 000", strong signal,

1430 UTC, 14849 kHz, also strong.

12-Oct-23, Thursday:- 1410 UTC, 15849 kHz, “746 746 746 1”, message, DK/GC “635 66” x 2, good signal.
1430 UTC, 14849 kHz, good signal.
1450 UTC, 13449 kHz, very strong.

19-Oct-23, Thursday:- 1410 UTC, 15849 kHz and 1430 UTC, 14849 kHz, both strong, “746 746 746 000”.

21-Oct-23, Saturday:- 1410 UTC, 15849 kHz, “746 746 746 000”, weaker than usual.
1430 UTC, 14849 kHz, much stronger than the first sending.

28-Oct-23, Saturday:- 1414 UTC, 15849 kHz – missed the start having lost track of the time,as you do - message transmission in progress, strong signal with some fading, ended around 1419:50s UTC.
1430 UTC, 14898 kHz, “746 746 746 1”, DK/GC “349 88” x 2, strong.
1450 UTC, 13449 kHz, very strong.

Tuesday + Friday Schedule, 1500 UTC Start:-
15-Sept-23, Friday:- 1500 UTC, 17452 kHz, “428 428 428 1”, DK/GC “3620 99” x 2, signal strength varying. Ended 1510:45s UTC approx.
1520 UTC, 16272 kHz, also varying in signal strength from strong to very weak. Transmission must have failed, was heard in preamble/call mode again around 1526z when signal was weak.
1540 UTC, 14875 kHz, weak, difficult copy.

22-Sept-23, Friday:- 1500 UTC, 17452 kHz, “428 428 428 000”, good signal.
1520 UTC, 16272 kHz, weaker.

26-Sept-23, Tuesday:- 1500 UTC, 17452 kHz, “428 428 428 1”, message, DK/GC “427 112” x 2, good signal with occasional fading.
1520 UTC, 16272 kHz, strong with occasional fading.
1540 UTC, 14875 kHz, weakest of the three transmissions.
29-Sept-23, Friday:- 1500 UTC, 17452 kHz, weak, sank into noise.
1520 UTC, 16272 kHz, stronger, “428” and “427 112” as on the 26th.
1540 UTC, 14875 kHz, strongest transmission of the three today.

I first became aware of this schedule in October of last year and is following the usual E07 thing of using the same frequencies in the same month.

6-Oct-23, Friday:- 1500 UTC, 17461 kHz, “413 413 413 000”, strong signal.
1520 UTC, 16161 kHz, also strong.

10-Oct-23, Tuesday:- 1500 UTC, 17461 kHz, “413 413 413 1”, message, DK/GC “393 150” x 2, a longer message than most, ended just before 1515z, signal strong to very strong.
1520 UTC, 16161 kHz, strong.
1540 UTC, 14361 kHz, very strong.

13-Oct-23, Friday:- 1500 UTC, 17461 kHz, “413” and “393 150” again, good signal.
1520 UTC, 16161 kHz, strong.
1540 UTC, 14361 kHz, very strong.

17-Oct-23, Tuesday:- 1500 UTC, 17461 kHz and 1520 UTC, 16161 kHz, both strong signals, “413 413 413 000”.

24-Oct-23, Tuesday:- 1520 UTC, 16161 kHz, arrived home just in time to catch the second sending, “413 413 413 1”, DK/GC “537 125” x 2, strong signal, ended just before 1533 UTC.
1540 UTC, 14361 kHz, very strong signal at first, became slightly weaker a few minutes in.

27-Oct-23, Friday:- 1500 UTC, 17461 kHz, “413” and “537 125” again, strong signal
1520 UTC, 16161 kHz, strong.
1540 UTC, 14361 kHz, very strong.

Then on to others’ logs:

Sunday

September 2023

0600z	**9261kHz**	**0620z**	**10261kHz**	**0640z**	**11461kHz**
03/09	224 000				0620z Weak, 0600z NRH
10/09	224 000		0620z only		Weak, Poor Cndx
17/09	224 000				Weak
24/09	224 000				Weak, 0620z only

October 2023

0600z	10317kHz	0620z	11117kHz	0640z	12217kHz	
01/10	312 000					Fair, QRN2
22/10	312 000					Weak
29/10	312 000					Weak

Tuesday/Friday

September 2023

1500z	17452kHz	1520z	16242kHz	1540z	18542kHz	
01/09	428 1 9220 56 05778 ... 87345 000 000					1540z Fair, rest Weak
08/09	428 000					Weak
12/09	428 1 3620 99 97342 ... 48037 000 000					Weak
15/09	428 1 3620 99 97342 ... 48037 000 000					Weak
22/09	428 000					Weak
25/09	NRH					[PLdn]
29/09	428 427 112 31213 ... 01095 000 000					Strong [Cardiff]

October 2023

1500z	17461kHz	1520z	16161kHz	1540z	14361kHz	
03/10	413 000					1500z Fair, 1520z Strong
06/10	413 000					1500z Strong, 1520z Fair
10/10	413 1 393 150 06651 ... 41751 000 000					Weak
13/10	413 1 393 150 06651 ... 41751 000 000					1500z Weak, rest Fair

413 1 393 15

06651 94694 00034 77252 77525 76226 12735 80987 89526 34479
06016 26719 64680 59180 99251 00346 06164 14798 25299 80777
84996 14555 80178 89574 60861 75788 28321 63580 52663 90631
31113 59177 68009 06718 40710 99432 66366 24713 58011 14370
43340 48503 21169 01187 53813 73345 56268 52480 47907 15562
49944 37551 42181 88344 60503 12206 72992 32248 78423 75780
53480 80148 56180 33893 97989 11586 78079 98267 89075 59366
69788 28885 50802 32773 27237 83787 98327 21569 05899 65911
97610 55538 94325 96877 84384 67394 46516 06260 61115 82560
19098 53230 30150 06533 37767 79804 20202 43894 19246 72706
53974 74732 71701 67022 22924 65064 51277 25422 52284 42767
37380 42442 89600 70017 22546 38318 06750 74704 46681 21568
04399 70842 48517 15256 62796 14122 40838 63985 78532 65705
63411 33778 77163 29241 32680 83892 41320 48307 66272 29507
61316 94593 27462 70670 71355 44777 78092 04010 01105 41751
000 000 *Courtesy HJH*

17/10	413 000					Strong
20/10	413 000					Fair
24/10	413 1 537 125 84455 ... 45495 000 000					1500z Weak QRM, rest Fair
31/10	413 000					Strong

Thursday/Saturday

September 2023

1410z	16228kHz	1430z	15928kHz	1450z	14928kHz	
02/09	594 1 115 92 57427 … 81600 000 000					Weak

07/09	594 000	1430z Fair, 1410z Weak
09/09	594 000	Fair
14/09	594 1 7134 59 08102 ... 88943 000 000	Weak, poor condx
16/09	594 1 7134 59 08102 ... 88943 000 000	Weak
21/09	594 000	Weak, 1430z QRM
23/09	594 000	1410z Weak, 1430z Strong
28/09	594 1 360 70 11728 ... 73795 000 000	1450z Fair. 1410z NRH, 1430z Fair at start then QSB to nil
30/09	594 1 360 70 11728 ... 73795 000 000	Fair, 1450z MISSED

October 2023

1410z	**15849kHz**	**1430z**	**14849kHz**	**1450z**	**13449kHz**
05/10	746 000				Weak
07/10	746 000				Weak
12/10	746 1 635 66 64889 ... 88876 000 000				Weak
14/10	746 1 635 66 64889 ... 88876 000 000				Weak
19/10	746 000				Weak
21/10	746 000				1410z Weak, 1430z Fair
26/10	746 1 349 88 17980 ... 39398 000 000				Fair

Saturday

September 2023

1300z	**12176kHz**	**1320z**	**11576kHz**	**1340z**	**10276kHz**
02/09	152 000				Strong
09/09	152 000				Fair
16/09	152 000				Fair
23/09	152 000				1300z Fair, 1320z Strong
30/09	152 000				Strong [Cardiff]

October 2023

1300z	**12176kHz**	**1320z**	**11576kHz**	**1340z**	**10276kHz**
07/10	152 000				Weak
21/10	152 000				1300z Strong, 1320z Very strong

E11 & E11a log Sept/Oct

Peter's logs open this time with some analysis:

This number station continues to be very active on a large number of frequencies although the vast majority of transmissions are of the three minutes and ten seconds "oblique zero zero", "no message" variety. A selection of some heard in the last two months below, mostly early mornings and mid to late evenings UK time:-

4181 kHz, 1910 UTC:-
2-Sept-23, Saturday:- "395/00".
9-Sept-23, Saturday:- "359/00".
13-Sept-23, Wednesday:- "391/00".
16-Sept-23, Saturday:- "392/00":-

20-Sept-23, Wednesday:- “394/40”, message, “Out” at 1921:13s UTC.
27-Sept-23, Wednesday:- “395/00”.
4-Oct-23, Wednesday:- “392/00”.
11-Oct-23, Wednesday:- “392/00”.
14-Oct-23, Saturday:- “395/00”.
18-Oct-23, Wednesday:- “394/32”, message, “Out” at 1919:40s UTC.
28-Oct-23, Saturday:- “396/00”.

5737 kHz, 2000 UTC:-
3-Sept-23, Sunday:- “522/00”.
7-Sept-23, Thursday:- “520/32”, message.
14-Sept-23, Thursday:- “528/00”.
17-Sept-23, Sunday:- “528/00”.
21-Sept-23, Thursday:- “527/00”.
28-Sept-23, Thursday:- “528/00”.
1-Oct-23, Sunday:- “521/00”.
5-Oct-23, Thursday:- “527/00”.
8-Oct-23, Sunday:- “524/00”.
22-Oct-23, Sunday:- “520/37”, message.

7317 kHz, 1900 UTC:-
14-Sept-23, Thursday:- “647/00”.
18-Sept-23, Monday:- “648/00”.
25-Sept-23, Monday:- “641/40”, message.
28-Sept-23, Thursday:- “641/40” again.
2-Oct-23, Monday:- “640/36”, another message.
5-Oct-23, Thursday:- “640/36” again, “Out” at 1910:27s UTC.
19-Oct-23, Thursday:- “648/00”.
23-Oct-23, Monday:- “646/00”.
26-Oct-23, Thursday:- “644/00”.

8180 kHz, 0700 UTC:-
5-Sept-23, Tuesday:- “571/00”.
8-Sept-23, Friday:- “573/00”.
12-Sept-23, Tuesday:- “573/00”.
14-Sept-23, Friday:- “577/00”.
19-Sept-23, Tuesday:- “577/00”.
26-Sept-23, Tuesday:- “571/36”, message.
29-Sept-23, Friday:- “571/36” again.
10-Oct-23, Tuesday:- “579/00”.
17-Oct-23, Tuesday:- “577/00”.
24-Oct-23, Tuesday:- “574/31”, message, “Out” just before 0709:30s UTC.
27-Oct-23, Friday:- “574/31” again.

8530 kHz, 1910 UTC:-
3-Sept-23, Sunday:- “613/00”.
8-Sept-23, Friday:- “617/34”, message, “Out” just before 1920 UTC.
17-Sept-23, Sunday:- “612/00”.
22-Sept-23, Friday:- “618/00”.
29-Sept-23, Friday:- “610/00”.
1-Oct-23, Sunday:- “617/00”.
6-Oct-23, Friday:- “610/00”.
8-Oct-23, Sunday:- “618/00”.
20-Oct-23, Friday:- “612/00”.
22-Oct-23, Sunday:- “611/00”.
27-Oct-23, Friday:- “618/00”.

12202 kHz, 0845 UTC:-
18-Sept-23, Monday:- “718/00”.
25-Sept-23, Monday:- “713/00”.
2-Oct-23, Monday:- “710/00”.
9-Oct-23, Monday:- “718/00”.
23-Oct-23, Monday:- “710/32”, message.
30-Oct-23, Monday:- “714/00”.

14972 kHz, 1430 UTC:-
2-Sept-23, Saturday:- “917/00”.
9-Sept-23, Saturday:- “912/00”.
16-Sept-23, Saturday:- “915/33”, message, “Out” at 1439:52s UTC.
30-Sept-23, Saturday:- “912/00”.
10-Oct-23, Tuesday:- “915/38”, message, “Out” at 1440:48s UTC.
21-Oct-23, Saturday:- “912/00”.

19184 kHz, 0820 UTC:-
12-Sept-23, Tuesday:- “130/37”, message, very strong signal, “Out” at 0830:30s UTC.
20-Sept-23, Wednesday:- “131/00”.
27-Sept-23, Wednesday:- “130/00”.
3-Oct-23, Tuesday:- “138/00”, very strong.
4-Oct-23, Wednesday:- “136/00”, much weaker signal than on Tuesday.

10-Oct-23, Tuesday:- “134/37”, message, strong signal, “Out” at 0830:30s UTC.
11-Oct-23, Wednesday:- “134/37” again.
17-Oct-23, Tuesday:- “131/00”.
25-Oct-23, Wednesday:- “132/00”.

Now onto logs submitted via RNGB [thanks to all submitting].

4181kHz	1910z	02/09 [395/00] Out 1913z S5	Malc	SAT
	1910z	06/09 [399/00] Out 1913z S5	Malc, HfD	WED
	1910z	09/09 [395/00] Out 1913z S9	Malc	SAT
	1910z	13/09 [391/00] Out 1913z S7	Malc	WED
	1910z	16/09 [392/00] Out 1913z S9	Malc	SAT
	1910z	20/09 [394/40 08350…….48058] Out 1921z S9	Malc	WED
	1910z	27/09 [395/00] Out 1913z S9	Brixmis	WED
	1910z	04/10 [392/00] Out 1913z S4	Malc	WED
	1910z	07/10 [390/00] Out 1913z S6	Malc	SAT
	1910z	11/10 [392/00] Out 1911z S7	Malc	WED
	1910z	25/10 [390/00] Out 1913z S9	Malc	WED
4505kHz	1530z	02/09 [366/40 60050……..68876] Out 1541z S3 (Dutch SDR)	Malc, HfD	SAT
	1530z	09/09 [366/00] Out 1533z S9 (Finnish SDR)	Malc	SAT
	1530z	16/09 [368/00] Out 1533z S5 (Dutch SDR)	Malc	SAT
	1530z	17/09 [369/00] Out 1533z S4 (Dutch SDR)	Malc	SUN
	1530z	01/10 [369/00] Out 1533z S3 (Dutch SDR)	Malc	SUN
	1530z	08/10 [369/00] Out 1533z S2	Malc	SUN
	1530z	15/10 [368/00] Out 1533z S2	Malc	SUN
	1530z	22/10 [364/37 33224…….92013] Out 1541z S2	Malc	SUN
5176kHz	1600z	03/09 [236/00]	HfD	SUN
	1600z	05/09 [233/00] Out 1603z S2	Malc	TUE
	1605z	12/09 [237/33 58086…….37005] Out 1615z S3	Malc	TUE
	1605z	19/09 [233/00] Out 1608z S2	Malc	TUE
	1605z	01/10 [237/00] Out 1608z S2	Malc	SUN
	1605z	08/10 [231/00] Out 1608z S3+QRM	Malc	SUN
	1605z	10/10 [237/00] Out 1608z S2+QRM	Malc	TUE
	1605z	15/10 [236/00] Out 1608z S4+QRM	Malc	SUN
	1605z	22/10 [231/00] Out 1608z S3+QRM	Malc	SUN
	1605z	24/10 [235/32 99024……..50716] Out 1615z S3+QRM	Malc	TUE
	1605z	31/10 [230/00] Out 1608z S2+QRM	Malc	TUE
5371kHz	1300z	04/09 [313/00] Out 1303z S5 (Finnish SDR)	Malc, HfD	MON
	1300z	07/09 [310/00] Out 1303z S9 (Finnish SDR)	Malc	THU
	0450z	11/09 [415/00]	HfD	MON
	1300z	11/09 [313/00] Out 1303z S4 (Finnish SDR)	Malc	MON
	1300z	18/09 [311/39 86646…….88191] Out 1311z S4 (Finnish SDR)	Malc	MON
	1300z	02/10 [310/00] Out 1303z S3 (Dutch SDR)	Malc	MON
	1300z	05/10 [310/00] Out 1303z S2	Malc	THU
	1300z	12/10 [310/00] Out 1303z S3 (Dutch SDR)	Malc	THU
	0450z	16/10 [412/00]	HfD	MON
	1300z	23/10 [313/31 02761…….44241] Out 1309z S3 (Dutch SDR)	Malc	MON
	1300z	20/10 [316/00] Out 1303z S2	Malc	MON
5737kHz	2000z	03/09 [522/00] Out 2003z S5	Malc, HfD	SUN
	2000z	07/09 [520/32 64854……..32707] Out 2010z S4	Malc	THU
	2000z	21/09 [527/00] Out 2003z S4	Malc	THU
	2000z	01/10 [521/00] Out 2003z S4	Malc	SUN
	2000z	05/10 [527/00] Out 2003z S3	Malc	THU
	2000z	08/10 [524/00] Out 2003z S5	Malc	SUN
	2000z	12/10 [521/00] Out 2003z S3	Malc	THU
	2000z	15/10 [525/00] Out 2003z S3	Malc	SUN
	2000z	19/10 [520/37 89924 59578 76137 33128 41766 83304 16288 77309……90276 65350] Out 2010z	Brixmis	THU
	2000z	22/10 [520/37 89924…….65350] Out 2011z S3	Malc	SUN
6807kHz	0820z	20/10 [430/39 78487……67574] Out 0831z S2	Malc	FRI
6923kHz	1715z	01/09 [970/00] Out 1718z S4	Malc, HfD	FRI
	1715z	13/09 [974/00] Out 1718z S5	Malc	WED
	1715z	20/09 [976/00] Out 1718z S5	Malc	WED
	1715z	04/10 [976/37 67490…….09750] Out 1718z S7	Malc	WED
	1715z	11/10 [977/00] Out 1718z S9	Malc	WED
	1715z	13/10 [974/00] Out 1718z S7	Malc	FRI
	1715z	20/10 [970/00] Out 1718z S4	Malc	FRI
	1715z	25/10 [977/00] Out 1718z S5	Malc, Brixmis	WED

6940kHz	0930z	06/09 [270/00] Fair	RNGB, HfD	WED
	0930z	07/09 [271/00] Out 0933z S2 (Dutch SDR)	Malc	THU
	0930z	14/09 [275/00] Out 0933z S3 (Dutch SDR)	Malc	THU
	0930z	20/09 [276/00] Out 0933z S5 (Finnish SDR)	Malc	WED
	0930z	21/09 [271/00] Out 0933z S3 (Dutch SDR)	Malc	THU
	0930z	04/10 [279/00] Out 0933z S6 (Dutch SDR)	Malc	WED
	0930z	05/10 [275/00] Out 0933z S4 (Finnish SDR]	Malc	THU
	0930z	11/10 [271/00] Out 0933z S2	Malc	WED
	0930z	12/10 [276/00] Out 0933z S5 (Dutch SDR)	Malc	THU
	0930z	25/10 [276/34 21928……..37922] Out 0940z	Malc	WED
7317kHz	1900z	04/09 [641/00] Out 1903z S7	Brixmis	MON
	1900z	07/09 [644/00] Out 1903z S5	Malc, HfD	THU
	1900z	11/09 [644/00] Out 1903z S5	Malc	MON
	1900z	14/09 [647/00] Out 1903z S7	Malc	THU
	1900z	18/09 [648/00] Out 1903z S9	Malc	MON
	1900z	21/09 [646/00] Out 1903z S4	Malc	THU
	1900z	25/09 [641/40 96864 24346 49587 29405 11570 48787 74355……43992 88930] Out 1911z S8	Brixmis	MON
	1900z	02/10 [640/36 28028…….63313] Out 1910z S5	Malc	MON
	1900z	05/10 [640/36 28028 38496 66921 73639 80663 55104 00335……63169 63313] Out 1910z S8	Brixmis, Malc	THU
	1900z	09/10 [641/00] Out 1903z S6	Malc	MON
	1900z	12/10 [648/00] Out 1903z S6	Malc	THU
	1900z	16/10 [644/00] Out 1903z S4	Malc	MON
	1900z	23/10 [646/00] Out 1903z S6	Malc	MON
	1900z	26/10 [644/00] Out 1903z S8	Brixmis	THU
7670khz	0820z	01/09 [434/00] Strong	RNGB, HfD	FRI
	0820z	07/09 [432/00] Out 0823z S2	Malc	THU
	0820z	08/09 [436/00] Good	RNGB	FRI
	0820z	14/09 [438/00] Out 0823z S4 (Dutch SDR)	Malc	THU
	0820z	15/09 [434/00] Good	RNGB	FRI
	0820z	21/09 [432/00] Out 0823z S2	Malc	THU
	0820z	28/09 [435/30 56793 31267 66106 42058 66672 75386 76991……		
	0820z	05/10 [431/00] Out 0823z S5	Malc	THU
7864kHz	1730z	07/09 [410/32 81564…….31072] Out 1740z S4	Malc, HfD	THU
	1730z	14/09 [415/00] Out 1733z S3	Malc	THU
	1730z	21/09 [416/00] Out 1733z S3	Malc	THU
	1730z	05/10 [414/00] Out 1733z S3	Malc	THU
8180kHz	0700z	01/09 [571/00] Strong	RNGB, Malc, HfD	FRI
	0700z	05/09 [571/00] Good	RNGB	TUE
	0700z	05/09 [571/00] Out 0703z S3	Malc	TUE
	0700z	12/09 [573/00] Good	RNGB, Malc	TUE
	0700z	15/09 [577/00] Out 0703z S3	Malc	FRI
	0700z	19/09 [577/00] Good	RNGB, Malc	TUE
	0700z	26/09 [571/36 78103 25571 15095 66616 09929 68216 65022 66221…….88263 94072] Good	RNGB	TUE
	0700z	06/10 [576/00] Good	RNGB, Malc	FRI
	0700z	10/10 [579/00] Out 0703z S4	Malc	TUE
	0700z	13/10 [579/00] Good	RNGB	FRI
	0700z	20/10 [570/00] Out 0703 S5	Brixmis, Malc	FRI
	0700z	24/10 [574/31 61196 91051 22848 68451 31019 26995……71564 70507 03954] Out 0709z S4	RNGB, Malc	TUE
8423kHz	0645z	05/09 [519/00] Out 0648z S5	Malc, HfD	TUE
	0645z	07/09 [512/00] Out 0648z S3	Malc	THU
	0645z	12/09 [512/35 67361……..48305] Out 0656z S3	Malc	TUE
	0645z	19/09 [511/00] Out 0648z S3	Malc	TUE
	0645z	21/09 [510/00] Good	RNGB, Malc	THU
	0645z	28/09 [517/00] Good	RNGB	THU
	0645z	03/10 [519/34 03513 94244 06403 2418235673 20167 42392 72419……11397 96827] Good	RNGB	TUE
	0645z	10/10 [518/00] Out 0648z S4	Malc	TUE
	0645z	12/10 [510/00] Out 0648z S4	Malc	THU
	0645z	19/10 [511/00] Good	RNGB, Brixmis	THU
	0645z	24/10 [514/00] Out 0703z S6	Malc	TUE
8530kHz	1910z	01/09 [618/00] Out 1913z S7	Brixmis, Malc, HfD	FRI
	1910z	03/09 [613/00] Out 1913z S5	Malc	SUN
	1910z	17/08 [612/00] Out 1913z S7	Malc	SUN
	1910z	01/10 [617/00] Out 1913z S7	Malc	SUN
	1910z	06/10 [610/00] Out 1913z S7	Malc, Brixmis	FRI
	1910z	08/10 [618/00] Out 1913z S5	Malc	SUN
	1910z	15/10 [610/35 12920…….44518] Out 1920z S4	Malc	SUN

	1910z	20/10 [612/00] Out 1913z S9	Malc	FRI
	1910z	22/10 [611/00] Out 1913z S6	Malc, Brixmis	SUN
8680kHz	0600z	22/10 [352/00] Out 0603z S6	Malc	SUN
9051kHz	1000z	05/09 [309/23 21644…….21847] Out 1008z S2	Malc	TUE
9079kHz	0700z	02/09 [490/34 85860…….18709] Out 0710z S2	Malc	SAT
	0700z	10/09 [498/00] Strong	RNGB	SUN
	0700z	16/09 [495/00] Out 0703z S3	Malc	SAT
	0700z	23/09 [496/00] Good	RNGB, Malc	SAT
	0700z	30/09 [492/00] Good	RNGB	SAT
	0700z	01/10 [498/00] Good	RNGB, Malc	SUN
	0700z	07/10 [491/00] Out 0703z S4	Malc	SAT
	0700z	14/07 [49?/39] 47047 13016 11536 94894 43234 82092 05121 13639……. 58723 23726] Good	RNGB	SAT
	0700z	22/10 [498/00] Out 0703z S4	Malc	SUN
9399kHz	1205z	06/09 [466/00] Out 1208z S2	Malc	WED
	1205z	12/09 [460/00] Out 1208z S2	Malc	TUE
	1300z	13/09 [469/00] Out 1303z S7 (Dutch SDR)	Malc	WED
	1205z	19/09 [464/00] Out 1208z S3	Malc	TUE
	1205z	20/09 [466/00] Out 1208z S2	Malc	WED
	1205z	04/10 [461/00] Out 1208z S2	Malc	WED
	1205z	10/10 [466/00] Out 1208z S2	Malc	TUE
	1205z	17/10 [469/00] Out 1208z S6	Brixmis	TUE
	1205z	24/10 [469/37 81640…….45622] Out 1216z S3	Malc	TUE
	1205z	31/10 [463/00] Out 1208z S3	Malc	TUE
9951kHz	1000z	01/09 [300/00] Strong	RNGB, Malc, HfD	FRI
	1000z	12/09 [305/00] Out 1003z S3	Malc	TUE
	1000z	15/09 [307/00] Out 1003z S2	Malc	FRI
	1000z	19/09 [302/00] Out 1003z S2	Malc	TUE
	1000z	06/10 [307/00] Out 1003z S2	Malc	FRI
	1000z	10/10 [305/00] Out 1003z S3	Malc	TUE
	1000z	13/10 [300/00] Out 1003z S3	Malc	FRI
	1000z	20/10 [305/34 10065…….72787] Out 1010z S3	Malc	FRI
	1000z	24/10 [308/00] Out 1003z S4	Malc	TUE
	1000z	31/10 [305/00] Out 1003z S3	Malc	TUE
9963khz	0715z	01/09 [636/00] Good	RNGB, Malc, HfD	FRI
	0715z	05/09 [637/35 66302 85918 75854 28996 70076 70088 44500…….87340 72976 54378] Strong	RNGB	TUE
	0715z	12/09 [630/00] Strong	RNGB, Malc	TUE
	0715z	15/09 [639/00] Out 0718z S3	Malc	FRI
	0715z	19/09 [635/00] Fair	RNGB	TUE
	0715z	26/09 [634/00] Strong	RNGB	TUE
	0715z	29/09 [633/00] Good	RNGB	FRI
	0715z	06/10 [635/34 75591…….87636] Out 0718z S5	Malc	FRI
	0715z	10/10 [633/00] Out 0718z S3	Malc	TUE
	0715z	17/10 [631/00] Good	RNGB	TUE
	0715z	20/10 [634/00] Good	RNGB, Malc	FRI
	0715z	24/10 [636/00] Out 0718z S4	Malc,RNGB	TUE
	0715z	31/10 [635/00] Out 0718z S3	Malc	TUE
9968khz	0900z	04/09 [532/00] Strong	RNGB, Malc	MON
	0900z	06/09 [533/00] Out 0903z S3	Malc	WED
	0900z	11/09 [537/00] Out 0903z S3	Malc	MON
	0900z	13/09 [536/00] Out 0903z S3	Malc	WED
	0900z	18/09 [533/00] Good	RNGB, Malc	MON
	0900z	20/09 [530/00] Good	RNGB	WED
	0900z	02/10 [535/00] Good	RNGB, Malc	MON
	0900z	04/10 [538/00] Out 0903z S4	Malc	WED
	0900z	09/10 [534/00] Out 0903z S4	Malc	MON
	0900z	11/10 [538/00] Out 0903z S5	Malc	WED
	0900z	16/10 [534/34 62129 95390 23276 52453 25785 77692 68872 54069……73142 36289] Good	RNGB	MON
	0900z	23/10 [533/00] Out 0903z S4	Malc	MON
	0900z	25/10 [536/00] Good	RNGB, Malc	WED
	0900z	20/10 [536/00] Out 0903z S4	Malc	MON
10200kHz	1045z	04/09 [697/00] Out 1048z S3	Malc, HfD	MON
	1045z	06/09 [698/00] Out 1048z S3	Malc	WED
	1045z	11/09 [696/00] Out 1048z S5	Malc	MON
	1045z	13/09 [696/00] Out 1048z S2	Malc	WED

	1045z	18/09 [696/40 65621……..49396] Out 1056z S4	Malc	MON
	1045z	02/10 [690/00] Out 1048z S3	Malc	MON
	1045z	09/10 [692/00] Out 1048z S4	Malc	MON
	1045z	11/10 [690/00] Out 1048z S4	Malc	WED
	1045z	16/10 [683/29 87153…….99189] Out 1054z S4	Malc	MON
	1045z	23/10 [694/00] Out 1048z S4	Malc	MON
	1045z	25/10 [698/00] Out 1048z S4	Malc	WED
	1045z	20/10 [696/00] Out 1048z S4	Malc	MON
10213kHz	0745z	04/09 [268/36 19908…….44478] Out 0756z S5	Malc	MON
	0745z	11/09 [267/00] Good	RNGB	MON
	0745z	18/09 [268/00] Good	RNGB, Malc	MON
	0745z	25/09 [269/00] Good	RNGB	MON
	0745z	02/10 [261/00] Good	RNGB, Malc	MON
	0745z	09/10 [261/00] Out 0748z S4	Malc	MON
	0745z	23/10 [264/32 56767 64199 62907 61942 76061 39255 48654……02383 17716] Out 0755z S7	RNGB, Malc	MON
	0745z	30/10 [266/00] Out 0748z S7	Malc	MON
10330kHz	1530z	07/09 [268/36 19908…….44478] Out 1540z S6	Malc, HfD	THU
	1530z	14/09 [266/00] Out 1533z S6	Malc	THU
	1530z	21/09 [260/00] Out 1533z S9	Malc	THU
	1530z	05/10 [262/00]	Gary H, Malc	THU
	1530z	12/10 [262/00] Out 1533z S6	Malc	THU
11116khz	1815z	01/09 [927/00] Out 1818z S3	Brixmis, Malc, HfD	FRI
	1815z	03/09 [927/00] Out 1818z S7	Malc	SUN
	1815z	29/09 [929/00] Out 1818z S6	Brixmis	FRI
	1815z	01/10 [927/00] Out 1818z S6	Malc	SUN
	1815z	06/10 [920/00] Out 1819z S4	Malc, Brixmis	FRI
	1815z	08/10 [925/00] Out 1818z S6	Malc	SUN
	1815z	15/10 [925/00] Out 1818z S5	Malc	SUN
	1815z	20/10 [929/35 93221…….75890] Out 1825z S4	Malc	FRI
	1815z	22/10 [932/21……75890] Out 1825z S7	Malc	SUN
11581kHz	0315z	18/09 [258/40 46638……]	HfD	MON
	0315z	23/10 [253/00]	HfD	MON
12202kHz	0845z	04/09 [714/00]	HfD	MON
	0845z	06/09 [710/00] Out 0848z S3	Malc	WED
	0845z	11/09 [715/33 82058……..67661] Out 0855z S4+QRM	Malc	MON
	0845z	18/09 [718/00] Out 0848z S6	Malc	MON
	0845z	20/09 [715/00] Out 0848z S5	Malc	WED
	0845z	25/09 [713/00] Weak	RNGB	MON
	0845z	02/10 [710/00] Out 0848z S5	Malc	MON
	0845z	04/10 [716/00] Out 0848z S9	Malc	WED
	0845z	09/10 [718/00] Out 0848z S6	Malc	MON
	0845z	11/10 [716/00] Out 0848z S5	Malc	WED
	0845z	16/10 [718/00] Out 0848z S9	Malc	MON
	0845z	23/10 [710/32 79662…….37922] Out 0855z S7	Malc	MON
	0845z	30/10 [714/00] Out 0848z S4	Malc	MON
12530kHz	1230z	05/09 [332/00] Out 1233z S5	Malc, HfD	TUE
	1230z	07/09 [338/00] Out 1233z S5	Malc	THU
	1230z	12/09 [338/34 69499……..46562] Out 1240z S6	Malc	TUE
	1230z	19/09 [335/00] Out 1233z S3	Malc	TUE
	1230z	21/09 [337/00] Out 1233z S4	Malc	THU
	1230z	05/10 [335/00] Out 1233z S5	Malc	THU
	1230z	10/10 [338/34 06483…….66292] Out 1240z S4	Malc	TUE
	1230z	17/10 [332/00]	Gary H, Brixmis	TUE
	1230z	19/10 [331/00]	Gary H	THU
	1230z	24/10 [338/00] Out 1233z S5	Malc, Brixmis	TUE
	1230z	31/10 [331/00] Out 1233z S5	Malc	TUE
13470kHz	1745z	03/09 [247/00] Out 1748z S3	Malc, HfD	SUN
	1745z	11/09 [244/00] Out 1748z S5	Malc	MON
	1745z	17/09 [244/00] Out 1748z S9	Malc	SUN
	1745z	18/09 [240/31 88145…….13612] Out 1755z S9	Malc	MON
	1745z	25/09 [248/00] Out 1748z S7	Brixmis	MON
	1745z	01/10 [244/00] Out 1748z S7	Malc	SUN
	1745z	02/10 [240/00] Out 1748z S4	Malc	MON
	1745z	08/10 [249/00] Out 1748z S7	Malc	SUN
	1745z	09/10 [248/30 83451…… 95158] Out 1754z S5	Malc	MON

	1745z	15/10 [248/30 83451…….95158] Out 1754z S7	Malc	SUN
	1745z	16/10 [244/00] Out 1748z S5	Malc	MON
	1745z	22/10 [248/00] Out 1748z S9	Malc	SUN
	1745z	23/10 [244/00] Out 1748z S5	Malc	MON
	1745z	20/10 [245/00] Out 1748z S8	Malc	MON
14865kHz	0745z	05/09 [229/00] Fair	RNGB, Malc, HfD	TUE
	0745z	07/09 [223/00] Out 0748z S3	Malc	THU
	0745z	14/09 [225/00] Fair	RNGB, Malc	THU
	0745z	19/09 [227/38 74599 65122 95064 17056 05046 66157 00972 63480……59301 35792 20009]	RNGB, Malc	TUE
	0745z	28/09 [220/00] Fair	RNGB	THU
	0745z	05/10 [228/00] Fair	RNGB, Malc	THU
	0745z	10/10 [220/00] Out 0748z S4	Malc	TUE
	0745z	12/10 [229/00] Out 0748z S7	Malc	THU
	0745z	24/10 [223/00] Out 0748z S5	Malc	TUE
	0745z	31/10 [229/00] Good	RNGB, Malc	TUE
14972kHz	1430z	02/09 [917/00] Out 1433z S6	Malc, HfD	SAT
	1430z	05/09 [918/00] Out 1432z S6	Malc	TUE
	1430z	09/09 [912/00] Out 1433z S5	Malc	SAT
	1430z	19/09 [917/00] Out 1433z S4	Malc	TUE
	1430z	23/09 [917/00] Out 1433z S5	Malc, Gary H	SAT
	1430z	26/09 [911/00] Out1433z	Gary H	TUE
	1430z	07/10 [917/00] Out 1433z S4	Malc	SAT
	1430z	10/10 [915/38 27299 93640 32437 5775? 82751 95102 31216 87398……40378 12303]	Gary H	TUE
	1430z	17/10 [914/00] Out 1433z S8	Brixmis, Gary H	TUE
	1430z	21/10 [912/00]	Gary H	SAT
	1430z	24/10 [918/00] Out 1433z S9	Malc, Gary H	TUE
	1430z	31/10 [915/00] Out 1433z S7	Malc	TUE
15632kHz	0715z	04/09 [753/35 12828 86865 40659 12962 11265 09986…….34346] Out 0725z S2	RNGB, Malc	MON
	0715z	11/09 [754/00] Good	RNGB	MON
	0715z	13/09 [757/00] Good (Polish SDR)	RNGB, Malc	WED
	0715z	18/09 [752/00] Good	RNGB, Malc	MON
	0715z	20/09 [755/00] Out 0703z S3 (Dutch SDR)	Malc	WED
	0715z	02/10 [754/00] Fair	RNGB, Malc	MON
	0715z	04/10 [755/00] Out 0718z S2	Malc	WED
	0715z	09/10 [751/00] Out 0718z S4	Malc	MON
	0715z	11/10 [750/00] Out 0718z S8	Malc	WED
	0715z	16/10 [751/32 18124 09679 59766 69436 63332 92404 38717 40727…….12669 54939] Good	RNGB, Malc	MON
	0715z	23/10 [757/00] Out 0718z S8	Malc	MON
	0715z	25/10 [754/00] Good	RNGB, Malc	WED
	0715z	30/10 [750/00] Out 0718z S6	Malc	MON
17410kHz	0745z	01/09 [347/00] Out 0748z S2+QRM	Malc	FRI
	0745z	06/09 [344/32 07062 10882 89091 93943 67907 88329 48364 59407……52849 79852 47707]	RNGB	WED
	0745z	13/09 [346/00] Out 0748z S2 (Finnish SDR)	Malc	WED
	0745z	20/09 [347/00] Out 0748z S2	Malc	WED
	0745z	29/09 [347/00] Weak	RNGB	FRI
	0745z	04/10 [340/36 33099…….64431] Out 0755z S2 (Dutch SDR)	Malc	WED
	0745z	11/10 [344/00] Out 0748z S6	Malc	WED
	0745z	13/10 [343/00] Out 0748z S5	Malc	FRI
	0745z	18/10 [346/00] Fair	RNGB	WED
	0745z	20/10 [348/00] Weak	RNGB, Malc	FRI
	0745z	25/10 [340/00] Out 0755z S6	Malc	WED
18168kHz	0845z	05/09 [156/00] Out 0848z S3	Malc, HfD	TUE
	0845z	07/09 [152/00] Out 0848z S3	Malc	THU
	0845z	12/09 [151/00] Weak	RNGB, Malc	TUE
	0845z	14/09 [157/00] Out 0848z S2 (Dutch SDR)	Malc	THU
	0845z	19/09 [157/00] Out 0848z S4	Malc	TUE
	0845z	21/09 [150/00] Out 0848z S2	Malc	THU
	0845z	05/10 [152/00] Out 0848z S3	Malc	THU
	0845z	10/10 [152/00] Out 0848z S4	Malc	TUE
	0845z	12/10 [159/00] Out 0848z S6	Malc	THU
	0845z	19/10 [159/26 91262 67365 77820 74919 28840 97080 97079 86495…….65796 43067] Good	RNGB	THU
	0845z	24/10 [156/00] Out 0848z S6	Malc	TUE
	0845z	31/10 [159/00] Out 0848z S5	Malc	TUE
19184kHz	0820z	05/09 [138/00] Good (Polish SDR)	RNGB, Malc, HfD	TUE
	0820z	06/09 [133/00] Good (Polish SDR)	RNGB	WED
	0820z	12/09 [130/37 78770……..96226] Out 0831z S8	Malc	TUE

	0820z	20/09 [131/00] Fair	RNGB	WED
	0820z	26/09 [136/00] Weak	RNGB	TUE
	0820z	03/10 [138/00] Fair	RNGB	TUE
	0820z	04/10 [136/00] Fair	RNGB, Malc	WED
	0820z	10/10 [134/37 25159…….46676] Out 0831z S2	Malc	TUE
	0820z	18/10 [132/00] Fair	RNGB, Brixmis	WED
	0820z	24/10 [133/00] Out 0823z S5	Malc	TUE
	0820z	25/10 [132/00] Out 0823z S4	Malc	WED
	0820z	31/10 [132/00] Weak	RNGB, Malc	TUE
19515kHz	0600z	16/10 [948/00] Out 0603z	Ary	MON
	0600z	23/10 [941/00] Fair (Polish SDR)	RNGB, Malc	MON
20170khz	0830z	01/09 [183/00] Weak	RNGB, Malc, HfD	FRI
	0830z	04/09 [184/00] Fair	RNGB, Malc	MON
	0830z	08/09 [181/00] Fair (Polish SDR)	RNGB	FRI
	0830z	11/09 [182/22 40844 68381 19460 90969 06676 53175 52441 78489……93164 66361] Fair	RNGB	MON
	0830z	18/09 [181/00] Good (Polish SDR)	RNGB	MON
	0830z	22/09 [188/00] Good (Polish SDR)	RNGB	FRI
	0830z	02/10 [189/00] Fair	RNGB, Malc	MON
	0830z	06/10 [182/00] Good (Polish SDR)	RNGB, Malc	FRI
	0830z	09/10 [188/00] Out 0833z S7	Malc	MON
	0830z	13/10 [188/00] Out 0833z S5	Malc	FRI
	0830z	16/10 [180/24 33237 79677 70674 32073 48345 84580 44800 49739…….71050 42891] Out 0938z	RNGB, Malc	MON
	0830z	23/10 [180/00] Fair	RNGB, Malc	MON
	0830z	30/10 [184/00] Fair	RNGB, Malc	MON

The crazy world of 121

9049kHz 0650z 15/09 [121/30 89735 48769 53428 76543 52876 93458 97035 46897 05236 79632 47568 35468 93456 89702 35487 69354 28769 35428 69735 48769 35428 69742 35897 63542 87693 54289 76354 28769 35489 67354] Attention (message repeated) Out

0650z 16/09 [121/32 78954 37682 34758 34268 79543 67890 35648 97635 42768 93457 80954 36897 65438 76935 64789 05897 04352 67895 43678 90543 67890 54368 76954 36789 05643 87906 43789 06437 68964 53789 05643 78907]

0650z 17/09 [121/35 98419 19509 85198 49851 95095 61984 19841 65096 51984 19814 65065 09685 41984 19816 20651 94198 41650 36209 65198 41941 65165 06541 98418 94462 00651 96419 84198 12096 54984 98451 65198 49849 87415 61965 41983]

ID 121 pops up every now and then, often several days in a row.

Ary

S06

S06 log Sept/Oct 2023

Friday 1st & 3rd

		1900z	**9412khz**	**2000z**	**6985kHz**	
01/09	‘637’ 00000					
15/09	‘637’ 00000					
		2000z	**9412kHz**	**2100z**	**6985kHz**	
06/10	‘637’ 00000					
20/10	‘637’ 00000	(used 9417kHz)				

S06 & S06e

		1325z	**15674kHz**	**1425z**	**12203khz**	
04/10	‘583’ 706 2 66666 00056 706 2:	[S06e]				
	‘583’ 291 46 24225 54929 94829 70017 68261 15353 76964 74809 33007 94090 01092 24484 10861 52146 42223 19083 01904 64306 21243 72768 00656 96698 11445 40259 96996 55152 99068 13287 27189 84037 96288 79251 35932 20298 30069 59281 35385 32326 55344 67870 72107 98406 65950 61282 37845 28713 291 46 00000				(Thanks Gert & Ary)	
05/10	‘583’ 291 46 24225…..etc	[S06 only]		(Thanks Malc)		
		0400z	**11616kHz**	**0420z**	**9322kHz**	
01/09	‘480’ 973 56 09848……etc	via KiwiSDR J		(Thanks HfD)		

And onto Peter’s logs:

First + Third Fridays in the Month Schedule, 1900 + 2000 UTC in September, 2000 + 2100 UTC in October:-

1-Sept-23:- 1900 UTC, 9412 kHz, “637 637 637 00000”, weak signal, only just readable.
2000 UTC, 6985 kHz, stronger.
Same frequencies as used in the springtime months, or at least on Fridays 7th and 21st of April.

15-Sept-23:- 1900 UTC, 9412 kHz, “637 637 637 00000”, weak.
2000 UTC, 6985 kHz, much stronger.

6-Oct-23:- 2000 UTC, 9412 kHz, very weak signal of some kind, probably S06 but too weak to confirm, carrier only just detectable with RX in USB mode and tuned slightly LF,
appeared to go off air at approx 2004:15s which would suggest S06.

2100 UTC, 6985 kHz, “637 637 637 00000”, good signal, interference from strong pulse/buzz signal extending from about 6980 to 7007 kHz.

20-Oct-23:- Nothing heard of first sending at 2000z on 9412 although there was a very weak signal of some kind on 9417.
2100 UTC, 6985 kHz, “637 637 637 00000”, weaker than usual.

S11a log Sept/Oct

6433khz	0830z	02/09 [379/00] Good	RNGB, Malc, HfD	SAT
	0830z	09/09 [371/00] Konyetz 0833z S2	Malc	SAT
	0830z	10/09 [372/00] Strong	RNGB	SUN
	0830z	16/09 [378/00] Konyetz 0833z S5 (Dutch SDR)	Malc	SAT
	0830z	17/09 [370/00] Konyetz 0833z S3	Malc	SUN
	0830z	23/09 [376/40 49983…….34696] Konyetz 0843z S3	Malc	SAT
	0830z	30/09 [370/00] Good	RNGB	SAT
	0830z	01/10 [376/00] Konyetz 0833z S3	Malc	SUN
	0830z	07/10 [370/34 62574……..72919] Konyetz S6 (Finnish SDR)	Malc	SAT
	0830z	08/10 [370/34 62574……etc] Repeat of Saturday	Malc	SUN
	0830z	15/10 [376/00] Konyetz 0833z	Malc	SUN
	0830z	21/10 [378/00] Strong	RNGB	SAT
	0830z	22/10 [373/00] Konyetz 0833z S3	Malc	SUN
6480khz	0915z	01/09 [480/00] Good	RNGB, Malc, HfD	FRI
	0915z	04/09 [487/00] Konyetz 0918z S2+QRM (Finnish SDR)	Malc	MON
	0915z	11/09 [484/00] Konyetz 0918z S2 (Dutch SDR)	Malc	MON
	0915z	15/09 [483/00] Konyetz 0918z S3 (Finnish SDR)	Malc	FRI
	0915z	18/09 [483/38 17592 81421 97664 17326 23255 26945 42092 13682…… 34109 16232] Fair	RNGB, Malc	MON
	0915z	02/10 [480/00] Konyetz 0918z S4 (Dutch SDR)	Malc	MON
	0915z	06/10 [481/00] Konyetz 0918z S2	Malc	FRI
	0915z	09/10 [487/00] Konyetz 0918z S2+QRM	Malc	MON
	0915z	13/10 [482/00] Konyetz 0918z S2+QRM	Malc	FRI
	0915z	16/10 [482/00] Konyetz 0918z S2+QRM	Malc	MON
	0915z	20/10 [481/00] Konyetz 0918z S2+QRM	Malc	FRI
	0915z	23/10 [483/24 75375…….19010] Konyetz 0926z S4+QRM (Dutch SDR)	Malc	MON
	0915z	30/10 [482/00] Fair with QRM	RNGB, Malc	MON
8597kHz	0700z	04/09 [471/39 67865…….96188] Konyetz 0711z S3	Malc	MON
	0700z	11/09 [470/00] Konyetz 0703z S4	Malc	MON
	0700z	14/09 [479/00] Konyetz 0703z S2	Malc	THU
	0700z	18/09 [476/00] Konyetz 0703z S2	Malc	MON
	0700z	21/09 [477/00] Strong	RNGB, Malc	THU
	0700z	25/09 [471/00] Strong	RNGB	MON
	0700z	28/09 [476/00] Good	RNGB	THU
	0700z	02/10 [476/00] Konyetz 0703z S4	Malc	MON
	0700z	05/10 [479/00] Konyetz 0703z S3	Malc	THU
	0700z	09/10 [476/39 38851…….37886] Konyetz 0712z S4	Malc	MON
	0700z	12/10 [476/39 38851 50817 77434 56312 08977 20270 37276 21853……76646 37886] Good	RNGB	THU
	0700z	16/10 [478/00] Strong	RNGB, Malc	MON
	0700z	19/10 [478/00] Strong	RNGB	THU
	0700z	23/10 [479/00] Good	RNGB, Malc	MON
	0700z	26/10 [472/00] Strong	RNGB	THU
	0700z	30/10 [470/00] Konyetz 0703z S3	Malc	MON
10213kHz	1850z	06/09 [281/00] Konyetz 1853z S9	Malc, HfD	WED
	1850z	09/09 [287/00] Konyetz 1853z S9	Malc	SAT
	1850z	13/09 [289/00] Konyetz 1853z S5	Malc	WED
	1850z	16/09 [280/00] Konyetz 1853z S7	Malc	SAT
	1850z	20/09 [280/00] Konyetz 1853z S6	Malc	WED
	1850z	23/09 [282/00] Konyetz 1853z S8	Malc	SAT
	1850z	04/10 [392/00] Konyetz 1853z S5	Malc	WED
	1850z	07/10 [287/00] Konyetz 1853z S6	Malc	SAT
	1850z	11/10 [288/00] Konyetz 1853z S4+QRM	Malc	WED
	1850z	25/10 [287/31 00051…….01596] Konyetz 1901z S6	Malc	WED
10728kHz	0445z	26/09 [793 36 53561……..etc]	HfD	TUE
11420kHz	1400z	05/09 [426/00] Konyetz 1403z S5	Malc, HfD	TUE
	1400z	15/09 [420/36 84032…….79745] Konyetz 1412z S4	Malc	FRI
	1400z	19/09 [426/00] Konyetz 1403z S3	Malc	TUE
	1400z	06/10 [425/00] Konyetz 1403z S6	Malc	FRI
	1400z	10/10 [422/00] Konyetz 1403z S4	Malc, Gary H	TUE
	1400z	13/10 [425/00] Konyetz 1403z S5	Malc	FRI

	1400z	20/10 [420/00] Konyetz 1403z S5	Malc	FRI
	1400z	24/10 [422/36 28355…….10378] Konyetz 1412z S7	Malc, Gary H	TUE
	1400z	31/10 [424/00] Konyetz 1403z S5	Malc, Gary H	TUE
21854kHz	0725z	01/09 [382/00]	HfD	FRI
	0725z	06/09 [380/ 36 11649 13691 51702 78361 48781 48385……06524 78129 71384] Weak	RNGB	WED
	0725z	15/09 [381/00] Konyetz 0728z S3 (Finnish SDR)	Malc	FRI
	0725z	20/09 [380/00] Good (Polish SDR)	RNGB	WED
	0725z	04/10 [380/31 82742 79277 12517 45363 15912 07052 46113 16649……82638 32791]	RNGB, Malc	WED
	0725z	11/10 [381/00] Konyetz 0738z S5	Malc	WED
	0725z	13/10 [383/00] Konyetz 0728z S2	Malc	FRI
	0725z	18/10 [384/00] Weak	RNGB	WED
	0725z	20/10 [381/00] Fair	RNGB, Malc	FRI
	0725z	25/10 [384/00] Weak (Polish SDR)	RNGB	WED
23004kHz	0510z	13/09 [659/34 35920……etc]	HfD	WED
	0510z	16/10 [650/32 85655…….etc] (via KiwiSDR POL)	HfD	MON

V07

Sunday

September 2023

0200z 17431kHz 0220z 16131kHz 0240z 14431kHz

10/09 414 1 360 67 13735 ... 76615 000 000 Weak
After 6 minutes in group 34 the signal is out. At 6´23 restart in group 26.

414 414 414 1
360 67
13735 15411 71068 43687 96191
51581 97504 33252 24809 23371
25947 46249 43566 70290 27312
30314 13206 35069 73221 90793
65023 98106 47280 77671 73956
44304* 12370 60464 13840 30194
23401 67105 30074 4196*7 04796
55711 79412 74861 94102 08639
69957 19091 52656 38456 03632
79179 61745 31204 89606 56916
25420 90278 01612 21464 08665
87456 19105 82356 85821 87994
16524 60234 94074 91860 24932
98319 76615 000 000
Courtesy DanAR

17/09 414 1 638 115 89477 ... 80745 000 000 Weak

414 414 414 1
638 115
89477 49808 42536 93087 30841
68950 52906 36374 33962 88351
70470 68414 73154 74495 16766
86481 99420 96896 73684 72085
06756 46713 82251 15598 22134
54219 95389 72046 65594 12417
18059 98191 25179 59326 97923
54059 75051 16297 32486 05894
45901 75443 56236 74492 06820
22566 71868 22270 21365 47031
15792 96328 27208 48496 71358
67389 61273 15628 20338 91851
71682 17489 75571 28815 11838
45567 37504 45044 80749 09004
70728 59912 38782 71407 67987
87164 49198 48157 81846 99407
80502 58213 95291 26055 53490
36570 02219 21480 30618 95272
79773 66986 46001 34809 06093
19959 87004 45180 12000 98969
10224 07658 29421 23333 20781
87361 89801 20093 18807 54909
56460 59351 54460 63868 80745
000 000 *Courtesy DanAR*

24/09 414 1 7358 107 93493 ... 80349 000 000 Weak
Just before transmission heard an cw signal sending i r w t p b p n r t e s 30630 5 v s r p t p b l c l s 4444 95609 5 6 v su7ggak r

414 414 414 1
7358 107
93493 16107 56736 63299 55151
22587 67956 65161 40744 94978
10528 09314 14266 30872 34581
59253 27138 05716 37000 91193
14179 96527 20355 63131 35199
19288 41626 26769 29253 00984
63046 50623 18623 82567 77664
17207 00724 80080 21070 96567
46254 01582 82968 07255 70943
28747 00683 11059 32210 73591

81403 97003 69431 69622 72282
24447 91737 38913 17211 19615
43586 20110 71802 10115 88746
77466 78013 04142 43872 41862
61080 04271 03225 00070 56188
34045 14496 78925 03361 64110
58491 67543 28176 72990 15599
05308 00959 40287 39283 66712
58666 16399 10558 24585 70644
44697 51035 05553 03331 84386
59706 16789 02356 85255 34909
52743 80349 000 000
Courtesy DanAR

October 2023 [Schedule from Original Token and intercepts via DanAR]:

V07 Observations, January of 2023 to October of 2023

Station transmits each Sunday morning (UTC) at the listed time.
Transmissions are on the listed frequencies and in USB mode.

V07 Schedule, Oct 2023, Version 13.5 **Token**

Time UTC	January Call	February Call 238	March Call 112	April Call 414	May Call 431	June Call 942	July Call 931	August Call 425	September Call 414	October Call 238	November Call	December Call
0200		18217	19172	17431					17431	18217		
0220		16317	17472	16131					16131	16317		
0240		15817	16272	14431					14431	15817		
0700					14469	13927	13978	13408				
0720					13369	13427	13378	12208				
0740					12169	12127	12178	11508				

As of December 2022, V07 used the same schedule it had been using since about October of 2018. The last transmission in this schedule was observed on December 25, 2022. Nothing was heard from that date until 1 February, 2023. The station may have been active and not noticed, or it may have been inactive during this period.

Starting February of 2023 the station moved from an 0100/0300 schedule to an 0200 schedule. Since 2011 this station has always used odd hours, 0100, 0300, 0500, and / or 0700. This is the first time I am aware of that this outlet of this station has used an even hour, 0200.

In May 2023, V07 moved to a 0700 schedule from the 0200 schedule. It has used 0700 time slots in the past.

October 2023

0200z 18217kHz 0220z 16317kHz 0240z 15817kHz

08/10 238 1 364 99 67120 ... 00788 [18217kHz 0200z] Weak SUN

238 238 238 1
364 99
67120 95278 55541 09387 28775
86988 72269 37526 34694 53355
43395 59007 39525 06884 06084
73008 90881 42464 41280 63894
90276 16675 51121 16375 45050
86779 55417 59765 41097 26673
88400 03131 23899 97080 44272
84727 94081 40657 68958 71109
38594 89497 23024 10556 99659
93810 52316 60243 23624 98533
77153 34233 05931 04055 16459
69757 93180 55379 64565 11061
53755 95131 16682 83151 35972
79156 06235 14890 30739 17524
65313 73220 12668 56802 15887
18531 35959 06437 19172 20357
98674 42197 55527 23147 89994
28186 38244 24424 55212 40030
74123 93093 46092 64079 02263
40422 52094 73016 00788
000 000 *Courtesy DanAR*

15/10 238 1 8367 125 27462 ... 89561 000 000 [18217kHz 0200z] Weak SUN

238 238 238 1
8367 125
27462 68317 56914 87867 56545
36495 06070 06271 17033 26006
04292 41486 36555 90261 48778
48807 23043 17628 86348 75830
21676 14733 81093 64832 64962
71556 98186 65755 40035 19382
20880 03233 32889 97437 91566
33855 31020 29271 82670 96374
45543 71012 36258 90605 52431
81097 03804 81464 33466 15083
29047 66237 54140 66877 19265
34022 41964 06738 72767 98832
59949 23282 10081 00126 50519
80868 71305 43258 96939 26135
40212 10780 30798 24298 99705
25458 88626 19819 69231 24000
47763 29964 79239 55556 22190
51058 03053 50550 53712 80900

56033 01391 90356 42113 64120
81317 28737 69041 05889 31299
42641 44751 43745 41562 18758
54272 51216 21333 41364 73072
87814 50001 35133 87026 48589
71354 75027 07244 54517 82186
16847 17649 02268 39540 89561
000 000 *Courtesy DanAR*

22/10 238 1 719 59 41316 ... 31481 000 000 [18217kHz 0200z] Weak SUN

238 238 238 1
719 59
41316 55917 09428 43681 86788
79659 06112 82750 97856 26817
53513 43713 76958 70087 17067
52149 63036 31966 71930 87747
79973 61274 07846 93147 42126
11454 52060 39832 51789 71314
76267 27438 54899 36303 89792
13300 67336 24254 48575 81612
71779 92873 95248 82090 85567
76638 55304 32451 31242 16905
88730 79838 24103 18515 90860
07568 88574 40685 31481
000 000 *Courtesy DanAR*

29/10 238 1 695 87 21631 ... 91935 000 000 [18217kHz 0200z] Weak SUN

238 238 238 1
695 87
21631 29781 49905 71966 71488
54152 37339 49117 08277 98261
67332 90855 38749 63788 45405
21253 80031 12910 57491 87269
95256 56863 23682 16953 27500
79172 26285 46443 86288 94125
63503 84238 21446 31093 55755
35693 97553 77742 35810 73289
30981 50055 61432 19828 98123
24614 66250 32702 18456 98713
23528 93728 35634 85628 78512
23894 50965 86625 90647 40182
50711 56913 40370 81159 71846
79723 24804 29499 20501 46086
74576 98888 83813 08418 01171
79390 41782 40447 49406 02714
39592 29263 40676 06733 91611
80228 91935 000 000
Courtesy DanAR

V13

Thu 12.10.2023 0500Z 8169 Chinese numbers [H-FD]

V26

Nil Reports

Polytones

XPA1 Wed/Fri

Wednesday/Friday

September 2023

1210z	**12137kHz**	**1230z**	**11137kHz**	**1250z**	**10237kHz**	
01/09		112 1 04640 00100 48430 ... 45141				1210z Weak, QSB3/3, rest NRH
06/09		112 000 09711 00001 00000 ... 35262				1210z Strong, 1250z Weak, 1230z Unworkable
08/09		112 000 07515 00001 00000 ... 36260				1210z Weak, rest NRH
13/09		Null Msg				Unworkable, Condx poor
15/09		Null Msg				Unworkable, Condx poor
20/09		112 000 08454 00001 00000 ... 35265				1210z Strong, rest Unworkable
22/09		112 000 07808 00001 00000 ... 41257				1210z Weak, rest Unworkable

27/09 211 000 06387 00001 00000 ... 36266 Weak, 1250z Unworkable

29/09 112 000 07648 00001 00000 ... 40263 Weak, 1250z Unworkable

October 2023

1210z 14564kHz 1230z 13564kHz 1250z 11464kHz

04/10 554 000 09674 00001 00000 ... 36270 1250z Weak, rest Strong

NO MONITORING BETWEEN 05/10 to 15/10 INCLUSIVE

18/10 554 1 05347 00095 79196 ... 20007 1250z Fair QSB3, rest Strong

554 554 554 1 554 554 554 1 554 554 554 1

05347 00095 79196 79510 49172 80209 68000 86907 10603 32234
87870 36456 39453 79911 94249 40974 15834 36685 85768 95241
02244 90876 74114 47392 26607 12043 82245 29839 19572 92706
62407 98266 82768 56697 04708 82336 67510 27925 87305 32585
83773 28640 29262 66147 17322 07910 56601 87956 75925 58385
71625 58260 14648 64674 82818 15042 34482 25206 07733 88550
86793 11991 55986 97997

64841 90313 13521 61640 47494 83427 75866 17084 31152 67558
38679 56318 70493 96988 97636 79601 72076 77942 91988 68710
22260 99367 22551 73557 56960 07215 67000 92900 50845 97403
90682 24900 64483 20007 *Courtesy PLdn*

20/10 554 1 05347 00095 79196 ... 20007 1250z Weak, rest Fair

25/10 554 1 06605 00056 84096 ... 54736 Strong 1230z QRM3

554 554 554 1 554 554 554 1 554 554 554 1

06605 00056 84096 41058 75079 04428 85636 54381 03328 01684
90561 38836 13776 55369 71189 71697 75482 56395 76714 12875
35181 54859 48168 17105 09653 93543 88485 89498 17219 92029
61573 59534 93611 02321 23386 36156 96037 80590 46066 73278
17139 61070 92395 20995 44004 78113 01430 30795 85913 10664
30982 96931 01216 77579 84751 53184 14925 64148 54736
Courtesy PLdn

27/10 554 1 06605 00056 84096 ... 54736 1250z Weak, rest Strong

XPA2 m

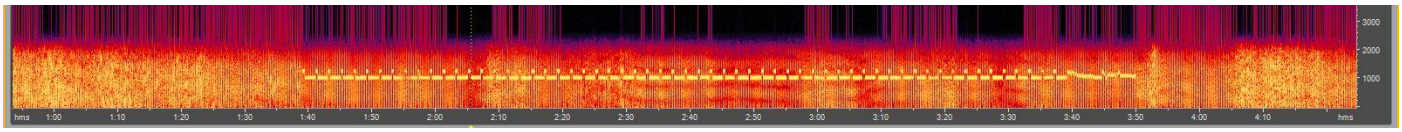
Sunday/Tuesday

September 2023

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

03/09 00289 00069 20949 ... 47156 1200z Weak QRM4, rest Fair

05/09 01819 00001 00000 ... 41652 Weak QSB3



10/09 07619 00001 00000 ... 40660 Strong, 1200z Pulse QRM3, as above

12/09 00359 00061 19067 ... 12571 1240z Very strong, rest strong

00359 00061 19067 43415 77321 39789 69914 48292 81216 13261
94680 93333 15921 54616 13165 01872 40702 24044 39495 47237
25786 70099 08357 38881 96465 97396 70793 62802 09458 72023
08582 32502 86768 43884 76044 79977 49033 43126 75389 75128
29835 93966 96186 29727 81377 58445 08973 56310 64214 77664
85041 64581 36874 96649 63319 25753 56939 70610 99620 37210
43506 09489 28027 12571 *Courtesy PLdn*

17/09 00359 00061 19067 ... 12571 1200z Very strong, rest Fair

19/09 01197 00001 00000 ... 35262 Strong, 1200z Missed.

24/09 09683 00001 00000 ... 35671 1200z Strong, rest Very strong

26/09 00541 00089 05529 ... 54261 1200z Strong, rest fair

October 2023

1200z	14469kHz	1220z	16169kHz	1240z	17469kHz	
01/10		00541 00089 05529 ... 54261				1220z Very strong, rest Strong

00541 00089 05529 28081 98863 11879 40068 38175 23554 89815
75381 69810 07662 55483 06477 10208 00107 97365 20271 20938
01035 63215 35237 36613 21046 59626 09707 91237 66225 43576
37268 31108 35537 13281 63256 20595 30342 96088 26832 04311
65688 81678 12926 27354 74262 60919 19731 50942 68509 41161
92543 16257 75574 36388 15746 16080 79103 16435 15853 82638
11117 09393 15485 15488 48274 51139 65203 66533 72236 48256
23459 41440 55298 21527 23886 78279 45999 80666 71387 81175
88445 08731 89175 07459 59833 21689 25987 78252 82331 14885
27250 54261 *Courtesy PLdn*

03/10		05045 00001 00000 ... 33661				1240z Very strong, rest strong

NO MONITORING BETWEEN 05/10 to 15/10 INCLUSIVE

17/10		08467 00001 00000 ... 36666				1200z Very strong, rest Strong
22/10		04457 00001 00000 ... 36661				Strong
24/10		00658 00059 01237 ... 36475				1240z Strong, rest Fair

00658 00059 01237 97301 03052 05151 59351 30515 20829 41525
73473 57924 76216 73864 44064 09348 56948 90968 72468 27047
75131 60504 19028 64227 02389 52357 48530 99577 39497 25016
38071 77452 54501 26031 47285 14006 56469 88673 83812 84087
86330 39682 56373 47507 89300 70594 36455 63172 98153 80954
61712 20220 20651 60905 68746 59815 14117 24090 60547 09838
12223 36475 *Courtesy PLdn*

29/10		00658 00059 01237 ... 36475				Strong
31/10		0416100001 00000 ... 32262				1240z Very strong, rest Strong

XPA2 p

Monday/Wednesday

September 2023

0700z	12152kHz	0720z	13552kHz	0740z	13952kHz	
04/09		03723 00001 00000 ... 36255				Strong
06/09		03844 00001 00000 … 37257				0700z Fair, rest Weak
11/09		00254 00105 87901 ... 24705				Strong

00254 00105 87901 25820 23807 03705 80308 20404 58200 70453
46253 76352 82853 28880 03005 80383 43556 42268 36660 37688
06424 35302 86228 68536 37640 35082 55007 04403 65740 00420
33503 27326 80366 65622 33473 76383 88303 86833 02620 08600
88548 50354 57403 88605 35758 24020 67870 26426 87754 77338
06880 68380 72834 28852 73084 76563 08400 42755 30653 20375
02444 38828 68428 55580 20878 66352 48664 03484 42804 48737
84326 02282 45600 52630 75845 57680 23775 53806 57345 64864
00256 07277 08478 04434 05272 70266 88208 06848 46855 22024
80058 27236 06657 85268 06060 20320 48076 20265 40280 54048
00848 48888 78650 52405 77034 72877 46872 24705
Courtesy PLdn

13/09		00254 00105 87901 ... 24705				Fair, 0700z QSB3
18/09		00254 00105 87901 ... 24705				Fair, 0700z QSB2, 0740z QRM3
20/09		00254 00105 87901 ... 24705				0700z Fair, rest Weak
25/09		00254 00105 87901 ... 24705				Weak
27/09		00254 00105 87901 ... 24705				0740z Strong, rest Very strong

October 2023

0700z	13372kHz	0720z	14672kHz	0740z	15872kHz	
02/10		03750 00001 00000 ... 34660				Fair
04/10		01836 00001 00000 ... 40254				Weak, 0700/0720z QSB3

NO MONITORING BETWEEN 05/10 to 15/10 INCLUSIVE

18/10	00916 00100 94062 ... 07501	Very strong

00916 00100 94062 37268 89076 23585 55673 45770 16529 75333
93293 90183 80818 25013 03707 13189 93662 02957 68402 59863
81113 26009 83415 93734 48090 68200 97514 02316 24698 11596
12573 43959 69534 34773 11924 13887 73346 69686 26687 01159
70435 02094 85903 49906 51990 32937 50485 54790 43538 06864
07161 10758 13358 85369 67801 47477 83272 11212 83934 72774
85303 12308 13473 38418 95533 59554 60915 55389 34257 53569
33515 16723 12744 95746 69297 37037 31300 25141 62338 88715
33980 01213 96235 46733 85888 32101 94853 42088 92512 30250
29681 65299 06059 35630 34872 16702 34326 97749 01579 53217
10867 52160 07501 *Courtesy PLdn*

23/10	07275 00001 00000 ... 34666	0720z Strong, rest Fair
25/10	07909 00001 00000 ... 42257	0720z Weak, rest Fair 0700/0720z QSB4

Other XPA2:

From H-FD

1B XPA2 September

Fri 01.09.2023 1100Z 13431 msg
Fri 01.09.2023 1120Z 12131 msg
Fri 01.09.2023 1140Z 11431 msg

Fri 01.09.2023 1800Z 16351 msg
Fri 01.09.2023 1820Z 14851 msg
Fri 01.09.2023 1840Z 13951 msg

Sat 02.09.2023 0910Z 15859 msg
Sat 02.09.2023 0930Z 14659 msg
Sat 02.09.2023 0950Z 13459 msg

Sat 02.09.2023 1500Z 14373 msg
Sat 02.09.2023 1520Z 13373 msg
Sat 02.09.2023 1540Z 11573 msg

Sun 03.09.2023 0800Z 14374 msg
Sun 03.09.2023 0820Z 14974 msg
Sun 03.09.2023 0840Z 16274 msg

Tue 12.09.2023 0500Z 10221 msg
Tue 12.09.2023 0520Z 11121 msg
Tue 12.09.2023 0540Z 12221 msg

Thu 21.09.2023 1100Z 16117 msg
Thu 21.09.2023 1120Z 14917 msg
Thu 21.09.2023 1140Z 13517 msg

Thu 21.09.2023 1600Z 13887 msg
Thu 21.09.2023 1620Z 13387 msg
Thu 21.09.2023 1640Z 11587 msg

1B XPA2 October

Wed 04.10.2023 1800Z 14518 msg
Wed 04.10.2023 1820Z 13418 msg
Wed 04.10.2023 1840Z 12218 msg

Mon 09.10.2023 1500Z 13906 msg
Mon 09.10.2023 1520Z 12106 msg
Mon 09.10.2023 1540Z 10906 msg

Wed 11.10.2023 0910Z 17438 msg
Wed 11.10.2023 0930Z 16338 msg
Wed 11.10.2023 0950Z 15938 msg

Wed 11.10.2023 1100Z 14672 msg
Wed 11.10.2023 1120Z 13472 msg
Wed 11.10.2023 1140Z 12172 msg

Thu 12.10.2023 0500Z 10238 msg
Thu 12.10.2023 0520Z 11138 msg
Thu 12.10.2023 0540Z 12138 msg

Fri 13.10.2023 0800Z 15958 msg
Fri 13.10.2023 0820Z 17458 msg
Fri 13.10.2023 0840Z 18758 msg

Tue 17.10.2023 1100Z 14537 msg
Tue 17.10.2023 1120Z 13437 msg
Tue 17.10.2023 1140Z 10737 msg

Tue 17.10.2023 1600Z 11442 msg
Tue 17.10.2023 1600Z 13542 msg
Tue 17.10.2023 1620Z 12142 msg
Tue 17.10.2023 1640Z 11442 msg

Thu 19.10.2023 1600Z 13542 msg
Thu 19.10.2023 1620Z 12142 msg
Thu 19.10.2023 1640Z 11442 msg

XPA2 [Ary]

14518 04-10-2023 1800 XPA2 MFSK-16/20Bd
13418 04-10-2023 1820 XPA2 MFSK-16/20Bd
12218 04-10-2023 1840 XPA2 MFSK-16/20Bd

07664 00123 57546 25452 55381 32048 90612 56802 75262 34503
84829 47870 48446 72753 75496 23111 48757 06117 78886 88896
54700 88557 63275 92070 79455 81071 66170 89038 26863 44056
65114 22398 11159 50016 53887 28334 08586 20557 90585 56353
94772 65033 70952 14305 43695 63987 54825 82767 76100 92371
30255 89216 50720 05780 07293 48230 86249 63426 04608 69487
75080 72846 10211 85208 58558 76165 04059 81258 15288 86279
04609 81995 25314 68662 63124 05385 76758 06287 46582 46549
76221 22351 35552 52011 42505 36386 58366 45683 31846 14021
54178 86635 92458 71907 66481 91994 31810 25496 01086 04854
67214 04192 40527 40248 23337 74564 31900 27647 31722 89141
02249 86063 09585 96456 63857 66750 11832 25526 84905 76921
43145 61524 06625 34813 50292 02035 *Courtesy Ary*

XPB1

Monday/Saturday

Sept 2023

14462kHz 1200z	02/09	Strong	4m28s	PLdn	SAT
13962kHz 1210z	02/09	Strong	4m28s	PLdn	SAT
13462kHz 1220z	02/09	NRH		PLdn	SAT
12162kHz 1230z	02/09		NOT MONITORED	PLdn	SAT
11562kHz 1240z	02/09	Weak	4m28s	PLdn	SAT
10962kHz 1250z	02/09	Weak	4m28s QRM2	PLdn	SAT
14462kHz 1200z	04/09	Weak	1m42s	PLdn	MON
13962kHz 1210z	04/09	Weak	1m42s	PLdn	MON
13462kHz 1220z	04/09	Weak	1m42s	PLdn	MON
12162kHz 1230z	04/09	Weak	1m42s	PLdn	MON
11562kHz 1240z	04/09	V.weak	1m42s	PLdn	MON
10962kHz 1250z	04/09	Weak	1m42s	PLdn	MON
14462kHz 1200z	09/09		NOT MONITORED, Lightning	PLdn	SAT
13962kHz 1210z	09/09		NOT MONITORED, Lightning	PLdn	SAT
13462kHz 1220z	09/09		NOT MONITORED, Lightning	PLdn	SAT
12162kHz 1230z	09/09		NOT MONITORED, Lightning	PLdn	SAT
11562kHz 1240z	09/09		NOT MONITORED, Lightning	PLdn	SAT
10962kHz 1250z	09/09		NOT MONITORED, Lightning	PLdn	SAT
14462kHz 1200z	11/09	Weak	4m28s	PLdn	MON
13962kHz 1210z	11/09	Weak	4m28s	PLdn	MON
13462kHz 1220z	11/09	Weak	4m28s	PLdn	MON
12162kHz 1230z	11/09	Weak	4m28s	PLdn	MON
11562kHz 1240z	11/09	Weak	4m28s	PLdn	MON
10962kHz 1250z	11/09	NRH		PLdn	MON
14462kHz 1200z	16/09	Fair	4m28s	PLdn	SAT
13962kHz 1210z	16/09	Fair	4m28s	PLdn	SAT
13462kHz 1220z	16/09	Fair	4m28s XWPQRM2	PLdn	SAT
12162kHz 1230z	16/09	Weak	4m28s	PLdn	SAT
11562kHz 1240z	16/09	Weak	4m28s	PLdn	SAT
10962kHz 1250z	16/09	NRH		PLdn	SAT
14462kHz 1200z	18/09	Weak	1m40s	PLdn	MON
13962kHz 1210z	18/09	Strong	1m40s	PLdn	MON
13462kHz 1220z	18/09	Strong	1m40s QRM2	PLdn	MON
12162kHz 1230z	18/09	Fair	1m40s	PLdn	MON
11562kHz 1240z	18/09	Weak	1m40s	PLdn	MON
10962kHz 1250z	18/09	Weak	1m40s	PLdn	MON

14462kHz 1200z	23/09	Weak	1m40s	PLdn	SAT
13962kHz 1210z	23/09	Weak	1m40s	PLdn	SAT
13462kHz 1220z	23/09	Weak	1m40s	PLdn	SAT
12162kHz 1230z	23/09	Weak	1m40s	PLdn	SAT
11562kHz 1240z	23/09	Weak	1m40s	PLdn	SAT
10962kHz 1250z	23/09	Weak	1m40s	PLdn	SAT
14462kHz 1200z	25/09	Weak	4m28s	PLdn	MON
13962kHz 1210z	25/09	Weak	4m28s	PLdn	MON
13462kHz 1220z	25/09	Fair	4m28s QRM2	PLdn	MON
12162kHz 1230z	25/09	Fair	4m28s	PLdn	MON
11562kHz 1240z	25/09	Fair	4m28s	PLdn	MON
10962kHz 1250z	25/09	Fair	4m28s QRM2	PLdn	MON
14462kHz 1200z	30/09	Fair	4m28s	PLdn	SAT
13962kHz 1210z	30/09	Fair	4m28s	PLdn	SAT
13462kHz 1220z	30/09	NRH		PLdn	SAT
12162kHz 1230z	30/09	Strong	4m28s	PLdn	SAT
11562kHz 1240z	30/09	Weak	4m28s	PLdn	SAT
10962kHz 1250z	30/09	Weak	4m28s	PLdn	SAT

October 2023

14462kHz 1200z	02/10	Fair	1m40s	PLdn	MON
13962kHz 1210z	02/10	Fair	1m40s	PLdn	MON
13462kHz 1220z	02/10	Fair	1m40s	PLdn	MON
12162kHz 1230z	02/10	Weak	1m40s	PLdn	MON
11562kHz 1240z	02/10	Weak	1m40s	PLdn	MON
10962kHz 1250z	02/10	NRH		PLdn	MON

NO MONITORING BY PLDN BETWEEN 05/10 to 15/10 INCLUSIVE

Sat 07.10.2023 1100Z 16245 MFSK-16 4:30 H-FD
Sat 07.10.2023 1110Z 15825 MFSK-16
Sat 07.10.2023 1120Z 14925 MFSK-16
Sat 07.10.2023 1130Z 13525 MFSK-16
Sat 07.10.2023 1140Z 12125 MFSK-16
Sat 07.10.2023 1150Z 11425 MFSK-16

14462kHz 1200z	16/10	Fair	1m40s	PLdn	MON
13962kHz 1210z	16/10	Fair	1m40s	PLdn	MON
13462kHz 1220z	16/10	MISSED		PLdn	MON
12162kHz 1230z	16/10	Fair	1m40s	PLdn	MON
11562kHz 1240z	16/10	Weak	1m40s	PLdn	MON
10962kHz 1250z	16/10	Weak	1m40s	PLdn	MON
14462kHz 1200z	21/10		Not monitored	PLdn	SAT
13962kHz 1210z	21/10		Not monitored	PLdn	SAT
13462kHz 1220z	21/10		Not monitored	PLdn	SAT
12162kHz 1230z	21/10		Not monitored	PLdn	SAT
11562kHz 1240z	21/10		Not monitored	PLdn	SAT
10962kHz 1250z	21/10		Not monitored	PLdn	SAT
14462kHz 1200z	23/10	Strong	4m28s	PLdn	MON
13962kHz 1210z	23/10	Fair	4m28s	PLdn	MON
13462kHz 1220z	23/10	Strong	4m28s QRM2	PLdn	MON
12162kHz 1230z	23/10	Fair	4m28s	PLdn	MON
11562kHz 1240z	23/10	Fair	4m28s	PLdn	MON
10962kHz 1250z	23/10	Fair	4m28s	PLdn	MON

14462 28-10-2023 1200 XPB1 MFSK-16
13962 28-10-2023 1210 XPB1 MFSK-16
13462 28-10-2023 1220 XPB1 MFSK-16
12162 28-10-2023 1230 XPB1 MFSK-16
11562 28-10-2023 1240 XPB1 MFSK-16
10962 28-10-2023 1250 XPB1 MFSK-16

Wednesday/Saturday

Sept 2023

13521kHz 1100z	02/09	Strong	4m28s QRM2	PLdn	SAT
13421kHz 1110z	02/09	Strong	4m28s	PLdn	SAT
12221kHz 1120z	02/09	Strong	4m28s	PLdn	SAT
11521kHz 1130z	02/09	Weak	4m28s	PLdn	SAT
11021kHz 1140z	02/09	NRH		PLdn	SAT
10521kHz 1150z	02/09	NRH		PLdn	SAT
13521kHz 1100z	06/09	Weak	4m28s	PLdn	WED
13421kHz 1110z	06/09	Weak	4m28s	PLdn	WED
12221kHz 1120z	06/09	Weak	4m28s	PLdn	WED
11521kHz 1130z	06/09	Weak	4m28s	PLdn	WED

11021kHz 1140z	06/09	NRH		PLdn	WED
10521kHz 1150z	06/09	Weak	4m28s	PLdn	WED
13521kHz 1100z	09/09		NOT MONITORED, Lightning	PLdn	SAT
13421kHz 1110z	09/09		NOT MONITORED, Lightning	PLdn	SAT
12221kHz 1120z	09/09		NOT MONITORED, Lightning	PLdn	SAT
11521kHz 1130z	09/09		NOT MONITORED, Lightning	PLdn	SAT
11021kHz 1140z	09/09		NOT MONITORED, Lightning	PLdn	SAT
10521kHz 1150z	09/09		NOT MONITORED, Lightning	PLdn	SAT
13521kHz 1100z	13/09	Weak	4m28s	PLdn	WED
13421kHz 1110z	13/09	Weak	4m28s	PLdn	WED
12221kHz 1120z	13/09	Weak	4m28s	PLdn	WED
11521kHz 1130z	13/09	Weak	4m28s	PLdn	WED
11021kHz 1140z	13/09	Weak	4m28s	PLdn	WED
10521kHz 1150z	13/09	NRH		PLdn	WED
13521kHz 1100z	16/09	Fair	3m07s XWPQRM2	PLdn	SAT
13421kHz 1110z	16/09	Fair	3m07s	PLdn	SAT
12221kHz 1120z	16/09	Fair	3m07s	PLdn	SAT
11521kHz 1130z	16/09	Weak	3m07s	PLdn	SAT
11021kHz 1140z	16/09	Weak	3m07s	PLdn	SAT
10521kHz 1150z	16/09	Weak	3m07s	PLdn	SAT
13521kHz 1100z	20/09	Strong	4m28s	PLdn	WED
13421kHz 1110z	20/09	Strong	4m28s	PLdn	WED
12221kHz 1120z	20/09	Strong	4m28s	PLdn	WED
11521kHz 1130z	20/09	Weak	4m28s	PLdn	WED
11021kHz 1140z	20/09	Weak	4m28s	PLdn	WED
10521kHz 1150z	20/09	Weak	4m28s	PLdn	WED
13521kHz 1100z	23/09	Strong	4m28s QRM2	PLdn	SAT
13421kHz 1110z	23/09	Strong	4m28s	PLdn	SAT
12221kHz 1120z	23/09	Weak	4m28s	PLdn	SAT
11521kHz 1130z	23/09	Weak	4m28s	PLdn	SAT
11021kHz 1140z	23/09	Weak	4m28s	PLdn	SAT
10521kHz 1150z	23/09	Weak	4m28s	PLdn	SAT
13521kHz 1100z	27/09	Strong	4m28s	PLdn	WED
13421kHz 1110z	27/09	Strong	4m28s	PLdn	WED
12221kHz 1120z	27/09	Strong	4m28s	PLdn	WED
11521kHz 1130z	27/09	Weak	4m28s	PLdn	WED
11021kHz 1140z	27/09	Weak	4m28s	PLdn	WED
10521kHz 1150z	27/09	NRH		PLdn	WED
13521kHz 1100z	30/09	Fair	4m28s	PLdn	SAT
13421kHz 1110z	30/09	Fair	4m28s	PLdn	SAT
12221kHz 1120z	30/09	Fair	4m28s	PLdn	SAT
11521kHz 1130z	30/09	Weak	4m28s	PLdn	SAT
11021kHz 1140z	30/09	Weak	4m28s	PLdn	SAT
10521kHz 1150z	30/09	Weak	4m28s	PLdn	SAT

October 2023

16245kHz 1100z	04/10	Weak	4m28s	PLdn	WED
15825kHz 1110z	04/10	Weak	4m28s QRM3	PLdn	WED
14925kHz 1120z	04/10	Strong	4m28s	PLdn	WED
13525kHz 1130z	04/10	Strong	4m28s QRM2	PLdn	WED
12125kHz 1140z	04/10	Strong	4m28s	PLdn	WED
11425kHz 1150z	04/10	Weak	4m28s	PLdn	WED

NO MONITORING BETWEEN 05/10 to 15/10 INCLUSIVE

16245kHz 1100z	18/10	Strong	4m28s	PLdn	WED
15825kHz 1110z	18/10	Strong	4m28s QRM3	PLdn	WED
14925kHz 1120z	18/10	Fair	4m28s	PLdn	WED
13525kHz 1130z	18/10	Fair	4m28s	PLdn	WED
12125kHz 1140z	18/10	Fair	4m28s	PLdn	WED
11425kHz 1150z	18/10	Fair	4m28s	PLdn	WED
16245kHz 1100z	21/10		Not monitored	PLdn	SAT
15825kHz 1110z	21/10		Not monitored	PLdn	SAT
14925kHz 1120z	21/10		Not monitored	PLdn	SAT
13525kHz 1130z	21/10		Not monitored	PLdn	SAT
12125kHz 1140z	21/10		Not monitored	PLdn	SAT
11425kHz 1150z	21/10		Not monitored	PLdn	SAT
16245kHz 1100z	25/10	Strong	4m28s	PLdn	WED
15825kHz 1110z	25/10	Strong	4m28s	PLdn	WED
14925kHz 1120z	25/10	Strong	4m28s	PLdn	WED
13525kHz 1130z	25/10	Strong	4m28s	PLdn	WED
12125kHz 1140z	25/10	Strong	4m28s	PLdn	WED
11425kHz 1150z	25/10	Fair	4m28s	PLdn	WED

16245 28-10-2023 1100 XPB1 MFSK-16
15825 28-10-2023 1110 XPB1 MFSK-16
14925 28-10-2023 1120 XPB1 MFSK-16
13525 28-10-2023 1130 XPB1 MFSK-16
12125 28-10-2023 1140 XPB1 MFSK-16
11425 28-10-2023 1150 XPB1 MFSK-16

Additional September schedule [fm Ary]

20017 01-09-2023 1300 XPB1
19317 01-09-2023 1310 XPB1
18037 01-09-2023 1320 XPB1
17417 01-09-2023 1330 XPB1
16217 01-09-2023 1340 XPB1
15817 01-09-2023 1350 XPB1

Additional September schedule [fm H-FD]

Tue 05.09.2023 0500Z 13435 MFSK-16 1:42
Tue 05.09.2023 0510Z 13935 MFSK-16 y0/20
Tue 05.09.2023 0520Z 14435 MFSK-16
Tue 05.09.2023 0530Z 14835 MFSK-16
Tue 05.09.2023 0540Z 15935 MFSK-16
Tue 05.09.2023 0550Z 16225 MFSK-16

Tue 12.09.2023 1300Z 20017 MFSK-16 1:42
Tue 12.09.2023 1310Z 19317 MFSK-16
Tue 12.09.2023 1320Z 18037 MFSK-16
Tue 12.09.2024 1330Z 17417 MFSK-16
Tue 12.09.2023 1340Z 16217 MFSK-16
Tue 12.09.2023 1350Z 15817 MFSK-16

Additional October schedule [fm H-FD]

Tue 10.10.2023 1300Z 20075 MFSK-16 4:30
Tue 10.10.2023 1310Z 19575 MFSK-16
Tue 10.10.2023 1320Z 18175 MFSK-16
Tue 10.10.2023 1330Z 17475 MFSK-16
Tue 10.10.2023 1340Z 16275 MFSK-16
Tue 10.10.2023 1350Z 14975 MFSK-16

Other XPB1 [Ary]

15864 kHz, 13-10, 1600 UTC XPB1
14381 kHz, 13-10, 1610 UTC
13965 kHz, 13-10, 1620 UTC
13381 kHz, 13-10, 1630 UTC
12157 kHz, 13-10, 1640 UTC
11572 kHz, 13-10, 1650 UTC

19079 kHz, 13-10, 1000 KHz
18697 kHz, 13-10, 1010 KHz
17459 kHz, 13-10, 1020 KHz
16301 kHz, 13-10, 1030 KHz
15825 kHz, 13-10, 1040 KHz
14538 kHz, 13-10, 1050 KHz

19117 kHz, 13-10, 1200 KHz
18197 kHz, 13-10, 1210 KHz
17463 kHz, 13-10, 1220 KHz
16083 kHz, 13-10, 1230 KHz
15875 kHz, 13-10, 1240 KHz
14463 kHz, 13-10, 1250 KHz

17436 14-10-2023 0600 XPB1
18582 14-10-2023 0610 XPB1
19084 14-10-2023 0620 XPB1
????? 14-10-2023 0630 XPB1
20381 14-10-2023 0640 XPB1
~20978 14-10-2023 0650 XPB1

19079 14-10-2023 1000 XPB1
18697 14-10-2023 1010 XPB1
17459 14-10-2023 1020 XPB1
16301 14-10-2023 1030 XPB1
15825 14-10-2023 1040 XPB1
14538 14-10-2023 1050 XPB1

19117 13-10-2023 1200 XPB1
18197 13-10-2023 1210 XPB1
17463 13-10-2023 1220 XPB1
16083 13-10-2023 1230 XPB1
15875 13-10-2023 1240 XPB1
14463 13-10-2023 1250 XPB1

Ary also caught the 1100/1200z Mon/Wed/Sat schedules missed by PLdn due to Lightning

20271 28-10-2023 1100 XPB1 MFSK-16
19606 28-10-2023 1110 XPB1 MFSK-16
18334 28-10-2023 1120 XPB1 MFSK-16
17462 28-10-2023 1130 XPB1 MFSK-16
16349 28-10-2023 1140 XPB1 MFSK-16
15809 28-10-2023 1150 XPB1 MFSK-16

20351 28-10-2023 1300 XPB1 MFSK-16
19484 28-10-2023 1310 XPB1 MFSK-16
18241 28-10-2023 1320 XPB1 MFSK-16
17476 28-10-2023 1330 XPB1 MFSK-16
16346 28-10-2023 1340 XPB1 MFSK-16
15848 28-10-2023 1350 XPB1 MFSK-16

18358 28-10-2023 1500 XPB1 MFSK-16
17461 28-10-2023 1510 XPB1 MFSK-16
16273 28-10-2023 1520 XPB1 MFSK-16
15848 28-10-2023 1530 XPB1 MFSK-16
14373 28-10-2023 1540 XPB1 MFSK-16
13882 28-10-2023 1550 XPB1 MFSK-16

16341 28-10-2023 1700 XPB1 MFSK-16
15845 28-10-2023 1710 XPB1 MFSK-16
14981 28-10-2023 1720 XPB1 MFSK-16
14382 28-10-2023 1730 XPB1 MFSK-16
13893 28-10-2023 1740 XPB1 MFSK-16
12165 28-10-2023 1750 XPB1 MFSK-16

19079 14-10-2023 1000 XPB1
18697 14-10-2023 1010 XPB1
17459 14-10-2023 1020 XPB1
16301 14-10-2023 1030 XPB1
15825 14-10-2023 1040 XPB1
14538 14-10-2023 1050 XPB1

15864 14-10-2023 1600 XPB1
14381 14-10-2023 1610 XPB1
13965 14-10-2023 1620 XPB1
13381 14-10-2023 1630 XPB1

12157 14-10-2023 1640 XPB1
11573 14-10-2023 1650 XPB1

17436 15-10-2023 0600 XPB1
18582 15-10-2023 0610 XPB1
19084 15-10-2023 0620 XPB1
????? 15-10-2023 0630 XPB1
20381 15-10-2023 0640 XPB1
~20978 15-10-2023 0650 XPB1

19079 15-10-2023 1000 XPB1
18697 15-10-2023 1010 XPB1
17459 15-10-2023 1020 XPB1
16301 15-10-2023 1030 XPB1
15825 15-10-2023 1040 XPB1
14538 15-10-2023 1050 XPB1

19117 15-10-2023 1200 XPB1
18197 15-10-2023 1210 XPB1
17463 15-10-2023 1220 XPB1
16083 15-10-2023 1230 XPB1
15875 15-10-2023 1240 XPB1
14463 15-10-2023 1250 XPB1

19273 15-10-2023 1400 XPB1
18233 15-10-2023 1410 XPB1
17435 15-10-2023 1420 XPB1
16069 15-10-2023 1430 XPB1
15863 15-10-2023 1440 XPB1
14375 15-10-2023 1450 XPB1

15864 15-10-2023 1600 XPB1
14381 15-10-2023 1610 XPB1
13965 15-10-2023 1620 XPB1
13381 15-10-2023 1630 XPB1
12157 15-10-2023 1640 XPB1
11573 15-10-2023 1650 XPB1

19079 14-10-2023 1000 XPB1
18697 14-10-2023 1010 XPB1
17459 14-10-2023 1020 XPB1
16301 14-10-2023 1030 XPB1
15825 14-10-2023 1040 XPB1
14538 14-10-2023 1050 XPB1

15864 14-10-2023 1600 XPB1
14381 14-10-2023 1610 XPB1
13965 14-10-2023 1620 XPB1
13381 14-10-2023 1630 XPB1
12157 14-10-2023 1640 XPB1
11573 14-10-2023 1650 XPB1

HM01/SK01 Hybrid

Splendid set of HM01 logs from Peter. Yours truly was visiting family in Lessborough near Tampa US. I was going to take my little Sony [ICF-SW100E and reel antenna] but my wife stated ‘me or the radio.’ I was tempted but wouldn’t chance my luck. [I really had decided not to take a radio at all, but the joke had to be made].

The Tuesday, Thursday and Saturday schedules continued to be heard in early September although nowhere near as strong as in the summer months, presumably due to seasonal changes in propagation with nominal start times of around 0555 to 0559 on 14375 kHz - that's 0559 and not 0659 as I typed in error last time, getting my UTC mixed up with BST, soon not to be an issue when the clocks change on the last Sunday in October, and around 0655 UTC or after on 13435. Both became weaker signals as the month of September progressed.

5-Sept-23, Tuesday:- 0557 UTC, 6.57 AM BST, 14375 kHz, weak signal, difficult copy, was stronger later on:-
0627 UTC, starting up after the break, “27885 01451 65701 55188 10601 55479”, data sounds after 0629.

0657 UTC, 13435 kHz, starting up routine in progress when tuned in, data sounds at 0659:50s approx, good signal apart from annoying occasional deep fading.

7-Sept-23, Thursday:- 0616 UTC, 14375 kHz, transmission in progress, weak signal, nothing was heard when checked at 0557z, probably started late. Was stronger later:-
0632 UTC, in preamble mode, "27887 01452 65703 03611 10602 81071", data sound around 0635z.
0658 UTC, 13435 kHz, appeared to have already started with data and 5Fs, went into start-up routine at 0701:40s UTC, data sound at 0705z approx, reasonable signal apart from the deep fading down and up, became much weaker around 0710z.

9-Sept-23, Saturday:- 0559 UTC, 14375 kHz, weak signal, some strong CW Morse on the same frequency, HM01 stronger half an hour later:-
0629 UTC, back after the break, "27889 01454 65705 03613 10604 81073", data at 0632:30s UTC
0657 UTC, 14375 kHz, still on this frequency and not the expected 13435, went into preamble mode at approx 0659 UTC. Weak signal, data sound at 0702:30s approx. Vanished just before 0705z.
0707 UTC, 13435 kHz, very weak signal, difficult copy but appeared to be starting up again, data sounds heard at 0710:35s UTC.

Nothing heard of HM01 at the expected times on Tuesday the 12th.
Nothing heard on Thursday 14- Sept after 0557z on 14375, strong CW heard at 0609z for a few seconds. Nothing heard after 0657z on 13435.

16-Sept-23, Saturday:- 0557 UTC, 14375 kHz:- very weak signal of some kind way down in the noise, unreadable. Was still on this frequency when checked over an hour later:-
0703 UTC, weak signal, difficult copy in preamble/call mode, sounded like "40232 31686 64667 67765" were in there somewhere, but all "query".

Nothing readable heard on any Tuesday, Thursday or Saturday for the remainder of September, very weak carrier sometimes detected, monitoring at the expected start time until ten minutes or so past the hour and sometimes a quick listen on the half-hour or just before.
Strong CW continued to be heard from time to time on 14375, slight AC ripple on the keyed carrier, finishes with a "K" so presumably in QSO with one or more stations replying on another frequency.

3-Oct-23, Tuesday:- 0640 UTC, 14375 kHz, transmission in progress, good signal apart from
deep frequent deep rapid fading up and down, best copy from HM01 for a while, heard 5Fs "28552 44241 08483 31385 00525 12674".
Went into preamble/call mode at 0650z, data sounds at 0654 approx. Stayed on 14375, vanished suddenly after 0707 UTC.
0709 UTC, 13435 kHz, now on this frequency, much weaker than when on 14375.

5-Oct-23, Thursday:- 0735 UTC, 13435 kHz, weak signal, strong FSK signal on close frequency, only one 5F copied, "00527", nothing heard earlier on 14375.

7-Oct-23, Saturday:- Nothing heard on 14375 when checked at 0557 UTC but was on this frequency later:-
0701 UTC, 14375 kHz, not 13435, weak, difficult copy, sounded like "00527 20251 28556" were in there.

10-Oct-23, Tuesday:- Nothing heard at 0557 UTC and after on 14375 or at 0657 on 13435.

12-Oct-23, Thursday:- Nothing heard on 14375 when monitored from approx 0557 to 0605 UTC but was heard later on:-
0614 UTC, in preamble mode, not at all strong and becoming weaker, sounded like, "88701
44742 01344 65644 20255 58141".

Nothing heard in the remainder of October, either due to propagation issues or HM01 is taking some time off.

Excellent, thanks Peter.

X06 Mazielka (1c) logs section

Hello all interested in the X06 and other news,

As promised in the last issue, here is a small report about current events in the German media, followed by the usual X06 report.

Podcast about the Russian numbers and tone stations

On Friday, October 6, 2 German journalists visited me here in Marburg for an interview and listening to special Russian stations. The background was a report about the story of the « Anschlag » couple in 2011 (see EN67 ff.). They wanted to listen to the station, which was allegedly heard by « Heidrun Anschlag » : XPA1. On Friday we could only find the X06b intro (with a kind of « echo-double-sound ») and a 0-message of XPA1, but 2 weeks later I could record the message on 11464 kHz. This one I sent them on cassette.

This was made for a common podcast of the West German and North German Radio (WDR and NDR), which will appear in early 2024. If I know the exact date of this German transmission, I will give it to you, together with the link. Of course, I mentioned ENIGMA2000 during the interview. But in this podcast you will also find statements of former neighburs of the « Anschlag » couple in Marburg; so it sounds very amazing and worth to listen to the podcast.

And here is the X06 report :

X06 Mazielka (1c) logs section

```
Date     Day UTC       Freq  Scale  Monitor        Comments
20230902 Sat 1051      14462 1--6-- tiNG           X06b before XPB1
20230905 Tue 0830-0835 13411 165423 Andrew/SE      TX to Brussels, G12
20230905 Tue 0831-0837 13401 154263 Andrew         TX to Rome, G7
20230905 Tue 1152-1156 18523 325614 Andrew, Ary/NL TX to Nairobi, G392
20230906 Wed 1107-1113 16115 215346 Andrew         Alert2 (TX to Mumbai, G25) 1
20230906 Wed 1113-1114 13979 215346 Andrew         2.2
```

```
20230907 Thu 0929-0938 18197 645321 Andrew         TX to Ho Chi Minh City, G410(1)
20230910 Sun 1055-1057 11067 145632 Andrew         TX to Algiers, G135
20230911 Mon 0824-0829 17475 156234 Andrew         TX to Kampala, G68
20230911 Mon 0931-0948 16117 463125 Dave/AU        TX to Rabat, G77
20230912 Tue 0756-0757 13420 534216 Andrew         TX to Bagdad, G87
20230912 Tue 0808-0813 17523 542136 Andrew         TX to Beijing, G88
20230912 Tue 1003-1005 17520 612534 Andrew         TX to Sahgabat, G89
20230912 Tue 1008-1010 20813 216354 Andrew         TX to Chennai, G388
20230913 Wed 0804-0807 10172 465132 Andrew         TX to Sofia, G100
20230913 Wed 0805-0813 18177 164253 Andrew         TX to Addis Abbaba, faint, G395
20230914 Thu 0820-0823 14550 153624 Andrew         TX to Damascus, G249
20230919 Tue 0801-0804 11462 165423 Andrew         TX to Brussels, G151
20230919 Tue 0840-0842 12149 154263 Andrew         TX to Rome, G148
20230920 Wed 0628-0630 14405 256341 Andrew         TX to Beirut, G169
20230920 Wed 1201-1211 16115 215346 Dave           TX to Mumbai, G167
20230921 Tue 0736-0810 19511 314265 Andrew         Alert1 (Antananarivo, G178) 1(2)
20230921 Thu 0811-0812 17534 351264 Andrew         TX to Abu Dhabi, G434
20230921 Thu 0825-0858 19511 314265 Andrew         1.2(2)
20230921 Tue 1338-1340 20627 436512 Dave           TX to Harare, G180
20230924 Sun 1042-1043 12114 145632 Andrew         TX to Algiers, G284
20230926 Tue 0759-0803 17523 542136 Andrew         TX to Beijing, G88
20230926 Tue 0804-0809 10767 534216 Andrew         TX to Bagdad, G232
20230926 Tue 0954-0959 20813 216354 Andrew         TX to Chennai, G228
20230927 Wed 0844-0901 12423 6--132 Anon60782,Dave X06b
20230927 Wed 0902-0906 18245 134265 Anon60782,Dave TX to Tunis, G90
20230928 Thu 0810-0814 16153 153624 Andrew         TX to Damascus, G249
20231002 Mon 0715-0719 12122 165324 Dave           TX to Vienna, G1
20231002 Mon 0744-0748 14377 432516 Andrew         TX to Bern, G6
20231002 Mon 0814-0820 11438 532614 Dave           TX to Paris, G4
20231002 Mon 0925-0932 20675 641523 Andrew         TX to Lusaka, G5
20231003 Tue 0751      13524 125643 Andrew         Short TX to Ulanbatar, G317
20231003 Tue 0833-0840 13401 154263 Andrew         TX to Rome, G7
20231004 Wed 1106-1122 16115 215346 Anon60795,Dave TX to Mumbai, G25
20231004 Wed 1229-1237 19878 231654 Anon36989,Dave TX to Abuja, G422
20231005 Thu 0753-0800 18575 352416 Ary, Andrew    TX to Dar es Salaam, G43
20231006 Fri 1110-1115 11464 1--6-- Kopf           X06b before XPA1(3)
20231008 Sun 1129-1149 16060 261453 Andrew         TX to Cairo, G138
20231009 Mon 0833      17475 156234 Dave           TX to Kampala, G68
20231009 Mon 0942-0946 16117 463125 Dave           TX to Rabat, G77
20231009 Mon 1235-1239 14683 364152 Andrew         TX to New Delhi, G73
20231010 Tue 0806-0808 13420 534216 Dave           TX to Bagdad, G87
20231010 Tue 0820-0821 17523 542136 Dave           TX to Beijing, G88
20231010 Tue 1007-1009 20813 216354 Dave           TX to Chennai, G388
20231011 Wed 0820-0821 13419 465132 Dave           TX to Sofia, G100
20231016 Mon 0823-0826 13395 532614 Andrew         TX to Paris, G147
20231017 Tue 0751-0754 14615 125643 Andrew         TX to Ulanbatar, G383
20231017 Tue 0832-0842 13401 154263 Andrew         TX to Rome, G148
20231018 Wed 1104-1114 16115 215346 Andrew         Alert2 (TX to Mumbai, G167) 1
20231018 Wed 1114-1116 14650 215346 Andrew         2.2
20231019 Thu 0723-0733 21825 314265 Andrew         Alert2 (Antananarivo, G178) 1(4)
20231019 Thu 0740-0743 19511 314265 Andrew         2.2(5)
20231019 Thu 0758-0801 17534 351264 Andrew         TX to Abu Dhabi, G434
20231020 Fri 1024-1029 12194 625413 Andrew         TX to Tel Aviv, G193
20231022 Sun 1141-1143 16060 261453 Andrew         TX to Cairo, G285
20231023 Mon 0931-0939 16117 463125 Andrew         TX to Rabat, G222
20231024 Tue 0815-0820 11545 534216 Ary, Andrew    TX to Bagdad, G232
20231024 Tue 1009-1012 17470 216354 Andrew         TX to Chennai, G228
20231024 Tue 1144-1200 18260 123456 Ary            X06c
20231025 Wed 0724-0736 20950 435621 Ary, Andrew    TX to Maputo, G244
20231025 Wed 0739-0741 13369 154263 Ary, Andrew    TX to Rome, R (mistake)
20231025 Wed 0743-0744 13369 412356 Ary, Andrew    TX to Budapest, G243
20231025 Wed 0803-0806 10172 465132 Ary, Andrew    TX to Sofia, G246(6)
20231025 Wed 0900-0901 18245 134265 Andrew         TX to Tunis, G90
20231026 Thu 0825-0828 16153 153624 Andrew, RX39   TX to Damascus, G249
20231027 Fri 1008-1017 17463 256134 Andrew         TX to Abidjan, G270
```

1) 0941-0944 UTC: MFSK66

2) Very long, missed exact end time

3) With echo-double-sound

4) 0726 UTC: serdo selcal (21824 kHz)

5) 0721-0722 UTC: MFSK-66

6) At 0804 UTC: same scale on 10170 kHz, weaker than this one (“ghost” or “mirror” signal)

Many thanks as usual to all contributors to the logs’ section.

Till next issue I say as usual: Good-bye, and please stay healthy and safe.

Jochen Schäfer, Numbers-, X06 Database and Teamkopf

Thank you to all our contributors

Give us a Job!

[Tnx E]

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

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

Chart Section Index

Predictions

M01 Schedule

Family III

Polytones, XPA1, XPA2

En139
November 2023

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x	x	x	x	x			0000		F01	01A	17471	17471
x				x			0010/0030/0050		M12	01B	16275/15975/14675 296	14947/13447/12147 941
x				x			0025/0035		F01	01A	12101/ 9215	10884/ 8157
	x			x			0030/0050/0110		M12	01B	6874/ 8074/ 9374 803	6832/ 7532/ 8132 851
x				x			0125/0135		F01	01A	12101/ 9215	10884/ 8157
x	x	x	x	x	x	x	0200		V13	0	13750	13750
						x	0200/0220/0240		V07	01B	**search**	**search**
x	x						0210/0310 tue, when msg		E06	01A	10673/14398 537	9382/13426 537
			x	x			0300/0400		E06	01A	16163/13863 361	14654/12177 361
x	x	x	x	x	x	x	0300		V13	0	11430	13750
	x		x				0300/0320/0340		M12	01B	16184/14784/13484 174	14354/12154/11154 311
x		x					0315		E11	03	x9052 25# **search**	x9052 25#
x	x	x	x	x	x	x	0400		V13	0	11430	11430
x	x	x	x	x			0400/0420		S06	01A	11616/ 9322 480	11616/ 9322 480
	x		x				0445		S11A	03	**11559** 79#	11559 79#
x							0450		E11	03	4909 41#	4909 41#
x		x		x		x	0455		HM01	18	10860	10860
	x		x		x		0455		HM01	18	11462	11462
x	x	x	x	x	x	x	0500		V13	0	11430	15388
x	x	x	x	x			0500/0520		M14	01A	12211/10243 952	12211/10243 952
	x		x				0505		E11	03	12153 33#	12153 33#
x		x					0510		S11A	03	x9057 65#, **search**	x9057 65#
	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	0555		HM01	18	10345	10345
	x		x		x		0555		HM01	18	14375	14375
				x		x	0600		E11	03	7850 35#	7850 35#
x	x	x	x	x	x	x	0600		V13	0	11430	15388
x	x						0600/0610/0620 0630/0640/0650		XPB1	01B	13446/14446/14946 15846/16146/17446	12118/13418/13918 14418/14918/15918
	x		x				0600/0620/0640		XPA2	01B	11162/12162/13962	9281/10481/11481
		x			x		0600/0620/0640		M12	01B	**search**	**search**
			x	x			0600/0700	1/3	E06	01B	18285/20140 507	14575/17420 923
	x			x			0620		M01A	14	10233 or 10235 354/458	10233 or 10235 354/458

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
		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		x				0645		E11	03	7840 51#	7840 51#
x		x		x		x	0655		HM01	18	9330	9330
	x		x		x		0655		HM01	18	13435	13435
x			x				0700		S11A	03	9050 47#	9050 47#
	x			x			0700		E11	03	6804 57#	6804 57#
					x	x	0700		E11	03	5371 49#	5371 49#
x	x	x	x	x	x	x	0700		V13	0	15250	18040
						x	0700		M01	01B	5465 197	5465 197
						x	0700/0720/0740		E07	01B	10268/11068/12168 201	9326/10426/11526 345
	x			x			0710		M01A	14	10651 297/358	10651 297/358
		x	x				0710		M01A	14	9175 146/208	9175 146/208
x		x					0715		E11	03	11104 75#	11104 75#
	x			x			0715		E11	03	9130 63#	9130 63#
	x			x			0720		M01A	14	9151 728	9151 728
		x		x			0725		S11A	03	**search**	**search**
x							0745		E11	03	10213 26#	10213 26#
	x		x				0745		E11	03	13908 22#	13908 22#
		x		x			0745		E11	03	17378 34#	17378 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	15250	18040
		x				x	0800/0820/0840		M12	01B	17432/18532/19132 451	16234/17434/18234 242
		x					0800/0820/0840		XPA2	01B	11529/13429/13929	11493/13393/13993
	x	x					0820		E11	03	14611 13#	14611 13#
			x	x			0820		E11	03	x5149 43#, **search**	x5149 43#
x				x			0830		E11	03	18# **search**	18#
					x	x	0830		S11A	03	5371 37#	5371 37#
x		x					0845		E11	03	12067 71#	12067 71#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
	x		x				0845		E11	03	13046 15#	17378 15#
		x		x		x	0855		HM01	18	9240	9240
	x		x		x		0855		HM01	18	11462	11462
x		x					0900		E11	03	11092 53#	11092 53#
				x		x	0900/0920/0940		XPA2	01B	16225/17425/19125	16347/18247/19547
		x					0900/1000		S06	01A	**search**	**search**
x		x					0910/0930/0950		XPA2	01B	17413/15852/13363	13562/11583/10281
			x		x		0910/0930/0950		XPA2	01B	15985/14885/13885	13919/11519/10719
x				x			0915		S11A	03	6252 48#	6252 48#
		x	x				0930		E11	03	7469 27#	7469 27#
x	x	x	x	x	x	x	0930		M14	01A	17438 10.&25. 15965 11.&26. when msg	17438 10.&25. 15965 11.&26. when msg
						x	0930/1000		E06	01A		9463/ 7377 480
x		x		x		x	0955		HM01	18	9155	9155
	x		x		x		0955		HM01	18	12180	12180
	x			x			1000		E11	03	9079 30#	9079 30#
	x	x	x	x			1015/1025/1035		F01	01A	12177/10671/ 8024	12164/10336/ 8016
x		x					1045		E11	03	11100 69#	11100 69#
x					x		1100/1110/1110 1130/1140/1150		XPB1	01B	13894/13394/12194 11494/11094/10494	14483/13983/13483 12183/11583/1098**3**
	x			x			1100/1120/1140		XPA2	01B	10653/ 9353/ 8153	9265/ 8165/ 7665
		x	x				1100/1120/1140		XPA2	01B	13393/12193/11093	11579/10979/10279
			x				1110/1130/1150		M12	01B	13386/12189/11491 725	13386/12189/11491 725
x	x	x	x	x	x	x	1200		V13	0	9276,11430	7688
		x			x		1200/1210/1210 1230/1240/1250		XPB1	01B	16353/15953/14953 13453/12153/11453	14978/13978/13378 12178/11078/10278
	x					x	1200/1220/1240		XPA2	01B	14783/13883/12183	10807/12207/13507
		x		x			1200/1220/1240		XPA2	01B	13968/15968/17468	14841/16241/18241
	x	x					1205		E11	03	6433 46# **check**	6433 46#
x			x				1300		E11	03	4909 31#	4909 31#
x	x	x	x	x	x	x	1300		V13	0	7688,11430	7688,11430
	x			x			1300/1310/1310 1330/1340/1350		XPB1	01B	20021/19521/18421 17421/16321/15921	20044/19344/18544 17444/16244/14944
					x		1300/1330		E06	01A		6792/ 5380 480
		x		x			1310/1330/1350		XPA1	01B	13875/13375/10875 838	13465/12165/10265 412
	x	x	x				1325/1425 sporadic		S06	01A	**search**	**search**
	x			x			1400		S11A	03	6252 42# **check**	6252 42#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x			x				1400/1420/1440		M12	01B	16292/14892/14392 283	15909/14609/13909 969
					x		1400/1420/1440		E07	01B	10323/ 9123/ 8023 310	9326/10426/11526 345
			x		x		1410/1430/1450		E07	01B	11574/10274/ 9274 327	10226/ 9226/ 8126 674
	x				x		1430		E11	03	13363 91#	13363 91#
					x		1500		M01	14	5810 197	5810 197
	x	x	x				1500/1600 sporadic		S06	01A	13397/ 9194 387	**search**
	x			x			1500/1520/1540		E07	01B	14737/13537/12137 751	13539/12139/10239 512
			x				1530		E11	03	5409 26#	5409 26#
					x	x	1530		E11	03	4909 36#	4909 36#
x	x	x	x	x	x	x	1555		HM01	18	11435	11435
					x		1600/1620/1640		XPA2	01B	8126/ 6826/ 5326	6984/ 5884/ 4784
	x		x				1600/1620/1640		XPA2	01B	10223/ 9223/ 8123	8184/ 7864/ 6784
	x					x	1605		E11	03	5432 23#	5432 23#
x	x	x	x	x	x	x	1655		HM01	18	11530	11530
		x		x			1715		E11	03	5082 97#	5082 97#
			x				1730		E11	03	5779 41#	5779 41#
x						x	1745		E11	03	12924 24#	12924 24#
x	x	x	x	x	x	x	1755		HM01	18	11635	11635
	x		x				1800		M01	14	5320 197	5320 197
					x		1800/1820/1840		M12	01B	11435/10598/ 9227 938	11435/10598/ 9227 938
				x		x	1815		E11	03	6849 92#	6849 92#
		x			x		1850		S11A	03	11486 28#	11486 28#
x			x				1900		E11	03	6849 64#	6849 64#
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
				x			1900/2000	1/3	S06	01A	7812/ 5743 637	
		x			x		1910		E11	03	4505 39#	4505 39#
				x		x	1910		E11	03	10487 61#	10487 61#
	x			x			1940/1950/2000	1	F01	01A	8172/ 6791/ 4546	7684/ 5326/ 4029
			x			x	2000		E11	03	5082 52#	5082 52#
	x		x				2000		M01	14	4490 197	4490 197

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
		x		x			2000/2020/2040		M12	01B	6917/ 5817/ 5117 981	6792/ 5892/ 5092 780
				x			2000/2100	1/3	S06	01A		7812/ 5743 637
x		x		x		x	2055		HM01	18	11635	11635
	x		x		x		2055		HM01	18	16180	16180
x		x		x		x	2155		HM01	18	10715	10715
	x		x		x		2155		HM01	18	17480	17480
				x	x		2200/2220/2240		M12	01B	6859/ 7459/ 9959 849	5832/ 6832/ 7732 887
					x		2230/2240		F01	01A	20741/18702	18169/15765
x			x				2300/2320/2340		M12	01B	10446/ 9046/ 7946 392	9134/ 8134/ 7534 457
					x		2330/2340		F01	01A	20741/18702	18169/15765

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC M01/1 197

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

MAR APRIL SEPT OCT M01/2 463

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

MAY JUNE JULY AUG M01/3 025

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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
x		x					0315		E11	03	**11581** 25#	11581 25#	**8456** 25#	8456 25#	since 01/14, last log 10/23
	x		x				0445		S11A	03	**10728** 79#	10728 79#	**11559** 79#	11559 79#	since 05/22, last log 10/23
x							0450		E11	03	5371 41#	5371 41#	4909 41#	4909 41#	since 02/10, last log 10/23 2nd transmission Thu 1730z
	x		x				0505		E11	03			12153 33#	12153 33#	since 10/11, last log 02/23 Mar/Apr/Sep/Oct at 1230z, Mai-Aug at 1645z
x		x					0510		S11A	03	23004 65#	23004 65#	**21906** 65#	21906 65#	since 08/19, last log 10/23
				x		x	0600		E11	03	8680 35#	8680 35#	7850 35#	7850 35#	since 04/15, last log 10/23
	x		x				0645		E11	03	8423 51#	8423 51#	7840 51#	7840 51#	since 07/09, last log 10/23
x			x				0700		S11A	03	8597 47#	8597 47#	9050 47#	9050 47#	since 04/10, last log 10/23
	x			x			0700		E11	03	8180 57#	8180 57#	6804 57#	6804 57#	since 01/12, last log 10/23
					x	x	0700		E11	03	9079 49#	9079 49#	5371 49#	5371 49#	since 07/15, last log 10/23
x		x					0715		E11	03	15632 75#	15632 75#	11104 75#	11104 75#	since 06/21, last log 10/23
	x			x			0715		E11	03	9963 63#	9963 63#	9130 63#	9130 63#	since 02/11, last log 10/23
		x		x			0725		S11A	03	21854 38#	21854 38#	**23486** 38#	23486 38#	since 05/14, last log 10/23
x							0745		E11	03	10213 26#	10213 26#	10213 26#	10213 26#	since 03/14, last log 10/23 2nd transmission Thu 1530z
	x		x				0745		E11	03	14865 22#	14865 22#	13908 22#	13908 22#	since 01/20, last log 10/23
		x		x			0745		E11	03	17410 34#	17410 34#	17378 34#	17378 34#	since 06/17, last log 10/23
	x	x					0820		E11	03	19184 13#	19184 13#	14611 13#	14611 13#	since 12/18, last log 10/23
			x	x			0820		E11	03	**7670** 43#	7670 43#	x5149 43#, **search**	x5149 43#	since 10/09, last log 10/23
x				x			0830		E11	03	20170 18#	20170 18#	18# **search**	18#	since 07/15, last log 10/23
					x	x	0830		S11A	03	6433 37#, check	6433 37#	5371 37#	5371 37#	since 02/14, last log 10/23
x		x					0845		E11	03	12202 71#	12202 71#	12067 71#	12067 71#	since 09/10, last log 10/23
	x		x				0845		E11	03	18168 15#	18168 15#	13046 15#	17378 15#	since 07/17, last log 10/23
x		x					0900		E11	03	9968 53#	9968 53#	11092 53#	11092 53#	since 10/05, last log 10/23
x				x			0915		S11A	03	6480 48#	6480 48#	6252 48#	6252 48#	since 04/19, last log 10/23
		x	x				0930		E11	03	6940 27#	6940 27#	7469 27#	7469 27#	since 02/14, last log 10/23
	x			x			1000		E11	03	9951 30#	9951 30#	9079 30#	9079 30#	since 11/16, last log 10/23
x		x					1045		E11	03	10200 69#	10200 69#	11100 69#	11100 69#	since 03/18, last log 10/23
	x	x					1205		E11	03	9399 46#	9399 46#	**11559** 46#	11559 46#	since 03/10, last log 10/23
	x		x				1230		E11	03	12530 33#	12530 33#			since 10/11, last log 10/23 May-Aug at 1645z, Nov-Feb at 0505z
x			x				1300		E11	03	5371 31#	5371 31#	4909 31#	4909 31#	since 07/14, last log 10/23
	x			x			1400		S11A	03	11420 42#	11420 42#	6252 42# **check**	6252 42#	since 02/10, last log 10/23
	x				x		1430		E11	03	14972 91#	14972 91#	13363 91#	13363 91#	since 10/15, last log 10/23
			x				1530		E11	03	10330 26#	10330 26#	5409 26#	5409 26#	since 06/14, last log 10/23 2nd transmission Mon 0745z
					x	x	1530		E11	03	4505 36#	4505 36#	4909 36#	4909 36#	since 03/14, last log 10/23
	x					x	1605		E11	03	5176 23#	5176 23#	5432 23#	5432 23#	since 11/15, last log 10/23
	x		x				1645		E11	03					since 10/11, last log 08/22 Mar/Apr/Sep/Oct at 1230z, Nov-Feb at 0505z
		x		x			1715		E11	03	6923 97#	6923 97#	5082 97#	5082 97#	since 02/15, last log 10/23
			x				1730		E11	03	7864 41#	7864 41#	5779 41#	5779 41#	since 03/10, last log 10/23 2nd transmission Mon 0450z
x						x	1745		E11	03	13470 24#	13470 24#	12924 24#	12924 24#	since 04/18, last log 10/23
				x		x	1815		E11	03	11116 92#	11116 92#	6849 92#	6849 92#	since 05/16, last log 10/23
		x			x		1850		S11A	03	10213 28#	10213 28#	11486 28#	11486 28#	since 06/17, last log 10/23
x			x				1900		E11	03	7317 64#	7317 64#	6849 64#	6849 64#	since 05/16, last log 10/23
		x			x		1910		E11	03	4181 39#	4181 39#	4505 39#	4505 39#	since 02/14, last log 10/23
				x		x	1910		E11	03	8530 61#	8530 61#	10487 61#	10487 61#	since 04/17, last log 10/23
			x			x	2000		E11	03	5737 52#	5737 52#	5082 52#	5082 52#	since 05/15, last log 10/23

XPA1 Wednesday/Friday schedule

Zulu >	XPA1 Wed/Fri Schedule		
Month v	H+10	H+30	H+50
	1210 / 1310z		
Jan	14852	13952	11552
Feb	14374	13374	11474
Mar	14451	13451	12151
Apr	13368	12168	11168
May	13419	12219	11419
June	13545	12145	11145
July	13368	12168	11168
Aug	13491	12191	10691
Sept	12137	11137	10237
Oct	14564	13564	11464
Nov	13875	13375	10875
Dec	13465	12165	10265

XPA2[Sched m & p] Russian Intelligence and/or Diplomatic Multitone Systems [Radiogramma] Transmission Schedules.

Zulu > / Month v	XPA2 Sched m Sunday/Tuesday H 00 H+20 H+40 1200 / 2100			XPA2 Sched p Monday/Wednesday H 00 H+20 H+40 0700 / 0800z		
Jan	10921	12221	13521	11493	13393	13993
Feb	11163	13363	14563	13387	13887	14787
Mar	13384	13984	14984	13931	14831	16131
Apr	14442	15842	16342	11409	12209	13409
May	13376	11576	10776	12148	13448	13948
June	13427	12227	10827	12148	13448	13948
July	13394	12194	10794	12148	13448	13948
Aug	12159	11559	10559	12152	13552	13952
Sept	13914	15814	16314	12152	13552	13952
Oct	14469	16169	17469	13372	14672	15872
Nov	14783	13883	12183	11529	13429	13929
Dec	10807	12207	13507	11493	13393	13993

SPECIAL MATTERS

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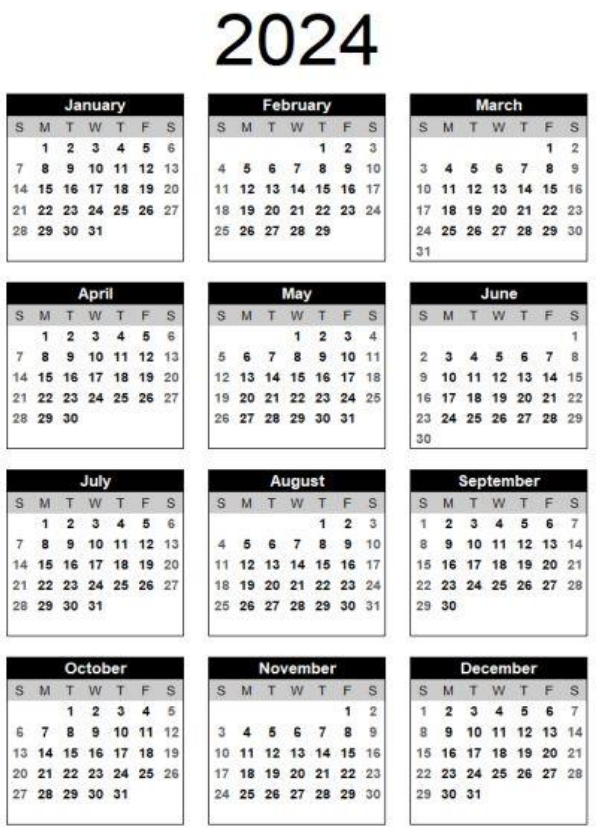
'E' Thanks for your continual support, pics in next issue A hearty Christmas and a good New Year for you and yours.

RELEVANT WEBSITES

ENIGMA 2000 Website:	http://www.enigma2000.org
Mystery Signals	http://www.mysterysignals.signalshed.com/
Time zone information:	http://www.timeanddate.com/library/abbreviations/timezones/
Encyclopedia of Espionage, Intelligence, and Security	http://www.espionageinfo.com/



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