

# ENIGMA 2000 NEWSLETTER



<http://www.enigma2000.org>



Apache Helicopters at Dresden Airport  
[Many thanks to contributing member with whom copyright remains]

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See last page also.

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# Editorial

Following some reasonable propagation for March the clocks have now advanced [Z+1] for us in Britain and it seems the propagation has taken a step back.

## **RIVET Decoder – New Version V91**

Although Ian Wraith, the original developer of the Rivet decoder, moved away from support of the program some time ago, further development of the program has been undertaken by members of Priyom.org via their GitHub platform.

The latest version, V0.91.0, has just been released and can be downloaded from our website at [enigma2000.org](http://enigma2000.org) or directly from the GitHub page.

Various improvements have been made especially in the FSK200/1000 module and expanded functionality for F06 transmissions.

Thanks to the team from Priyom.org for the work they have done on this program.

## **GNSS Jamming**

Interesting website showing inferred GNSS jamming / spoofing, discovered via a news article on BBC News : <https://gpsjam.org/>  
[Thanks to contributing member]

## **Great Escapes**

UK members will probably have heard about the exhibition at the National Archives called "Great Escapes" and possibly the recent article in the Daily Telegraph (1st of Feb) which is on till July 21st. Yours truly is hampered by lack of mobility from visiting till later in the exhibition.

However an E2k operative recently made a brief recce as he was in the area and took attached photo.



The exhibition is fairly small in area, but well worth a visit due to the rarity and content of the exhibits on display.

The display cases contain a wide selection of actual documents including the sketch of a non-existent 'aircraft' presumably intended to hoodwink the Germans, plans for escape and other documents, letters etc. together with various biographical notes.

Photos (without flash) are permitted and the National Archives has a decent café.

As to visiting, National Archives are sited a little out of the way, but Kew Gardens tube station is nearby and if travelling via Richmond station bus R68 leaves from the stop C opposite and the route's final stop is just a400m walk plus there is an affordable car park. [See Below]

For our location, see our [local map](#), which also shows accessible routes for disabled people, and a [map of the wider area](#), or visit [Streetmap.co.uk](http://Streetmap.co.uk) for a [scalable map](#).

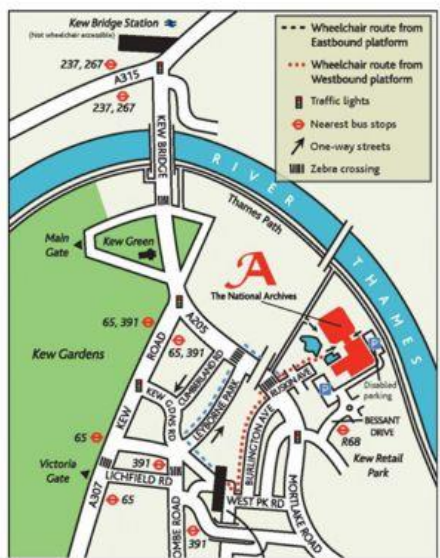
Our address is: **The National Archives,  
Kew, Richmond, Surrey TW9 4DU.**

For sat navs use the postcode **TW9 4AD**  
(**Bessant Drive**).

We are fully accessible to disabled visitors.  
See more information about [access for disabled people](#).

## Car

The [AA journey planner](#) can help you plan your route and check the latest traffic updates. If you are arriving or departing by car



On a personal note, our Operative was delighted to see Colditz of course prominently displayed, but also as because in a previous life making regular visits 'behind the iron curtain' especially to the GDR (aka East Germany) in the '80 for business as he was able to find time during one of his business trips to the Leipzig trade fair one year to visit the town of Colditz, suitably on a damp Sunday morning. Access to the castle which is right in the centre of the town was not possible as it was in use by the E German authorities as a mental hospital. However, Google maps indicates it now houses a youth hostel and also a museum which after renovation is re-opening on 17th April. [www.schloss-colditz.de](http://www.schloss-colditz.de) (with English version).

*Many thanks to the E2k operative for making this trip and for imagery and directions*

From HJH is an answer to a piece from Detlev .... And there will be more on this in another Newsletter:

## THE INCREDIBLE MORPHING E MAIL

Well, I think that is what one calls something which changes shape apparently at will, I know that is what a little plasticine dude on the TV was called, many yonks ago. Can an email do that? Well, some weeks back, Paul Effendi sent me a most interesting email, to which was attached an article in German, and which Paul had been told was about Teufelsberg in Berlin, and long famous as the site of a US SIGINT and ELINT base for collecting intel from the opposition just across the wire.

As you guys know, this means Devils Mountain and is the name given to an artificial hill in what was the American sector of West Berlin, and means Devils Mountain. The story goes that it is built from the rubble of bomb demolished buildings, which Berlin had, tragically, circa 1945, an abundance of. Many, if not the majority of, the builders of this synthetic Alp, were women. On completion, it was crowned with a state of the art array of SIGINT and ELINT apparatus, much of which was covered in those well known weather proof plastic type domes which Germany, and much of the world, had during the Cold War, such an abundance of.

For the duration of the Cold War, this installation gave good service to its American users, and, indirectly, to the rest of us in NATO. Post DDR and Berlin Wall collapse, it was soon afterwards decommissioned. Given the current state of world peace, (a typo if ever there was one!) one has to ask if this was a trifle premature.

I dived into this article, having great interest in all things SIGINT related. The article was stamped with the block capitals thus: BStU: then follows a serial number. This means: "Behörde des Bundesbeauftragten für die Unterlagen des Staatssicherheitsdienstes der ehemaligen DDR". This translates as The Authority for the Data of the State Security of the former GDR (East Germany) Try saying that with no dentures and following a 4 pack of Stella Artois! I confirmed that translation with colleagues of the East German Forum. This organisation is the Federal German body tasked with holding and distributing the former files of the Stasi, and other intelligence services and government bodies of the former East German state. Looking forward to a good read about Teufelsberg, imagine my surprise and delight when I found an in depth dissertation on the various reasons why East German citizens wished to leave the DDR, together with methods to curtail this. That is, without recourse to Mikhail Kalashnikov's instant argument resolver!

Now puzzled, I forwarded the article to the laptop of my wife. (She doubles as my IT lady!) My cunning plan was to compete the translation in my favourite arm chair on her laptop. (Baldrick would have loved that one!) Settling down to get on with this, I was surprised to find the article had morphed yet again into a piece about proposals to hold a football tournament in Berlin, and plans to organise this. Now totally bemused I phoned Paul, and infested him with my attack of mental paralysis. He was equally puzzled. Now concerned, I did a full security scan of my desktop PC, which runs on LINUX. (This is free, a price I will pay double any day!) My PC is clear, and to date the email has morphed into various topics, such as proposed West German government bunkers plans, which were very interesting and revealing, given the source was MfS, as in the opposition!

This translation effort has done two things for me, personally. It has conformed what I had long thought, even as far back as my regular army service. That is, how deeply penetrated the West German state had become by the opposition. I also tried a new on line translation site, something which I have not tried for many years, due to the poor quality of the sites at that time available. I always use DUCK DUCK GO as a search engine, as it does not track ones searches. (How do you spell paranoid?) Below is the address I use, and which should work for you guys should you require it. I must stress that I have no connection with this service. Further, this is not something I often do, as it does not improve, or retain, ones translation skills. Like the man said, use it or lose it! Additionally, I have only tried German on this site, and cannot speak for any other language. On reflection, the reason for this switching to different files or articles each time the email is selected, may be due to the software which controls this site distributing the various files on the hard drive, of which there must be very many.

For our German speakers, here is the email address which Paul gave me:

[https://duckduckgo.com/?q=english+german+translation&t=h\\_&ia=web](https://duckduckgo.com/?q=english+german+translation&t=h_&ia=web)

When using this site, I found it possible to download each page of the various articles by selecting the "TRANSCRIPT" command in the top left hand box on the page. The various numbers on the BsTu box I would assume are the file numbers of the piece concerned and on display at that time.

english german translation at DuckDuckGo  
DuckDuckGo. Privacy, Simplified.  
duckduckgo.com

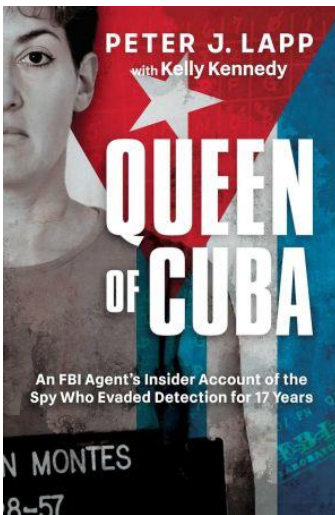
Well, that concludes this observation on morphing (or bouncing?) emails. In conclusion, here is the email link which Paul gave me which started all this off. It may be worth a visit.

<https://www.stasi-mediathek.de/medien/analyse-der-struktur-und-taetigkeit-de>

Tnx HJH!

## Recommended reading

### **Queen of Cuba Peter J Lapp with Kelly Kennedy ISBN 978 1 63758 959 5**



To be honest I have the book since its release but have yet to read it, In the text are a lot of redactions. The couple of pages I have read are excellent. Here is the review on Amazon:

“U.S. government officials knew they had a spy. But it never occurred to them it was a woman—and certainly not a superstar Defense Intelligence Agency employee known as “the Queen of Cuba.”

Ana Montes had spent seventeen years spying for the Cubans. She had been raised in a patriotic Puerto Rican household: Her father, a psychiatrist, was a former colonel in the U.S. Army. Her sister worked as a translator for the FBI and helped break up a ring of Cuban spies in Miami. Her brother was also a loyal FBI agent.

Montes impressed her bosses, but in secret, spent her breaks memorizing top secret documents before sending them to the Cuban government. She received no payment, even as one of her missives could have brought her the death penalty.

She also listened to anxiety-relief tapes, took medication, and saw a psychiatrist. She dreamed of a normal life where she could work a job she enjoyed. She dreamed of getting married, and even had a man in mind: a defense analyst on the Cuba account for Southern Command. He had no idea that, three times a week, Montes pulled a short-wave radio from her closet and received encrypted messages from Cuba.

After the 9/11 attacks, Cuba wanted Montes to continue her work. They couldn't know the FBI was already on to her. Retired FBI agent Peter J. Lapp explains the clues—including never-released information—that led their team to catch one of the United States' most dangerous spies.”

Would I buy this book? Yes I would.

## **Following on from the above we present:**

### **BLUE WREN LEAVES HER CAGE AFTER 22 YEARS — By Jose Martinez [written specially for E2k]**

On 6th January 2023 convicted Cuban spy and former US Defense Intelligence Agency senior analyst, Ana Belen Montes, was released from prison in Texas after spending 22 years behind bars. The FBI gave her the codename BLUE WREN whilst the DGI (Cuban intelligence service) knew her by the codenames SONIA and SERGIO. During much of her treacherous career she was controlled by the monotonous tones of the Cuban numbers station V02. Several books have been published on her case as well as media articles, podcasts and declassified documents being made available here in the US.

The FBI agent who arrested and debriefed her has written a book which provides new insights into an enigmatic woman who was a female traitor and penetration agent in US intelligence.

Ana Montes was single and came from a military family with her father serving in the US Army. She was a left-wing American who was highly critical of US foreign policy, particularly towards Cuba and Central America. This radical streak was apparent whilst she was studying as a graduate student of international relations at the prestigious Johns Hopkins University here in the US.

Being of Puerto Rican descent she viewed the region as being subject to unjust US interference over many years and felt considerable sympathy for Cuba. Ironically, she didn't seem to view the Castro regime as oppressive. In addition to her radical streak, she had a need to oppose authority likely as a result of having had a difficult relationship with her authoritarian father whilst living at home.

It also likely made her associate the military with oppression according to psychology which fuelled her desire to oppose authority. She sought to protect her siblings from her stern father as he dished out regular beatings. Her parents' marriage later broke up and she developed into a headstrong, self-absorbed character and was seen by colleagues as cold, arrogant, dismissive and aloof.

She was not a “people person” and lived a quiet, isolated life in a Washington apartment with a shortwave receiver and a secret double-life for company. There were few people around to see what she was doing and she reportedly went to sleep at night playing stress-relief tapes. Her Cuban intelligence handlers were her buddies and they appreciated one another. She felt contempt for her colleagues, country and government but had to conceal it every day whilst living her covert double life.

Whilst a graduate student, Ana's radical anti-US, pro-Cuban views attracted the attention of a Cuban intelligence service (DGI) “talent spotter” called Marta Velazquez who was another American student of Puerto Rican heritage at Johns Hopkins University in Washington. She introduced Ana to a Cuban intelligence officer under diplomatic cover at the UN in New York in order to develop a relationship and to “vet” her as a clandestine source.

Ana agreed to undertake unclassified research and writing for the Cubans whilst working in the Department of Justice in Washington. She was subsequently recruited to work for the DGI and flew with Marta on a trip to Madrid and then on to Prague. From Prague they flew on false passports to Cuba where the formal DGI

recruitment was done. She received instruction in how to receive SW radio transmissions and decode them using special software and issued with a "cheat sheet" grid which turned numbers into letters.

All this had to be done before she went back to the US. Her short wave receiver would have to be purchased in the US to avoid suspicion when going through Customs when entering the country. The two Americans returned to the US via Prague and Madrid, taking pictures in Spain to reinforce the cover story that they had been on holiday.

Ana wanted to help the DGI as best she could and so applied for a job in our Defense Intelligence Agency (DIA) in a basic position.

This is the Pentagon's intelligence organisation which gathers and assesses military information. She was accepted and passed the polygraph and background checks and moved up the ranks over 16 years to become the lead analyst on Cuba after covering Nicaragua and El Salvador.

All the time she was collecting intelligence and typing it into a Toshiba laptop computer at home in the evenings.

Normally she would memorise three key intelligence nuggets to pass to the DGI. She would meet illegal Cuban case officers on a regular basis at restaurants in Washington and occasionally on holiday in the Caribbean to pass encrypted floppy discs. She never removed or copied documents from her office to avoid detection and didn't need too as she knew it all because she was a top expert in her field. She also didn't use dead drops because she feared being mugged in the city or in a park.

Security checks at her Washington DC office were therefore useless in detecting or deterring her and her" background checks and lie detector tests were also no help in protecting US security.

She eventually aroused suspicion from one colleague who reported her to counter-intelligence because she disappeared early from the office one day during a crisis when she should have been present. She was seen as "odd", introverted and secretive by colleagues and family.

She was good at concealing her radical views, true nature and contempt for the Pentagon, US government and the work and patriotism of her colleagues. She survived the investigation after a colleague reported their concerns because she had good answers for the investigator but the suspicions on file would return to haunt her. She was on the radar and had not exploded when she was accused of being disloyal. Any comments made against her by colleagues could also be seen as jealousy or resentment.

However, in the 1990's several Cuban defectors (including someone with knowledge of DGI cryptography) provided information that the US government had a major leak concerning Cuban and Central American intelligence thereby triggering a secret mole hunt. The US was struggling in its covert operations against Cuba and it was proving to be a hard target and much better than previously thought, even including their help with security from Moscow.

Some of the DGI defectors apparently provided cryptographic information which allowed some Cuban radio traffic to be broken from 1996—97 with keys likely being compromised.

This led to the loss of the WASP network in Florida and the identification of several Cuban agents. The HF traffic that was broken was reportedly messages to agent handlers and the Cubans may have reused several cryptographic keys which increased their vulnerability. The FBI and NSA were reportedly able to read messages to Ana's handler which provided some clues about her identity. This data was all filled in on a counter-intelligence matrix for analysis.

The DGI had used the codename SERGIO for her in radio traffic so US investigators thought the elusive mole was a man; a cunning technique used by the DGI to obscure her identity.

It was known that the HF signals used to broadcast to SERGIO were audible from North Carolina to New England and had begun in 1992 with 151 messages sent. It was also known that the agent had used a Tandy 1400FD laptop which later broke down. In October 1996 the unknown agent then spent \$2000 on a Toshiba 450CS laptop to house their DGI decryption software and to type their classified notes which were downloaded to encrypted floppy disks. These disks were passed to her handlers during lunchtime meetings at the weekend. From decoded messages it was also known that the agent had access to a certain CIA document, had travelled to Cuba for work and had information about a particular incident at Guantanamo Bay.

These facts were all added to the matrix for the person the FBI sought to identify. Interestingly, the password for the spy's covert communications was NELEBANIOS. Nobody at the time realised that BELEN was Ana's middle name written backwards which she was using as part of her password in addition to the letters of one of her codenames, SONIA.

The NSA worked with an interagency team to try to identify the elusive mole and where they worked. All the time, secrets were being lost. Luckily, Ana was not on that team and did not help to examine the clues so she was unaware of the closely held counter-espionage investigation. An analysis of DIA travel records revealed that she had travelled to Cuba at a particular time as mentioned in a decoded message and had access to the CIA document which had been passed to the DGI.

A check of her credit accounts revealed the purchase of a Toshiba laptop at a shop in Virginia and a sales record with her name on it. She had also sought to have her broken laptop repaired.

Both these facts appeared in the HF messages. As a prime suspect who had previously raised suspicions, surveillance was mounted on her and a covert search of her home undertaken.

In a box beneath the window of her apartment the FBI found a Sony ICF-2010 (in Europe you call it the 2001D) short wave receiver. This is a high-end set and far more advanced than what was required; some other DGI agents have been found with the Sony 7600D series.



ICF-2001/2010 Receiver as used by Anan Belen Montes

There were no frequencies stored in the memory but a Toshiba laptop of the correct model was found under her bed. The hard-drive was copied and later revealed correspondence with the DGI and classified material from the Pentagon.

Some of these notes contained ultra-sensitive Special Access Program material reportedly on satellite surveillance of Cuba. She had either not used, or incorrectly used, a DGI-supplied wipe program for the hard drive thereby allowing data to be retrieved.

Also found was a 25m mono-earpiece wrapped round a reel of tape for use with the radio so the neighbours or FBI bugging devices could not hear her V02 broadcasts. The radio was likely put inside the window with an aerial outside whilst she typed the message into the laptop at a distance for decryption. This was a simple system which worked well for many years until she fell under suspicion.

On the laptop's hard drive the FBI found a V02 message broadcast on 6 February 1999 on 7887kHz by a Spanish-speaking female. The FBI could not break the message because they did not have the key. The breakouts of the message were in Spanish apparently because Ana. was a fluent Spanish speaker.

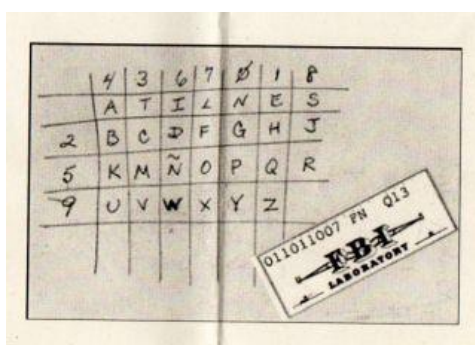
However, the FBI knew that she was an agent receiving V02 broadcasts. They noted that illegal agents from the DGI tended to use high-speed CW not voice for their communications. The illegals were also trained in Russia and Cuba for operations and had a transmitter in Cuba which they used for training. Ana had been handled by 5 illegals during her espionage career and none of them were arrested.

Ana was due to be moved to a new emergency posting after the 9/11 terror attacks and the US could not risk her accessing war plans which she might pass to Cuba who could then supply them to Russia. American lives could have been lost as Cuba and Russia sought to sabotage US operations.

The decision was taken to arrest her at her DIA office shortly afterwards. Following a plea agreement she got 25 years in jail and had to co-operate fully with the FBI.

In the aftermath of 9/11 her case attracted little attention and she became known as the most dangerous spy nobody had heard of.

In a more thorough post—arrest search of her home, the FBI found crypto materials including pager numbers she had to dial to contact the DGI and a “cheat sheet” to turn numbers from V02 into letters.



They also revealed which number station broadcasts contained valid messages and which were nulls.

The “cheat sheet” for decoding had single numbers for the most common Spanish letters and two digits for other letters. The breakout was apparently done manually after the arithmetic was done on the laptop by a password protected programme but this is unconfirmed.

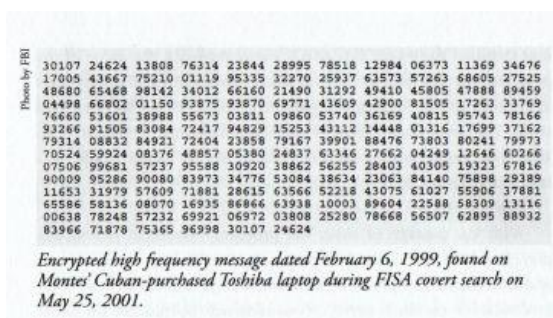
This method would however leave an audit trail of messages on the computer which could be compared with NSA intercepted messages and provide the second half of the code thereby tying the agent to Cuban espionage. This seems to be technology and convenience being placed ahead of security which let down the operation, although it had continued for years. Far better to have used paper OTPs and a sheet of graph paper and then burn it all after the message was broken out.

If Ana had deposited the laptop in the Potomac River or connected it with a Mark 1 hammer then the FBI would have struggled to make a case because much of the evidence they gathered was too secret to use or not compelling.

The laptop was key to the case.

The FBI couldn't work out how the decode system and “cheat sheet” worked so Ana went through it with them.

Further documents recovered from a hidden folder revealed that she listened to V02 on three days a week at 2100 and 2200 on 12180, 12215, 9647, 10406, 11566 and 9555kHz. The messages were sent on Tuesday, Thursday and Saturday.



Taken from 'Queen of Cuba' page 153

She put her antenna (telescopic or wire?) out of her apartment window to hear the broadcasts because the stone building she was in at Cleveland Park, Washington, caused reception problems.

The FBI also put their receiver aerial out of the window of their car parked near her apartment to see if they could hear her messages. The lead FBI agent was a radio ham who also had an interest in SW radio! [Ed.Be interested to know the results he achieved].

Following her arrest, colleagues, neighbours and family were shocked by what she had done and how she had got away with it for so long by hiding in plain sight. She was unusual for being a female traitor and someone who had joined an intelligence agency as a mole to spy, not someone such as Ames or Hanssen who had switched sides as a broke or disgruntled insider after several years.

US personnel such as Special Forces operatives possibly died in Central America by what she had done as we supported the Contras and other groups in our covert wars. Undercover CIA officers were also exposed by her thereby making their work useless and endangering others. It remains classified how much intelligence and defense material was passed to the Cubans and what could have ended up in Moscow. Our government did not want to reveal its losses or what she had access to during her long career. Her reputation as "Queen of Cuba" and endless awards and commendations from her bosses allowed her to dominate her field and give the contents of her expert's memory to the DGI.

She was able to access material from other intelligence agencies, invite herself to meetings and events, influence policy and knew what was most important to Havana.

She reportedly made a covert visit to Cuba to receive the DGI's thanks but apparently did not get to meet Fidel.

The FBI did well to catch her in a complex investigation with few clues but made clever use of material gleaned from numbers stations. It later emerged that on the day after she was identified as the prime suspect, the FBI surveillance team were at a HQ party to celebrate their work for catching FBI traitor Robert Hanssen.

That very night Ana was in her apartment receiving a V02 message so they might have caught her in the act. The FBI would have wanted her crypto keys so they could catch her in the act of meeting a handler but these only emerged after her arrest.

Following her arrest she also said that she had detected FBI surveillance late in the case and even heard a surveillance officer on their radio saying that Ana was making a call to the DGI from a payphone! Ana still made the call because she feared post-9/11 that the US might attack Cuba as a sponsor of terror (and a regime Washington was keen to get rid of!)

As a true believer in the Cuban cause she felt it was worth the risk. The FBI also damaged the lock to her apartment during a covert search which she noticed but she still did not run. The final FBI search of her apartment revealed that she kept an escape bag ready in her cupboard with a passport, cash and maps of European cities in case she had to abscond at short notice.

The FBI were very lucky that she did not disappear; unlike Ana. It also emerged that she wanted to leave the DIA and get married and start a normal life but she left it too late. How many more have ditched espionage with nobody knowing about it?

She received no payment from Cuba, only a medal apparently. She seems to have destroyed her life, betrayed her country and hurt her family (two siblings worked for the FBI) for nothing except a feeling that she was helping an "underdog" and getting back at "the system".

She wasn't even able to keep her medal as it would likely have compromised her; pinning a Revolutionary Star of a Cuban Hero of Socialist Labor Third Class to her lapel might have raised suspicions at the Pentagon!

The US and Cuba have exchanged prisoners over several years but Ana was not apparently included or even discussed; it looks like they abandoned her.

They did not believe in their true believer and telling all to the FBI in exchange for a shorter sentence is unlikely to have raised her stock with the DGI.

I wonder if the current recipients of HM01 broadcasts in the US dwell on how secure their communications are? Do they question how loyal their handlers are and if their identities and output are well protected in Havana? Who are they and where are they?

As they hunch over their SW receivers, what is their motivation; true believers or a Judas looking to fill their bank account?

How would they and their families cope with exposure? How long have they done it for and what are they passing on? Do they care how much damage they cause and do they eventually regret that they did?

Have they actually been discovered and "turned" or left in place to be monitored? Were they sent by us as false traitors in the first place?

Did Ana's case and the case of other arrested Cuban spies make them pause for thought or do a deal with the US government?

One author on Ana's case found that people in the Cuban government knew about her material as well as her identity even though they didn't need to have this information. How secure are they from US discovery? Spies tend to catch other spies and as one FBI agent stated, the Feds only catch the really dumb spies but with Ana they got lucky. How many more Anas are out there?

When her cubicle at DIA was searched it was found that Ana had a quote from Shakespeare's Henry V pinned to the wall reading, "The King hath note of all that they intend by interception which they dream not of." It was likely a statement reflecting her worship of Castro, her own double life and blatant gloating by a narcissist of being able to outsmart everyone around her.

Ironically, she had no idea how she was outdone by NSA/FBI interception she couldn't dream of!

As she now sits in exile in Puerto Rico, I wonder if she reflects on whether it was all worth it? She didn't go to live in Cuba and would they want her? Her internet usage is limited as she is on probation (what about SW radio usage?!)

She seems to be unrepentant and her colleagues still hate her according to the press. I wonder what happened to her ICF—2010 or if the Feds sold it on e-Bay and an unsuspecting DXer in Idaho is now using it?

Much still remains to come out about the case and likely never will.

Official reports are heavily redacted and the whole issue, like Miss Montes herself, remains an ENIGMA ..... 73s!!!!

# Newscasts:

## France

### **Russian honeytraps useless against French spies ... their wives already know**

Behind-the-scenes documentary shines a light on France's equivalent of MI6

Henry Samuel

9 April 2024 • 6:02pm

<https://www.telegraph.co.uk/world-news/2024/04/09/french-spies-documentary-russian-honeytraps-dgse/>

Honeytraps do not work on French spies because their wives are used to them having affairs, a television documentary about France's equivalent of MI6 has revealed.

Intelligence agents in the Directorate-General for External Security (DGSE) said that their Russian enemies came to realise that blackmail over taking lovers was ineffective.

The stock phrase in response was "Go ahead, my wife already knows" one agent said in the Making of Secret Agents, a 90-minute documentary that gained unprecedented access to the spy agency over several weeks. It was set to air on French public TV channel France 2 on Tuesday night.

The agent known only as Nicolas, whose voice and face were blurred, says: "Defectors from the Soviet Union used to talk about the 'French paradox', namely if you surprised a Frenchman with a mistress by telling him, we've caught you red-handed with a 22-year-old called Tatyana, work for us or we'll tell your wife, it didn't work.

"That was because he generally said: 'Go ahead, show her, she'll understand,' or 'she already knows about it'."

However, a secret agent's life is a far cry from James Bond, bar "the odd vodka martini", according to one agent. Instead, it is inhabited by "ordinary people doing extraordinary things using exceptional means", according to Bernard Emié, France's spy chief until December 2023.

The decision to open the doors to the agency appears partly in response to the negative press the DGSE has received for a string of apparent recent setbacks.

In one key sequence, Mr Emié, 65, vigorously defends claims French intelligence was caught napping when Russian forces had massed at the Ukrainian border in February 2022.

While Britain and America publicly warned that Russian president Vladimir Putin had the firm intention of invading Ukraine "in the coming days", even pointing out false flag operations in real time, the French continued to deny any invasion was imminent.

President Emmanuel Macron was fiercely criticised for continuing to talk to Putin despite the military build-up.

"When Russia unleashed its war on Ukraine, the DGSE had the same technical information as its American partners," insisted Mr Emié. "The problem is then how you exploit and analyse that information and the way in which you think an event will or won't take place," he said.

"The CIA made the totally respectable decision to divulge the intelligence it had with the aim of dissuading the Russians from launching their operation. This is a policy that we don't pursue.

"But in terms of intelligence, we had the same level of knowledge. In plain terms, nobody was party to someone within President Putin's entourage with access to his personal way of thinking."

In one jab at "Anglo-Saxons", the documentary cites agents who claim they provided photographic evidence that disproves American claims that the late Iraqi dictator Saddam Hussein was building missiles that could carry weapons of mass destruction. The agent said the Americans mixed up images of rolled-up carpets in a factory and petrol pipeline tubing with missiles.

Anglo-Saxons also tended to "throw more money at seeking to make contacts", while the French rely more heavily on ulterior motives.

The documentary includes interviews with agents explaining why they joined, and sequences of them learning to handle firearms and self-defence.

New agents are sent out into Paris to try to make new contacts. One has to chat with an Irish rugby fan and get his email address with an offer of free tickets for the next game. The plan works.

French intelligence assumes that 90 per cent of attempts to create new foreign sources will end in failure, and 10 per cent success, "just like in real life".

#### Surveillance techniques

Some surveillance techniques are shown. For example, one agent displays how he replaces an HDMI cable in an office with another including a small SD card that records all video coming through such as Zoom calls.

Another explains how she leads a double life running a real business with employees and clients but also carrying out a second mission via that company collecting intelligence.

Agents explain how hard it is to keep their jobs from their families, with one saying they learn not to ask questions.

One unnamed agent said: "Most secret agents of the DGSE are under diplomatic cover in embassies. It's not James Bond. We don't have a Walther PPK in our pocket. The odd vodka martini is possible.



“In general, we rely more on subtleness and discretion and rigorous handling of communications means than an M4 or a Glock [both types of guns].”

The documentary opens with members of the DGSE making a distinction between “secret agent” and “spy”, which is a narrower job title and only part of the activity of the agency. The secret agent’s role is to “gather information abroad to protect France”.

However, this often happens from behind a desk.

<https://www.telegraph.co.uk/world-news/2024/04/09/french-spies-documentary-russian-honeytraps-dgse/>

## **Great Britain**

### **Two men in UK charged with spying for China**

Christopher Berry, 32, and Christopher Cash, 29, accused of providing prejudicial information to a foreign state

Ben Quinn

Mon 22 Apr 2024 16.31 BST

<https://www.theguardian.com/uk-news/2024/apr/22/two-men-in-uk-charged-with-spying-for-china>

A parliamentary researcher who was arrested last year on suspicion of spying for China has been charged along with another man with espionage offences.

Christopher Cash, 29, who had access to parliament through his work for an organisation set up by Conservative MPs, is to appear in court on Friday after he and Christopher Berry, 32, were charged under the Official Secrets Act.

The men are accused of providing prejudicial information to a foreign state, China, the Crown Prosecution Service (CPS) said in a statement on Monday.

Police arrested the two men on 13 March last year at addresses in Oxfordshire and Edinburgh as part of an investigation. They were subsequently released on bail and will appear at Westminster magistrates court on Friday.

Cash, of Whitechapel, east London, is accused of obtaining, collecting, recording, publishing or communicating notes, documents or information “calculated to be, might be, or were intended to be, directly or indirectly, useful to an enemy” between 20 January 2022 and 3 February 2023.

Berry, of Witney in Oxfordshire, is charged with engaging in the same offence – under section 1(1)(c) of the Official Secrets Act 1911 – between 28 December 2021 and 3 February 2023.

The foreign state to which the above charges related was China, the Metropolitan police said in a statement.

Commander Dominic Murphy, the head of the counter-terrorism command, said: “This has been an extremely complex investigation into what are very serious allegations. We’ve worked closely with the Crown Prosecution Service as our investigation has progressed and this has led to the two men being charged today.

“We’re aware there has been a degree of public and media interest in this case, but we would ask others to refrain from any further comment or speculation, so that the criminal justice process can now run its course,” he added.

China’s embassy in the UK has dismissed the charges as “self-staged political farce”.

An embassy spokesperson said: “The Chinese embassy made [a] relevant response on 10 September 2023.

“I would like to reaffirm that the claim that China is suspected of ‘stealing British intelligence’ is completely fabricated and nothing but malicious slander.

“We firmly oppose it and urge the UK side to stop anti-China political manipulation and stop putting on such self-staged political farce.”

Cash had been working for the China Research Group, an organisation co-founded by Tom Tugendhat, now the security minister.

The group was set up by MPs with the stated aim of “promoting fresh thinking about how Britain should respond to the rise of China”.

Nick Price, the head of the CPS special crime and counter-terrorism division, said it had “authorised the Metropolitan police to charge two men with espionage offences”.

<https://www.theguardian.com/uk-news/2024/apr/22/two-men-in-uk-charged-with-spying-for-china>

## **Northern Ireland**

### **English heiress turned IRA woman Rose Dugdale dies aged 82**

Eimear McGovern

Mon 18 Mar 2024 at 11:31

<https://www.belfasttelegraph.co.uk/news/northern-ireland/english-heiress-turned-ira-woman-rose-dugdale-dies-aged-82/a53161772.html>

Rose Dugdale, the English aristocrat who led a notorious IRA art heist, has died at the age of 82. She passed away peacefully in her sleep on Monday morning at a nursing home in Dublin.

Dugdale took part in the 1974 art raid at Russborough House in Co Wicklow, when 19 high-value paintings were stolen by an IRA gang. The haul included a Vermeer, a Goya, two Gainsboroughs and three Rubens.

The film telling the story of the art heist, Baltimore, will be released in cinemas this Friday.

Actress Imogen Poots plays Dugdale in the thriller directed by Joe Lawlor and Christine Molloy.

Fiachra McGuinness, son of the late deputy First Minister Martin McGuinness, also posted a tribute.

"Very sad to hear the passing of Republican legend Rose Dugdale," he said.

Daithí Doolan, the Sinn Féin Leader on Dublin City Council, said she passed away on Monday morning.

"She was a true revolutionary who inspired others. She dedicated her life to Irish freedom," he said.

Sinn Féin TD Aengus O Snodaigh said: "Rose was a committed republican and was unflinching in her beliefs, and Ireland has today lost a committed republican and activist, and Sinn Féin a valued comrade."

He added: "Rose for many decades lived in Dublin, in the south inner-city, Drimnagh, and in recent years in a nursing home in Chapelizod, and was an active member of Sinn Féin.

"She was extremely committed to her community, both in her work for Sinn Féin, where she was a hugely popular figure locally and nationally, but also in a wide variety of community groups.

"She was also a great educator of Sinn Féin activists and representatives, many of whom benefited from her vast knowledge and life experiences, and who are all feeling the loss of a dear friend and comrade today."

Born in Devon in 1941, she infamously carried out bombings, raids and robberies and later served nine years in prison for her involvement with the terror group.

In January 1974, Dugdale was involved in the hijacking of a helicopter that was used to bomb the RUC's barracks in Strabane, Co Tyrone. [*Believed to be the only use of a helicopter in that attack, was unique and has never been repeated again*].

She was best known for her involvement in the raid on Russborough House in April 1974.

The elderly owner of the mansion, Alfred Beit, and one of his staff were struck with revolvers and tied up, watching the gang cut rare paintings from their frames. [*That is the same Alfred Beit who was associated with the funding of the Royal School of Mines at Imperial College and after whom Beit Hall on Prince Consort Road is named. --- when asked for directions to RSM I was always tempted to ask 'kinetic or magnetic*].

Dugdale was jailed for nine years over the art theft and the hijacking of a helicopter.

While in Limerick prison she gave birth to a son named Ruairí – who now lives in Germany – and married fellow republican Eddie Gallagher.

Later she settled in Dublin and in her latter years lived in a retirement home.

In an interview with RTÉ during a series on women involved in the IRA, Dugdale, who in the early 2000s turned to environmental campaigning, said she had hoped she had contributed to the "cause".

She also said she respected what "had been done in the Good Friday Agreement" and hoped she had a "played a part in the success of armed struggle."

<https://www.belfasttelegraph.co.uk/news/northern-ireland/english-heiress-turned-ira-woman-rose-dugdale-dies-aged-82/a53161772.html>

Comments as made in parentheses & italics

*Thanks to contributing member and for this follow up:*

*Local Commentary from the Belfast Telegraph, reference Dugdale:*

*I remember thinking it was a wind-up. I'd just finished working on a story about the IRA burning down the Athletic Stores in Belfast in January 1974 when my news editor asked me to check out a report that the Provos had bombed Strabane police station from a helicopter.*

*"Yeah, right" I thought, but it was pointed out to me that just a couple of months earlier, the IRA had used a chopper to spring three prisoners from Mountjoy jail. A few phone calls confirmed the attack on Strabane has actually happened.*

I'm not sure if it was a result of this incident, but up until the early 2000s most major towns and a number of military establishments in Northern Ireland had a circular area of restricted or prohibited airspace over them, normally up to around 2000 ft AGL. The relevant Civil Aviation Authority (CAA) charts also contained in the legend an ominous warning along the following lines:

*'Pilots are urgently warned against inadvertent entry to prohibited or restricted airspace in Northern Ireland. There exists a risk that the flight could be judged to have hostile or criminal intent and may be subject to countermeasures'*

All these prohibited and restricted areas have been subsequently removed, leaving only one (that applies only to helicopters) over a local high-security prison.

*Thanks to those involved!*

## **South Armagh watchtowers had function so secretive that security agencies wouldn't even tell America**

[The Kew Files: South Armagh watchtowers had function so secretive that security agencies wouldn't even tell America | BelfastTelegraph.co.uk \(archive.is\)](#)

Secret Army assessment given to Downing Street before major meeting with Chief Constable and General Officer Commanding, as Sinn Féin pressed for reduction in military installations

The south Armagh watchtowers had a function which was so secretive that British security agencies did not even tell America what they really did, according to declassified Government files.

In 2000, Tony Blair told the Chief Constable and the most senior Army officer in Northern Ireland that Britain did not want to disclose even to the Americans the exact surveillance function of the structures.



## Poland

### **Poland investigating Russian espionage, security agency says**

By Reuters

March 28, 2024 6:59 PM UTC updated 2 days ago

<https://www.reuters.com/world/europe/poland-investigating-russian-espionage-security-agency-says-2024-03-28/>

WARSAW, March 28 (Reuters) - Poland's Internal Security Agency (ABW) has carried out searches as part of an investigation with other European security services into alleged Russian espionage, it said on Thursday.

A hub for Western military supplies to Ukraine as it fights Russia's invasion, Poland says it has become a major target of Russian spies. It accuses Moscow and its ally Belarus of trying to destabilise it.

"Actions aimed at organising pro-Russian initiatives and media campaigns in EU countries have been documented," ABW said in a statement, mentioning the website voice-of-europe.eu that it says published pro-Russian material.

Searches were made in Warsaw and Tychy in western Poland on Tuesday, it said, without giving more specific details. The operation was coordinated with other countries, in particular with partners from the Czech Republic, it said.

"We have uncovered a pro-Russian network that was developing an operation to spread Russian influence and undermine security across Europe," Czech Prime Minister Petr Fiala wrote on social media platform X.

"Therefore we added two individuals and one legal entity to the sanctions list. Domestic authorities subsequently seized their assets," Fiala wrote. Those sanctioned included pro-Russian Ukrainian politician Viktor Medvedchuk and voiceofeurope.com for leading what it said was a pro-Russian influence operation in Europe.

Fiala also said that the Czech Republic was at the beginning of the spy network busting operation including Thursday's developments in Poland and that actions in other countries would follow.

Dutch Prime Minister Mark Rutte on Thursday called reports of pro-Russian attempts to influence EU politicians worrying and said the Netherlands would "do what is necessary."

"This shows how great the risk of foreign influence is," Rutte told journalists in The Hague. "It's a threat to our democracy, to our free elections, to our freedom of speech, to everything."

ABW's latest actions stemmed from an investigation completed in January in which a Polish citizen suspected of spying for Russian special services was indicted.

"The man, who was placed among Polish and European parliamentarians, performed tasks commissioned and financed by collaborators of Russian intelligence, which included propaganda, disinformation and political provocations," it said

Reporting by Anna Wlodarczak-Semczuk and Karol Badochal in Warsaw and Anthony Deutsch in Amsterdam; Editing by Angus MacSwan and Mark Porter

<https://www.reuters.com/world/europe/poland-investigating-russian-espionage-security-agency-says-2024-03-28/>

## Ukraine

*Whilst we would not usually include anything about UKR vs RUS this piece is worth a read for the technical inferences:*

### **How Ukraine is using mobile phones on 6ft poles to stop drones Simplistic acoustic sensors, first tried a century ago, make a comeback to protect against threat from Russia**

Joe Barnes,  
BRUSSELS CORRESPONDENT  
26 March 2024 • 6:36pm

<https://www.telegraph.co.uk/world-news/2024/03/26/ukraine-mobile-phones-poles-sensors-russian-drones-simple/>

Ukraine is using a network of thousands of mobile phones deployed across the country to track incoming drones and missiles.

The project, which Ukrainian sources have said is too secretive to discuss in detail, was disclosed by the US Air Force's most senior officer in Europe at a recent event.

General James Hecker, head of US Air Forces in Europe, described the most simplistic acoustic sensors as a network of thousands of mobile phones attached to 6ft poles.

Kyiv's national air defence command and control network, known as "Virazh", relies on at least 40 separate kinds of sensor networks to detect, track and identify airborne threats.

The acoustic sensors gather uncharacteristic sounds from the environment before artificial intelligence is used to establish whether anomalies are incoming kamikaze drones or missiles.

Dr Thomas Withington, an expert in air defence at the Royal United Services Institute said: "It's interesting that this technology is making a comeback because it was all the rage before the invention of the radar in the 1920s and 1930s

"History, in a sense, comes full circle, but with the adaptation of the technological age that we have today."

The most basic sensor, manufactured by a non-governmental organisation called “Skyfortress”, is deployed in areas close to the front lines in Ukraine. It is built from an android smartphone housed in a box with other commercially available technologies.

The mobile phones are constantly switched on and recording to detect incoming aerial targets, and they use local mobile phone networks to relay the information back to a centralised system.

The Telegraph can reveal these systems are funded through the Safe Skies initiative, a scheme set up under president Volodymyr Zelensky’s United24 platform.

Describing the system, Mykhailo Fedorov, the minister for digital transformation, told The Telegraph last year: “It’s really helpful for us in order to get a better understanding of what’s going on in our skies.

“It’s a quite revolutionary breakthrough technology.”

The scheme is raising money for as many as 12,500 sensors, built by Ukrainian firm Ajax Systems, to position in the regions of Sumy, Odesa, Mykolaiv and Kherson.

A second system used by Ukraine’s armed forces is known as Zvook, which uses similar acoustic technologies to provide a better picture of the skies above the country.

The machine learning firm’s sensors use micro-computers, instead of mobile phones, to detect drones at a range of three miles away, cruise missiles at four miles and ballistic missiles at six miles.

Artificial intelligence helps the system distinguish between the sound of a mooing cow and incoming drones.

Maryan Sulym, chief executive officer of Zvook, told The Telegraph: “We detect the air threats and then the military can turn on the radar systems to highlight a particular region.

“It’s an auxiliary system. It’s not replacing radar but making it more efficient.”

The company currently covers five per cent of Ukraine’s territory – 5,400 miles square –with its 210 sensors.

It estimates it could cover the entire country with 8,000 of its devices, which cost about £400 to manufacture.

Systems have been fitted to critical infrastructure, such as telephone masts and electricity substations, since the winter of 2022.

When Ukraine was recently attacked using as many as 84 kamikaze drones, acoustic systems like these were used to provide ground crews with information on their trajectories.

General Hecker said mobile firing groups were able to intercept at least 80 of the unmanned aerial vehicles with the information.

He said Nato countries are now also looking into whether the equipment could be used to bolster their own air defence networks.

During the Second World War, acoustic systems were built on Britain’s Kent coast.

The giant concrete dome structures, known as mirrors, were used to amplify the sound of incoming enemy aircraft. Observers could compare the reflected sounds to calculate height, speed and flight path.

And in the late 1960s the US Air Force deployed an array of heat and movement sensors in the jungles of Vietnam to listen in on the Vietcong. However, the Vietnamese soon discovered the whereabouts of the listening devices.

<https://www.telegraph.co.uk/world-news/2024/03/26/ukraine-mobile-phones-poles-sensors-russian-drones-simple/>

# 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.

## UNID.CW

### UM05 – The French Mystery Morse Station (Or is it?)

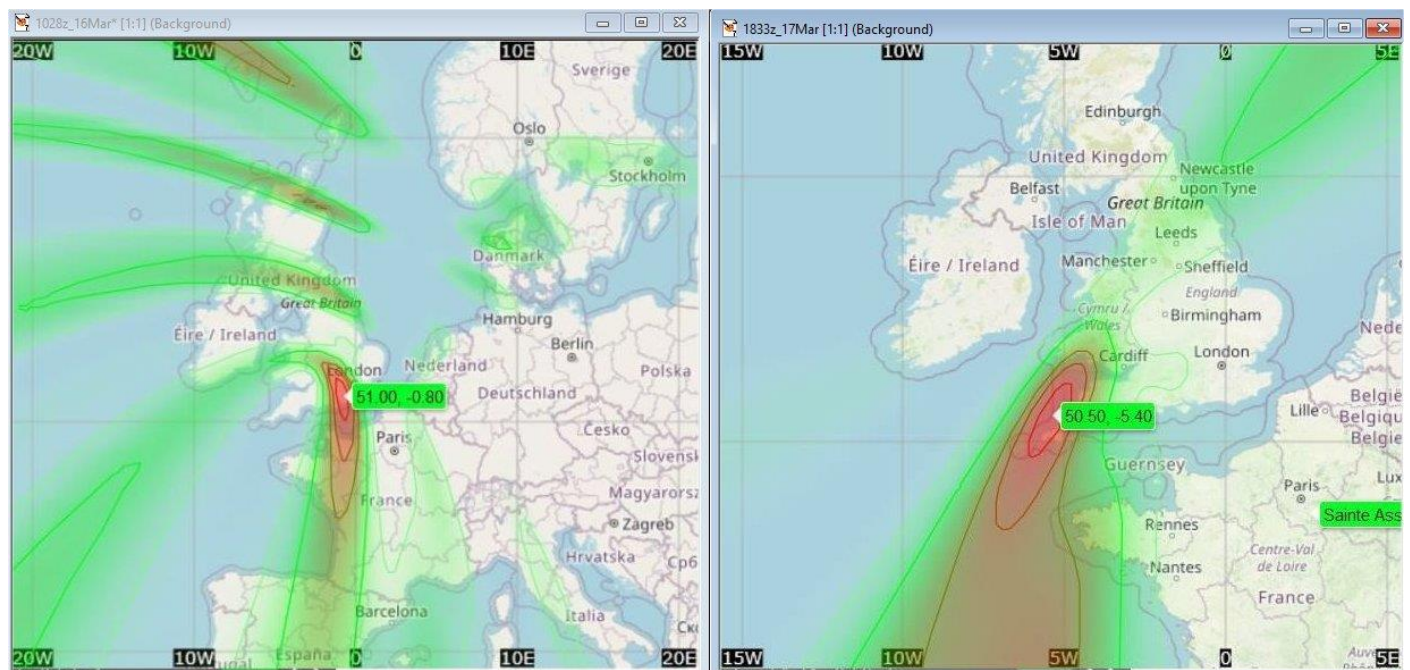
We have been sent some TDoA, (Time Difference of Arrival), plots on UM05 that seems to indicate a positive result. It should be stated that attempts to use the TDoA facility on Morse stations has mixed results, possibly due to the intermittent nature of the signals, a continuous carrier being much preferred, even then results can be unreliable.

The pinpointed area appears to centre on the UK city of Cheltenham – also the home of a certain organisation. It couldn't be – Could it? We don't think so – But they could probably tell us where it's coming from...

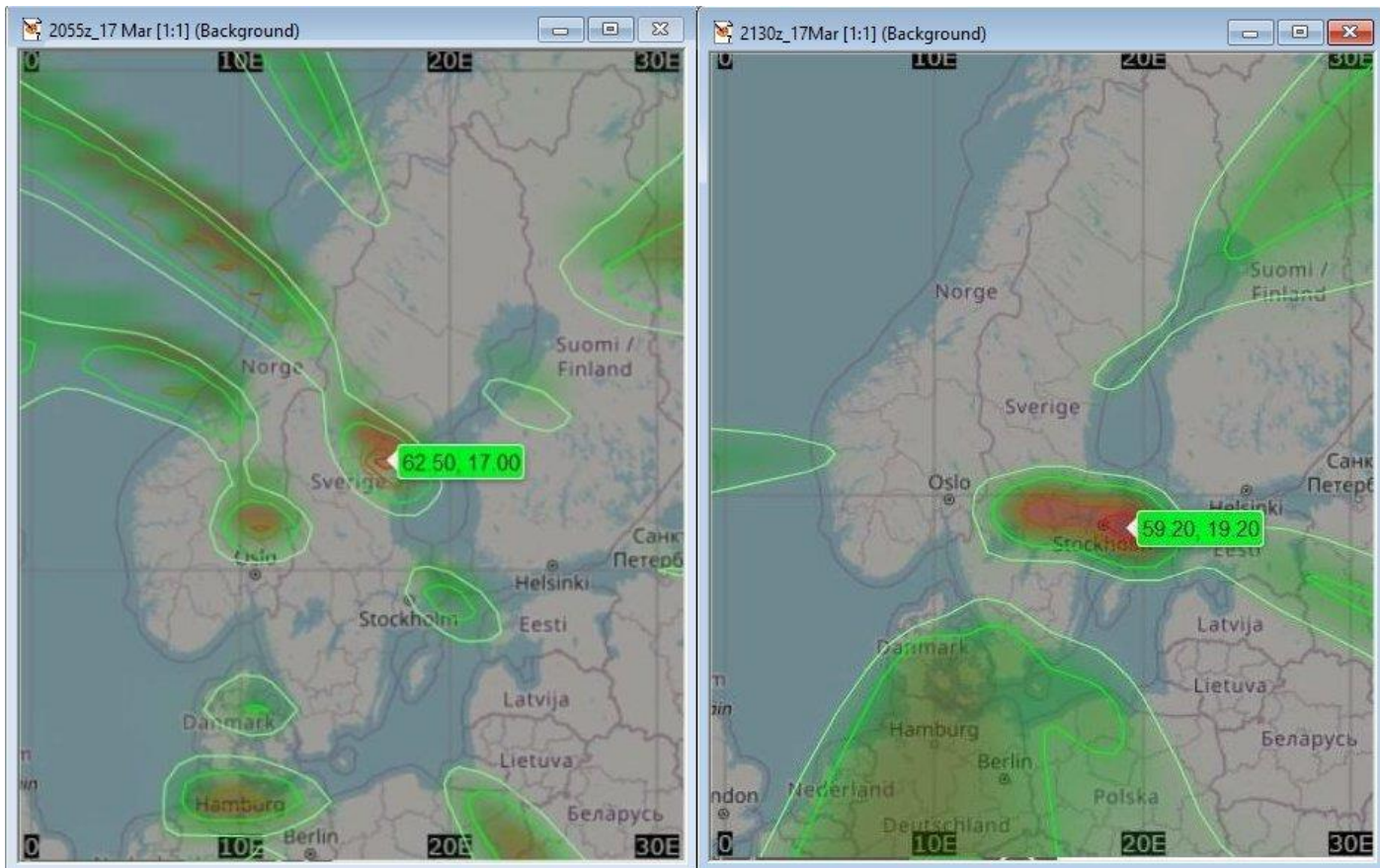


Result of a TDoA on UM05 13 Mar 5345.8kHz *Courtesy Anon*

Our contact carried out further plots in the few days that UM05 changed temporarily from 5345.8kHz to 10380.8kHz. The daytime plots give very similar results to that previously obtained on 5345.8kHz, although the night-time plots give a location in central Sweden. What is interesting is that, although only a few of the plots are shown here, the results obtained show a remarkable consistency. In addition, we understand that the locations were also confirmed by signal strength readings from several SDRs close by.



UM05 Daytime TDoA Results 16 Mar 10380.8kHz 1028z 17 Mar 10380.8kHz 1833z *Courtesy Anon*



UM05 Night TDoA Results 17 Mar 10381kHz 2055z 17 Mar 10381kHz 2130z Courtesy Anon

The nature & content of UM05 would seem to suggest a French location from a single source, but these results would certainly offer an alternative position.

We offer the information here as presented. Official sources, such as the ITU Monitoring Program, show no logs of the station – a pity, as they are often accompanied by location information.

From periodic monitoring it has been noted that the station is consistently received with a good to strong signal on 5345.8kHz via the G8GPO SDR at Baldock, Hertfordshire, UK & that this has been the case even when the signal is unable to be heard on the Twente University SDR in Enschede, Netherlands.

**Activity Logs**

5345.8 0708z (IP) 13 Mar XXWC IDZC RFXN FUFU UEGZ ZJXL LPND RDCE MUWA IFLZ BSTN BVWO etc AB WED  
 The station now sends 4-letter groups – first logged 12 March  
 Friday 15 March, the station moved from 5345.8kHz to 10380.8kHz  
 Tuesday 19 Mar, moved back to 5345.8kHz

5345.8 21 Mar IDBU SCRG RFVR AUVR DQDR GPZL [etc.] Fair BR THU

The station became irregular on early April & was missing from Saturday 06 – 07 April, returning on Monday 08 April, although the output had reverted to that heard when the station first appeared – sending either a single letter or word repeated a number of times before moving on to the next. Examples of this are Livre, Lac & L – all heard on 08 April.

Another outage was noted on 10 April with the station returning on Monday, 15 April.

5345.8 1405z 15 Apr Sending CORAIL (R) BR MON  
 Transmissions continued until the end of April, continuing with single letters or single words, repeated several times before moving on to the next.

**Report from PoSW**

Peter, PoSW, has also been following the activity from UM05 & sends us his usual detailed report & activity logs:-

This strange CW station was sending groups of six words in a mixture of French and English languages in the last days of February which was also the case in early March although the content changed later in the month:-

- 02-Mar-24, Saturday:- 0656 UTC, sending, “APPLE PLUIE NEIGE VENT PLUIE CHAISE”.  
 Paused around 0700 then came back with “CHAISE FOREST FISH FLOWER SKY LUNE”.
- 03-Mar-24, Sunday:- 1613 UTC, “MONTAGNE VOITURE RIVER FISH TERRE SNOW”  
 Was operating in this style when monitored on most of the first ten days of March:-
- 10-Mar-24, Sunday:- 1611 UTC, “CHAISE HOUSE PLUIE CLOUD BIRD AIR”.

When checked a couple of days later the content had changed:-

12-Mar-24, Tuesday:- 2106 UTC, no longer words but groups of four letters:- "... JOEX HDKA ISYN OBET KQHY...".

13-Mar-24, Wednesday:- "0721 UTC, "...WWPN SDTZ NRMW UJLS TBWF XMWT EQSG MODJ..."

Continued in this style for the remainder of March and into April:-

31-Mar-24, Sunday:- 0753 UTC, "...UNHD HEZZ YFWF DKAY RLFV...".

01-Apr-24, Monday:- 1735 UTC, "...XHST RVZT FRFS SWTR YTVG...".

04-Apr-24, Thursday:- 1851 UTC, "...OOFV OQJE JJOT BYHN OZQD...".

When monitored again early in the following week the modus operandi had reverted to that which had been noted when this station first appeared in October of last year:-

09-Apr-24, Tuesday:- 0637 UTC, sending "CALENDRIER" over and over.  
0649 UTC, now sending "5".  
0655 UTC, "DESERT".

15-Apr-24, Monday:- 2143 UTC, sending, "JOIE".  
Stopped before 2149 then started up again with, "CAROTTE".

16-Apr-24, Tuesday:- 0559 UTC, "VOLCAN".  
Monitored on most days for the remainder of the month, still in this format in the final week of April:-

24-Apr-24, Wednesday:- 1832 UTC, "OXYGENE"  
1847 UTC, "ORANGE".

25-Apr-24, Thursday:- 1638 UTC, "THEORIE".  
2004 UTC, "GARE".

27-Apr-24, Saturday:- 0708 UTC, "REPAS".

Thanks for your excellent report, Peter

## Morse - Number Stations

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

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

### March 2024:

5020	2000z	05 Mar	'463' 131 30 == 84756 64758 ... 33733 54541 ==	Good, med-fast with some hesitation. No errors noted	BR	TUE
	2000z	14 Mar	'463' 144 30 == 12345 23415 ... 54768 56789 ==	Fair/Good, fast. Excellent Morse. Only 29 grps sent	BR	THU
	2000z	21 Mar	'463' 219 30 == 94564 64521 ... 74854 73654 ==	Strong, fast. Hesitant delivery. One corrected error	BR	THU
	2000z	26 Mar	'463' 359 30 == 27365 12423 ... 87351 73525 ==	Fair/Good, fast. Grps13-14 09876 54321. 29 grps sent	BR	TUE
	2000z	28 Mar	'463' 503 30 == 65098 10981 ... 86757 40931 ==	Fair with QSB, fast. Excellent Morse. One error grp07	BR	THU
5475	1800z	05 Mar	'463' 221 30 == 85497....		HFD	TUE
	1800z	12 Mar	'463' 301 30 == 40918 30987 ... 46578 30987 ==	Weak/Fair, fast. Excellent Morse. No errors noted	BR	TUE
	1800z	14 Mar	'463' 722 30 == 10203 20304 ... 56723 78901 ==	Weak/Fair, fast. Excellent Morse. Only 29 grps sent	BR	THU
	1800z	19 Mar	'463' 298 30 == 18367 27463 ... 30171 31939 ==	Good, fast. Excellent Morse. Patterns in grp make-up	BR	TUE
6260	1500z	02 Mar	'463' 121 30 == 76543 76503 ... 23415 23234 ==	Fair, fast. One error grp06 54930 54390	BR/HFD	SAT
	1500z	09 Mar	'197' 834 30 == 73899 20991 ... 16370 15246 ==	Fair, fast. Wrong call-up used, other errors. 27 grps sent	BR	SAT
	1500z	16 Mar	'463' 283 30 == 18356 18352 ... 39414 30351 ==	Weak/Fair, fast. Good Morse. Patterns in grp make-up	BR	SAT
6510	0700z	03 Mar	'463' 931 30 == 82736....		HFD	SUN

### April 2024:

5020	2000z	02 Apr	'463' 736 30 == 27635 81542 ... 74653 98098 ==	Fair, fast. Excellent Morse. Grp16 98765, Grp22 54321	BR	TUE
	2000z	04 Apr	'463' 408 30 == 37421 90587 ... 23516 71851 ==	Fair, fast. Corrected error grp19. Hesitant delivery	BR	THU
	2000z	09 Apr	'463' 786 30 == 14253 12634 ... 39123 30111 ==	Fair, fast. Good Morse. Patterns noted in grp make-up	BR	TUE
	2000z	11 Apr	'463' 354 30 == 12345 89089 ... 80908 54325 ==	Good, fast. Excellent CW. Grp01 12345, Grp21 54321	BR	THU
	2000z	18 Apr	'463' 917 30 == 58374 38475 ... 38256 35244 ==	Good, fast. Excellent Morse. No errors	BR	THU
	2000z	23 Apr	'463' 748 30 == 84009 83364 ... 73000 00001 ==	Fair with QSB, fast. Numerous errors. Many paired figs.	BR	TUE
	2000z	25 Apr	'463' 593 30 == 24312 35465 ... 37646 13321 ==	Fair, fast. DK 593 at start / 598 at end. Many paired figs.	BR	THU
	2000z	30 Apr	'463' 571 30 == 58365 74830 ... 84710 93714 ==	Fir/Good, fast. First 14 grps good. Chaotic from grp20	BR	TUE
5475	1800z	02 Apr	'463' 157 30 == 17652 76589 ... 75837 90981 ==	Weak, fast. Excellent Morse. Poor copy in places	BR	TUE
	1800z	04 Apr	'463' 442 30 == 27135 72743 ... 64754 45261 ==	Fair, fast. Severe QRM from digital bursts. Hesitant dly	BR	THU
	1800z	09 Apr	'463' 123 30 == [severe digital WB Droning QRM]	Weak, fast. Very poor copy. Mostly unusable	BR	TUE
	1800z	11 Apr	'463' 909 30 == 74583 57462 ... 28594 85049 ==	Weak, fast. Excellent CW. Grp11 12345, Grp21 54321	BR	THU
	1800z	16 Apr	'463' 486 30 == 38532 16475 ... 98987 67543 ==	Fair, fast with moderate digital QRM. No errors noted	BR	TUE
	1800z	18 Apr	'463' 441 30 == ..... .. 38295 83920 ==	Good, fast. Excellent Morse. Missed start of sched.	BR	THU
	1800z	25 Apr	'463' 576 30 == 68879 25433 ... 23432 15342 ==	Weak/Fair with QSB. One error. Many paired figs.	BR	THU
	1800z	30 Apr	'463' 727 30 == 82745 82047 ... 2283 . 82947 ==	Weak, fast. Poor & difficult copy in places	BR	TUE



6260	1500z	13 Apr	'463' 112 30 == 24335 67756 ... 292 .7 11976 ==	Weak with QSB, fast. Difficult copy in places	BR	SAT
	1500z	20 Apr	'463' 735 30 == 64738 68745 ... 78095 09876 ==	Weak, fast. No errors. Grp25 54321, Grp30 09876	BR	SAT
	1500z	27 Apr	'463' 441 30 == 55824 73920 ... 38573 85932 ==	Very Weak, fast. Excellent Morse. (Via SDR Finland)	BR	SAT
6510	0700z	21 Apr	'463' 735 30 == . . . . . 75613 63425 ==	Fair with QSB, fast. No errors. Missed start of sched.	BR	SUN

<b>M01/2</b>	<b>6260kHz</b>	<b>1500z</b>	<b>16 March 2024</b>
463 (R4m) 283 283 30 30 = =			
18356 18352 19352 12227 13485 18452 17098 14243 16721 10513 28367 23734 29659 21462 20138 25356 27909 24163 27117 26461 31284 32846 33461 34451 35381 36976 37879 38112 39414 30351 = = 283 283 30 30 000			
Note: Grps01-10 start with 1, Grps11-20 start with 2, Grps21-30 start with 31, 32, 33 etc.			
<i>Courtesy BR</i>			

<b>M01/2</b>	<b>5475kHz</b>	<b>1800z</b>	<b>19 March 2024</b>
463 (R4m) 298 293 30 30 = =			
18367 27463 39184 47563 58374 69384 71423 84532 95673 10562 21321 22321 22652 23321 24321 25321 26321 22731 22857 22961 33834 24312 35674 39807 30456 31524 32379 39876 30171 31939 = = 298 298 30 30 000			
Note: Grps01-10 start with 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 respectively Grps11-20 all start with 2. Grps21-30 start with 3, (except grp22)			
<i>Courtesy BR</i>			

**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**

16284/15984/14784	0010/30/50z	01 Mar	297 1	(Via SDR Japan)	HFD	FRI
	0010/30/50z	08 Mar	297 000	(Via SDR Japan)	BR	FRI
	0010/30/50z	18 Mar	297 1 (8312 73) 48247 36245....	(Via SDR Japan)	BR	MON
18767/17467/16267	0300/20/40z	05 Mar	742 1	(Via SDR Japan)	HFD	TUE
14837/13937/12137	0010/30/50z	01 Apr	891 1	(Via SDR Japan)	HFD	MON
	0010/30/50z	19 Apr	891 1 (8481 49) 82974 46881....	(Via SDR Japan)	BR	FRI
18767/17467/16267	0300/20/40z	02 Apr	742 1	(Via SDR Japan)	HFD	TUE

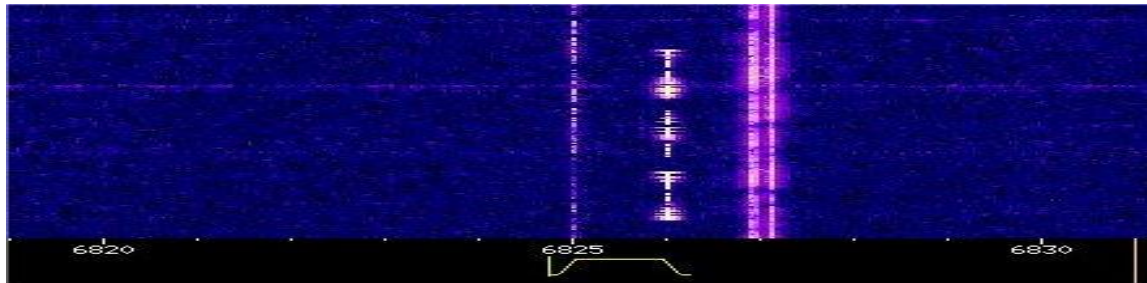
**European M12 Logs**

**March 2024:** New scheds in bold type

8126/7526/6826	2200/ <b>26/52z</b>	01 Mar	178 1		QRM	HFD	FRI
	2200/ <b>26/52z</b>	02 Mar	178 1 (260 290) 81371 58199 ... 44744 85614	[Note 1]		BR/Gert	SAT
	2200/ <b>26/52z</b>	09 Mar	178 1 (260 290) 81371 58199....	[Note 1]		BR	SAT
	2200/20/40z	15 Mar	178 1 (363 141) 30284 59473....			BR	FRI
	2200/20/40z	16 Mar	178 1 (363 141) 30284 59473....			BR	SAT
	2200/20/40z	22 Mar	178 1 (363 141) 30284 59473....			BR	FRI
	2200/20/40z	23 Mar	178 1 (363 141) 30284 59473....			BR	SAT
	2200/20/40z	29 Mar	178 1 (138 109) 20294 00978....			BR	FRI
9157/79576857	2300/20/40z	04 Mar	917 000			HFD	MON
	2300/20/40z	07 Mar	917 000			BR	THU
	2300/20/40z	11 Mar	917 1 (533 100) 44871 10432....			BR	MON
	2300/20/40z	14 Mar	917 1 (533 100) 44871 10432....			BR	THU
	2300/20/40z	18 Mar	917 000			BR	MON
	2300/20/40z	21 Mar	917 000			BR	THU
	2300/20/40z	25 Mar	917 1 (511 201) 13673 32593....			BR	MON
	2300/20/40z	28 Mar	917 1 (511 201) 13673 32593....			BR	THU
10238/9138/7838	2000/20/40z	01 Mar	218 1			HFD	FRI
	2000/20/40z	06 Mar	218 000			BR	WED
	2000/20/40z	08 Mar	218 000			BR	FRI
	2000/20/40z	13 Mar	218 1 (336 117) 85152 53547....			BR	WED
	2000/20/40z	15 Mar	218 1 (336 117) 85152 53547....			BR	FRI
	2000/20/40z	22 Mar	218 000			BR	FRI
11435/10598/9327	1800/20/40z	02 Mar	938 1			HFD	SAT
	1800/20/40z	09 Mar	938 1 (5537 76) 00108 68471....			BR	SAT
	1800/20/40z	16 Mar	938 1 (9067 75) 07877 22660....			BR	SAT
	1800/20/40z	23 Mar	938 1 (5725 75) 52386 69259....			BR	SAT
12162/11566/10711	1800/20/40z	05 Mar	546 1 (3432 52) 82695 97812....	Firedrake QRM on 11566kHz		BR	TUE
	1800/20/40z	12 Mar	546 1 (5020 50) 68569 63797....	Firedrake QRM on 11566kHz		BR	TUE
	1800/20/40z	19 Mar	546 1 (4301 53) 3106 . . 4634....			BR	TUE
	1800/20/40z	26 Mar	546 1 (8399 59) 81541 22626....			BR	TUE

13571/12171/10871	2310/30/50z	13 Mar	518 1 (281 213)	88882 67012....	BR	WED
	2310/30/50z	17 Mar	518 1 (281 213)	88882 67012....	BR	SUN
	2310/30/50z	20 Mar	518 1 (245 56)	89440 83433....	BR	WED
	2310/30/50z	24 Mar	518 1 (245 56)	89440 83433....	BR	SUN
	2310/30/50z	27 Mar	518 1 (992 237)	24740 27520....	BR	WED
20849/19449/18249	1400/20/40z	04 Mar	842 000		HFD	MON
	1400/20/40z	07 Mar	842 000		BR	THU
	1400/20/40z	11 Mar	842 000		BR	MON
	1400/20/40z	14 Mar	842 000		BR	THU
	1400/20/40z	18 Mar	842 1 (9928 86)	66066 63133....	BR	MON
	1400/20/40z	25 Mar	842 000		BR	MON
	1400/20/40z	28 Mar	842 000		BR	THU

[Note 1 – The times of the 2<sup>nd</sup> & 3<sup>rd</sup> transmissions were deferred due to the length of message – An unusual high group count for an M12 message these days]



02 Mar 2252z M12 Sched ID 178 on 6826kHz with M51b on 6825kHz & Unknown FSK on 6827kHz Courtesy BR

#### April 2024:

7575/8175/9175	2100/20/40z	05 Apr	511 1		HFD	FRI
	2100/20/40z	06 Apr	511 1 (138 109)	20294 00978....	BR	SAT
	2100/20/40z	12 Apr	511 1 (8485 222)	10967 04260 ... 87914 47083 000 000	Gert	FRI
	2100/20/40z	13 Apr	511 1 (8485 222)	10967 04260....	BR	SAT
	2100/20/40z	19 Apr	511 1 (8485 222)	10967 04260....	BR	FRI
	2100/20/40z	20 Apr	511 1 (8485 222)	10967 04260....	BR	SAT
	2100/20/40z	26 Apr	511 1 (5355 130)	00504 62753....	BR	FRI
9317/10484/11552	0800/20/40z	04 Apr	135 1 (9872 89)	98110 14798....	BR	THU
	0800/20/40z	11 Apr	135 1 (9766 89)	12873 14351....	BR	THU
12139/11139/10239	2000/20/40z	01 Apr	234 000		HFD	MON
	2000/20/40z	04 Apr	234 000		BR	THU
	2000/20/40z	08 Apr	234 1 (9946 106)	00629 44650....	BR	MON
	2000/20/40z	11 Apr	234 1 (9946 106)	00629 44650....	BR	THU
	2000/20/40z	15 Apr	234 000		BR	MON
	2000/20/40z	22 Apr	234 1 (442 181)	86102 34582....	BR	MON
	2000/20/40z	25 Apr	234 1 (442 181)	86102 34582....	BR	THU
2000/20/40z	29 Apr	234 000		BR	MON	
12162/11566/10711	1800/20/40z	02 Apr	546 1 (3437 54)	19237 72385....	BR	TUE
	1800/20/40z	09 Apr	546 1 (4052 59)	24267 41318....	BR	TUE
	1800/20/40z	16 Apr	546 1 (2561 51)	53373 30740....	BR	TUE
	1800/20/40z	30 Apr	546 1 (5373 57)	65339 64077....	BR	TUE
13564/12164/11164	1900/20/40z	03 Apr	511 1 (566 151)	69348 69290 ... 29335 58735 000 000	Gert/HFD	WED
	1900/20/40z	05 Apr	511 1 (566 151)	69348 69290.... 29335 58735 000 000	Gert	FRI
	1900/20/40z	10 Apr	511 1 (566 151)	69348 69290....	BR	WED
	1900/20/40z	12 Apr	511 1 (566 151)	69348 69290....	BR	FRI
	1900/20/40z	24 Apr	511 1 (5069 94)	95209 36790....	BR	WED
	1900/20/40z	26 Apr	511 1 (5069 94)	95209 36790....	BR	FRI
14723/13923/12223	2310/30/50z	03 Apr	792 1	Utility QRM 14723kHz	HFD	WED
	2310/30/50z	07 Apr	792 1 (5477 53)	09852 58413....	BR	SUN
	2310/30/50z	10 Apr	792 1 (500 23)	88201 22658....	BR	WED
	2310/30/50z	14 Apr	792 1 (500 23)	88201 22658....	BR	SUN
	2310/30/50z	17 Apr	792 1 (141 78)	82140 83100....	BR	WED
	2310/30/50z	21 Apr	792 1 (141 78)	82140 83100....	BR	SUN
	2310/30/50z	28 Apr	792 1 (9154 139)	28960 18976....	BR	SUN
20971/20371/19271	1400/20/40z	01 Apr	932 000		BR	MON
	1400/20/40z	04 Apr	932 000		HFD	THU
	1400/20/40z	18 Apr	932 000		BR	THU
	1400/20/40z	22 Apr	932 1 (329 83)	05105 03416....	BR	MON

**M12 8126/7526/6826kHz 2200/2226/2252z 02 April 2024**

178 178 178 1 (R2m) 260 290 260 290

81371 58199 65626 57796 40183 70569 24018 78487 24434 33713  
78741 17646 98565 07945 43101 65451 81092 58999 27893 21055  
54570 45563 52355 71332 18825 97161 34182 28698 32388 74589  
58747 41383 35315 43501 62317 93750 78728 36952 36881 75896  
00355 61059 66871 92101 26406 64012 88693 60972 60759 04625  
78494 40382 71369 05268 06047 44656 84638 17652 68920 24558  
00966 35799 65494 29856 12031 71125 25691 57693 15230 13537  
85274 52419 16308 56678 33860 50681 49713 76940 98950 55741  
16297 95149 74779 90109 59628 19817 48953 27520 90970 56055  
26928 43479 27139 59899 55748 17769 40492 13843 61221 04609  
78502 37552 33330 50647 14761 23965 26762 60988 12153 26167  
95088 46200 80514 84512 29651 61591 07008 11018 42291 71766  
69526 16255 46356 28243 19801 87065 07990 84563 68891 37874  
05062 51350 34432 04391 97295 36799 11598 15415 97886 20642  
93146 38137 66212 36537 25203 37912 24425 78106 52141 95691  
61582 52419 71526 95888 95134 08762 37317 42158 38135 12721  
64882 14060 29363 95542 26731 32584 06062 11879 00864 98341  
32611 45569 05608 46030 67324 00138 43209 26841 77375 71700  
99657 88389 45763 19114 43681 56120 79532 29094 28452 88874  
34820 96726 77120 50270 16660 19474 27587 62553 12020 19894  
23567 74520 56132 32851 13058 49555 14487 97248 99232 85250  
53246 48082 61385 76204 85136 57117 58306 20891 47541 42089  
09987 76723 16726 60893 50412 54465 95569 19628 82750 47263  
87462 97799 84471 91152 80861 72455 89629 27225 21080 96989  
78921 08847 79611 39180 97665 13287 39548 45672 18243 61977  
54380 81299 95971 04993 50747 65495 56632 34288 38344 22168  
04557 57047 08360 66944 40626 96822 01066 56079 18681 08372  
16168 31643 31151 18291 15226 91369 61491 50438 82864 40888  
67551 82473 98875 37496 01743 68349 23005 12517 44744 85614  
000 000

*Courtesy Gert*

**M12 7575/8175/9175kHz 2100/2120/2140z 12 April 2024**

511 511 511 1 (R2m) 8485 222 8485 222

10967 04260 96055 41227 70498 55459 16818 38316 35398 64161  
23773 33983 16298 94270 39865 69417 57145 15712 73769 86680  
45272 56048 10871 52899 85770 72114 51952 72054 96293 80510  
02253 24586 41600 03589 23779 58954 89601 17713 51184 31570  
41466 53185 87205 45967 21795 95358 99768 95395 95329 40487  
49877 50357 88199 86360 54120 32866 74625 43443 30358 63299  
49031 75253 35432 10821 70798 71750 64124 99265 62820 24076  
97734 77330 67329 92277 26932 54085 06729 42608 27813 46554  
52451 19445 02200 86996 02429 12956 44746 40821 23635 68597  
20548 17234 52301 94662 70740 94695 66683 31988 10039 54983  
10173 93555 70071 31127 21117 57270 84232 55227 20951 86601  
29340 98444 03851 44185 26270 24911 74126 65734 67258 30832  
68842 95607 68119 82265 79356 87616 33435 38623 95642 11686  
27188 93898 99074 68279 13729 47993 72957 80033 36655 58046  
80539 63538 67775 29337 42992 91001 39497 81529 94715 18700  
53927 67868 25158 24454 32218 26904 60168 72737 09507 35519  
93006 80888 07125 86767 08539 86973 10475 20992 99483 99547  
48356 53165 15195 37139 86084 47317 72715 26945 94423 95263  
51536 08121 47733 68981 59437 87185 58398 30885 99919 75747  
07585 85014 36838 60948 24466 28449 38436 79410 52503 85976  
88458 13784 02049 57039 12480 41539 13130 49964 94564 09078  
72542 22548 50307 99533 75780 37213 68723 47150 21488 32828  
87914 47083  
000 000

*Courtesy Gert*

**M14 IA MCW / ICW Short 0**

**March 2024:**

12211	0500z	01 Mar	952 00000	(Via SDR Japan)	HFD	FRI
10243	0520z	01 Mar	952 00000	(Via SDR Japan)	HFD	FRI

**Test Transmission**

10755	0715 – 0843z	26 Mar	975 (R)		AB	TUE
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**April 2024:**

No Logs

**M23 O ICW**

The series of scheduled transmissions reported in our last newsletter continued beyond February into the first two weeks of March, with a couple of previously unreported schedules coming to our notice, (thanks again to Ary & UDXF colleagues), before finally they all ceased from Tuesday, 12 March through Wednesday, 13 March, (in the case of the last early morning transmissions).

	Freq kHz	Call	Duration	Dates Heard	Notes	
Time UTC	0158z	5198	SST XKO	1h 30m 45m	19 Feb 21 Feb – 12 Mar	NRH from Wed 13 Mar
	0358z	5198	2O2 RST	36m 1h 30m	19 Feb 21 Feb – 12 Mar	NRH from Wed 13 Mar
	0558z	5873	SOT BDT	1h 1h	19 Feb 21 Feb	
	<b>0908z</b>	<b>18412</b>	<b>SST</b>	30m	11 Mar	NRH from Tue 12 Mar
	0958z	17432	RST OSS	1h 30m 1hr	08 – 19 Feb 20 Feb – 11 Mar	NRH from Tue 12 Mar
	1158z	18412	OSS	1h	16 Feb – 11 Mar	NRH from Tue 12 Mar
	1558z	18412	1T2	45m	14 Feb – 11 Mar	NRH from Tue 12 Mar
	2158z	10551	SOT SST	1h 1h 30m	15 - 19 Feb 20 Feb – 11 Mar	NRH from Tue 12 Mar
	<b>2358z</b>	<b>3659</b>	<b>TUO</b>		22 Feb (?) – 11 Mar	NRH from Tue 12 Mar

Newer reported schedules in **bold** type. As previously stated – Information may be incomplete or contain errors due to the intensive nature of the schedules.

From Saturday 30 March Ary logged hourly beeps at hh57 on 5198 kHz & 18412kHz, first noted from 2057z. However, despite regular monitoring no further transmissions appeared.

Thanks & credit to Ary, UDXF & Colleagues for their work & for sharing the information with ENIGMA 2000 as well as those ENIGMA members who provided additional logs & reports on this station.

## Morse Stations - Not Number Related

### M51 XIX

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

1230 - 1316z	18 Mar	Lundi-Leçon	21-2/1 Codé	21-2/2 Clair,	21-2/3 Codé,	21-2/4 Clair (420 grps/hr)	BR	MON
1130 - 1202z	23 Apr	Mardi-Leçon	12-2/1 Codé	12-2/2 Clair,	12-2/3 Codé,	12-2/4 Clair (600 grps/hr)	BR	TUE
1230 - 1308z	20 Mar	Mercredi- Leçon	23-2/1 Codé,	23-2/2 Clair,	23-2/3 Codé,	23-2/4 Clair (720 grps/hr)	BR	WED
1330 - 1258z	21 Mar	Jeudi- Leçon	14-2/1 Codé,	14-2/2 Clair,	14-2/3 Codé,	14-2/4 Clair (840 grps/hr)	BR	THU

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

3881//6825

2032z	23 Mar	Non-stop 5-character groups composed of M51a messages	(Via SDR Japan)	BR	SAT
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Peter, PoSW, logged the five-figure groups which can be heard, almost continuously, on both 3881 & 6825, but in addition caught activity from F9TM, the amateur radio station licenced to this same organisation. F9TM activates a regular schedule on a Thursday evening on the 80m band, although the station has also been heard using the regular utility frequencies used by the M51 group of stations, as Peter describes below:

The CW station on 6825 kHz heard many times over the last couple of months sending fast groups of five characters, has been noted with a very strong signal in the late afternoon and early evening on several occasions.

Also logged once in recent times is that thing they sometimes do on a Thursday where 6825 runs in parallel with a frequency in the 80 metre amateur band using call sign F9TM and conducts a signal-reporting exercise with French amateur stations:-

21-Mar-24:- 1807 UTC, noted by chance some Morse on 6825, not the usual groups sent at high speed, this was slower, presumably hand keyed and just starting up. Slow enough for me to read, some of it anyway, and surprised to find that it was in langue anglais :- “CQF CQF CQF DE F9TM F9TM FRENCH NATIONAL NETWORK AT” (something) CLEAR FREQUENCY APPRECIATED (something) 73”.

Found the parallel frequency on 3536, presumably they have had interference problems in the past from G stations and were politely asking them to keep clear of 3536.

*Thanks Peter. A most interesting catch!*

### 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).

4720kHz 8357kHz

#### M89 Freq & Call signs heard in Mar / Apr 2024

4860//6840 VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K

4720	2032z	23 Mar	4-char Chinese cut numbers msg. (In Progress)	3565 FXM?	(Via SDR Japan)	BR	SAT
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2019z	23 Mar	4-char Chinese cut numbers msg. (In Progress)	Ended 2021z	(Via SDR Japan)	BR	SAT
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M95 O XSV, XSV70, XSV85

#### M95 Morse Logs (Bold type indicates new logging)

3968//6936 Call Sign SAQC (Previously 3A7D) Suspect change in frequency and Round Slip for DKG6 DE 3A7D  
2045z 19 Mar V YHxD (x3) DE SAQC (x2) (SDR Japan) BR TUE

4243//9054	Message number differs from current XSV70 and XSV85 message numbers.						
	1215 (IP) – 1219z	18 Mar	Msg. in progress using Chinese short-number code	(SDR Japan)	BR	MON	
	1215 (IP) – 1224z	24 Mar	Msgs. in progress using Chinese short-number code	(SDR Japan)	BR	SUN	

**Spl Msg:** VVV JPL VY Best RGDS DE E2K K

## Marker Beacons (MX MXI)

4031	1539z 2249z	07 Mar 20 Apr	MX MX	CW CW	Beacon Beacon	"V" "V"		AB PLdn	THU SAT
4557.7	2047z	06 Mar	MXI	CW	Beacon	"D"	Sevastopol	BR	WED
4558.4	1547z	19 Mar	MXI	CW	Beacon	"M"	Magadan	(Via SDR Japan) BR	TUE
5153.7	2048z 2252z	06 Mar 20 Apr	MXI MXI	CW CW	Beacon Beacon	"D" "D"	Sevastopol Sevastopol	BR PLdn	WED SAT
5153.9	2049z	06 Mar	MXI	CW	Beacon	"S"	Severomorsk	BR	WED
5154.1	2050z 1949z	06 Mar 20 Apr	MXI MXI	CW CW	Beacon Beacon	"A" "A"	Astrakhan Astrakhan	BR BR	WED SAT
5154.3	1530z	19 Mar	MXI	CW	Beacon	"K"	Sent as KKK [Pause]	(Via SDR Japan) BR	TUE
5156.7	2051z 1452z 2253z	06 Mar 07 Mar 20 Apr	MX MX MX	CW CW CW	Beacon Beacon Beacon	"L" "L" "L"	St Petersburg St Petersburg St Petersburg	BR AB PLdn	WED THU SAT
5445	1925z	20 Apr	MX	CW	Beacon	"V"		BR	SAT
5590	1455z	07 Mar	MX	CW	Beacon	"V"		AB	THU
7508.7	2052z 1952z	06 Mar 20 Apr	MXI MXI	CW CW	Beacon Beacon	"D" "D"	Sevastopol Sevastopol	BR Weak BR	WED SAT
7508.9	2052z 1953z	06 Mar 20 Apr	MXI MXI	CW CW	Beacon Beacon	"S" "S"	Severomorsk Severomorsk	BR BR	WED SAT
7509	2053z 1951z	06 Mar 20 Apr	MXI MXI	CW CW	Beacon Beacon	"C" "C"	Moscow Moscow	BR BR	WED SAT
8494.7	2054z	06 Mar	MXI	CW	Beacon	"D"	Sevastopol	BR	WED
8494.9	2055z	06 Mar	MXI	CW	Beacon	"S"	Severomorsk	BR	WED
8495	1955z	20 Apr	MXI	CW	Beacon	"C"	Moscow	BR	SAT
8495.2	1602z	19 Mar	MXI	CW	Beacon	"F"	Vladivostok	(Via SDR Japan) BR	TUE
8495.3	1545z	19 Mar	MXI	CW	Beacon	"K"	Sent as KKK [Pause]	(Via SDR Japan) BR	TUE
8495.4	1602z	19 Mar	MXI	CW	Beacon	"M"	Magadan	(Via SDR Japan) BR	TUE
8497.8	2056z 1956z	06 Mar 20 Apr	MX MX	CW CW	Beacon Beacon	"L" "L"	St Petersburg St Petersburg	BR BR	WED SAT
10871.7	2057z 1957z	06 Mar 20 Apr	MXI MXI	CW CW	Beacon Beacon	"D" "D"	Sevastopol Sevastopol	Fair Strong BR	WED SAT
10871.8	1523z 0718z	10 Mar 21 Apr	MXI MXI	CW CW	Beacon Beacon	"P" "P"	Kaliningrad Kaliningrad	Strong BR	SUN SUN
10871.9	2058z 1957z 0718z	06 Mar 20 Apr 21 Apr	MXI MXI MXI	CW CW CW	Beacon Beacon Beacon	"S" "S" "S"	Severomorsk Severomorsk Severomorsk	Strong BR BR	WED SAT SUN
10872.1	1523z	10 Mar	MXI	CW	Beacon	"A"	Astrakhan	Weak BR	SUN
10872.4	1543z	19 Mar	MXI	CW	Beacon	"M"	Magadan	(Via SDR Japan) BR	TUE
13527.7	1522z 1958z	10 Mar 20 Apr	MXI MXI	CW CW	Beacon Beacon	"D" "D"	Sevastopol Sevastopol	BR Strong BR	SUN SAT
13527.9	2059z 0716z	06 Mar 21 Apr	MXI MXI	CW CW	Beacon Beacon	"S" "S"	Severomorsk Severomorsk	Weak BR	WED SUN
13528.3	1540z	19 Mar	MXI	CW	Beacon	"K"	Sent as KKK [Pause]	(Via SDR Japan) BR	TUE
13528.4	1202z	18 Mar	MXI	CW	Beacon	"M"	Astrakhan	Weak BR	MON
16331.7	1520z 1445z	10 Mar 06 Apr	MXI MXI	CW CW	Beacon Beacon	"D" "D"	Sevastopol Sevastopol	BR Gary	SUN SAT
16331.9	1521z 1445z	10 Mar 06 Apr	MXI MXI	CW CW	Beacon Beacon	"S" "S"	Severomorsk Severomorsk	BR Gary	SUN SAT
16332.0	1200z	18 Mar	MXI	CW	Beacon	"C"	Moscow	Weak BR	MON
16332.1	0715zz	21 Apr	MXI	CW	Beacon	"A"	Astrakhan	Weak BR	SUN
20047.7	1518z	10 Mar	MXI	CW	Beacon	"D"	Sevastopol	Strong BR	SUN
20047.9	1519z	10 Mar	MXI	CW	Beacon	"S"	Severomorsk	Fair BR	SUN
20048.1	0714z	21 Apr	MX	CW	Beacon	"A"	Astrakhan	Weak BR	SUN

## Oddities

### Russian Military Reorganisation – Changes to Markers & Beacons

We are grateful to Ary, (AB), for this press release from the Russian News Agency, TASS:-

26 FEB, 14:58 (TASS)

Putin re-establishes Moscow and Leningrad Military Districts — decree

The newly established Military Districts have embraced the regions previously assigned to the Western Military District and the Northern Fleet

MOSCOW, February 26. /TASS/. Russian President Vladimir Putin has signed a decree to re-establish the Moscow and Leningrad Military Districts, according to the document posted on the government's legal information web portal on Monday.

The Leningrad Military District will integrate the Republic of Karelia, the Republic of Komi, the Arkhangelsk, Vologda, Kaliningrad, Leningrad, Murmansk, Novgorod and Pskov Regions, the city of St. Petersburg and the Yamalo-Nenets Autonomous Region, the document says.

The Moscow Military District will embrace the Belgorod, Bryansk, Vladimir, Voronezh, Ivanovo, Kaluga, Kostroma, Kursk, Lipetsk, Moscow, Nizhny Novgorod, Oryol, Ryazan, Smolensk, Tambov, Tver, Tula and Yaroslavl Regions and the city of Moscow, according to the decree.

The newly established Military Districts have embraced the regions previously assigned to the Western Military District and the Northern Fleet.

The plans to set up two new Military Districts in Russia were first mentioned by Defense Minister Sergey Shoigu at the ministry's board meeting in December 2022. In turn, Russian President Vladimir Putin said in December 2023 that Russia had to re-establish the Leningrad Military District due to Finland's accession to NATO.

Ary further logged the following Markers on Tuesday, 05 March. Many of these are still active although some appear to be in flux. In addition, the 'T' Marker, which had disappeared from their old frequencies on 4183/4kHz has been logged on the new frequencies of 4326/7kHz

6402	0822z	05 Mar	'Pip' Marker
6218	0822z	05 Mar	'Pip' Marker
6230	0822z	05 Mar	'Pip' Marker
5780	0822z	05 Mar	'Pip' Marker
5838	1701z	05 Mar	'Pip' Marker
3756	1710z	05 Mar	S30 'Pip' Marker
6218	1710z	05 Mar	'Pip' Marker
3363.5	1711z	05 Mar	'Pip' Marker
4625	1712z	05 Mar	S28 – 'The Buzzer'
3243	1714z	05 Mar	'Goose' Marker
4770	1714z	05 Mar	'Alarm' Marker
4930	1716z	05 Mar	'Goose' Marker

The Air Horn channel marker is replaced by the Goose. Squeaky Wheel is gone as is the Dash on 4182 kHz. (*Refer to logs & text for later changes - Ed*).

Peter, PoSW, also noted changes to the Russian Markers with this report on the new signals heard on 6230 & 5780 kHz

A New(?) Oddity:- some variation on the channel marker "pip", perhaps:-

13-Mar-24, Wednesday 2126 UTC, 6232 kHz - plus or minus, difficult to know when the signal is absolutely tuned to a peak with a conventional receiver, strong "pip", appeared to be a quick burst of carrier modulated with some kind of tone because it was audible with the receiver in AM mode, a kind of metallic "clank" like a steel rod being tapped on an anvil, about 33 or 34 beats per minute. Usually a strong signal. Heard on most - but not all - late evenings and early mornings from mid-March and throughout April.

A similar signal found shortly after on 5782 kHz, again plus or minus – no doubt someone using SDR will be able to give the exact frequency – somewhat weaker than the one on 6232. Although they have the same characteristics the timing is not quite the same; using two receivers and monitoring over the space of a few minutes the two signals gradually moved in and out of sync with each other.

Both were still there on the evening of 25-April but were absent on the 29th.

*Thanks for the report, Peter*

**Logs of Oddities**

**'The Goose'**

3243	1714z	05 Mar	'Goose' Marker – Night Freq	USB	AB	TUE
4930	1716z	05 Mar	'Goose' Marker	USB	AB	TUE
<b>4310/4930</b>	1450z	07 Mar	'Goose' Marker '	USB	AB	THU

**'The Alarm'**

4770	1714z	05 Mar	Marker Signal (The Alarm)	USB	AB	TUE
	1450z	07 Mar	Marker Signal (The Alarm)	USB	AB	THU

**S28 'The Buzzer'**

4625	1712z	05 Mar	S28 'The Buzzer' Marker	USB	AB	TUE
	1938z	20 Apr	S28 'The Buzzer' Marker with severe QRM Music & digital bursts	USB	BR	SAT

**S30 'The Pip'**

3756	1710z	05 Mar	S30 'Pip' Marker (Night freq.)	USB	AB	TUE
	2109z	06 Mar	S30 'Pip' marker (Night freq.)	USB	BR	WED

### New Additional 'Pip' Markers

<b>5830//6218//6230</b> 2103z	(Out of sync with 3756kHz) 06 Mar	'Pip' marker	USB	BR	WED
<b>5448//5780//5838//6218//6402//6930</b> 1446z	07 Mar	'Pip' Marker	USB	AB	THU
<b>3363//5780//5838//6402//6930</b> 1932z	20 Apr	(Only 5780//6402kHz were in synch with each other)	USB	BR	SAT
<b><u>4326.1//4327.1</u></b> <b><u>'T' Marker</u></b> (New Frequencies – previously on 4183.7//4184)					
1946z	20 Apr	T Marker		BR	SAT

All logs from AB Monitored from the Netherlands. All logs from BR monitored from UK.

**Contributors:** AB, Anon, BR, Gary, Gert, HFD, PLdn, PoSW *Thank you all for your logs.*

# Voice, Polytone, Tones and Hybrids

## E06

### **E06 Mar/Apr log:**

	<b>0600z</b>	<b>16230kHz</b>	<b>0700z</b>	<b>19325kHz</b>
<b>First /Third Thursday (repeats Friday)</b>				
07/03	'864' 923 50 47562 19712 14018 16247 20460 29749 56695 15834 68062 09359 29034 80518 64146 41654 92760 24762 85191 04908 93612 24102 18139 55093 92777 66098 83872 87034 91402 66612 87358 28858 21600 18605 30384 49432 02399 65638 47829 83487 84077 17279 53412 04090 29307 48573 05851 97171 04551 50806 31358 17806 923 50 00000			
21/03	'864' 731 52 34285 23974 85125 78546 30009 61706 86055 28056 19047 02505 05099 83591 23611 86213 60400 05511 68354 26207 44393 58779 67155 12068 80943 17496 39298 59241 17363 43686 97236 16593 05973 13865 73127 67823 54898 91779 76315 87661 52796 70791 98967 38783 97194 34317 12044 20384 81131 07771 18776 04364 17782 00462 731 52 00000			
	<b>0500z</b>	<b>0600z</b>	<b>17470kHz</b>	
04/04	'951' 387 60 77985 78477 94354 41702 47791 97559 30935 85041 39628 97187 55023 53882 19076 36978 98269 49317 80843 11638 15052 22413 51127 81529 29028 75710 38906 47857 02832 80460 65832 20922 73100 20512 29443 54880 18024 98796 79345 47451 49597 67360 11082 27988 47772 66849 07364 82378 78686 86424 81346 88197 64163 80009 01651 58542 94674 99833 03806 18009 02937 33188 387 60 00000			
18/04	'951' 483 62 72738 94283 15078 61254 12577 43388 53414 33329 56456 88030 41441 90411 90967 27848 85715 82159 23741 72743 69518 68795 50017 44491 04629 98744 34544 55005 66402 02764 76008 97195 91835 03020 46158 09373 45308 60545 20832 99117 81685 09508 45060 37560 61475 51735 99444 60006 97718 09933 59990 33860 39313 63030 68582 79751 20441 12090 56294 56835 30803 50227 86719 48189 483 62 00000			
<b>Saturday</b>	<b>1600z</b>	<b>9463kHz</b>	<b>1630z</b>	<b>9073kHz</b>
09/03	'480' 726 43 32106 54549 20521 64185 31435 36857 57515 91971 62078 36832 32109 43101 31492 67458 76764 92657 53925 69198 14868 37914 92482 16240 85696 91934 70861 93932 25347 56957 70851 20808 63496 37408 13925 79356 69646 80940 71764 37984 62782 02549 41728 71596 41243 726 43 00000			
23/03	'480' 157 46 15951 26860 28742 09302 54748 81946 45730 83685 25196 07397 79613 04057 14943 85708 21405 71716 12630 84637 76287 37351 56135 74036 60497 89265 14150 20724 95025 03898 84958 80804 62565 12083 28491 05929 51572 78569 02456 51805 87362 54705 94264 29478 78593 75089 80638 75139 157 46 00000			
	<b>1600z</b>	<b>11487khz</b>	<b>1630z</b>	<b>9412kHz</b>
06/04	'480' 712 44 74523 34656 40764 48281 27953 54303 47493 47928 83869 52529 71419 16764 03012 85140 85797 26947 92595 57573 51427 16910 07343 09408 68168 23912 36082 07970 98632 04545 18617 31587 34697 92647 74892 76036 93694 91484 73139 13543 37829 93782 80745 14545 57341 03489 712 44 00000			
20/04	'480' 591 42 58748 34548 03787 98259 80360 65123 50201 24940 45816 59069 43786 51091 43987 10707 84261 75065 12972 76194 78323 48328 18487 30986 35983 25692 86532 61621 78606 25281 89769 90373 31368 84218 64808 50645 90497 49178 95072 06368 30623 61060 27089 04564 591 42 00000			

<b>Sunday</b>		<b>0730z</b>	<b>12093khz</b>	<b>0800z</b>	<b>10212kHz</b>
10/03	'480' 726 43 32106...etc	(Repeat of Saturday)			
24/03	'480' 157 46 15951...etc	(Repeat of Saturday)			
		<b>0730z</b>	<b>13945kHz</b>	<b>0800z</b>	<b>11128kHz</b>
07/04	'480' 712 44 73523...etc	(Repeat of Saturday)			
21/04	'480' 591 42 58748...etc	(Repeat of Saturday)			

<b>Saturday</b>		<b>1900z</b>	<b>7377khz</b>	<b>1930z</b>	<b>5380 kHz</b>
09/03	'262' 179 43 90478 05493 30942 01133 47019 77088 85654 19579 69809 74618 44990 43745 73297 31421 56192 87564 90697 06322 52131 84103 05970 87260 88204 63852 14019 36038 84819 60845 20051 28862 48864 13804 14035 72379 72633 54482 81187 99886 33622 00416 34446 77404 43645 179 43 00000	(Thanks to Ary)			
		<b>0800z</b>	<b>14721khz</b>	<b>0830z</b>	<b>12188kHz</b>
16/03	'262' 971 42 50814 20450 15358 62546 81692 18148 52713 55281 83248 55876 93740 35524 25904 05934 75882 45244 68299 80541 30337 65901 20057 14407 38622 20006 43312 41131 58377 18865 85302 24410 23082 79959 58504 29943 45402 62390 12591 49019 78824 93818 61925 09689 971 42 00000				
23/03	'262' 739 46 79764 02512 42192 04113 25395 85526 56474 96083 10596 51051 45654 69597 15356 56425 58417 53019 81190 82637 41777 66747 11721 30978 93071 26938 10073 03766 32369 51289 26524 36351 31220 46556 14848 72573 58699 82497 20781 00862 30663 81929 51063 93173 73175 81589 96477 13943 739 46 00000]				
		<b>1930z</b>	<b>7377khz</b>	<b>2000z</b>	<b>5380khz</b>
16/03	'262' 971 42 50814.....etc	(Repeat of above) Thanks to Ary			
23/03	'262' 739 46 79764.....etc	(Repeat of above)			

<b>Wednesday</b>		<b>1730z</b>	<b>12215kHz</b>	<b>1830z</b>	<b>9069khz</b>
20/03	'439' 157 26 26908 15021 61904 93193 82815 26572 03146 95806 97274 46921 32346 79368 07693 02126 92467 65494 28150 16987 79757 27104 54213 73020 69761 9283535404 26322 157 26 00000]1739z	(Thanks Malc)			

First + Third Thursdays in the Month 0600 + 0700 UTC Schedule:-

Missed the transmission on Thursday 7-March, completely escaped my attention that this was the first Thursday in the month until later in the morning. No problem with the repeat on the following day:-  
8-Mar-24, Friday:- 0600 UTC, 16230 kHz, call "864", DK/GC "923 923 50 50". Strong signal which was something of a surprise because throughout the winter months this first sending was often so weak as to be unreadable.  
0700 UTC, 19325 kHz, strong.

21-Mar-24:- 0600 UTC, 16230 kHz, call "864", DK/GC "731 731 52 52", strong signal, ended around 0613 UTC.  
0700 UTC, 19325 kHz, slightly weaker signal.

22-Mar-24, Friday:- A complete change from the situation 24 hours earlier, both transmissions very weak and unreadable presumably due to some kind of ionospheric disturbance; noted that on the previous evening at around 2240 UTC the Shannon VOLMET station on 5505 was a strong signal but with a very noticeable flutter on the voice which suggests auroral activity.

Moved to 0500 + 0600 UTC in April which with the changing of the clocks by one hour for British Summer Time means this schedule still appears at 6 AM and 7 AM as in the cold, wet and miserable winter months.

4-Apr-24:- 0500 UTC, 15645 kHz, call "951", DK/GC "387 387 60 60", good signal.  
0600 UTC, 17470 kHz, strong.

5-Apr-24, Friday:- 0500 UTC, 15645 kHz, strong signal with occasional fading.  
0600 UTC, 17470 kHz, weaker.

18-Apr-24:- 0500 UTC, 15645 kHz, "951", DK/GC "483 483 62 62", good signal.  
0600 UTC, 17470 kHz, strong, stayed with it until the end which was at 0614:40s UTC.

19-Apr-24, Friday:- 0500 UTC, 15645 kHz, good signal at first, became weaker.  
0600 UTC, 17470 kHz, strong signal throughout.

Saturday 1600 + 1630 UTC Schedule:-

A weekly transmission on Saturdays with call "480" had been noted in January and February at 1630 UTC which, as it turned out, was actually the second sending of a schedule with the first transmission at 1600. The voice varied, on some Saturdays the miserable sounding E06 OM got the job while on others the S06 Russian was on the mike.

9-Mar-24:- 1632 UTC, 7353 kHz, didn't expect to find this so quickly, "480", DK/GC "726 726 43 43". Inside the 41 metre internationally allocated broadcast band, side-band splash from legal occupiers on close frequencies making copy difficult at times.  
On the following Saturday, the 16th, the S06 man showed up for this schedule.

6-Apr-24:- 1606 UTC, 11487 kHz, the first sending in progress, moving higher in frequency month on month, weak signal, local RF noise interference, difficult copy, went off after 1612 UTC.  
1632 UTC, 9412 kHz, second sending in "480" call, stronger than the first sending but local noise QRM still a problem, DK/GC "712 712 44 44".

20-Apr-24:- 1600 UTC, 11487 kHz, call "480", weak, sank into noise.  
1630 UTC, 9412 kHz, over-riding local interference, DK/GC "591 591 42 42".



# E07

Logs and analysis from PoSW:

Just two E07 schedules remain, apparently. Both remain on UTC so with the start of British Summer Time and the clocks moving forwards by one hour they appear one hour later than in the winter.

Thursday + Saturday Schedule, 1410 UTC Start:-

2-Mar-24, Saturday:- 1410 UTC, 16284 kHz, "328 328 328 1" - vanished off air about half a minute in, came back after 20 seconds or so. DK/GC "839 81" x 2, same as heard on Thursday 29-Feb.

1430 UTC, 14854 kHz, strong signal.

1450 UTC, 13384 kHz, weaker.

9-Mar-24, Saturday:- 1410 UTC, 16284 kHz, "328 328 328 000", strong signal.

1430 UTC, 14854 kHz, also strong.

16-Mar-24, Saturday:- 1410 UTC, 16284 kHz, "328 328 328 1", message, DK/GC "7151 123" x 2, strong signal.

1430 UTC, 14854 kHz, very strong.

1450 UTC, 13384 kHz, strong.

23-Mar-24, Saturday:- 1410 UTC, 16284 kHz, "328 328 328 000", strong signal, missed second sending.

28-Mar-24, Thursday:- 1410 UTC, 16284 kHz, "328 328 328 1", message, DK/GC "214 75"

x 2, signal strength up and down.

1430 UTC, 14854 kHz, strong signal.

1450 UTC, 13384 kHz, also strong.

4-Apr-24, Thursday:- 1410 UTC, which is now 3.10 PM in these parts with the start of summertime, 16331 kHz, "893 893 893 000", good signal, SLT cluster on close frequency, "S" strong, "D" weaker, was there in April of last year too.

1430 UTC, 15831 kHz, good signal.

6-Apr-24, Saturday:- 1410 UTC, 16331 kHz, "893 893 893 000", strong with SLT "S" for company.

1430 UTC, 15831 kHz, weaker.

13-Apr-24, Saturday:- 1410 UTC, 16331 kHz, "893 893 893 1", weak signal with the usual SLT, DK/GC "7855 100" x 2.

1430 UTC, 15831 kHz, stronger.

1450 UTC, 14831 kHz, much stronger.

18-Apr-24, Thursday:- 1410 UTC, 16331 kHz, "893 893 893 000", S5 to S6 on my S-meter.

1430 UTC, 15831 kHz, stronger.

20-Apr-24, Saturday:- 1410 UTC, 16331 kHz, "893 893 893 000", S5 to S6 and 1430 UTC, 15831 kHz, stronger, "893 893 893 000".

Tuesday + Friday Schedule, 1500 UTC Start:-

1-Mar-24, Friday:- 1500 UTC, 14571 kHz, "584 584 584 000", strong signal.

1520 UTC, 15851 kHz, also strong.

5-Mar-24, Tuesday:- 1500 UTC, 14571 kHz, "584 584 584 1", message, DK/GC "403 77" x 2, weak signal at first then became stronger.

1520 UTC, 15851 kHz, stronger.

1540 UTC, 17451 kHz, strongest of the three transmissions.

8-Mar-24, Friday:- 1500 UTC, 14571 kHz, "584" and "403 77" again, strong signal.

1520 UTC, 15851 kHz, strong.

1540 UTC, 17451 kHz, also strong, much weaker FSK signal heard underneath.

15-Mar-24, Friday:- 1500 UTC, 14571 kHz and 1520 UTC, 15851 kHz, both strong, "584 584 584 000".

19-Mar-24, Tuesday:- 14571 kHz, "584 584 584 1", message, DK/GC "306 139" x 2, a somewhat higher group count than usual, ended 1514 UTC. Strong signal.

1520 UTC, 15851 kHz, transmission failed at 1531 UTC approx. Came back with the "584...1" routine then continued with 5Fs. Strong signal.

1540 UTC, 17451 kHz, weakest of the three, the weak FSK still underneath.

22-Mar-24, Friday:- 1500 UTC, 14571 kHz, "584" and "306 139" again, strong signal.

1520 UTC, 15851 kHz, weaker.

1540 UTC, 17451 kHz, with the weak FSK for company.

26-Mar-24, Tuesday:- 1500 UTC, 14571 kHz, "584 584 584 000", strong signal.

1520 UTC, 15851 kHz, also strong.

29-Mar-24, Friday:- 1500 UTC, 14571 kHz, strong signal, 1520 UTC, 15851 kHz, slightly weaker, "584 584 584 000".

2-Apr-24, Tuesday:- 1500 UTC, 4 PM BST, 16257 kHz, "221 221 221 1", message, DK/GC "7541 107" x 2, strong signal.

1520 UTC, 18257 kHz, weaker.

1540 UTC, 19157 kHz, very strong signal.

5-Apr-24, Friday:- 1500 UTC, 16257 kHz, "221" and "7541 107" again, strong.

1520 UTC, 18257 kHz, weaker.

1540 UTC, 19157 kHz, strong. Transmission must have failed, when checked just before 1549z was in "221..1" call mode again then back into 5Fs shortly afterwards.

9-Apr-24, Tuesday:- 1500 UTC, 16257 kHz, "221 221 221 000", strong.

1520 UTC, 18257 kHz, slightly weaker.

12-Apr-24, Friday:- 1500 UTC, 16257 kHz, strong and 1520 UTC, 18257 kHz, “221 221 221 000”.

16-Apr-24, Tuesday:- 1500 UTC, 16257 kHz, “221 221 221 1”, message, DK/GC “459 88” x 2, peaking around S7.  
 1520 UTC, 18257 kHz, also S7.  
 1540 UTC, 19157 kHz, weak.

19-Apr-24, Friday:- 1500 UTC, 16,257 kHz, “221” and “459 88” again, strong signal.  
 1520 UTC, 18257 kHz, also strong.  
 1540 UTC, 19157 kHz, third sending also strong.

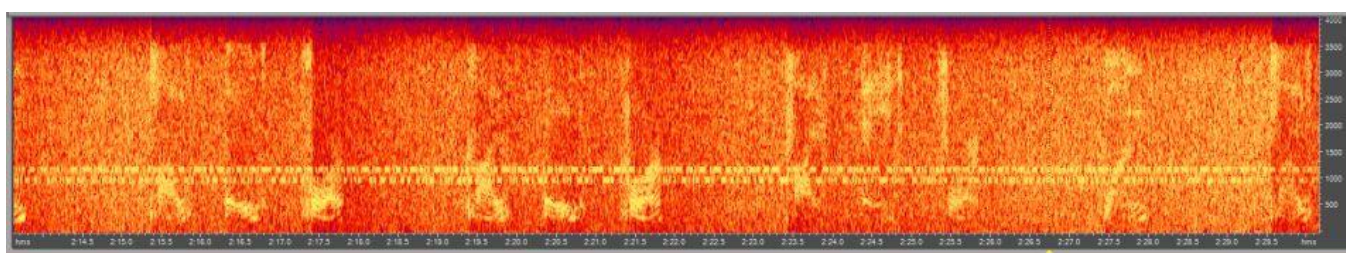
23-Apr-24, Tuesday:- 1500 UTC, 16257 kHz and 1520 UTC, 18257 kHz, both weaker than on the 19th, “221 221 221 000”.

26-Apr-24, Friday:- 1500 UTC, 16257 kHz, strong signal and 1520 UTC, 18257 kHz, weaker:- “221 221 221 000”.

**Tuesday/Friday**

**March 2024**

1500z	14571kHz	1520z	15851kHz	1540z	17451kHz
01/03	584 000				1500z Strong, 1520z Fair
05/03	584 1 403 77 84725 ... 74102 000 000				Weak



17451kHz 1540z 08/03/2024 TTYQRM2

08/03	584 1 403 77 84725 ... 74102 000 000	Fair	[PLdn had TTYQRM2 1540z as above]
15/03	584 000	Fair	
19/03	584 1 306 139 40646 ... 83020 000 000	1540z Weak, TTYQRM3, rest Fair	
22/03	584 1 306 139 40646 ... 83020 000 000	Weak	
26/03	584 000	Fair	
29/03	584 000	1500z Fair, 1520z Weak	

**April 2024**

1500z	16257kHz	1520z	18257kHz	1540z	19157kHz
02/04	221 1 7541 107 47899 ... 95545 000 000				1500z Strong, 1520z Weak, 1540z Fair
05/04	221 1 7541 107 47899 ... 95545 000 000				1540z Weak, rest Fair, 1500z QRM3 1540z failed at GRP 60 restarted 221 x 3 x 2 GRP 61 49061 to 95545 000 000
09/04	221 000				1500z Strong, 1520z Weak
12/04	221 000				1500z Fair, 1520z Weak
16/04	221 1 459 88 00504 ... 04305 000 000				1500z Fair, rest Weak
23/04	221 000				Weak, 1520z QSB3
26/04	221 000				Fair
30/04	221 1 6776 150 11335 ... 40174 000 000				Weak

Thursday/Saturday

March 2024

1410z	16284kHz	1430z	14854kHz	1450z	13384kHz
02/03		328 1 839 81 99915 ...	62547 000 000		Weak
07/03		328 000			Fair
16/03		328 1 7151 123 96669 ...	61686 000 000		1430z Weak, rest Fair
21/03		328 000			Fair
23/03		328 000			Weak
30/03		328 1 214 75 92242 ...	72497 000 000		Fair

April 2024

1410z	16331kHz	1430z	15831kHz	1450z	14831kHz
04/04		893 000			Fair
06/04		893 000			1410z Fair, 1430z Weak
11/04		893 1 7855 100 24856 ...	32387 000 000		Weak
13/04		893 1 7855 100 24856 ...	32387 000 000		Weak
18/04		893 000			Weak
20/04		893 000			Weak
25/04		893 1 103 127 29643 ...	50682 000 000		Weak
27/04		893 1 103 127 29643 ...	50682 000 000		Weak, 1410z Fair

# E11 log March/April

4181kHz	1610z	02/03 [394/00] Out 1613z S5		Malc, HfD	SAT
	1610z	06/03 [396/33 71162.....94963] Out 1620z S2		Malc	WED
	1610z	16/03 [394/00] Out 1613z S2		Malc	SAT
	1610z	20/03 [399/00] Out 1613z S4		Malc	WED
	1610z	23/03 [399/00] Out 1613z S3		Malc	SAT
	1610z	27/03 [390/00] Out 1608z S2		Malc	WED
	1610z	03/04 [394/37 09087.....46987] Out 1621z S3		Malc	WED
	1610z	10/04 [392/00] Out 1613z S2		Malc	WED
	1610z	13/04 [391/00] Out 1613z S2		Malc	SAT
	1610z	20/04 [395/00] Out 1613z S5 (Dutch SDR)		Malc	SAT
	1610z	24/04 [391/00] Out 1613z S5 (Finnish SDR)		Malc	WED
1610z	27/04 [393/00] Out 1613z S2		Malc	SAT	
4505kHz	1645z	02/03 [368/00] Out 1648z S5		Malc, HfD	SAT
	1645z	03/03 [364/00] Out 1648z S6		Malc	SUN
	1645z	09/03 [366/00]		Ary, Gary H	SAT
	1645z	10/03 [367/00] Out 1648z S4		Malc	SUN
	1645z	16/03 [368/00] Out 1648z S2		Malc	SAT
	1645z	17/03 [366/00] Out 1648z S5		Malc	SUN
	1645z	24/03 [363/00] Out 1648z S3		Malc	SUN
	1645z	23/03 [360/00] Out 1648z S3 (Dutch SDR)		Malc	SAT
	1645z	06/04 [366/00] Out 1648z S2		Malc	SAT
	1645z	13/04 [367/00] Out 1648z S2		Malc	SAT
	1645z	14/04 [364/00] Out 1648z S2		Malc	SUN
	1645z	20/04 [360/00] Out 1648z S3		Malc	SAT
	1645z	21/04 [367/00] Out 1648z S2		Malc	SUN
1645z	27/04 [368/36 63158.....99854] Out 1656z S7 (Finnish SDR)		Malc	SAT	
5176kHz	1605z	03/03 [238/00] Out 1608z S6+QRM		Malc, HfD	SUN
	1605z	05/03 [235/00] Out 1608z S3+QRM		Malc, Gary H	TUE
	1605z	10/03 [231/00] Out 1608z S5		Malc	SUN
	1605z	17/03 [231/00] Out 1533z S2+QRM		Malc	SUN
	1605z	19/03 [232/35 77753.....79626] Out 1615z S2+QRM		Malc	TUE
	1605z	26/03 [238/00] Out 1608z S4 (Dutch SDR)		Malc	TUE

1605z	02/04 [232/00] Out 1608z S2+QRM	Malc	TUE
1605z	07/04 [231/00] Out 1608z S2+QRM	Malc	SUN
1605z	09/04 [237/00] Out 1608z S3+QRM	Malc	TUE
1605z	14/04 [230/00] Out 1608z S3	Malc	SUN
1605z	16/04 [235/00] Out 1608z S7 (Finnish SDR)	Malc	TUE
1605z	23/04 [237/39 29838..... 21426] Out 1608z S7 (Finnish SDR)	Malc	TUE
1605z	30/04 [231/00] Out 1608z S2 (Polish SDR)	Malc	TUE
5371kHz	1300z 04/03 [319/00]	HfD	MON
	1300z 07/03 [314/00] Out 1303z S6 (Finnish SDR)	Mslc	THU
	0450z 11/03 [413/00]	HfD	MON
	1300z 11/03 [316/39 99671.....86290] Out 1311z S7 (Finnish SDR)	Malc	MON
	1300z 18/03 [315/00] Out 1303z S2 (Dutch SDR)	Malc	MON
	1300z 21/03 [312/00] Out 1303z S2	Malc	THU
	1300z 25/03 [314/00] Out 1303z S5 (Finnish SDR)	Malc	MON
	1300z 28/03 [319/00] Out 1303z S4 (Finnish SDR)	Malc	THU
	1300z 04/04 [310/00] Out 1303z S3 (Polish SDR)	Malc	THU
	1300z 11/04 [312/00] Out 1303z S5 (Finnish SDR)	Malc	THU
	1300z 15/04 [314/36 62698..... 60721] Out 1310z S4 (Polish SDR)	Malc	MON
	1300z 22/04 [314/00] Out 1303z S5 (Finnish SDR)	Malc	MON
	1300z 25/04 [314/00] Out 1303z S5 (Finnish SDR)	Malc	THU
	1300z 29/04 [312/00] Out 1303z S5 (Finnish SDR)	Malc	MON
5737kHz	2000z 03/03 [527/00] Out 2003z S6	Malc, HfD	SUN
	2000z 17/03 [528/35 41156.....17653] Out 2010z S6	Malc	SUN
	2000z 21/03 [521/00] Out 2003z S6	Malc, Gary H	THU
	2000z 24/03 [525/00] Out 2003z S9	Malc	SUN
	2000z 04/04 [528/34 47847 43394 97703 13781 17238 29296 44209.....15752 73646] Out 2010z S5	Gary H, Malc	THU
	2000z 11/05 [527/00] Out 2003z S4	Malc	THU
	2000z 18/04 [522/00] Out 2003z S5	Malc	THU
	2000z 21/04 [522/00] Out 2003z S6	Malc	SUN
	2000z 25/04 [522/00] Out 2003z S6	Malc	THU
	2000z 28/04 [524/00] Out 2003z S7	Malc	SUN
6807kHz	0820z 01/03 [430/00] Good	RNGB, Malc, HfD	FRI
	0820z 07/03 [435/33 25131 87743 19899 44013 21139 33962 73250 57692.....02877 04063] Good	RNGB	THU
	0820z 15/03 [434/00] Fair	RNGB	FRI
	0820z 21/03 [438/00] Out 0823z S2	Malc	THU
	0820z 22/03 [430/00] Out 0823z S2	Malc	FRI
	0820z 28/03 [438/00] Out 0823z S2	Malc	THU
	0820z 29/03 [436/00] Out 0823z S2	Malc	FRI
	0820z 04/04 [432/00] Out 0823z S2	Malc	THU
	0820z 05/04 [432/00] Out 0823z S2	Malc	FRI
	0820z 11/04 [434/33 97151.....12589] Out 0830z SS7 (Finnish SDR)	Malc	THU
	0820z 18/04 [438/00] Out 0823z S5 (Finnish SDR)	Malc	THU
	0820z 25/04 [435/00] Out 0823z S7 (Finnish SDR)	Malc	THU
	0820z 26/04 [431/00] Out 0823z S5 (Finnish SDR)	Malc	FRI
6923kHz	1715z 01/03 [977/00] Good	RNGB, HfD	FRI
	1715z 06/03 [976/00] Out 1718z S5	Malc	WED
	1715z 15/03 [978/00]	Gary H, Malc	FRI
	1715z 20/03 [977/00] Out 1718z S4	Malc	WED
	1715z 22/03 [972/00] Out 1718z S6	Malc	FRI
	1715z 27/03 [970/30 00325.....20975] Out 1725z S4	Malc	WED
	1715z 03/04 [977/00] Out 1818z S5	Malc	WED
	1715z 05/04 [970/00] Out 1718z S9	Malc	FRI
	1715z 12/04 [976/00] Out 1718z S3	Malc	FRI
	1715z 10/04 [977/00] Out 1718z S6	Malc	WED
	1715z 17/04 [976/33 34089..... 97957] Out 1725z S4	Malc	WED
	1715z 24/04 [978/00] Out 1718z S5	Malc	WED
6940kHz	0930z 06/03 [276/00] Good	RNGB, Malc	WED
	0930z 20/03 [277/00] Out 0933z S2 (Dutch SDR)	Malc	WED
	0930z 21/03 [278/00] Very weak	RNGB	THU
	0930z 27/03 [278/31 46728.....16021] Out 0933z S3 (Dutch SDR)	Malc	WED
	0930z 03/04 [275/00] Good	RNGB, Malc	WED
	0930z 11/04 [277/34 11484.....95410] Out 0940z S5 (Finnish SDR)	Malc	THU
	0930z 18/04 [276/00] Out 0933z S4 (Finnish SDR)	Malc	THU
	0930z 24/04 [279/00] Out 0933z S4 (Finnish SDR)	Malc	WED
	0930z 25/04 [277/00] Out 0933z S4 (Finnish SDR)	Malc	THU

7317kHz	1900z	04/03 [648/00] Out 1903z S9	Malc, HfD	MON
	1900z	07/03 [648/00] Out 1903z S9	Malc	THU
	1900z	11/04 [648/36 67663.....97228] Out 1910z S4	Malc	MON
	1900z	18/03 [647/00] Out 1903z S4	Malc	MON
	1900z	21/03 [641/00] Out 1903z S5	Malc	THU
	1900z	25/03 [647/00] Out 1903z S4	Malc	MON
	1900z	28/03 [648/00] Out 1903z S6	Malc	THU
	1900z	04/04 [641/00] Out 1903z S9	Malc, Gary H	THU
	1900z	08/04 [641/37 48317.....14318] Out 1911z S5	Malc	MON
	1900z	11/04 [641/00] Out 1903z S5	Malc	THU
	1900z	15/04 [641/00] Out 1903z S6	Malc	MON
	1900z	22/04 [643/00] Out 1903z S6	Malc	MON
	1900z	25/04 [640/00] Out 1903z S7	Malc	THU
	1900z	29/04 [647/00] Out 1903z S6	Malc	MON
	7864kHz	1730z	07/03 [418/34 92627.....23300] Out 1740z S4	Malc, HfD
1730z		21/03 [416/00] Out 1733z S5	Malc	THU
1730z		28/03 [412/00] Out 1733z S3	Malc	THU
1730z		04/04 [413/00] Out 1733z S3	Malc	THU
1730z		11/04 [412/40 04301.....81853] Out 1741z S5	Malc	THU
1730z		18/04 [418/00] Out 1733z S4	Malc	THU
1730z		25/04 [412/00] Out 1733z S4	Malc	THU
8180kHz	0700z	01/03 [575/00] Good	RNGB, Malc, HfD	FRI
	0700z	05/03 [570/00] Good	RNGB, Malc	TUE
	0700z	12/03 [571/00] Good	RNGB	TUE
	0700z	15/03 [571/00] Good	RNGB	FRI
	0700z	19/03 [570/39 65057 50840 37031 43932 96563 03796 24920 68266.....13259 88054] Good	RNGB, Malc	TUE
	0700z	26/03 [573/00] Strong	RNGB, Malc	TUE
	0700z	02/04 [579/00] Good	RNGB, Malc	TUE
	0700z	05/04 [570/00] Out 0703z S3	Malc	FRI
	0700z	09/04 [570/00] Good	RNGB, Malc	TUE
	0700z	12/04 [575/00] Out 0703z S4	Malc	FRI
	0700z	16/04 [575/35 67898 69334 98379 95493 44223 13626 82416 62437.....52677 53133] Good	RNGB	TUE
	0700z	23/04 [575/00] Out 0703z S4	Malc	TUE
	0700z	26/04 [575/00] Good	RNGB, Malc	FRI
	0700z	30/04 [574/00] Out 0703z S4	Malc	TUE
8423kHz	0645z	05/03 [512/31 24937.....49859] Out 0655z S6	Malc	TUE
	0645z	21/03 [510/00] Strong	RNGB	THU
	0645z	02/04 [515/00] Fair with QRM	RNGB, Malc	TUE
	0645z	04/04 [512/00] Good with QRM	RNGB, Malc	THU
	0645z	09/04 [510/00] Good with QRM	RNGB, Malc	TUE
	0645z	11/04 [510/00] Out 0648z S3	Malc	THU
	0645z	16/04 [518/31 39585 47193 35401 50617 64581 44161 09081 09645.....64749 70952] Good	RNGB, Malc	TUE
	0645z	23/04 [518/00] Out 0648z S4	Malc	TUE
	0645z	25/04 [514/00] Out 0648z S7	Malc	THU
	0645z	30/04 [514/00] Out 0648z S4	Malc	TUE
8530kHz	1910z	01/03 [612/00] Good	RNGB, Malc, HfD	FRI
	1910z	03/03 [617/00] Out 1913z S7	Malc	SUN
	1910z	15/03 [618/00] Out 1913z S6	Malc	FRI
	1910z	17/03 [617/00] Out 1913z S6	Malc	SUN
	1910z	22/03 [612/00] Out 1913z S6	Malc	FRI
	1910z	24/03 [610/00] Out 1913z S7	Malc	SUN
	1910z	29/03 [618/39 32055.....23062] Out 1921z S5	Malc	FRI
	1930z	05/04 [611/36 37285.....60044] Out 1920z S5	Malc	FRI
	1910z	12/04 [611/00] Out 1913z S9	Malc	FRI
	1910z	14/04 [611/00] Out 1913z S5	Malc	SUN
	1910z	19/04 [617/00] Out 1913z S5	Malc	FRI
	1910z	21/04 [617/00] Out 1913z S7	Malc	SUN
	1910z	28/04 [610/00] Out 1913z S5	Malc	SUN
	8680kHz	0600z	01/03 [353/00]	HfD
0600z		05/04 [352/00] Good	RNGB	FRI
0600z		07/04 [352/00] Out 0603z S3	Malc	SUN
0600z		12/04 [358/00] Out 0603z S6	Malc	FRI
0600z		14/04 [353/00] Out 0603z S5	Malc	SUN
0600z		26/04 [354/00] Good	RNGB	FRI

9079kHz	0700z	02/03 [498/00] Out 0703z S5	Malc, HfD	SAT
	0700z	09/03 [498/40 94017 41362 50330 30150 38059 35694 49383 31184.....06717 98915] Good	RNGB	SAT
	0700z	16/03 [490/00] Good	RNGB	SAT
	0700z	06/04 [497/00] Out 0703z S3	Malc	SAT
	0700z	07/04 [495/00] Out 0703z S2	Malc	SUN
	0700z	13/04 [498/40 08194.....76696] Out 0711z S3	Malc	SAT
	0700z	20/04 [498/00] Out 0703z S5	Malc	SAT
	0700z	21/04 [492/00] Out 0703z S4	Malc	SUN
	0700z	27/04 [498/00] Out 0703z S4	Malc	SAT
	0700z	28/04 [496/00] Good	RNGB	SUN
0700z	28/04 [496/00] Out 0703z S3	Malc	SUN	
9399kHz	1205z	05/03 [460/35 87512.....38500] Out 1215z S4	Malc	TUE
	1205z	19/03 [466/00] Out 1208z S2	Malc	TUE
	1205z	20/03 [464/00] Out 1208z S2	Malc	WED
	1205z	26/03 [463/00] Out 1208z S2	Malc	TUE
	1205z	27/03 [466/00] Out 1208z S4	Malc	WED
	1205z	02/04 [461/40 02566 43270 73496 37007 63363 18865 68811 97596.....42369 57947] Out 1216z	RNGB, Malc	TUE
	1205z	09/04 [462/00] Out 1208z S3	Malc	TUE
	1205z	10/04 [461/00] Out 1208z S2	Malc	WED
	1205z	16/04 [463/00] Out 1208z S2	Malc	TUE
	1205z	17/04 [462/00] Out 1208z S2	Malc	WED
	1205z	23/04 [465/00] Out 1208z S2	Malc	TUE
	1205z	24/04 [461/00] Out 1208z S3	Malc	WED
9951kHz	1000z	01/03 [306/00] Good	RNGB, Malc, HfD	FRI
	1000z	05/03 [302/00] Good	RNGB	TUE
	1000z	12/03 [308/28 87266 93944 25308 40441 15113 00221 01204.....08161 99349] Good	RNGB	TUE
	1000z	19/03 [306/00] Out 1003z S4	Malc	TUE
	1000z	22/03 [307/00] Out 1003z S3	Malc	FRI
	1000z	29/03 [304/00] Out 1003z S3	Malc	FRI
	1000z	02/04 [309/37 85485.....56757] Out 1010z S3	Malc	TUE
	1000z	09/04 [309/00] Out 0903z S3	Malc	TUE
	1000z	12/04 [302/00] Out 1003z S3	Malc	FRI
	1000z	16/04 [302/00] Out 1003z S3	Malc	TUE
	1000z	19/04 [300/00] Out 1003z S3	Malc	FRI
	1000z	23/04 [304/00] Out 1003z S3	Malc	TUE
	1000z	26/04 [306/00] Out 1003z S5	Malc	FRI
1000z	30/04 [302/00] Out 1003z S4	Malc	TUE	
10200kHz	1045z	04/03 [693/28 05715 06676 61070 26877 76660 74030 55250.....84029 83541] Out 1048z S5	RNGB, Malc, HfD	MON
	1045z	11/03 [694/00] Out 1048z S4	Malc	MON
	1045z	18/03 [690/00] Out 1048z S6	Malc	MON
	1045z	20/03 [692/00] Out 1048z S4	Malc	WED
	1045z	25/03 [691/00] Out 1045z S5	Malc	MON
	1045z	27/03 [696/00] Out 1048z S4	Malc	WED
	10213kHz	0745z	04/03 [264/38 92109 53714 64683 39497 78603 51307 93106 36083.....53367 49730] Fair	RNGB, Malc
0745z		11/03 [267/00] Good	RNGB, Malc	MON
0745z		18/03 [262/00] Out 0748z S7	Malc	MON
0745z		25/03 [268/00] Out 0748z S9	Malc	MON
0745z		01/04 [269/00] Good	RNGB	MON
0745z		08/04 [264/00] Out 0748z S7	Malc	MON
0745z		15/04 [269/00] Out 0748z S4	Malc	MON
0745z		22/04 [269/32 43839.....54288] Out 0755z S3	Malc	MON
0745z	29/04 [261/00] Out 0748z S6+QRM	Malc	MON	
10330kHz	1530z	07/03 [264/38 92109.....49730] Out 1541z S7	Malc	THU
	1530z	28/03 [264/00] Out 1533z S6	Malc	THU
	1530z	04/04 [261/00]	Gary H	THU
	1530z	11/04 [266/00] Out 1533z S6	Malc, Gary H	THU
	1530z	18/04 [269/00] Out 1533z S6	Malc	THU
	1530z	25/04 [269/32 43939.....54288] Out 1540z S7	Malc	THU
11116kHz	1815z	01/03 [921/00]	RNGB, Malc, HfD	FRI
	1815z	03/03 [922/00] Out 1818z S6	Malc	SUN
	1815z	10/03 [921/00] Out 1818z S5	Malc	SUN
	1815z	15/03 [920/31 11705.....13835] Out 1824z S6	Malc	FRI
	1815z	22/03 [927/00] Out 1818z S5	Malc	FRI
	1815z	24/03 [924/00] Out 1818z S3	Malc	SUN
	1815z	29/03 [929/00] Out 1818z S9	Malc	FRI
	1815z	05/04 [920/00] Out 1818z S7	Malc	FRI

1815z	07/04 [920/00] Out 1818z S8	Malc	SUN
1815z	12/04 [926/00] Out 1818z S5	Malc	FRI
1815z	14/04 [929/00] Out 1828z S7	Malc	SUN
1815z	19/04 [926/00] Out 1818z S7	Malc	FRI
1815z	21/04 [927/00] Out 1818z S5	Malc	SUN
1815z	28/04 [929/30 80775.....79232] Out 1824z S7	Malc	SUN
11581kHz 0315z	04/03 [250/00]	HfD	MON
12202kHz 0845z	04/03 [718/00] Out 0848z S3+QRM	Malc, HfD	MON
0845z	06/03 [711/00] Out 0848z S5	Malc	WED
0845z	11/03 [718/36 71886.....82834] Out 0855z S5	Malc	MON
0845z	18/03 [714/00] Out 0848z S5	Malc	MON
0845z	20/03 [716/00] Out 0838z S5	Malc	WED
0845z	25/03 [711/00] Out 0848z S3	Malc	MON
0845z	27/03 [711/00] Out 0848z S5	Malc	WED
0845z	03/04 [714/35 03071.....26051] Out 0855z S5	Malc	WED
0845z	08/04 [718/00] Out 0848z S4 QRM S9	Malc	MON
0845z	10/04 [715/00] Out 0848z S6	Malc	WED
0845z	22/04 [715/00] Out 0848z S4	Malc	MON
0845z	24/04 [714/00] Out 0848z S3	Malc	WED
0845z	29/04 [713/00] Out 0848z S8	Malc	MON
12385kHz 1045z	03/04 [696/00] Strong	RNGB, Malc	WED
1045z	08/04 [698/00]	HfD	MON
1045z	10/04 [691/00] Out 1048z S9	Brixmis	WED
1045z	15/04 [693/30 73601.....69924] Out 1054z S3	Malc	MON
1045z	22/04 [697/00] Out 1048z S9	Malc	MON
1045z	24/04 [697/00] Out 1048z S5	Malc	WED
1045z	29/04 [696/00] Out 1048z S6	Malc	MON
12530kHz 1230z	05/03 [338/35 39239.....48665] Out 1240z S4	Malc, HfD	TUE
1230z	12/03 [331/00] Good	RNGB	TUE
1230z	19/03 [330/00] Out 1233z S5	Malc	TUE
1230z	21/03 [337/00] Out 1233z S3	Malc	THU
1230z	26/03 [330/00] Out 1233z S4	Malc	TUE
1230z	28/03 [331/00] Out 1233z S4	Malc	THU
1230z	09/04 [332/00] Out 1233z S3	Malc	TUE
1230z	11/04 [331/00] Out 1233z S3	Malc	THU
1230z	16/04 [331/00] Out 1233z S7	Malc	TUE
1230z	23/04 [337/31 49394.....86102] Out 1240z S7	Malc	TUE
1230z	30/04 [330/00] Out 1233z S4	Malc	TUE
13117kHz 0900z	04/03 [532/00]	HfD	MON
0900z	06/03 [530/00] Out 0903z S4	Malc	WED
0900z	11/03 [538/00] Strong	RNGB, Malc	MON
0900z	18/03 [538/36 47668.....16201] Out 0910z S9	Malc	MON
0900z	25/03 [534/00] Out 0903z S2	Malc	MON
0900z	27/03 [530/00] Out 0903z S7	Malc	WED
0900z	01/04 [530/00] Good	RNGB	MON
0900z	03/04 [534/00] Strong	RNGB, Malc	WED
0900z	08/04 [534/36 70220.....11969] Out 0910z S5	Malc	MON
0900z	15/04 [538/00] Out 0903z S9	Malc	MON
0900z	17/04 [534/00] Good	RNGB, Malc	WED
0900z	22/04 [534/00] Out 0903z S4	Malc	MON
0900z	24/04 [537/00] Out 0903z S7	Malc	WED
0900z	29/04 [532/00] Out 0903z S6	Malc	MON
13470kHz 1745z	03/03 [248/00] Out 1748z S6	Malc, HfD	SUN
1745z	04/03 [244/00] Out 1748z S9	Malc	MON
1745z	10/03 [240/00] Out 1748z S3	Malc	SUN
1745z	11/04 [242/00] Out 1748z S4	Malc	MON
1745z	17/03 [249/00] Out 1748z S8	Malc	SUN
1745z	18/03 [248/38 30831.....55587] Out 1756z S5	Malc	MON
1745z	25/03 [245/00] Out 1748z S3	Malc	MON
1745z	07/04 [249/00] Out 1748z S9	Malc	SUN
1745z	14/04 [247/00] Out 1748z S7	Malc	SUN
1745z	15/04 [240/00] Out 1748z S7	Malc	MON
1745z	21/04 [240/00] Out 1748z S4	Malc	SUN
1745z	22/04 [245/31 76080.....09406] Out 1755z S7	Malc	MON
1745z	29/04 [246/00] Out 1848z S5	Malc	MON

14865khz	0745z	05/03 [224/00] Fair		RNGB, Malc, HfD	TUE
	0745z	07/03 [223/00] Good		RNGB, Malc	THU
	0745z	12/03 [221/35 85937 03235 74650 91717 16590 63585 47749 35346.....41917 14033] Good		RNGB	TUE
	0745z	19/03 [227/00] Fair		RNGB, Malc	TUE
	0745z	21/03 [228/00] Good		RNGB, Malc	THU
	0745z	26/03 [224/00] Fair		RNGB, Malc	TUE
	0745z	28/03 [224/00] Out 0748z S5		Malc	THU
	0745z	02/04 [221/40 26555 18245 34792 64659 57477 73147 19430 72398..... 69964 80808] Fair		RNGB, Malc	TUE
	0745z	09/04 [229/00] Out 0748z S4		Malc	TUE
	0745z	11/04 [228/00] Out 0748z S3		Malc	THU
	0745z	16/04 [229/00] Out 0748z S5		Malc	TUE
	0745z	18/04 [220/00] Out 0748z S4		Malc	THU
	0745z	23/04 [228/00] Out 0748z S8		Malc	TUE
	0745z	25/04 [220/00] Out 0748z S7		Malc	THU
	0745z	30/04 [223/00] Out 0748z S6		Malc	TUE
14972kHz	1430z	02/03 [917/00] Out 1433z S3		Malc,,HfD	SAT
	1430z	16/03 [915/00] Out 1433z S4		Malc	SAT
	1430z	23/03 [910/38 13354.....78375] Out 1441z S5		Malc	SAT
	1430z	02/04 [917/00] Out 1433z S6		Malc, Gary H	TUE
	1430z	06/04 [912/00] Out 1433z S4		Malc, Gary H	SAT
	1430z	09/04 [912/37 31003.....72486] Out 1441z S6		Malc	TUE
	1430z	16/04 [919/00]		Gary H	TUE
	1430z	20/04 [910/00] Out 1433z S7		Malc	SAT
	1430z	23/04 [910/00] Out 1433z S6		Malc	TUE
	1430z	27/04 [912/00] Out 1433z S4 (Qatar SDR)		Malc	SAT
	1430z	30/04 [915/00] Out 1433z S4		Malc	TUE
15632kHz	0715z	04/03 [750/00] Fair		RNGB, Malc, HfD	MON
	0715z	06/03 [753/00] Fair		RNGB, Malc	WED
	0715z	11/03 [750/00] Fair		RNGB, Malc	MON
	0715z	18/03 [754/36 44584 33655 57659 91926 89524 24255 50312 68391.....19424 54756] Fair		RNGB	MON
	0715z	25/03 [751/00] Out 0718z S4 (Dutch SDR)		Malc	MON
	0715z	27/03 [755/00] Good		RNGB, Malc	WED
15720khz	0715z	01/03 [635/00]		Ary, HfD	FRI
	0715z	05/03 [639/00] Fair		RNGB, Malc	TUE
	0715z	08/03 [639/00] Good		RNGB	FRI
	0715z	12/03 [630/00] Fair		RNGB	TUE
	0715z	15/03 [633/00] Fair with heavy QRM		RNGB	FRI
	0715z	19/03 [631/00] Good		RNGB, Malc	TUE
	0715z	22/03 [636/00] Good		RNGB, Malc	FRI
	0715z	26/03 [633/31 48495 34687 46988 12128 57035 04117 01073 57016.....28439 53095] Fair		RNGB, Malc	TUE
	0715z	05/04 [630/35 91964 58448 99562 38175 15722 71359 30468.....44045 99976]		RNGB, Malc	FRI
	0715z	09/04 [636/00] Fair		RNGB	TUE
	0715z	09/04 [636/00] Out 0718z S5		Malc	TUE
	0715z	12/04 [633/00] Out 0718z S9		Malc	FRI
	0715z	16/04 [633/00] Out 0718z S2		Malc	TUE
	0715z	19/04 [636/00] Out 0718z S6		Malc	FRI
	0715z	23/04 [639/00] Out 0718z S9		Malc	TUE
	0715z	26/04 [631/00] Fair		RNGB, Malc	FRI
	0715z	30/04 [637/00] Out 0718z S6		Malc	TUE
17410kHz	0745z	01/03 [343/00] Fair		RNGB, Malc, HfD	FRI
	0745z	06/03 [340/00] Weak		RNGB, Malc	WED
	0745z	13/03 [342/00] Fair		RNGB	WED
	0745z	15/03 [344/00] Weak		RNGB	FRI
	0745z	20/03 [344/00] Out 0748z S6		Malc	WED
	0745z	22/03 [342/00] Strong (Polish SDR)		RNGB	FRI
	0745z	27/03 [347/34 73286 07259 73364 59482 43553 83631 80766.....11307 91263] Very weak		RNGB, Malc	WED
	0745z	03/04 [342/00] Out 0748z S4 (Finnish SDR)		Malc	WED
	0745z	05/04 [346/00] Weak		RNGB	FRI
	0745z	10/04 [349/00] Out 0748z S5		Malc	WED
	0745z	12/04 [344/00] Out 0748z S5 (Polish SDR)		Malc	FRI
	0745z	17/04 [346/00] Out 0748z S7 (Polish SDR)		Malc	WED
	0745z	19/04 [340/00] Out 0748z S4 (Finnish SDR)		Malc	FRI
	0745z	24/04 [344/33 18133.....82150] Out 0755z S2		Malc	WED
18168kHz	0845z	05/03 [150/00] Out 0848z S3 (Dutch SDR)		Malc, HfD	TUE
	0845z	07/03 [152/00] Fair		RNGB, Malc	THU
	0845z	12/03 [155/35 91767 36694 86871 72949 65237 05181 27358 90754.....80347 95351] Good		RNGB	TUE
	0845z	19/03 [155/00] Out 0848z S7		Malc	TUE



0845z	21/03 [159/00]	Fair			RNGB, Malc	THU
0845z	26/03 [154/00]	Fair			RNGB, Malc	TUE
0845z	28/03 [154/00]	Out 0848z S7			Malc	THU
0845z	02/04 [159/35 31919 18607 68292 08591 41571 68340 92643 18518.....87908 41152]	Fair			RNGB, Malc	TUE
0845z	09/04 [150/00]	Weak			RNGB	TUE
0845z	11/04 [155/00]	Out 0848z S3	(Finnish SDR)		Malc	THU
0845z	16/04 [156/00]	Out 0848z S2	(Finnish SDR)		Malc	TUE
0845z	18/04 [159/00]	Out 0848z S2			Malc	THU
0845z	23/04 [151/00]	Out 0848z S2			Malc	TUE
0845z	30/04 [151/00]	Out 0848z S4			Malc	TUE
19184kHz	0820z	05/03 [138/00]	Out 0823z S3	(Dutch SDR)	Malc, HfD	TUE
	0820z	06/03 [132/00]	Weak		RNGB, Malc	WED
	0820z	12/03 [135/30 69691 77793 68923 37046 83114 14322 25471 90333.....03781 03513]	Fair		RNGB	TUE
	0820z	19/03 [134/00]	Weak		RNGB, Malc	TUE
	0820z	20/03 [134/00]	Out 0823z S2	(Dutch SDR)	Malc	WED
	0820z	26/03 [133/00]	Out 0823z S3	(Finnish SDR)	Malc	TUE
	0820z	27/03 [133/00]	Out 0823z S2	(Dutch SDR)	Malc	WED
	0820z	02/04 [130/00]	Fair with heavy QRM		RNGB	TUE
	0820z	03/04 [134/00]	Good	(Polish SDR)	RNGB, Malc	WED
	0820z	09/04 [136/00]	Out 0823z S3	(Finnish SDR)	Malc	TUE
	0820z	10/04 [134/00]	Out 0823z S4	(Finnish SDR)	Malc	WED
	0820z	16/04 [133/00]	Out 0823z S2	(Finnish SDR)	Malc	TUE
	0820z	23/04 [136/35 06876.....88809]	Out 0831z S5	(Polish SDR)	Malc	TUE
	0820z	30/04 [130/00]	Out 0823z S5	(Polish SDR)	Malc	TUE
19515kHz	0600z	04/03 [949/00]			HfD	MON
	0715z	01/04 [755/34 35220 47018 56460 84798 10594 28198 03356 89647.....01369 18716]			RNGB	MON
	0600z	03/04 [945/00]	Weak		RNGB	WED
	0600z	08/04 [941/00]	Weak		RNGB	MON
	0715z	08/04 [751/00]	Out 0718z S3	(Finnish SDR)	Malc, HfD	MON
	0600z	10/04 [949/00]	Weak		RNGB	WED
	0715z	10/04 [759/00]	Out 0718z S2		Malc	WED
	0715z	15/04 [750/00]	Weak		RNGB, Malc	MON
	0600z	17/04 [948/25 67324 48269 38436 13116 62812 50784 00368 17418.....52289 17674]	Fair		RNGB	WED
	0715z	17/04 [755/00]	Out 0718z S2		Malc	WED
	0715z	22/04 [759/00]	Out 0718z S2	(Finnish SDR)	Malc	MON
	0600z	24/04 [944/00]	Weak		RNGB	WED
	0715z	24/04 [754/00]	Out 0718z S4	(Polish SDR)	Malc	WED
	0715z	29/04 [754/00]	Out 0718z S3	(Polish SDR)	Malc	MON
20170kHz	0830z	01/03 [189/00]	Fair		RNGB, Malc, HfD	FRI
	0830z	04/03 [189/24 75677 05766 82227 19595 44796 29699.....12835 96925]	Very weak		RNGB, Malc	MON
	0830z	11/03 [181/00]	Weak		RNGB, Malc	MON
	0830z	18/03 [188/00]	Out 0833z S8		Malc	MON
	0830z	22/03 [181/00]	Weak		RNGB, Malc	FRI
	0830z	25/03 [188/00]	Out 0833z S3	(Dutch SDR)	Malc	MON
	0830z	29/03 [182/00]	Out 0833z S3+QRM	(Polish SDR)	Malc	FRI
	0830z	01/04 [185/00]	Weak		RNGB	MON
	0830z	05/04 [181/00]	Out 0833z S7		Malc	FRI
	0830z	08/04 [185/30 87960.....78935]	Out 0840z S3	(Finnish SDR)	Malc	MON
	0830z	19/04 [184/00]	Out 0833z S3	(Finnish SDR)	Malc	FRI
	0830z	22/04 [189/00]	Out 0833z S2		Malc	MON
	0830z	26/04 [188/00]	Out 0833z S4	(Finnish SDR)	Malc	FRI
	0830z	29/04 [185/00]	Out 0833z S2	(Polish SDR)	Malc	MON

### From PoSW

5737 kHz 2000 UTC

3-Mar-24, Sun:- "527/00"

7-Mar-24, Thu:- "525/00"

10-Mar-24, Sun:- "525/00"

14-Mar-24, Thu:- "528/35", message, "Out" at 2010:30s UTC.

17-Mar-24, Sun:- "528/35" again.

24-Mar-24, Sun:- "525/00"

28-Mar-24, Thu:- "521/00"

7-Apr-24, Sun:- "528/34", message.

18-Apr-24, Thu:- "522/00"

21-Apr-24, Sun:- "522/00"

25-Apr-24, Thu:- "522/00"

6923 kHz 1715 UTC

6-Mar-24, Wed:- "976/00"  
13-Mar-24, Wed:- "977/00"  
3-Apr-24, Wed:- "977/00"  
10-Apr-24, Wed:- "977/00"  
24-Apr-24, Wed:- "978/00"

7317 kHz 1900 UTC

4-Mar-24, Mon:- "648/00"  
7-Mar-24, Thu:- "648/00"  
11-Mar-24, Mon:- "648/36", message, "Out" at 1910:19s UTC.  
14-Mar-24, Thu:- "648/36" again.  
21-Mar-24, Thu:- "641/00"  
25-Mar-24, Mon:- "647/00"  
1-Apr-24, Mon:- "648/00"  
4-Apr-24, Thu:- "641/00"  
8-Apr-24, Mon:- "641/37", message, "Out" at 1910:30s UTC.  
11-Apr-24, Thu:- "641/37" again.  
22-Apr-24, Mon:- "643/00"  
25-Apr-24, Thu:- "640/00"

7864 kHz 1730 UTC

7-Mar-24, Thu:- "419/34", message, "Out" just after 1740 UTC.  
21-Mar-24, Thu:- "416/00"  
28-Mar-24, Thu:- "412/00"  
4-Apr-24, Thu:- "413/00"  
11-Apr-24, Thu:- "412/40", message, "Out" at 1741:13s UTC.  
18-Apr-24, Thu:- "418/00"  
25-Apr-24, Thu:- "412/00"

8180 kHz 0700 UTC

5-Mar-24, Tue:- "570/00"  
2-Apr-24, Tue:- "579/00"  
5-Apr-24, Fri:- "570/00"  
12-Apr-24, Fri:- "575/00"  
16-Apr-24, Tue:- "575/35", "Out" at 0710:15s UTC.  
19-Apr-24, Fri:- "575/35" again.  
23-Apr-24, Tue:- "575/00"

8530 kHz 1910 UTC

3-Mar-24, Sun:- "617/00"  
22-Mar-24, Fri:- "612/00"  
31-Mar-24, Sun:- "618/39", message, "Out" at "1920:55s UTC.  
7-Apr-24, Sun:- "611/36", message.  
19-Apr-24, Fri:- "617/00"  
21-Apr-24, Sun:- "617/00"

12202 kHz 0845 UTC

4-Mar-24, Mon:- "718/00"  
11-Mar-24, Mon:- "718/36", message, "Out" just before 0855:30s UTC.  
18-Mar-24, Mon:- "714/00"  
25-Mar-24, Mon:- "711/00"  
27-Mar-24, Wed:- "711/00"  
1-Apr-24, Mon:- "714/34", message.  
8-Apr-24, Mon:- "718/00"  
10-Apr-24, Wed:- "715/00"  
15-Apr-24, Mon:- "710/00"  
17-Apr-24, Wed:- "716/00"  
22-Apr-24, Mon:- "713/00"  
24-Apr-24, Wed:- "714/00"

13470 kHz 1745 UTC

4-Mar-24, Mon:- "244/00"  
11-Mar-24, Mon:- "242/00"  
17-Mar-24, Sun:- "249/00"  
18-Mar-24, Mon:- "248/38", message, "Out" at 1756 UTC.  
25-Mar-24, Mon:- "245/00"

7-Apr-24, Sun:- "249/00"  
 15-Apr-24, Mon:- "240/00"  
 21-Apr-24, Sun:- "240/00"  
 22-Apr-24, Mon:- "245/00"

14865 kHz 0745 UTC

14-Mar-24, Thu:- "221/35", message, "Out" at 0755:20s UTC.  
 19-Mar-24, Tue:- "227/00".  
 26-Mar-24, Tue:- "224/00"  
 28-Mar-24, Thu:- "224/00"  
 9-Apr-24, Tue:- "229/00"  
 16-Apr-24, Tue:- "229/00"  
 23-Apr-24, Tue:- "228/00"

14972 kHz 1430 UTC

2-Mar-24, Sat:- "917/00"  
 9-Mar-24, Sat:- "918/00"  
 16-Mar-24, Sat:- "915/00"  
 23-Mar-24, Sat:- "910/00"  
 6-Apr-24, Sat:- "912/00"  
 9-Apr-24, Tue:- "912/37", message, "Out" at 1440:35s UTC.  
 13-Apr-24, Sat:- "912/37" again.  
 16-Apr-24, Tue:- "919/00"  
 20-Apr-24, Sat:- "910/00"  
 23-Apr-24, Tue:- "910/00"

17410 kHz 0745 UTC

8-Mar-24, Fri:- "347/00"  
 20-Wed-24, Wed:- "344/00", weak signal and there was nothing heard at all on Wednesdays 27-March and 3-April. Very weak signal heard on Friday 29-March.  
 5-Apr-24, Fri:- "346/00", strong signal, first time for while anything heard from this one, presumably all down to the vagaries of propagation.  
 10-Apr-24, Wed:- "349/00", wide variations in signal strength.

## S06

### S06 log Mar/Apr

Friday 1st & 3rd	2000z	9925khz	2100z	7495kHz
01/03 '842' 00000				
15/03 '842' 00000				
	1900z	9925khz	2000z	7505khz
05/04 '842' 00000				
19/04 '842' 00000	(used 7510kHz)			
Wednesday	0930z	13547kHz	1030z	12093kHz
06/03 '480' 195 43 09850 39720 83058 96753 37597 98018 02672 35027 16512 18686 09385 17420 69321 40594 74823 72419 62891 03902 58183 30641 79790 61790 47130 60617 37430 70436 57126 54380 03584 05130 96090 51426 59125 34812 43413 70108 25830 23895 34854 32765 76353 23210 59435 195 43 00000				
27/03 '480' 923 46 57410 to 89506 923 46 00000] 0943z	(Thanks Malc)			
03/04 '480' 539 41 58198 60797 09721 74936 64629 39531 16580 60560 93468 73873 97342 98939 26148 78629 09259 37362 45604 03289 93423 24182 08590 91839 69380 85201 68486 09809 36743 30124 61314 15723 15854 61585 64179 14626 38213 97165 20350 93070 78974 18391 95364 539 41 00000				
10/04 '480' 936 45 78413 23040 85868 98079 75727 50716 18973 10941 69737 43740 01096 32839 56161 31017 47136 14976 17826 03747 41235 04842 12413 86378 96236 46101 60258 30746 15847 56970 98753 08594 41570 37381 84647 38260 93604 04625 76429 70937 63509 89248 34078 37054 38514 23879 936 45 00000				
17/04 '480' 236 47 12768 40125 35079 50736 34856 16569 62606 63695 79254 01470 29013 45862 34787 72851 62672 78904 90813 81619 12406 05414 93809 97670 35636 18497 79718 91568 20869 49284 84251 65180 83031 52093 43621 35863 34735 72670 16814 31527 29894 90868 92415 12508 54079 89070 32748 90150 63845 236 47 00000				
24/04 '480' 627 43 02170 58970 73720 89034 76217 61374 89696 39157 45930 42852 78981 23796 24916 82651 29196 07570 43586 14347 81517 09142 16758 02391 71586 51672 60653 43909 84152 87563 62569 89759 97917 59246 31507 70436 13720 57172 60147 69250 96097 76065 62397 80214 32386 627 43 00000				

<b>Saturday</b>		<b>1600z</b>	<b>9463khz</b>	<b>1630z</b>	<b>9073kHz</b>
16/03	'480' 632 41 92616 14914 64186 07934 09363 86153 96061 13750 89869 09373 98286 67538 06257 16567 74393 94525 16192 10721 90842 07897 96507 85693 09870 84809 28983 37085 90818 57392 75974 32532 87187 32585 81862 20894 18328 16847 24948 27989 70137 17260 16830 632 41 00000				
30/03	'480' 761 44 25362 92681 31347 28402 24213 40546 56591 73568 91549 18634 23481 93945 24829 21518 42920 97640 23230 29616 48613 26272 35708 19524 37826 30635 52184 24048 03897 10685 61598 93262 98951 85032 20601 52081 75357 98420 14629 21348 53492 93413 89532 03852 83654 46575 761 44 00000				
		<b>1600z</b>	<b>11487kHyz</b>	<b>1630z</b>	<b>9412kHz</b>
13/04	'480' 751 42 59079 23040 07305 47092 58606 46325 53670 71432 76015 51570 15638 02727 74315 94510 08374 40905 38401 18962 06518 89861 68414 65383 71472 09354 95125 28450 50628 80424 54632 30239 50136 38403 84620 46041 34707 34094 85387 16816 23542 24809 72587 69874 751 42 00000				
27/04	'480' 319 45 50273 54250 82137 85381 39327 93549 64684 58950 40751 14648 96194 27372 41026 29516 19541 29256 58129 34356 30186 53240 20734 30261 81275 65736 79693 21457 52307 37376 81835 65384 29637 46925 30940 69781 63020 81875 17917 07231 20570 84030 13205 06319 49826 31349 05648 319 45 00000				
<b>Sunday</b>		<b>0730z</b>	<b>12093kHz</b>	<b>0800z</b>	<b>10212kHz</b>
03/03	'480' 637 45 54834 21584 54234 51594 91979 92101 63512 56498 61534 67148 58957 26364 89231 52524 05101 64965 42053 92370 14319 61057 04620 32626 41804 95917 02492 61589 15783 12145 20391 20672 27867 04978 07813 60458 81619 05657 84673 37418 31949 96178 87815 48597 53247 37507 32827 637 45 00000				
17/03	'480' 632 41 92616.....etc	(Repeat of Saturday)			
		<b>0730z</b>	<b>13945kHz</b>	<b>0800z</b>	<b>11128kHz</b>
14/04	'480' 751 42 59079.....etc	(Repeat of Saturday)			
28/04	'480' 319 45 50273.....etc	(Repeat of Saturday)			
<b>S06g</b>		<b>1400z</b>	<b>19948kHz</b>	<b>1500z</b>	<b>17516khz</b>
20/03	'539' x 3 60199 764 21 67156 04241 69230 90484 94096 25382 94940 98581 83284 76076 09652 52361 25843 35153 47619 95787 83286 06032 15313 43887 38993 764 21 00000]			Ended 1407 S5	(Dutch SDR) Malc WED

and S06 from PoSW:

First + Fridays in the Month Schedule:-

Nothing found on the first Friday in March, the 1st.

15-Mar-24:- 2100 UTC, just after, 7495 kHz, "842 842 842 00000", not very strong. Must be the second sending, unable to find a transmission at 2000z.

Moved by one hour in April:-

5-Apr-24:- 2000 UTC, 7505 kHz, ten higher than last time, "842 842 842 00000". Nothing found at 1900 UTC, probably a couple of MHz higher.

19-Apr-24:- 1903 UTC, 9925 kHz, first sending found with a minute to go, very weak made worse by local interference, could just identify the S06 OM and the "null" x 5 of the usual "no message" routine.

2000 UTC, 7510 kHz, another slight change in frequency, "842 842 842 00000", good signal.

Saturday 1600 + 1630 UTC Schedule:-

A weekly schedule with call "480" which appears to alternate between the E06 English Man voice and the S06 Russian; had been noted on Saturday 9-March after 1630z on 7353 kHz with E06, heard on some other Saturdays with S06:-

16-Mar-24:- 1600 UTC, after, 9463 kHz, search for a first sending on a higher frequency, weak just about readable over strong local RF noise interference, found in time to hear DK/GC "632 632 41 41".

1630 UTC, 7353 kHz, second sending on frequency used by E06 on the 9th, interference from broadcast stations on close frequencies.

30-Mar-24:- 1600 UTC, 9463 kHz, very weak signal, could just hear the "480" call.

1630 UTC, 7353 kHz, also weak, strong broadcast interference, difficult copy, GC "44" (?).

27-Apr-24:- 1600 UTC, 11487 kHz, found a couple of minutes in just about over-riding local interference but became weaker, GC "45".

1630 UTC, 9412 kHz, stronger, DK/GC "319 319 45 45", became weaker.

Update:- Just noticed that this schedule is shown in the prediction list of Newsletter141; frequencies for April 11487/9412 as above but those for March changed from the predicted 10755/9073.

# S11a log March/April

6433kHz	0830z	02/03 [377/00] Good	RNGB, Malc, HfD	SAT
	0830z	03/03 [376/00] Strong	RNGB	SUN
	0830z	09/03 [376/00] Good	RNGB	SAT
	0830z	10/03 [377/00] Good	RNGB, Malc	SUN
	0830z	16/03 [377/00] Konyetz 0833z S3	Malc	SAT
	0830z	17/03 [370/00] Good	RNGB, Malc	SUN
	0830z	23/03 [372/31 60249.....29231] Konyetz 0840z S3	Malc	SAT
	0830z	24/03 [372/00] Konyetz 0833z S2	Malc	SUN
	0830z	06/04 [378/00] Konyetz 0833z S2	Malc	SAT
	0830z	07/04 [372/00] Konyetz 0833z S3	Malc	SUN
	0830z	13/04 [372/00] Konyetz 0833z S3	Malc	SAT
	0830z	14/04 [370/00] Konyetz 0833z S2	Malc	SUN
	0830z	20/04 [370/40 62399.....49065] Konyetz 0843z S2	Malc	SAT
	0830z	27/04 [371/00] Konyetz 0833z S3	Malc	SAT
	0830z	28/04 [373/00] Konyetz 0833z S2	Malc	SUN
6480kHz	0915z	01/03 [480/00] Konyetz 0918z S2	Malc, HfD	FRI
	0915z	04/03 [487/36 15978.....88496] Konyetz 0926z S4	Malc	MON
	0915z	11/04 [482/00] Konyetz 0918z S2	Malc	MON
	0915z	18/03 [485/00] Konyetz 0918z S2	Malc	MON
	0915z	25/03 [483/00] Konyetz 0918z S2 (Dutch SDR)	Malc	MON
	0915z	05/04 [480/31 85624 36655 36228 42073 79862 02856 18136 84660.....78380 27028] Fair	RNGB, Malc	FRI
	0915z	08/04 [487/00] Konyetz 0918z S5 (Finnish SDR)	Malc	MON
	0915z	12/04 [482/00] Konyetz 0918z S2	Malc	FRI
	0915z	15/04 [481/00] Konyetz 0918z S2	Malc	MON
	0915z	19/04 [481/00] Konyetz 0918z S5 (Finnish SDR)	Malc	FRI
	0915z	22/04 [482/00] Konyetz 0918z S4 (Finnish SDR)	Malc	MON
	0915z	26/04 [480/00] Konyetz 0918z S5 (Finnish SDR)	Malc	FRI
	0915z	29/04 [487/00] Konyetz 0918z S6 (Finnish SDR)	Malc	MON
8597khz	0700z	04/03 [472/00] Good	RNGB, Malc	MON
	0700z	07/03 [470/00] Strong	RNGB	THU
	0700z	11/03 [476/00] Good	RNGB	MON
	0700z	18/03 [472/36 14741 83202 47018 16833 15780 74211 90231.....82999 60428 02621] Strong	RNGB, Malc	MON
	0700z	25/03 [478/00] Konyetz 0703z S5	Malc	MON
	0700z	28/03 [477/00] Konyetz 0703z S4	Malc	THU
	0700z	04/04 [475/00] Strong	RNGB, Malc	THU
	0700z	08/04 [476/00] Konyetz 0703z S3	Malc	MON
	0700z	11/05 [476/00] Konyetz 0703z S3	Malc	THU
	0700z	15/04 [477/00] Konyetz 0703z S4	Malc	MON
	0700z	18/04 [471/00] Good	RNGB, Malc	THU
	0700z	22/04 [479/40 36122 05645 40201 30635 32209 30322 28165 17410.....67314 57517]	RNGB, Malc	MON
	0700z	29/04 [475/00] Konyetz 0703z S3	Malc	MON
10213kHz	1850z	02/03 [284/00] Konyetz 1853z S7	Malc, HfD	SAT
	1850z	06/03 [281/00] Konyetz 1853z S9+QRM	Malc	WED
	1850z	16/03 [288/00] Konyetz 1853z S9	Malc	SAT
	1850z	20/03 [288/39 27132.....86452] Konyetz 1902z S9	Malc	WED
	1850z	27/03 [284/00] Konyetz 1853z S5	Malc	WED
	1850z	03/04 [280/00] Konyetz 1853z S9	Malc	WED
	1850z	06/04 [284/00] Konyetz 1853z S6	Malc	SAT
	1850z	10/04 [281/00] Konyetz 1853z S7	Malc	WED
	1850z	13/04 [281/00] Konyetz 1853z S9	Malc	SAT
	1850z	17/04 [284/34 89876.....64513] Konyetz 1902z S5	Malc, Gary H	WED
	1850z	24/04 [288/00] Konyetz 1853z S9	Malc, Gary H	WED
10728kHz	0445z	05/03 [798/00]	HfD	TUE
11420kHz	1400z	05/03 [427/00] Konyetz 1403z S5	Malc	TUE
	1400z	15/03 [429/00] Konyetz 1403z S5	Malc	FRI
	1400z	19/03 [427/34 10407..... to 25346] Konyetz 1412z S4	Malc	TUE
	1400z	26/03 [425/00] Konyetz 1403z S3	Malc	TUE
	1400z	29/03 [427/00] Konyetz 1403z S3	Malc	FRI
	1400z	02/04 [429/37 69381.....35697] Konyetz 1412z S4	Malc	TUE
	1400z	09/04 [422/00] Konyetz 1403z S5	Malc	TUE
	1400z	12/04 [420/00] Konyetz 1403z S4	Malc	FRI
	1400z	16/04 [422/00] Konyetz 1403z S3	Malc	TUE
	1400z	23/04 [427/00] Konyetz 1403z S6	Malc	TUE
	1400z	26/04 [420/00] Konyetz 1403z S4	Malc	FRI
	1400z	30/04 [422/00] Konyetz 1403z S3	Malc	TUE

21854kHz 0725z	01/03 [381/00] Weak		RNGB, Malc, HfD	FRI
0725z	06/03 [387/00] Fair (Polish SDR)		RNGB, Malc	WED
0725z	08/03 [383/00] Good (Polish SDR)		RNGB	FRI
0725z	13/03 [389/00] Fair		RNGB	WED
0725z	20/03 [384/37 09538 80100 38941 30663 03862 65593 88609 95819.....84808 29484] Weak		RNGB	WED
0725z	27/03 [389/00] Very weak		RNGB	WED
0725z	29/03 [389/00] Weak (Polish SDR)		RNGB	FRI
0725z	03/04 [384/00] Konyetz 0728z S3	(Finnish SDR)	Malc	WED
0725z	05/04 [384/00] Weak		RNGB, Malc	FRI
0725z	10/04 [385/00] Konyetz 0738z S4	(Finnish SDR)	Malc	WED
0725z	17/04 [383/38 04051.....26366] Konyetz 0737z S3 (Polish SDR)		Malc	WED
0725z	24/04 [389/00] Konyetz 0728z S3		Malc	WED
0725z	26/04 [387/00] Konyetz 0728z S3	(Finnish SDR)	Malc	FRI
23004khz 0510z	04/03 [656/31 71769.....etc]		HfD	MON

## V02 a

Not heard.

## V06

Not heard.

## V07

### March 2024

#### Sunday

**0200z 19172kHz 0220z 17472kHz 0240z kHz**

Sun 03.03.2024 0200Z 19172 112:1-929/112= 34721 via KiwiSDR USA

Sun 03.03.2024 0220Z 17472 112:1 via KiwiSDR USA

Sun 03.03.2024 0240Z 16272 112:1 via KiwiSDR USA

19172kHz0200z 03/03 112 1 929 112 34271 ... 20183 000 000 Weak DanAR SUN

112 112 112 1

929 112

34271 63915 23673 68645 89659

32862 11809 84461 78849 34279

56713 72618 60084 45398 57552

97204 09765 59592 40566 14825

43998 29821 99905 38147 92433

64615 05788 27566 81741 49521

31674 03972 10538 04978 80476

33753 23488 90165 78246 71734

79216 10758 79760 66754 72452

49841 43783 98378 39476 58029

67883 99442 38959 98424 44667

56674 61299 53384 37295 87825

52244 87563 64577 95164 18836

91926 48130 42401 25652 34763

23008 79572 47094 59387 56767

95387 82079 93026 04126 61622

24381 07311 95639 97921 83832

91377 99188 32401 96592 98086

38314 30079 30902 79192 48801

79490 49151 37304 61917 34063

60177 46446 31759 49126 21544

18457 24642 87953 35580 73335

69085 20183 000 000

*Courtesy DanAr*

19172kHz0200z 10/03 112 000 Weak DanAR SUN

19172kHz0200z 17/03 112 000 Weak DanAR SUN

17472kHz0220z 24/03 only heard a test tone and brief 0 (zero) at 0222z DanAR SUN

19172kHz0200z 24/03 NRH DanAR SUN

17472kHz0220z 31/03 112 000 Weak DanAR SUN

**April 2024**

0200z	17431kHz	0220z	16131kHz	0240z	14431kHz			
17431kHz0200z	07/04	414 1 4128 36 08806 ...	27717 000 000			Weak	DanAR	SUN
414 414 414 1 4128 36 08806 82010 36771 98377 66555 61706 50745 74678 49791 29967 69397 55164 28811 19549 96923 64606 94685 22439 75565 03087 48104 71646 70749 25783 80511 44510 15583 93775 85484 94350 67128 80122 08880 12071 29337 27717 000 000 <i>Courtesy DanAR</i>								
17431kHz0200z	14/04	414 1 435 114 92758 ...	82764 000 000			Weak	DanAR	SUN
414 414 414 1 435 114 92758 68826 24458 08621 70929 00432 52502 80477 29717 51120 72370 03130 35429 61894 65723 62385 26263 54883 57558 75484 90762 57402 25094 62854 20818 10740 62868 61412 53707 38706 01496 99840 53578 64948 68265 12218 54430 62486 16915 97990 86236 09137 03712 91063 72849 54287 52672 83687 12245 42102 61616 18656 92251 18012 70650 15204 28277 73540 48442 61071 13116 64912 14970 57487 53608 31126 90348 31856 73553 50066 22872 77888 47680 03457 29932 27423 91084 88695 31837 90437 16315 76141 84125 59457 27936 15994 96947 16705 74834 06015 15275 26609 98636 61053 13184 52382 23166 72770 13576 91727 99657 73216 71481 06438 89130 42883 57725 80154 13222 23478 81838 45692 78337 82764 000 000 <i>Courtesy DanAR</i>								
17431kHz0200z	21/04	414 1 6109 64 77868 ...	04091 000 000			Weak	DanAR	SUN
414 414 414 1 6109 64 77868 45816 90462 85451 70826 19139 30016 67967 63676 01816 08553 02428 88937 45451 05077 69226 15277 41292 59808 59794 37188 29789 49742 99166 57661 57926 92150 99809 38022 09115 46643 83317 70978 15454 86280 89853 10001 75122 62387 00873 76728 30774 52423 78167 55277 42183 09732 00749 51637 42066 04876 04398 39266 29188 48805 76521 48696 03828 96097 61365 47809 86168 91295 04091 000 000 <i>Courtesy DanAR</i>								
17431kHz0200z	28/04	414 1 4293 65 78005 ...	43661 000 000			Weak	DanAR	SUN
414 414 414 1 4293 65 78005 84618 13354 72026 25069 04868 08829 50389 47499 00427 63519 89549 68235 27660 17785 90658 21481 29037 79028 81259 87012 49100 11660 19985 16571 50894 72520 38910 75231 02385 57416 50722 53499 49170 49880 19984 42351 65783 65459 68257 83982 80711 44451 81123 37933 59937 92537 37184 12497 25480 11778 13969 35450 42120 14346 64920 81278 94491 69803 74977 38129 75749 62718 98523 43661 000 000 <i>Courtesy DanAR</i>								

# V13

Ary writes these V13 schedules are valid since at least early February.

- 1000/1030z 19052/20025/20095 kHz
- 1100/1130z 19052/20025/20095 kHz
- 1200/1230z 13974/14944/15388/19052 kHz
- 1300/1330z 11430/14944/15388/19052 kHz

# V15 North Korean Intelligence via Radio Pyongyang

No Reports

# V24

No Reports

# V26

No Reports

# Polytones XPA1 Wed/Fri

Wednesday/Friday

March 2024

**1310z 14451kHz 1330z 13451kHz 1350z 12151kHz**

01/03 441 1 00484 00114 02714 ... 30145 Weak

441 441 441 1 441 441 441 1 441 441 441 1

00484 00114 02714 51949 11208 02570 56220 60635 22348 71524  
24239 64088 60319 53377 57244 30299 97329 06298 10146 15293  
40619 37232 38105 05154 70747 89587 75446 12461 48175 01517  
24046 90214 65797 77871 50344 39440 01673 61237 64273 15792  
11329 43610 83886 02221 50035 04778 65542 50475 39431 28939  
62505 64945 09814 18915 92629 05405 04449 73347 32075 09552  
04820 49617 74659 73682

17497 72490 18994 15848 29363 77199 34210 75658 27110 04548  
53906 72546 09838 07165 28484 22733 37072 57434 13138 15467  
64567 17576 10945 80360 39357 26587 72819 63455 99705 72373  
92510 37907 79030 99769 19363 01160 02548 25249 03297 19519  
89180 06572 71547 78790 50261 60555 65830 18404 50730 77083  
74905 83786 30145 *Courtesy PLdn*

06/03 441 1 00484 00114 02714 ... 30145 Weak QSB3

08/03 441 1 00484 00114 02714 ... 30145 1330z Weak QSB3, rest Fair

13/03 441 1 00430 00103 73375 ... 03270 1350z Fair, rest Strong

441 441 441 1 441 441 441 1 441 441 441 1

00430 00103 73375 88493 79495 18483 00337 44235 32876 20072  
94158 31005 17909 92691 91422 06447 61246 62169 20137 60116  
41147 83426 40241 43673 71637 84371 49907 49988 74574 35285  
05156 92960 80959 61190 13732 48817 80880 81667 54369 42900  
98044 87781 89708 74084 55479 62423 44986 99254 77798 56449  
26589 19527 98755 53051 94062 06181 32899 34192 60519 55688  
31918 06683 62015 79833

17943 19469 37988 70167 32664 63590 44330 50536 11651 79108  
75468 51250 53921 76839 13924 77430 73634 82345 65383 46354  
28540 75851 03048 30576 75014 89775 50639 88970 41887 33832  
41179 38522 86241 48404 41962 94943 83093 37435 10341 34094  
21046 03270 *Courtesy PLdn*

15/03 441 1 00430 00103 73375 ... 03270 1350z Weak, rest Fair

22/03 441 1 00430 00103 73375 ... 03270 Weak

26/03 441 1 01970 00126 19856 ... 02421 Weak

441 441 441 1 441 441 441 1 441 441 441 1

01970 00126 19856 98467 65719 69040 95831 35855 96810 66588  
39678 91721 90979 79364 95904 17688 07503 56228 30681 10313  
24447 65723 48160 20353 58998 16635 13835 09905 85724 12613  
20223 96667 50094 16764 91465 72163 61968 68265 82413 29647  
06993 56244 73288 96022 16046 39695 19740 96477 59302 45265  
91131 75188 39946 82701 09850 80408 07012 18096 46832 99562  
56220 52830 71998 97766

03627 77397 04543 66929 01170 33377 43214 24742 80270 84852  
63562 84027 22677 00311 97337 07784 58510 72293 43526 83889  
51356 48628 79033 82306 63269 10985 63732 59973 04874 52320  
88183 64850 64980 19841 91380 71851 70334 58933 74170 91553  
98218 29494 55492 39927 87754 36755 09172 51699 85764 14368  
22926 80302 44496 00241 28976 53774 15432 68434 31959 75005  
24338 59285 46018 04916

02421 *Courtesy PLdn*

29/03 441 1 01970 00126 19856 ... 02421 Fair



**April 2024**

1210z	13368kHz	1230z	12168kHz	1250z	11168kHz
03/04	311 1	01970 00126 19856 ...	02421		1250z NRH, rest Weak, 1230z QRM4
05/04	311 1	01970 00126 19856 ...	02421		1210z Fair, rest Weak, 1230z QRM4
10/04	311 1	00104 00098 17266 ...	63535		1250z Unworkable, rest Weak
12/04	NOT MONITORED				
17/04	311 1	00104 00098 17266 ...	63535		1210z Fair, 1230z Weak 1240z Unworkable [Condx very poor]
311 311 311 1 311 311 311 1 311 311 311 1					
00104 00098 17266 03313 65959 63145 69664 06919 45092 44164 59164 56552 96939 83143 31175 10706 15315 97448 00045 37588 36067 09653 96685 32550 69146 09435 76064 24179 62939 24597 70492 52628 54516 15243 94612 43772 10557 27030 33027 76626 14304 31994 23287 83885 54108 60755 18509 06424 57694 29426 70911 96524 84667 89525 89247 44106 90868 32834 52975 04354 92603 04332 50891 84959					
44429 99141 10900 21668 70369 20899 13740 45007 86178 80252 85019 72457 70241 34165 54538 80817 26240 72654 68949 43964 10514 11329 86600 50817 26303 81802 29490 80656 78348 79136 44846 27402 77836 41036 84365 06324 63535 <i>Courtesy PLdn</i>					
19/04		1230z Unworkable, rest NRH			[Very poor condx] <b>Ary confirms sending as 17/04</b>
24/04	331 1	05878 00205 02659 ...	02277		1210z Weak QSB3, rest NRH
27/04	NOT MONITORED, power failure				

# XPA2 p

**Monday/Wednesday**

**March 2024**

0800z	13931kHz	0820z	14831kHz	0840z	16131kHz
04/03	00274	00129 78945 ...	40532		0800z Strong, 0820z Fair, 0840z Fair to strong
06/03	00274	00129 78945 ...	40532		0800z Very strong, rest Fair
11/03	08043	00201 92629 ...	62025		Fair, 0800z QSB3
08043 00201 92629 54486 06500 09106 01860 03123 15106 46647 37571 24539 86841 96499 56007 38482 26279 52190 18670 57815 54435 53804 03105 03429 73334 14129 78307 67939 56446 72732 48903 35839 57159 08823 32766 24181 78818 44655 32379 71581 30208 01897 42002 40937 52123 98531 25626 27246 78794 25161 43802 56625 35870 08522 45163 47448 46535 31041 33542 92186 35562 98698 37070 16440 50109 08849 39759 55924 47745 83504 33830 73391 32992 87151 87647 56805 86075 72163 07640 22026 20252 99023 22868 13121 23115 43651 85538 38969 46891 47132 71904 12329 67772 12501 16709 83012 99800 22691 67778 92718 95622 23735 80185 58566 60965 54112 71257 02415 76496 35306 31113 81088 09718 75388 15914 05917 46883 35863 49000 85119 58534 49895 65831 59169 89165 26291 40549 03106 60297 74591 23379 51616 48950 20170 57182 79860 42514 94470 30618 29506 01279 52285 94103 27011 80220 83095 83283 12432 49682 23851 18583 10254 10006 28630 70008 95679 82149 86180 94462 09262 80159 89519 77422 90406 02128 80949 93029 61596 69026 83355 54776 25804 14757 58080 99264 50571 36078 96962 32212 64101 05248 34904 79993 28443 75603 59443 16781 98617 05149 22985 37322 79886 04560 44700 50264 91627 32713 13508 59724 15929 25418 96366 63378 62025 <i>Courtesy PLdn</i>					
13/03	08043	00201 92629 ...	62025		0840z Weak, rest Fair
18/03	08043	00201 92629 ...	62025		Fair
20/03	08043	00201 92629 ...	62025		Fair
25/03	09042	00152 43620 ...	47347		0800z Fair, 0820z Weak, 0840z Unworkable

09042 00152 43620 65963 70069 38319 62361 00692 60797 09294  
96561 37023 52810 19940 86251 11301 29485 03454 97847 56161  
99720 87412 13228 61301 87985 98843 51037 28400 14248 30486  
55277 72278 70784 13707 08188 47995 98330 45449 37417 66156  
92625 60759 05366 58234 69245 86540 24534 24666 31865 47033  
46043 01403 63689 92549 67880 39185 13103 11737 96016 81387  
20786 28060 03780 47742 33213 05568 87194 12140 23527 34189  
77431 31752 59782 63101 05694 00229 33943 15223 68300 18123  
93424 12319 66361 34751 13934 31214 03663 89013 97923 64870  
28118 67314 16869 47104 92455 33931 51625 20745 18353 96796  
00941 18580 34972 78451 56500 24133 05663 54381 61904 43391  
09856 58247 01145 26130 27548 38010 24035 17985 38246 34399  
32972 08785 95286 15089 33893 62868 00705 69507 64188 60829  
53968 87691 48478 88236 34293 80570 85712 77773 43293 79934  
90849 91983 80524 42205 57376 23741 51705 36327 69502 53895  
05453 47870 55087 37765 47347      *Courtesy PLdn*

27/03 09042 00152 43620 ... 47347

0800z Fair, rest Unworkable

**April 2024**

**0700z 11409kHz 0720z 12209kHz 0740z 13409kHz**

01/04 09042 00152 43620 ... 47347

0740z QRM5, 0720z Weak, 0740z Weak QSB4  
Very poor reception

03/04 09042 00152 43620 ... 47347

0700z NRH, rest Weak

08/04 00325 00244 54772 ... 52253

Weak, 0740z QRM4

10/04 00325 00244 54772 ... 52253

Weak, 0740z Fair

15/04 NRH across schedule/

[Condx very poor]

17/04 00325 00244 54772 ... 52253

0700z Unworkable, rest Weak [Condx very poor]

00325 00244 54772 74384 20029 60288 38382 41069 24304 92374  
78223 74385 69408 74299 37417 44039 18500 68869 77633 83343  
17423 62853 19766 54724 79806 27625 62284 19080 00571 33025  
83281 87788 05773 71704 67797 96877 52908 77426 80833 32024  
50189 93102 76827 85857 98860 84195 20588 90541 38711 72588  
11366 07268 00809 73580 04245 82544 93974 73504 42855 80633  
23235 18880 10258 87457 37215 53300 09511 95327 00595 58280  
96493 02932 49988 28495 77209 16630 96368 30440 76524 39799  
75477 96287 11215 78029 65321 79862 19944 25190 02587 70885  
22161 72323 16126 73022 70408 12882 09498 34045 63121 95973  
31411 88745 75307 07841 90479 46344 74714 14491 94562 16079  
20305 39662 06198 71741 95233 33293 69006 91639 15266 78165  
01222 98362 75687 66524 00099 52123 65645 88005 29178 20984  
14524 36966 07002 21758 52092 87846 41879 11793 34499 29814  
38110 53007 59272 51135 44988 66713 01700 16006 23518 64546  
50787 18716 65307 36307 56137 19360 52058 04465 87848 97039  
51423 28899 01710 77382 78542 14563 23614 36732 93624 51836  
10541 24041 86851 88281 98024 43366 66609 28064 71479 41486  
39941 84467 26173 43564 46078 72570 32661 28849 34670 15400  
15966 75394 28228 35367 95896 95279 64407 62334 31662 53149  
58073 49948 38200 71243 39587 94257 10598 28500 01462 05502  
27469 67655 56848 89820 42907 37208 83318 40111 55675 62911  
84532 92627 97889 35564 42925 42851 36072 86245 85929 49381  
49251 11855 56025 93717 75003 42576 56369 37691 06204 46768  
55368 20052 85589 89065 45889 91719 52253 *Courtesy PLdn*

22/04 0700z NRH, rest unworkable

[Condx very poor]

24/04 06362 00301 04387 ... 27775

Weak [6m01s]

06362 00301 04387 43702 49036 32700 59517 75102 00978 75164  
30030 44482 47944 25269 73203 56025 04438 13867 10295 28738  
02679 69369 72913 63468 20837 70142 52024 75557 41724 11091  
53064 24501 26997 97459 41810 04188 62972 37048 86139 61506  
44197 50342 79976 20988 78951 73349 77071 17916 04999 12220  
46347 16821 63676 69413 69230 18333 31542 61559 58126 17415  
39666 04909 89851 62600 31314 74560 60533 23722 73973 50653  
64916 95463 83341 13395 03892 35868 10293 36382 65099 01612  
50753 37997 14849 76104 72464 95218 87153 70144 21947 16115  
90286 58945 78221 83401 15507 33426 33305 30075 99409 78661  
66425 52487 65405 21049 36554 55254 73896 20417 46919 59546  
28932 55009 07036 93050 96727 18968 13520 45622 86017 91829  
54234 12251 23871 58756 68011 73935 94624 77469 83823 98702  
32138 03831 31840 80918 78474 90218 61537 01479 26855 48116  
42192 11863 88573 80491 64430 19801 32374 01067 45116 17192  
80767 71399 66534 75801 64518 89400 92875 25675 59455 99746  
25276 94409 65170 46211 43590 39280 04725 17996 65681 92727  
91516 29865 74291 95481 42733 15462 37276 61488 38274 67781  
47365 69815 16187 15766 97440 83978 04528 05975 47687 52555  
04827 26929 15330 66774 39616 90657 23957 13814 78920 83668  
43647 40083 20003 81931 96249 81475 36944 61994 56781 29905  
35710 45057 48300 29508 69906 29389 64185 07707 55305 77731  
55724 60791 32275 41067 03460 08605 96238 06927 53915 71720  
86270 66561 93693 69703 75653 73560 60813 56188 64012 86290  
32329 08599 89518 14728 90146 81941 62988 48585 28341 77299  
33763 01916 53424 63204 70849 44778 27911 35582 75806 55702  
56336 39985 72907 26306 09753 25645 47096 24307 96837 44686  
07283 32280 47435 95656 16998 05781 10923 03339 03626 49263  
87672 68643 46563 78019 83294 32977 64576 14905 04761 18593  
32399 86153 92263 52340 83356 11615 11659 88594 23062 75694  
57088 57741 95481 27775 *Courtesy PLdn*

29/04 Unworkable across schedule QSB4/5

Poor condx

# XPA2 TF Trial

## Tuesday/Friday

**1100z 14639kHz 1120z 13539kHz 1140z 12139kHz**

01/03 01695 00001 00000 ... 34267

1100z Fair. 1120z Weak Pulse QRM3, 1140z MISSED

05/03 00129 rest under pulseQRM

1120z Weak QRM4, rest Unworkable

08/03 00129 00180 83567 ... 30616

Fair, 1120z QRM3, 1140z NRH

00129 00180 83567 64510 52513 68707 41451 04621 48096 51171  
13577 71665 29863 72979 18877 36053 50635 75332 39327 10853  
58370 46606 19445 55901 36253 91056 71825 35399 76027 92032  
48675 35842 32866 77544 68356 27052 57818 34765 18808 49275  
32527 42932 47987 55477 83226 53224 86351 57550 09020 26232  
21254 34070 83674 94804 16716 04436 22404 12327 01774 75412  
73191 97929 07801 56044 79687 12200 11458 37490 17129 84078  
92963 90822 10633 11155 19423 93019 43747 75923 34994 45949  
62367 52755 11901 86517 41740 94161 41351 94638 73170 18979  
21109 39330 53304 21190 18867 53484 85637 26457 47042 92780  
38101 90756 83031 22911 73954 79045 30665 06966 48300 35666  
03815 73272 19546 90037 67510 45238 84571 48633 98858 01057  
40020 51444 86758 30207 88424 60278 67594 47297 37323 11489  
54875 16391 66563 09864 25218 73653 34653 03484 97754 30321  
17168 65768 47423 80947 80511 67628 45468 50174 99600 54098  
69099 89577 71910 90040 39134 23476 90198 38860 20835 39332  
35565 27952 66795 15431 59594 06785 63219 78427 52691 86246  
90485 82394 96972 77782 41835 64720 47102 28339 91430 93460  
54798 42373 30616  
*Courtesy PLdn*

12/03 00129 00180 83567 ... 30616

Fair, 1120z QRM3, 1140z NRH

15/03 00129 00180 83567 ... 30616

1140z NRH, rest Fair

19/03 05162 00001 00000 ... 32663

1140z Unworkable, rest Fair, 1120z QRM3

22/03 07029 00001 00000 ... 35661

1140z NRH, rest Weak, 1120z QRM3

26/03 00250 00089 23932 ... 35636

1100z Fair, 1120z Weak QRM3, 1140z NRH

29/03 00250 00089 23932 ... 35636

1100z Weak, 1120z Weak QRM3, 1140z Unworkable

April 2024

**1100z 16341kHz 1120z 14841kHz 1140z 163941kHz**

02/04 Not workable

05/04 00250 00089 23932 ... 35636

1140z QRM5, rest Weak

00250 00089 23932 17745 80322 86756 30490 87885 74598 12020  
54866 49419 85332 73170 43011 01554 23643 45157 98573 69917  
00273 61955 77135 49835 56119 27127 25194 04941 74223 76286  
63635 34832 57602 62714 89121 73072 50994 64623 34108 26263  
66961 65753 01457 55693 33154 43954 56353 97260 15527 35415  
17970 16159 04187 59580 23255 69005 90693 48783 79711 28444  
68325 28380 12142 21793 01021 50351 87473 92244 15064 64854  
50075 33622 54430 10639 67855 49478 54253 36051 02340 49413  
07438 84915 83446 68894 66734 18930 60041 47928 45570 37848  
21773 35636  
*Courtesy PLdn*

09/04 01528 00001 00000 ... 37653

1140z Weak, rest Fair

12/04 NOT MONITORED

16/04 Unworkable

[Very poor condx]

19/04 1100z NRH, rest Unworkable

[Very poor condx]

23/04 00455 00078 07310 ... 32751

1140z Weak, rest Unworkable [Unsure]

26/04 NOT MONITORED, power failure

30/04 08151 00001 00000 ... 3265n

1140z Very weak with pulse QRM3, rest NRH

## XPA2 others

XPA2 [Fm H-FD]

Fri 01.03.2024 0900Z 15956 msg  
Fri 01.03.2024 0920Z 17456 msg  
Fri 01.03.2024 0940Z 18656 msg

Fri 01.03.2024 1100Z 14639 msg  
Fri 01.03.2024 1120Z 13539 msg  
Fri 01.03.2024 1140Z 12139 msg

Fri 01.03.2024 1200Z 14956 msg  
Fri 01.03.2024 1220Z 16356 msg  
Fri 01.03.2024 1240Z 17456 msg

Sat 02.03.2024 0910Z 16261 msg  
Sat 02.03.2024 0930Z 15961 msg  
Sat 02.03.2024 0950Z 14861 msg

Sat 02.03.2024 1600Z 12163 msg  
Sat 02.03.2024 1620Z 10863 msg  
Sat 02.03.2024 1640Z 9363 msg

Tue 05.03.2024 0600Z 11157 msg  
Tue 05.03.2024 0620Z 12157 msg  
Tue 05.03.2024 0640Z 13557 msg

Wed 06.03.2024 1100Z 15861 msg  
Wed 06.03.2024 1120Z 14431 msg  
Wed 06.03.2024 1140Z 13431 msg

Sun 10.03.2024 0950Z 14838 msg

Tue 12.03.2024 1600Z 13994 msg  
Tue 12.03.2024 1620Z 13494 msg  
Tue 12.03.2024 1640Z 12194 msg

Wed 20.03.2024 0910Z 18333 msg  
Wed 20.03.2024 0930Z 16345 msg

15872 03-04-2024 1800 XPA2 MFSK-16/20Bd  
14972 03-04-2024 1820 XPA2 MFSK-16/20Bd  
13872 03-04-2024 1840 XPA2 MFSK-16/20Bd

00362 00111 45882 22157 58021 13541 42652 48700 44611 85043  
44441 43944 07757 96825 57737 98380 81742 64997 96554 20420  
23293 34483 01641 00580 44549 61972 00280 50506 96212 99069  
07207 32350 99019 69622 08581 43626 25723 47531 63667 11097  
88345 29964 34299 89887 14542 61925 09554 43132 48998 19954  
40550 88706 49848 47393 23807 05558 69917 05185 96685 16023  
47792 99696 35218 34804 50935 08593 60652 25698 31114 22189  
03091 14296 70642 27377 82817 45629 60567 85605 36028 52405  
37932 80092 39502 62338 10215 49588 03573 86307 45576 71022  
14831 18397 73998 04605 32584 78765 96482 75524 07354 43546  
44590 48414 59662 12372 29186 80730 67080 87466 53417 71483  
52836 40390 01700 30371 *Courtesy Ary*

14464 15-04-2024 1600 XPA2  
12217 15-04-2024 1620 XPA2  
10897 15-04-2024 1640 XPA2

00368 00233 77510 61144 09871 73534 58295 44992 02687 00168  
59700 24054 81502 93375 41610 89424 69125 93217 05572 92767  
11061 51165 29569 03623 49070 78036 35376 57148 54695 44666  
04192 54438 03788 65885 44760 11737 40327 48254 94827 96328  
39587 39504 03711 52868 66659 67355 76109 44568 03157 35808  
86820 86458 35244 32166 53917 44879 83918 73887 12073 31834  
38158 01146 90295 58019 95975 05261 20265 15617 48615 29872  
49097 20870 98389 09242 53179 71556 47453 76700 36963 81713  
01927 90806 53991 18887 57845 17732 19194 71620 11967 99880  
27818 66438 36180 62992 58170 38441 49207 45691 56892 61397  
47089 60492 95952 73283 86709 65949 88068 26001 78985 82359  
97425 07217 36924 30359 29907 47350 47154 71408 00173 78242  
86065 48644 03649 48733 02054 82657 84689 35396 51070 14738  
22349 01761 19807 75564 34623 41433 94852 80707 32176 91895  
29662 93192 92634 29606 02455 20600 29514 05820 33085 10819  
91286 77797 45517 78648 75331 98444 56842 47219 71228 04052  
81258 52672 74929 64246 60010 95663 87408 61358 95734 88472  
52496 66445 39231 08277 48579 92872 56008 74041 46278 81453  
53143 78869 02310 40251 23451 44550 56243 41157 00233 36177  
84590 47633 09478 28124 10637 76989 18262 28387 69595 06791  
33190 68154 10084 44612 58321 24840 38566 37239 30069 82457  
42436 82800 00941 89774 50907 02389 50361 34678 40795 15460  
39419 46250 61125 59556 03881 04863 56967 11107 97639 71589  
74610 27620 04446 39486 48262 64473 *Courtesy Ary*

10378 18-04-2024 0400 XPA2  
11078 18-04-2024 0410 XPA2  
11478 18-04-2024 0420 XPA2  
12178 18-04-2024 0430 XPA2  
13378 18-04-2024 0440 XPA2  
13978 18-04-2024 0450 XPA2

00778 00228 06996 20978 92018 36038 38831 02284 33798 24501  
12956 17017 11065 64637 79553 84007 40174 33967 72192 07053  
9\_537 31254 09295 04676 79447 71336 76495 30017 82123 15098  
34065 22338 28222 30077 26635 41023 45550 84563 68765 46523  
80225 08570 26977 10546 16759 78259 21784 38054 28051 35219  
07313 82899 65759 81544 44201 44380 01956 02320 41529 2068\_  
59542 08813 20159 18700 90434 90615 88793 80887 38002 38430  
38517 55610 65200 25669 -6827 81966 04277 98748 87915 01188  
49552 36331 01965 46904 07785 51115 56579 46676 85975 82254  
39066 43229 43033 48083 86980 60412 88409 08277 20110 26142  
89465 40895 00052 89520 96700 51702 17699 40090 54716 62233  
40103 03207 14404 40341 71128 21100 06847 73254 10915 39269  
24035 4-116 94911 55746 994-3 95287 11576 17116 38687 55414  
93556 95998 78637 61772 11721 08656 38389 12444 50203 56081  
33466 16489 91958 23741 42151 35858 28825 02692 76954 65879  
64564 15-55 97361 80840 92106 47348 45983 44304 90055 01413  
39125 00582 01402 99301 68675 44103 24568 52630 28619 62471  
82710 93301 13050 54832 05803 17546 50157 71169 13595 63604  
664-2 09884 40160 72807 90848 78401 98636 97796 65665564372  
62672 94084 22387 47790 16955 32883 15087 92656 55065 98047  
11289 76193 74072 14482 83167 70162 92103 42528 75036 74559  
97189 7481- 30708 26450 34949 29241 60420 28594 08452 90273  
45465 26771 82963 64245 99798 88625 72013 74259 37876 72908  
35406 00000 00000 *Courtesy Ary*

1B XPA2

Mon 01.04.2024 0910Z 18038 msg  
Mon 01.04.2024 0930Z 17474 msg  
Mon 01.04.2024 0950Z 16286 msg

Mon 01.04.2024 1500Z 15881 msg  
Mon 01.04.2024 1520Z 14481 msg  
Mon 01.04.2024 1540Z 13381 msg

Tue 02.04.2024 0500Z 10249 msg  
Tue 02.04.2024 0520Z 11449 msg  
Tue 02.04.2024 0540Z 12149 msg

Tue 02.04.2024 1600Z 15819 msg  
Tue 02.04.2024 1620Z 14919 msg, BC QRM  
Tue 02.04.2024 1640Z 13919 msg

Wed 03.04.2024 1100Z 17426 msg  
Wed 03.04.2024 1120Z 16326 msg  
Wed 03.04.2024 1140Z 14926 msg

Wed 03.04.2024 1800Z 15872 msg  
Wed 03.04.2024 1820Z 14972 msg  
Wed 03.04.2024 1840Z 13872 msg

Sun 07.04.2024 0800Z 13881 msg  
Sun 07.04.2024 0820Z 14881 msg  
Sun 07.04.2024 0840Z 16281 msg

Tue 09.04.2024 1100Z 16341 msg  
Tue 09.04.2024 1120Z 14841 msg  
Tue 09.04.2024 1140Z 13941 msg

Thu 11.04.2024 0910Z 15859 msg  
Thu 11.04.2024 0930Z 14659 msg  
Thu 11.04.2024 0950Z 13459 msg

00297 00255 16814 89493 9-924 73858 65205 77697 96202 89810  
59424 71490 62798 90334 43550 66626 02246 65785 31124 83036  
48628 20615 73573 85049 58928 38848 42665 21882 45930 76045  
26616 10261 75423 97753 13985 49102 56481 29316 23615 38957  
16454 71491 70775 25097 51638 32894 78092 65877 84-80 61882  
50099 82332 24441 80398 69026 03922 48523 31764 30564 53076  
31192 43322 31767 20157 63193 49162 96066 65044 76349 94446  
10144 72929 32169 92165 66581 77136 49839 48475 33310 26033  
60753 76787 37601 84046 24944 44273 85819 95023 28727 10003  
00578 24717 98750 70538 07764 73131 39723 50617 61902 02576  
36827 13049 89526 89833 51738 78168 40172 32274 13877 91889  
54082 00049 98453 04530 92321 53304 05721 47720 95210 18-20  
63341 11421 36317 66286 93867 85426 74177 71630 84401 93449  
37411 99220 86571 30733 89205 47704 87259 47767 32308 46776  
04100 53545 81206 36836 55979 00529 26262 94219 77214 53359  
67310 92002 55405 42982 39233 35784 76731 23240 95964 66310  
03990 68540 47872 20367 54476 55860 13476 67719 15324 44617  
67143 57952 15411 48434 14819 09796 19934 99479 10306 93338  
59163 79957 93414 31041 26039 45408 43814 43589 91498 53420  
70972 63019 51802 65996 4-785 35559 05672 60839 82358 01119  
87051 58541 78894 33597 86215 09457 65590 06971 28162 29437  
15949 77250 12933 02625 07147 24002 75125 16830 94327 09066  
11045 69886 76220 61902 73644 03123 06150 49414 05649 79259  
04124 58994 17120 09187 06286 00622 01062 59816 44825 16581  
68817 36843 15426 62061 37470 93720 51085 49176 58849 18753  
60433 88840 66511 -3290 90072 17165 82320 33760

Courtesy Ary

12137 18-04-2024 0600 XPA2  
13367 18-04-2024 0610 XPA2  
13967 18-04-2024 0620 XPA2  
14367 18-04-2024 0630 XPA2  
14967 18-04-2024 0640 XPA2  
15867 18-04-2024 0650 XPA2

00223 00234 03999 13186 47199 67847 93619 21189 95665 39489  
19845 93796 04335 42181 82540 65951 20305 59000 90781 78897  
37078 14322 39417 39803 35477 42969 75409 75034 69956 59601  
40049 19388 14673 24088 37461 38056 67275 93790 42378 57128  
92888 91911 85057 98416 04325 70721 93226 26487 81948 34813  
72551 04765 53451 77172 65542 18009 74464 64194 77438 04230  
92437 18584 51232 36064 99439 00456 79122 80245 04719 44484  
98675 26514 16622 33653 86008 45165 29264 40999 35478 65024  
49742 48921 93085 35142 87049 35283 65935 37500 58544 19452  
63591 03080 16351 38147 64690 74303 40679 48993 98976 03868  
91597 12981 21768 37464 36136 46037 88142 19798 91163 20377  
88744 33464 28716 12413 54487 43515 25498 16089 49013 64156  
34519 41622 21700 85266 80891 95595 10162 78473 68961 11704  
04486 80270 42021 31609 73425 36761 27153 55620 99004 41012  
47140 46137 46335 38167 30707 30126 74362 03938 83659 21175  
48804 24589 99978 34820 69348 49975 91279 36500 56572 40540  
35874 09668 50835 79458 15891 08473 91442 97106 38986 17726  
16361 69877 17084 08001 17015 88381 95285 83531 54559 50764  
21233 06224 94813 47786 62898 79895 80291 07201 62260 23450  
45480 90652 99047 58464 05137 37472 95300 66876 22276 22233  
38683 77255 64950 65933 04814 78926 07504 91976 17804 80965  
54688 07747 81940 05807 19307 29650 14853 03049 16559 35994  
28181 84240 34845 15536 72244 25707 70829 58619 02864 79542  
93079 28409 61255 32325 12080 43976 66477 00000 00000

00884 00257 49311 45938 10151 90881 45514 11219 79509 21319  
29265 38009 04907 70358 43784 98857 54033 78155 34287 52220  
85681 29086 91094 61500 33295 11995 82516 26552 88519 74963  
36540 74875 63359 15112 82054 09572 67803 87576 79170 54985  
41985 00547 98738 35613 80935 23800 70393 25605 14574 01449  
55055 39319 32306 20014 52540 24506 32026 87810 12642 98155  
08365 18961 22699 04545 84777 54389 74649 89793 88303 34212  
31053 66455 98984 79300 10235 85133 30346 55480 80564 09495  
41600 56910 71977 87069 19908 97219 42568 43344 62570 57548  
77545 79992 74933 81014 46619 23023 77847 94192 50835 26546  
49149 80598 37301 20362 70395 88598 40334 53004 09779 67406  
94158 76545 07245 03146 56554 51454 46983 35629 84636 87557  
11820 31304 27222 30754 56666 51069 91520 19790 32680 87210  
07285 36153 04645 54018 60345 61001 19608 51614 16674 31309  
56885 89562 33565 95163 63388 01000 72746 71787 24459 95164  
76039 42217 09556 63276 14725 17845 53375 06546 63695 19335  
97076 22364 20324 22567 60120 58005 71899 53226 42800 95552  
31845 95367 18955 53326 30672 22256 97737 32058 67364 55665  
78312 19733 93509 37515 11170 65066 26596 41367 39292 42499  
07626 13061 87917 97337 34232 34520 69238 10997 35043 05383  
29099 19520 28986 28906 63319 80671 23262 56229 32604 92468  
20106 21317 39180 08029 41022 77342 28853 82807 11397 95052  
31408 30531 13934 00301 87926 18783 07450 21616 19094 96150  
53016 86740 97013 61981 26566 58791 90746 64603 74194 30498  
41804 70366 08762 46822 22392 86307 73880 79887 56315 56888  
05666 86429 99599 39989 73973 98566 05586 28685 40979 51423

Courtesy Ary

10378 20-04-2024 0400 XPA2  
11078 20-04-2024 0410 XPA2  
11478 20-04-2024 0420 XPA2  
12178 20-04-2024 0430 XPA2  
13378 20-04-2024 0440 XPA2  
13978 20-04-2024 0450 XPA2

00734 00376 08066 21700 10273 50672 86519 92870 50253 94247  
36930 91411 35906 96784 36878 06103 54647 24034 48923 80050  
98071 63192 61531 03987 24205 08260 22461 86447 57676 13783  
00765 26834 65066 50357 09192 18000 31507 31358 01423 81375  
52316 29892 88676 04497 20833 54943 02098 08786 97118 74960  
27120 61225 09690 71412 14918 11264 09072 04079 97494 02013  
28210 00071 35193 36469 93481 10096 26345 85548 87591 18877  
74594 23289 22610 67547 27734 68179 74515 57033 83152 69260  
06161 13674 89327 82715 86662 39539 17143 93653 35439 97927  
08927 27428 33862 99408 53164 52244 94698 52206 11015 10737  
28598 16549 21194 78240 00365 03830 38614 42141 43677 46737  
36748 52037 20926 28234 95851 14535 10743 52476 49806 53941  
92951 32690 50109 89663 09950 47166 89426 23201 14383 75488  
73480 22308 46017 72414 40661 89611 92479 11086 28234 82831  
00924 75001 49975 88700 61178 56888 06502 05628 03557 38628  
41501 42221 02399 57072 17784 95906 66439 31530 68290 53198  
14403 15413 27757 68188 73256 14439 06019 48510 87571 06240  
22055 99655 70126 66974 53016 17950 82714 61407 28484 53060  
40663 83797 19644 75754 33987 31259 19909 88944 54630 44753  
23172 60948 42795 29151 68428 85510 47243 81786 15444 46739  
50869 57991 18055 97316 16572 41845 71094 35424 04055 99832  
13192 05031 03046 15230 12534 30604 95768 52002 34200 41997  
94529 17074 93878 42817 83067 61106 56660 40974 98544 67504  
70706 00927 45963 81744 02190 82671 65742 22326 59181 92141  
59164 84483 84888 54797 31561 18140 57902 27564 16616 37824  
89741 95239 47585 73445 52208 33794 64112 75237 14249 55465  
84984 31119 36879 36549 29126 12264 59066 21300 13039 29862  
64861 73441 92820 42058 82832 10045 32184 39081 11256 64926  
03203 29295 24358 60720 77762 75465 53341 72517 29535 86395  
18559 90503 08077 03715 07157 28045 47604 48338 25670 19296  
59073 36601 14525 86753 72961 16300 02419 05526 90612 42162  
01610 25031 63980 49321 52262 55688 06760 76157 58786 53659  
58922 86548 91764 44643 11303 74356 65363 89104 34901 54786  
62440 83845 13410 91958 05852 66600 14770 37604 87757 61461  
73046 47815 81903 87372 66785 93526 26523 58755 51452 51467  
21284 71445 89551 72010 60373 72524 44836 69880 75449 98604  
50936 13313 70624 35825 79721 17763 11621 72020 43046 85660  
40918 69155 88399 97323 80612 11106 04644 04391 40069

Courtesy Ary

12137 20-04-2024 0600 XPA2  
13367 20-04-2024 0610 XPA2  
13967 20-04-2024 0620 XPA2  
14367 20-04-2024 0630 XPA2  
14967 20-04-2024 0640 XPA2  
15867 20-04-2024 0650 XPA2

00808 00236 17605 09490 18001 54136 39454 55449 46816 30564  
91708 32326 94166 95475 67937 73915 73394 70427 01742 22808  
77626 67814 14110 95505 38335 09334 93604 20662 49345 71862  
57479 95040 48999 56247 25956 32513 53562 18638 25122 64006  
76924 03120 01357 40197 46580 54287 22365 31948 96184 82553  
67878 60127 01538 74261 08474 49550 00490 22098 71154 08666  
60531 18792 06103 74953 73084 96667 83326 37919 69518 35423  
20352 54755 45304 37734 45882 74506 66456 73912 48924 84046  
86968 61655 24477 66791 03983 97350 93501 74737 47773 76405  
32023 31464 47483 16455 03475 58132 97015 26402 67111 49912  
70960 84445 62429 60760 62200 13122 14822 63802 28378 33966  
83092 26576 73173 87106 21697 98874 94313 39310 70969 75733  
03165 08589 90144 93112 03400 88887 07272 28848 34259 87749  
77489 40053 06801 99011 13086 02523 99225 63715 04590 90859  
82527 29698 46358 13806 93311 05447 58290 60375 94757 04599  
63817 57704 55431 91377 46746 62370 94299 69316 57359 73312  
05850 85973 29542 40627 56476 43039 19774 74160 74020 19174  
99648 30597 34719 80109 93204 73465 62229 76337 99799 97952  
30596 46895 34090 29660 23931 19784 84620 15423 52265 50714  
08222 29909 06356 31277 85009 96553 00156 05730 57329 50272  
85671 84128 86354 75583 04950 33219 22985 75321 98172 73279  
00141 17961 69515 59406 42715 58953 51882 99881 16696 36691  
58417 04351 21894 23305 10951 69739 24241 03442 95098 96649  
73309 56498 19008 49527 12280 46467 60540 58506 30305

Courtesy Ary

# 1B XPB1

## Mon/Sat

### March 2024

18253kHz 1100z	02/03	Weak	4m29s	PLdn	SAT
17453kHz 1110z	02/03	Weak	4m29s	PLdn	SAT
15953kHz 1120z	02/03	Weak	4m29s	PLdn	SAT
14953kHz 1130z	02/03	Weak	4m29s	PLdn	SAT
14353kHz 1140z	02/03	Weak	4m29s	PLdn	SAT
13553kHz 1150z	02/03	Fair	4m29s	PLdn	SAT
18253kHz 1100z	04/03	Weak	4m28s	PLdn	MON
17453kHz 1110z	04/03	Weak	4m28s	PLdn	MON
15953kHz 1120z	04/03	Weak	4m28s	PLdn	MON
14953kHz 1130z	04/03	Weak	4m28s	PLdn	MON
14353kHz 1140z	04/03	Weak	4m28s	PLdn	MON
13553kHz 1150z	04/03	Fair	4m28s	PLdn	MON
18253kHz 1100z	09/03	Fair	4m28s	PLdn	SAT
17453kHz 1110z	09/03	Fair	4m28s	PLdn	SAT
15953kHz 1120z	09/03	Fair	4m28s	PLdn	SAT
14953kHz 1130z	09/03	Fair	4m28s	PLdn	SAT
14353kHz 1140z	09/03	Fair	4m28s	PLdn	SAT
13553kHz 1150z	09/03	Fair	4m28s	PLdn	SAT
18253kHz 1100z	11/03	Fair	1m40s	PLdn	MON
17453kHz 1110z	11/03	Fair	1m40s	PLdn	MON
15953kHz 1120z	11/03	Fair	1m40s	PLdn	MON
14953kHz 1130z	11/03	Fair	1m40s	PLdn	MON
14353kHz 1140z	11/03	Fair	1m40s	PLdn	MON
13553kHz 1150z	11/03	Fair	1m40s	PLdn	MON
18253kHz 1100z	16/03	Weak	1m40s	PLdn	SAT
17453kHz 1110z	16/03	Weak	1m40s	PLdn	SAT
15953kHz 1120z	16/03	Fair	1m40s	PLdn	SAT
14953kHz 1130z	16/03	Fair	1m40s	PLdn	SAT
14353kHz 1140z	16/03	Weak	1m40s	PLdn	SAT
13553kHz 1150z	16/03	Weak	1m40s	PLdn	SAT
18253kHz 1100z	18/03	Fair	4m29s	PLdn	MON
17453kHz 1110z	18/03	Fair	4m29s	PLdn	MON
15953kHz 1120z	18/03	Fair	4m29s	PLdn	MON
14953kHz 1130z	18/03	Fair	4m29s QRM3	PLdn	MON
14353kHz 1140z	18/03	Fair	4m29s	PLdn	MON
13553kHz 1150z	18/03	Fair	4m29s	PLdn	MON
18253kHz 1100z	23/03	Weak	4m29s	PLdn	SAT
17453kHz 1110z	23/03	Weak	4m29s	PLdn	SAT
15953kHz 1120z	23/03	Weak	4m29s	PLdn	SAT
14953kHz 1130z	23/03	Weak	4m29s	PLdn	SAT
14353kHz 1140z	23/03	Weak	4m29s QRM4	PLdn	SAT
13553kHz 1150z	23/03	Weak	4m29s	PLdn	SAT
18253kHz 1100z	25/03	Weak	4m29s	PLdn	MON
17453kHz 1110z	25/03	Weak	4m29s	PLdn	MON
15953kHz 1120z	25/03	Weak	4m29s	PLdn	MON
14953kHz 1130z	25/03	Weak	4m29s QRM3	PLdn	MON
14353kHz 1140z	25/03	Weak	4m29s	PLdn	MON
13553kHz 1150z	25/03	Weak	4m29s	PLdn	MON
18253kHz 1100z	30/03	Weak	4m29s	PLdn	SAT
17453kHz 1110z	30/03	Weak	4m29s	PLdn	SAT
15953kHz 1120z	30/03	Fair	4m29s	PLdn	SAT
14953kHz 1130z	30/03	Weak	4m29s QRM3	PLdn	SAT
14353kHz 1140z	30/03	Fair	4m29s	PLdn	SAT
13553kHz 1150z	30/03	Fair	4m29s	PLdn	SAT

### April 2024

17474kHz 1200z	01/04	NRH		PLdn	MON
16274kHz 1210z	01/04	NRH		PLdn	MON
15974kHz 1220z	01/04	NRH		PLdn	MON
14974kHz 1230z	01/04	NRH		PLdn	MON
14374kHz 1240z	01/04	NRH		PLdn	MON
13874kHz 1250z	01/04	NRH		PLdn	MON
17474kHz 1200z	06/04	NRH		PLdn	SAT
16274kHz 1210z	06/04	NRH		PLdn	SAT
15974kHz 1220z	06/04	NRH		PLdn	SAT

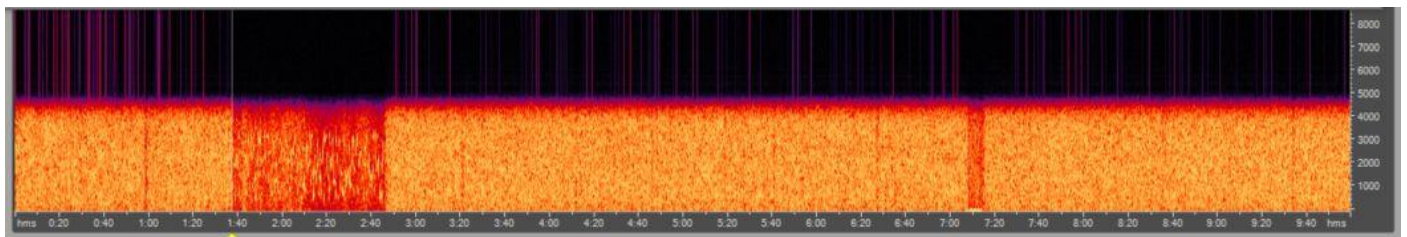
14974kHz	1230z	06/04	NRH	PLdn	SAT
14374kHz	1240z	06/04	NRH	PLdn	SAT
13874kHz	1250z	06/04	NRH	PLdn	SAT
17474kHz	1200z	08/04	NRH	PLdn	MON
16274kHz	1210z	08/04	NRH	PLdn	MON
15974kHz	1220z	08/04	NRH	PLdn	MON
14974kHz	1230z	08/04	NRH	PLdn	MON
14374kHz	1240z	08/04	NRH	PLdn	MON
13874kHz	1250z	08/04	NRH	PLdn	MON

**APPARENT END OF MON/SAT SCHEDULE**

**Wed/Sat**

**March 2024**

14621kHz	1200z	02/03	Fair	2m29s	PLdn	SAT
13921kHz	1210z	02/03	Fair	2m29s	PLdn	SAT
13421kHz	1220z	02/03	Fair	2m29s	PLdn	SAT
12121kHz	1230z	02/03	Fair	2m29s	PLdn	SAT
11121kHz	1240z	02/03	Weak	2m29s	PLdn	SAT
10421kHz	1250z	02/03	Weak	2m29s	PLdn	SAT



				13921kHz	1210z	06/03	Weak	LOS	1m08s transmitted only
14621kHz	1200z	06/03	Weak	4m28s		PLdn	WED		
13921kHz	1210z	06/03	Weak	LOS		PLdn	WED	1m08s transmitted only, see above	
13421kHz	1220z	06/03	Weak	4m28s		PLdn	WED		
12121kHz	1230z	06/03	Weak	4m28s		PLdn	WED		
11121kHz	1240z	06/03	Weak	4m28s		PLdn	WED		
10421kHz	1250z	06/03	NRH			PLdn	WED		
14621kHz	1200z	09/03	Fair	4m28s		PLdn	SAT		
13921kHz	1210z	09/03	Fair	4m28s		PLdn	SAT		
13421kHz	1220z	09/03	Fair	4m28s		PLdn	SAT		
12121kHz	1230z	09/03	Fair	4m28s		PLdn	SAT		
11121kHz	1240z	09/03	Weak	4m28s		PLdn	SAT		
10421kHz	1250z	09/03	Weak	4m28s		PLdn	SAT		
14621kHz	1200z	13/03	Fair	2m15s		PLdn	WED		
13921kHz	1210z	13/03	Fair	2m15s		PLdn	WED		
13421kHz	1220z	13/03	Fair	2m15s		PLdn	WED		
12121kHz	1230z	13/03	Fair	2m15s		PLdn	WED		
11121kHz	1240z	13/03	Weak	2m15s		PLdn	WED		
10421kHz	1250z	13/03	Weak	2m15s		PLdn	WED		
14621kHz	1200z	16/03	Fair	2m15s		PLdn	SAT		
13921kHz	1210z	16/03	Fair	2m15s		PLdn	SAT		
13421kHz	1220z	16/03	Fair	2m15s		PLdn	SAT		
12121kHz	1230z	16/03	Fair	2m15s		PLdn	SAT		
11121kHz	1240z	16/03	Weak	2m15s		PLdn	SAT		
10421kHz	1250z	16/03	Weak	2m15s		PLdn	SAT		
14621kHz	1200z	20/03	Fair	4m29s QRM3		PLdn	WED		
13921kHz	1210z	20/03	Fair	4m29s		PLdn	WED		
13421kHz	1220z	20/03	Fair	4m29s		PLdn	WED		
12121kHz	1230z	20/03	Fair	4m29s		PLdn	WED		
11121kHz	1240z	20/03	Weak	4m29s		PLdn	WED		
10421kHz	1250z	20/03	Weak	4m29s		PLdn	WED		
14621kHz	1200z	23/03	Fair	2m15s		PLdn	SAT		
13921kHz	1210z	23/03	Weak	2m15s		PLdn	SAT		
13421kHz	1220z	23/03	Fair	2m15s		PLdn	SAT		
12121kHz	1230z	23/03	Fair	2m15s		PLdn	SAT		
11121kHz	1240z	23/03	Weak	2m15s		PLdn	SAT		
10421kHz	1250z	23/03	Weak	2m15s		PLdn	SAT		

14621kHz	1200z	27/03	Weak	2m15s	PLdn	WED
13921kHz	1210z	27/03	Weak	2m15s	PLdn	WED
13421kHz	1220z	27/03	Weak	2m15s	PLdn	WED
12121kHz	1230z	27/03	Weak	2m15s	PLdn	WED
11121kHz	1240z	27/03	Weak	2m15s	PLdn	WED
10421kHz	1250z	27/03	Weak	2m15s	PLdn	WED

14621kHz	1200z	30/03	Fair	2m15s	PLdn	SAT
13921kHz	1210z	30/03	Fair	2m15s	PLdn	SAT
13421kHz	1220z	30/03	Fair	2m15s	PLdn	SAT
12121kHz	1230z	30/03	Weak	2m15s	PLdn	SAT
11121kHz	1240z	30/03	Weak	2m15s	PLdn	SAT
10421kHz	1250z	30/03	Weak	2m15s	PLdn	SAT

**April 2024**

13562kHz	1100z	03/04	Weak	2m15s	PLdn	WED
12162kHz	1110z	03/04	Weak	2m15s QRM3	PLdn	WED
11562kHz	1120z	03/04	Weak	2m15s	PLdn	WED
11162kHz	1130z	03/04	Weak	2m15s	PLdn	WED
10562kHz	1140z	03/04	Weak	2m15s	PLdn	WED
10262kHz	1150z	03/04	Weak	2m15s	PLdn	WED

13562kHz	1100z	06/04	Weak	2m15s	PLdn	SAT
12162kHz	1110z	06/04	Weak	2m15s	PLdn	SAT
11562kHz	1120z	06/04	Weak	2m15s	PLdn	SAT
11162kHz	1130z	06/04	Weak	2m15s	PLdn	SAT
10562kHz	1140z	06/04	Weak	2m15s	PLdn	SAT
10262kHz	1150z	06/04		QRM5	PLdn	SAT

13562kHz	1100z	10/04	Fair	4m28s	PLdn	WED
12162kHz	1110z	10/04	Fair	4m28s	PLdn	WED
11562kHz	1120z	10/04	Weak	4m28s	PLdn	WED
11162kHz	1130z	10/04	Weak	4m28s	PLdn	WED
10562kHz	1140z	10/04	Weak	4m28s	PLdn	WED
10262kHz	1150z	10/04	NRH		PLdn	WED

13562kHz	1100z	13/04	NOT MONITORED		PLdn	SAT
12162kHz	1110z	13/04	NOT MONITORED		PLdn	SAT
11562kHz	1120z	13/04	NOT MONITORED		PLdn	SAT
11162kHz	1130z	13/04	NOT MONITORED		PLdn	SAT
10562kHz	1140z	13/04	NOT MONITORED		PLdn	SAT
10262kHz	1150z	13/04	NOT MONITORED		PLdn	SAT

13562kHz	1100z	17/04	Weak	1m40s	PLdn	WED
12162kHz	1110z	17/04	Weak	1m40s	PLdn	WED
11562kHz	1120z	17/04	NRH	Poor condx	PLdn	WED
11162kHz	1130z	17/04	NRH	Poor condx	PLdn	WED
10562kHz	1140z	17/04	NRH	Poor condx	PLdn	WED
10262kHz	1150z	17/04	NRH	Poor condx	PLdn	WED

13562kHz	1100z	20/04	Weak	1m40s	PLdn	SAT
12162kHz	1110z	20/04	Weak	1m40s	PLdn	SAT
11562kHz	1120z	20/04	Weak	1m40s	PLdn	SAT
11162kHz	1130z	20/04	NRH		PLdn	SAT
10562kHz	1140z	20/04		QRM5	PLdn	SAT
10262kHz	1150z	20/04		QRM5	PLdn	SAT

13562kHz	1100z	24/04	Weak	4m28s	PLdn	WED
12162kHz	1110z	24/04	Weak	4m28s	PLdn	WED
11562kHz	1120z	24/04	Weak	4m28s	PLdn	WED
11162kHz	1130z	24/04	NRH	Poor condx	PLdn	WED
10562kHz	1140z	24/04	QRM5		PLdn	WED
10262kHz	1150z	24/04	NRH	Poor condx	PLdn	WED

**Other XPB1 Schedules [Fm H-FD]**

Mon 04.03.2024 0600Z 13562 MFSK-16 4:30  
 Mon 04.03.2024 0610Z 14362 MFSK-16  
 Mon 04.03.2024 0620Z 14862 MFSK-16  
 Mon 04.03.2024 0630Z 15962 MFSK-16  
 Mon 04.03.2024 0640Z 16262 MFSK-16  
 Mon 04.03.2024 0650Z 17462 MFSK-16

Tue 12.03.2024 1300Z 20072 MFSK-16 4:30  
 Tue 12.03.2024 1310Z 19572 MFSK-16  
 Tue 12.03.2024 1320Z 18372 MFSK-16  
 Tue 12.03.2024 1330Z 17472 MFSK-16  
 Tue 12.03.2024 1340Z 16272 MFSK-16  
 Tue 12.03.2024 1350Z 14972 MFSK-1



Tue 02.04.2024 0500Z 13527 MFSK-16 4:31  
 Tue 02.04.2024 0510Z 13927 MFSK-16  
 Tue 02.04.2024 0520Z 14727 MFSK-16  
 Tue 02.04.2024 0530Z 14927 MFSK-16  
 Tue 02.04.2024 0540Z 15827 MFSK-16  
 Tue 02.04.2024 0550Z 16327 MFSK-16

Fri 05.04.2024 1300Z 20038 MFSK-16 10/20 1:40  
 Fri 05.04.2024 1310Z 19538 MFSK-16  
 Fri 05.04.2024 1320Z 18268 MFSK-16  
 Fri 05.04.2024 1330Z 17468 MFSK-16  
 Fri 05.04.2024 1340Z 16268 MFSK-16  
 Fri 05.04.2024 1350Z 15868 MFSK-16

# Tones, Hybrids and FSK

## X06 Mazielka (1c) logs section

Date	Day UTC	Freq	Scale	Monitor	Comments
20240301	Fri 1019-1028	14824	625413	Dave/AU	TX to Tel Aviv, G56
20240301	Fri 1314	16320	241563	RadiotehnikaT	TX to Karachi, G50
20240304	Mon 0849-0852	12199	532614	Planespotter	TX to Paris, G4
20240304	Mon 0929-0939	20675	641523	Andrew/SE	Alert3 (TX to Lusaka, G5) 1
20240304	Mon 0939-0947	23355	641523	Andrew	3.2
20240304	Mon 0947-0949	18750	641523	Andrew	3.3
20240306	Wed 0926-0930	17445	362154	Ary, Dave	TX to Athens, G32
20240306	Wed 1122-1125	16115	215346	Dave	TX to Mumbai, G25
20240306	Wed 1233-1242	19878	231654	Dave	TX to Abuja, G422
20240307	Thu 0803-0804	17534	351264	Ary, Dave	TX to Abu Dhabi, G440
20240307	Thu 0935-0938	18197	645321	Dave	TX to Ho Chi Minh City, G410
20240310	Sun 1145	14865	261453	Andrew	TX to Cairo, G138
20240311	Mon 0955-1003	16117	463125	Dave	TX to Rabat, G77
20240312	Tue 0822-0825	14861	542136	Dave	TX to Beijing, G88
20240312	Tue 1000-1005	13510	612534	Andrew	TX to Ashgabat, G89
20240312	Tue 1031-1032	17470	216354	Andrew	TX to Chennai, G388
20240313	Wed 0757	18177	164253	Dave	TX to Addis Ababa, G395
20240313	Wed 0835-0836	13369	412356	Dave	TX to Budapest, G97
20240313	Wed 0906-0907	11153	465132	Dave	TX to Sofia, G100
20240314	Thu 0813-0815	16153	153624	Dave	TX to Damascus, G249
20240314	Thu 0842-0854	19611	256134	Eddy/AU	TX to Abidjan, G110
20240315	Fri 0829-0835	14425	213546	Ary, Andrew	TX to Islamabad, G390
20240315	Fri 1026-1039	13547	625413	Ary, Dave	Alert2 (TX to Tel Aviv, G193) 1
20240315	Fri 1036-1041	14824	625413	Ary, Andrew	2.2
20240318	Mon 0831-0834	14377	432516	Ary, Dave	TX to Bern, G341
20240318	Mon 0851	12199	532614	Ary	TX to Paris, G147
20240318	Mon 0955-1004	20675	641523	Ary, Dave	Alert2 (TX to Lusaka, G337) 1
20240318	Mon 1004-1007	23355	641523	Ary, Dave	2.2
20240319	Tue 0754-0757	15989	125643	Andrew	TX to Ulanbatar, G383
20240319	Tue 0943-0947	15687	154263	Andrew	TX to Rome, G148
20240319	Tue 0959	12194	1-----	Andrew	X06d
20240319	Tue 1003	12139	1-----	Andrew	X06d
20240320	Wed 1106	17456	16-1-6	Andrew	X06b before XPA2
20240320	Wed 1117	13920	16-1-6	Andrew	X06b
20240320	Wed 1118-1138	16115	215346	Andrew	TX to Mumbai, G167
20240320	Wed 1244	19878	231654	RadiotehnikaT	TX to Abuja, G423
20240320	Wed 1540-1542	14501	214356	RadiotehnikaT	TX to Amman, G394
20240321	Thu 0850-0859	18575	352416	Andrew	TX to Dar es Salaam, G179
20240321	Thu 0933-0935	18197	645321	Andrew	TX to Ho Chi Minh City, G417(1)
20240321	Thu 1224-1226	12100	123456	RadiotehnikaT	X06c
20240322	Fri 1001	17451	16-412	Andrew	X06b before E07
20240322	Fri 1007-1016	17463	256134	Ary, Dave	Alert2 (TX to Abidjan, G270) 1
20240322	Fri 1017-1026	20605	256134	Ary, Dave	2.2
20240324	Sun 1030-1032	15810	145632	Andrew	TX to Algiers, G284
20240324	Sun 1127-1140	16060	261453	Andrew	TX to Cairo, G285
20240325	Mon 0849-0850	17475	156234	Andrew	TX to Kampala, G203
20240325	Mon 0930-0946	19235	463125	Andrew	Alert2 (TX to Rabat, G222) 1
20240325	Mon 0947-1001	16117	463125	Anon24257	2.2
20240326	Tue 0801-0803	11545	534216	Andrew	TX to Bagdad, G232
20240326	Tue 0828-0833	17523	542136	Dave	Alert2 (TX to Beijing, G88) 1
20240326	Tue 0834-0839	16257	542136	Andrew	2.2
20240326	Tue 1008-1011	16317	612534	Dave	TX to Ashgabat, G234
20240326	Tue 1023-1029	17470	216354	Dave	TX to Chennai, G228

20240327	Wed	0741-0751	20950	435621	Andrew	TX to Maputo, G244
20240327	Wed	0803-0806	18177	164253	Ary, Andrew	TX to Addis Ababa, G402
20240327	Wed	0833-0837	11483	412356	Ary, Andrew	TX to Budapest, G243
20240327	Wed	0904-0907	13419	465132	Andrew	TX to Sofia, G246
20240327	Wed	0957	14956	1--6--	Andrew	X06b
20240328	Thu	0801-0805	14419	521634	Ary, Andrew	TX to Bucharest, G261
20240328	Thu	0806-0808	16153	153624	Ary, Andrew	Alert1 (TX to Damascus, G249) 1
20240328	Thu	0810	16153	153624	Ary	1.2
20240401	Mon	0643-0645	12122	165324	Andrew	TX to Vienna, G1
20240401	Mon	0746-0747	12152	432516	Dave	TX to Bern, G6
20240401	Mon	0806-0810	11438	532614	Ary, Dave	TX to Paris, G4
20240402	Tue	1706-1709	12124	246531	Andrew	TX to Accra, G16
20240403	Wed	1117-1119	16115	215346	Ary, Andrew	TX to Mumbai, G25
20240403	Wed	1242	18245	231654	RadiotehnikaT	Alert3 (TX to Abuja, G422) 1
20240403	Wed	1300	16103	231654	Ary	3.2
20240403	Wed	1305	19878	231654	RadiotehnikaT	3.3
20240404	Thu	0715-0717	17517	314265	Ary, Dave	TX to Antananarivo, G380
20240404	Thu	0741-0752	18575	352416	Ary, Andrew	TX to Dar es Salaam, G43
20240404	Thu	0758	15859	161616	Andrew	X06a
20240404	Thu	0804-0806	17534	351264	Ary, Andrew	TX to Abu Dhabi, G440
20240404	Thu	0929-0931	18197	645321	Ary, Dave	TX to Ho Chi Minh City, G410
20240404	Thu	1408	17468	436512	RadiotehnikaT	TX to Harare, G44
20240408	Mon	0818-0822	17475	156234	Andrew	TX to Kampala, G68
20240408	Mon	0926-0931	16117	463125	Dave	TX to Rabat, G77
20240409	Tue	0757-0800	13420	534216	Anon40174	TX to Bagdad, G87
20240409	Tue	0816-0821	17523	542136	Andrew	TX to Beijing, G88
20240409	Tue	1018-1022	20813	216354	Dave	TX to Chennai, G388
20240414	Sun	1128-1131	15710	261453	Dave	TX to Cairo, G138
20240415	Mon	0651-0653	12122	165324	RadiotehnikaT	TX to Vienna, G145
20240415	Mon	0740-0742	12152	432516	Andrew	TX to Bern, G341
20240415	Mon	0758-0803	12199	532614	Andrew	TX to Paris, G147
20240415	Mon	0912-0915	12177	356412	Andrew	TX to Berlin, G443 (new)
20240415	Mon	0942-0950	23355	641523	Dave	Alert2 (Lusaka, G337) 1 Faint
20240415	Mon	0950-1003	20675	641523	Dave	2.2
20240416	Tue	0830-0836	15687	154263	Ary, Andrew	TX to Rome, G148
20240416	Tue	0859	17454	325614	Dave	TX to Nairobi, G400
20240416	Tue	0918-1126	11240	1----	RadeiotehnikaT	Very long X06d
20240417	Wed	1115-1125	16115	215346	Ary, Dave	TX to Mumbai, faint in AU, G167
20240417	Wed	1230-1236	18245	231654	Ary, Dave	TX to Abuja, G423
20240418	Thu	0622	12100	123456	RadiotehnikaT	X06c
20240418	Thu	0737-0744	19511	314265	Andrew	Alert2 (Antananarivo, G178) 1(2)
20240418	Thu	0738-0755	18575	352416	Andrew	Alert7 (Dar es Salaam, G179) 1
20240418	Thu	0744-0746	21825	314265	Andrew	2.2(3)
20240418	Thu	0755-0803	19405	352416	Andrew	7.2
20240418	Thu	0803-0816	14950	352416	Andrew	7.3
20240418	Thu	0811-0815	17534	351264	Andrew	TX to Abu Dhabi, G435
20240418	Thu	0835-0839	16132	352416	Andrew	7.4
20240418	Thu	0841	16132	352416	Andrew	7.5
20240418	Thu	0946-0957	20837	645321	Radio-Fan,Dave	TX to Ho Chi Minh City, G417
20240418	Thu	1328	17468	436512	Ary	TX to Harare, G180
20240419	Fri	0622	12320	1--6-4	Andrew	X06b
20240419	Fri	0848-0851	13954	213546	Andrew	TX to Islamabad, G390
20240419	Fri	1022-1029	12194	625413	Andrew	TX to Tel Aviv, G193
20240422	Mon	0904-0936	13940	156234	Andrew	Alert2 (TX to Kampala, G203) 1
20240422	Mon	0936-0939	20690	156234	Andrew	2.2
20240422	Mon	0939-0945	13517	463125	Andrew	Alert2 (TX to Rabat, G222) 1
20240422	Mon	0945-0949	16117	463125	Andrew	2.2
20240423	Tue	0801-0803	13420	534216	Andrew	TX to Bagdad, G232
20240423	Tue	0802	17523	542136	Andrew	TX to Beijing, G88
20240424	Wed	0801-0802	20950	435621	Andrew	TX to Maputo, S5, G244
20240426	Fri	0457	15920	216435	Ary	TX to Dhaka, G336
20240426	Fri	1001-1029	20605	256134	Dave	TX to Abidjan, G270

1) 0935-0936 UTC: MFSK-66

2) 0724 UTC: MFSK-66

3) 0726 and 0732 UTC: serdo selcal

Many thanks to all contributors. Till the next issue as usual: Good-bye, and please stay healthy!

Jochen Schäfer, Numbers-, X06 Database and Teamkopf

# HM01

Some previous February 2024 logs from **RAF**:

HM01 14375kHz	2300z	13/2/2024	85013 46784 76667 80786 85639 00022	TUE
HM01 13435kHz	2100z	15/2/2024	85015 46786 76669 80788 47311 00024	THU
HM01 14375kHz	2200z	15/2/2024	85015 46786 76669 80788 47311 00024	THU
HM01 11530kHz	1700z	27/2/2024	64488 58479 41822 87812 15251 68015	TUE
HM01 14375kHz	2200z	27/2/2024	64488 58479 41822 87812 15251 68015	TUE
HM01 11435kHz	1600z	29/2/2024	64782 20432 41825 87815 15253 72821	THU
HM01 13435kHz	2100z	29/2/2024	64782 20432 41825 87815 15253 72821	THU
HM01 14375kHz	2200z	29/2/2024	64782 20432 41825 87815 15253 72821	THU
HM01 14375kHz	2300z	29/2/2024	64782 20432 41825 87815 15253 72821	THU (BC station in background, probably left running from the 2200z TX)

March 2024

HM01 11435kHz	1600z	3/3/2024	64787 20437 84452 12671 15288 72825	SUN
HM01 11435kHz	1600z	4/3/2024	64488 58479 41822 87812 15251 68015	MON (Reverted to numbers from 27/2/2024) MON

13425kHz 2140z 02/03 24450 15756 etc Weak, with local QRM3/4 PLdn SAT

14735 kHz, 07-03, 0605 UTC. Repeat of 29 February

Groups 64782 20432 41825 87815 15253 72821

Files 72126478.TXT 16482043.TXT 46504182.TXT 34738781.TXT 61411525.TXT 20777282.TXT

Callsign QWERTY01 Ary THU

**On 10<sup>th</sup> April Ary** writes, "HM01 dropped its 1600, 1700, 1800 UTC slots since Radio Habana Cuba extended its programs on 11760 kHz. As long as they are on the air on that freq, HM01 is silent

**From PoSW:** The mixed mode station from Cuba has been heard on 13435 kHz with a nominal start time of 0655 UTC on Tuesdays, Thursdays and Saturdays in March and April although the timing continues to be erratic. It has also been logged on this frequency much later in the day, just before or soon after 2100 UTC, on a few occasions. Everything below on 13435 unless otherwise stated,

2-Mar-24, Saturday:- 0717 UTC, in preamble/call mode, weak signal, difficult copy, "84451 87818..." - possibly in there. Data sounds heard after 0721z.

2107 UTC:- surprised to find HM01 on 13435 at seven minutes past nine in the evening.  
Not a strong signal, became weaker, sounded like "72823 64785 20435 84451 87818 15256", but all "??".

5-Mar-24, Tuesday:- tuned in around 0710 UTC, very strong wide-band buzz signal extending from about 13428 to 13450 kHz, presumably someone's over-the-horizon radar which is always on somewhere in the short-wave spectrum these days.

2058 UTC:- in call mode when tuned in, weak signal made worse by low level of modulation sounded like "58479 64488 41822..." Stayed with it and heard the call routine at 2125z, "64488 58479 41822 87812 15251 68015", again "query". Data sounds just after 2125z.  
Went into call mode again at 2154z then went off air a couple of minutes later.

9-Mar-24, Saturday:- nothing readable on 13435 early or late.

14-Mar-24, Thursday:- very weak signal heard just after 0700 UTC, unreadable, appeared to be in call mode at 0723z.  
Very weak signal, unreadable, heard around 2139 UTC.

26-Mar-24, Tuesday:- 0706 UTC – on 14375 and not 13435; weak, difficult copy, "55464 58756 86562 63778..." (?) vanished off air shortly after.  
Very weak signal on 13435 at 0712z.  
2107 UTC:- weak carrier on 13435, no voice or data sound heard.

28-Mar-24, Thursday:- tuned to 13435 just after 0700 UTC, the OTHR buzz heard on the 5th, above, spanning 13427 to 13453 roughly, very strong, was back again, went off after 0735z, weak carrier on frequency, probably HM01 but no voice or data discernible.

30-Mar-24, Saturday:- 0655 UTC, was in progress when tuned in, very strong FSK/data signal came on making copy of HM01 impossible. Had gone when checked again at 0710 UTC, HM01 signal strength up and down, went into call mode at 0716z, "46265 68139 60674 00779 51076 75446", data sounds after 0719z.  
2103 UTC:- very weak signal on 13435, unable to confirm as HM01.

2-Apr-24, Tuesday:- 0704 UTC, with the start of British Summer Time this is now 8.04 AM, transmission in progress, somewhat stronger signal than recently, "83111 65362 60677 73412 68041 75449".

6-Apr-24, Saturday:- 0658 UTC, transmission in progress with 5Fs and data sounds when tuned in, went into call routine around 0712z, "83116 14631 23264 73418 68046 88035", data sounds after 0715z. Signal much weaker by 0720z.  
Nothing heard on this frequency later in the day when checked several times after 2100z.

9-Apr-24, Tuesday and 11-Apr-24, Thursday:- Nothing heard when monitored from 0655 to approx 0720 UTC on both days.

13-Apr-24, Saturday:- Nothing heard when monitored just before 0700 UTC but was on when checked half an hour later:-  
0728 UTC, strong signal with better than usual modulation, "68139 60674 00779 51076 75446 46265". Left a receiver running on this frequency and was somewhat surprised to find HM01 still going upon returning over an hour later:-  
0851 UTC, weaker signal than earlier but readable, was still on at 0900z, had gone when checked at 0913z.

16-Apr-24, Tuesday:- Again, no sign when checked a few minutes before 0700 UTC but was on later:-  
0716 UTC, wide variations in signal strength, well over S9 at times, "10327 00451 44626 36161 58711 78616".

18-Apr-24, Thursday:- 0716 UTC, transmission in progress, went into call routine at 0718, "85181 00453 44628 36162 58712 03301", peaking over S9 with the usual fading up and down, data sounds at 0721:20s. Went into call routine again around 0746z. Was still on this frequency when checked at 0805.

20-Apr-24, Saturday:- tuned in to 13435 at 0658 UTC only to find that OTHR signal had returned, very strong and extending from approx 13430 to 13455 kHz. Had gone when checked again at 0721 UTC, HM01 very weak, unreadable.

23-Apr-24, Tuesday:- 0652 UTC, tuned in to 13435 eight minutes before the hour to find HM01 in progress - the frequency used in the past for a transmission starting at some time after 0555z, 14375 kHz, had been monitored several times in the previous hour but nothing had been heard. Into call routine around 0655z, "83119 14633 23267 26862 20261 88038", data sounds after 0658z, signal strong and at times very strong. Went into call mode again around 0725z then data sounds after 0728, signal now weaker than earlier. Checking again at 0738z the OTHR buzz had appeared extending from 13433 to 13453 kHz but not as strong as on previous occasions.

25-Apr-24, Thursday:- Nothing heard when monitored from 0650 UTC onwards, carrier came up around 0707, went off then came back and into data mode. Went into call routine after 0710 UTC, "10322 14636 44621 26865 20263 78611", data sounds shortly before 0714. Strong signal, was still on this frequency when checked at 0805 UTC. Nothing heard on 14375 in the previous hour.

27-Apr-24, Saturday:- A big disappointment this morning, very weak signal at 0658 UTC, only detectable by using the receiver in USB mode and shifting the tuning to produce a heterodyne note, unreadable. Data sounds and YL voice heard occasionally way down in the noise, "10324" may have been in there somewhere, the ionosphere must have gone all bugger-up at some point in the past forty-eight hours.

Finally, further input from RAF who sends:

HM01 11435kHz 25/3 1600z 55464 58756 86562 63778 73615 41325 MON  
HM01 11435kHz 26/3 1600z 46261 68314 86568 00774 51071 75441 TUE  
HM01 11635kHz 27/3 1900z 46262 68136 60671 00776 51073 75443 WED  
HM01 11635kHz 31/3 0600z 46266 65361 60675 73411 51077 75447 SUN

HM01 11435kHz 1/4 1600z 46267 65361 60676 73411 51078 75448 MON  
HM01 11530kHz 1/4 1700z 46267 65361 60676 73411 51078 75448 MON  
HM01 11635kHz 21/4 2100z 03304 85184 00457 42443 36166 58716 SUN  
HM01 10715kHz 21/4 2100z 03304 85184 00457 42443 36166 58716 SUN  
HM01 11635kHz 23/4 2100z 83119 14633 23267 26862 20261 88038 TUE  
HM01 10715kHz 23/4 2100z 83119 14633 23267 26862 20261 88038 TUE  
HM01 10715kHz 29/4 2200z 10326 00451 44625 26869 20267 78615 MON

HM01 11635kHz 5/5 0600z 85816 00459 42445 36168 56711 03306 SUN

The conditions experienced by this monitor were much the same elsewhere; pretty poor figures unless you wanted to go spotting the Northern Lights!

*Received with much thanks!*

## Gizza Job

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- Do you enjoy exploring new cultures and want to live overseas?
- Are you a super-networker looking for a flexible role?

If you have British nationality and over 5 years' professional experience, don't self-censor.  
Send your CV and covering letter to PO Box 80853, London, N1P 3UB

 **SECRET INTELLIGENCE SERVICE MI6**

From E

Any one own a top notch gaff for renting?

This reminded me of a raid on a certain African embassy in South Ken where tons of illicit tobacco was discovered, all duty free of course. Then there's the story of another using diplomatic cars as mini-cabs for a little extra in the pocket.

Then there was an uncle in my family who drove for an embassy and who lent the car out to his brother. His brother was unfit to drive due to being inebriated. He ran into another car at Scotch Corner and claimed diplomatic immunity.

Another was an official car that was driven into the back of another official car [eastern European] by its Arabian driver, nicely parked. Oh dear, what a mess and rumours of breath screening done elsewhere.....

Read on!

## REPUBLIC OF KENYA



### KENYA HIGH COMMISSION

#### 1.0 BACKGROUND INFORMATION

The Ministry of Foreign and Diaspora Affairs Mission is to project, promote and protect Kenya's interest and image globally through innovative diplomacy, and contribute towards a just, peaceful and equitable world.

Kenya's long-standing relations with the United Kingdom are critical to the shifting global dynamics, in which context the Kenya High Commission in London retains an essential function, not least of which is catering for the interests of our diaspora. The Government of Kenya therefore seeks to purchase a Chancery for use by its High Commission in London.

#### 2.0 PROPERTY CHARACTERISTIC

- a) **Location:** Suitability of the neighbourhood for Diplomatic Mission. Close proximity to other diplomatic missions. Easily accessible using the existing transportation links. Free from environmental hazards.
- b) **Security:** Secure neighbourhood, with measures in place to safeguard the Diplomatic Mission and its staff such as controlled access points and the ability to monitor and restrict entry.
- c) **Status of the Property:** In a good state of repair and maintenance both internally and externally. Free from structural defects. Ready for immediate occupation. Internal partitioning permitted.
- d) **Utility services:** Should be well served by trunk water, electricity and sewer and fiber-optic internet.
- e) **Available Space:** Sufficient space – including offices, meeting rooms, reception areas, and other necessary facilities. Functional complementarity. Minimum 9,000 square feet of office space.
- f) **Tenure:** Should have unencumbered ownership document (provide copy of official search). Free hold or at leasehold of at least 99 years.
- g) **Parking:** A minimum of four (4) parking slots.
- h) **Layout:** A layout that allows for flexibility in office configuration to accommodate the changing needs of diplomatic activities.

- i) **Accessibility:** Accessible by persons with disabilities.
- j) **Rights:** Right of use as a diplomatic property and right to undertake alterations

#### 3.0 REQUIREMENTS

Through the Kenya High Commission in London, the Government of Kenya invites interested/eligible bidders to indicate their interest in providing the properties for purchase. Interested firms should provide information demonstrating that they have properties that meet the minimum specifications required. The Expressions of Interest should comprise the details of the property characteristics as provided above, as well as copies of ownership documents and recent official search. Shortlisted bidders will later be invited to submit technical and financial proposals including survey maps and building plans.

#### 4.0 CLARIFICATIONS

Interested parties may request for clarifications up to five (5) days before the submission deadline. Any clarification to be sent in writing by paper mail to the Kenya High Commission, 45 Portland Place, London W1B 1AS Tel +44 020 7636 2371 Fax +44 20 7323 1932 or via email address: info@kenyahighcom.org.uk

#### 5.0 SUBMISSIONS:

Expression of Interest should be submitted in a sealed envelope clearly marked, 'Expression of interest' and should be addressed to:

**The High Commissioner  
Kenya High Commission  
LONDON W1B 1AS**

or placed in the tender box provided at the Kenya High Commission so as to be received on or before 15th March 2024 at 5pm.

The bids will be opened immediately thereafter in the presence of bidders' representatives who choose to attend at the Kenya High Commission offices.

The Government of Kenya reserves the right to accept or reject any or all proposals.

**THE HIGH COMMISSIONER**

# Chart Section Index

**Predictions**

**M01 Schedule**

**Family III**

**Polytones, XPA1, XPA2**

**En142**  
**May 2024**

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
x		x					0315		E11	03	14972 25#	14972 25#
x	x	x	x	x	x	x	0400		V13	0	8169,11430	8159,13974
x	x	x	x	x			0400/0420		S06	01A	11616/ 9322 480	11616/ 9322 480
	x		x				0445		S11A	03	9968 79#	9968 79#
x							0450		E11	03	7469 41#	7469 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	9725,18040	11430
x	x						0500/0510/0520 0530/0540/0550		XPB1	01B	13435/13935/14435 14835/15935/16225	11559/12159/13459 13959/14459/14959
x	x	x	x	x			0500/0520		M14	01A	12211/10243 952	12211/10243 952
	x		x				0500/0520/0540		XPA2	01B	11168/12168/13368	10315/11115/12215
			x	x			0500/0600	1/3	E06	01A	14565/16125 460	13985/15830 328
x		x					0510		S11A	03	23004 65#	23004 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	94# <b>search</b>	94#
				x		x	0600		E11	03	9150 35#	9150 35#
x	x	x	x	x	x	x	0600		V13	0	11430	11430
		x			x		0600/0620/0640		M12	01B	10348/11548/12148 351	10216/11516/12216 252
	x			x			0620		M01A	14	10233 or 10235 354/458	10233 or 10235 354/458
		x	x				0620		M01A	14	9421 135	9421 135
	x			x			0630		M01A	14	9447 143/796	9447 143/796
		x	x				0630		M01A	14	8111 902/536	8111 902/536
	x		x				0645		E11	03	8091 51#	8091 51#
x		x		x		x	0655		HM01	18	9330	9330
	x		x		x		0655		HM01	18	13435	13435
x			x				0700		S11A	03	9339 47#	9339 47#
	x			x			0700		E11	03	8680 57#	8680 57#
					x	x	0700		E11	03	7377 49#	7377 49#
x	x	x	x	x	x	x	0700		V13	0	15388	15388

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
						x	0700		M01	01B	6780 025	6780 025
x		x					0700/0720/0740		XPA2	01B	12148/13448/13948	12148/13448/13948
						x	0700/0720/0740		V07	01B	14469/13369/12169 431	13927/13427/12127 942
	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	<b>x18030</b> 75# <b>search</b>	x18030 75#
	x			x			0715		E11	03	<b>x10429</b> 63# <b>search</b>	x10429 63#
					x	x	0715		M01	14	<b>search</b>	<b>search</b>
	x			x			0720		M01A	14	9151 728	9151 728
		x		x			0725		S11A	03	20905 38#	20905 38#
						x	0730/0800		S06	01A	<b>search</b> 480, somet. E06	
x							0745		E11	03	9610 26#	9610 26#
	x		x				0745		E11	03	14940 22#	14940 22#
		x		x			0745		E11	03	15720 34#	15720 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	15388	15388
				x		x	0800/0820/0840		XPA2	01B	13942/14942/15942	13373/13973/14973
	x	x					0820		E11	03	17378 13#	17378 13#
			x	x			0820		E11	03	7391 43#	7391 43#
x				x			0830		E11	03	16335 18#	16335 18#
					x	x	0830		S11A	03	5149 37#	5149 37#
x		x					0845		E11	03	12815 71#	12815 71#
	x		x				0845		E11	03	19184 15#	19184 15#
		x		x		x	0855		HM01	18	9240	9240
	x		x		x		0855		HM01	18	11462	11462
x		x					0900		E11	03	<b>x9052</b> 53# <b>search</b>	x9052 53#
x		x					0910/0930/0950		XPA2	01B	17431/15841/13934	17417/15812/14504
			x		x		0910/0930/0950		XPA2	01B	14794/13994/12194	13527/12227/11427
x				x			0915		S11A	03	6814 48#	6814 48#
		x	x				0930		E11	03	6923 27#	6923 27#



Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
x	x	x	x	x	x	x	0930		M14	01A	16347 10.&25. 14878 11.&26. when msg	16347 10.&25. 14878 11.&26. when msg
		x					0930/1030		S06	01A	14975/12093 480	<b>search</b>
x		x		x		x	0955		HM01	18	9155	9155
	x		x		x		0955		HM01	18	12180	12180
	x			x			1000		E11	03	12153 30#	12153 30#
	x	x	x	x			1015/1025/1035		F01	01A	11414/ 9317/ 7572	11487/ 9376/ 7591
x		x					1045		E11	03	<b>x12089</b> 69# <b>search</b>	x12089 69#
		x			x		1100/1110/1110 1130/1140/1150		XPB1	01B	13961/13361/12161 11461/10761/10161	13876/13376/12176 11576/10676/10276
	x			x			1100/1120/1140		XPA2	01B	16159/14359/13459	15874/14474/13374
		x	x				1100/1120/1140		XPA2	01B	16147/15847/14747	15982/14982/13882
x	x	x	x	x	x	x	1200		V13	0	9276,13974	9276,13974
x					x		1200/1210/1210 1230/1240/1250		XPB1	01B	16329/15929/14829 14429/13929/13529	15876/14876/14376 13976/13376/12176
	x	x					1205		E11	03	6304 46#	6304 46#
		x		x			1210/1230/1250		XPA1	01B	13419/12219/11419	13535/12145/11145
x			x				1300		E11	03	5737 31#	5737 31#
x	x	x	x	x	x	x	1300		V13	0	7688,11430	7688,11430,13974
	x			x			1300/1310/1310 1330/1340/1350		XPB1	01B	20061/19361/18261 17461/16261/14961	20047/19247/18247 17447/16247/14947
	x	x	x				1325/1425 sporadic		S06	01A	<b>search</b>	~14768/11444 583
	x			x			1400		S11A	03	9448 42#	9448 42#
x			x				1400/1420/1440		M12	01B	20282/19482/1382 243	
			x		x		1410/1430/1450		E07	01B	15836/14536/13536 157	13417/14717/15817 603
	x				x		1430		E11	03	12984 91#	12984 91#
					x		1500		M01	14	6435 025	6435 025
	x	x	x				1500/1600 sporadic		S06	01A	<b>search</b>	13944;11496 387
	x			x			1500/1520/1540		E07	01B	16132/18232/19432 124	14945/16145/18245 912
					x		1500/1520/1540		XPA2	01B	15938/14538/13438	14892/13492/12192
			x				1530		E11	03	10356 26#	10356 26#
x	x	x	x	x	x	x	1555		HM01	18	11435	11435
x			x				1600/1620/1640		M12	01B		17427/16327/14627 436
	x		x				1600/1620/1640		XPA2	01B	13538/14438/14938	13417/14817/15917
					x		1600/1630		S06	01A	<b>search</b> 480, somet. E06	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...
	x					x	1605		E11	03	5231 23#	5231 23#
		x			x		1610		E11	03	4783 39# <b>check</b>	4783 39#
	x		x				1645		E11	03	14575 33#	14575 33#
					x	x	1645		E11	03	5082 36# <b>check</b>	5082 36#
x	x	x	x	x	x	x	1655		HM01	18	11530	11530
		x		x			1715		E11	03	7863 97#	7863 97#
			x				1730		E11	03	8088 41#	8088 41#
x						x	1745		E11	03	14410 24#	14410 24#
x	x	x	x	x	x	x	1755		HM01	18	11635	11635
	x		x				1800		M01	14	5280 025	5280 025
		x		x			1800/1820/1840		XPA2	01B	15872/14972/13872 <b>check</b>	17474/16274/14574
					x		1800/1820/1840		M12	01B	11435/10598/ 9227 938	11435/10598/ 9227 938
				x		x	1815		E11	03	12229 92#	12229 92#
	x			x			1840/1850/1900	1	F01	01A	14363/12189/10346	14621/12206/10465
		x			x		1850		S11A	03	12457 28#	12457 28#
x			x				1900		E11	03	7600 64#	7600 64#
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
		x		x			1900/1920/1940		M12	01B	15936/14736/13536 975	15823/14823/13923 889
				x			1900/2000	1/3	S06	01A	<b>search</b> 842	842
				x		x	1910		E11	03	9610 61#	9610 61#
			x			x	2000		E11	03	5409 52#	5409 52#

## 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	Mar kHz, ID, ...	Apr kHz, ID, ...	May kHz, ID, ...	Jun kHz, ID, ...	Remarks
x							0315		E11	03	11581 25#	11581 25#	14972 25#	14972 25#	since 01/14, last log 04/24
	x		x				0445		S11A	03	10728 79#	10728 79#	9968 79#	9968 79#	since 05/22, last log 04/24
x							0450		E11	03	5371 41#	5371 41#	7469 41#	7469 41#	since 02/10, last log 04/24 2nd transmission Thu 1730z
	x		x				0505		E11	03					since 10/11, last log 02/24 Mar/Apr/Sep/Oct at 1230z, Mai-Aug at 1645z
x		x					0510		S11A	03	23004 65#	23004 65#	23004 65#	23004 65#	since 08/19, last log 04/24
x		x					0600		E11	03	19515 94#	19515 94#	94# search	94#	since 07/17, last log 04/24
				x		x	0600		E11	03	8680 35#	8680 35#	9150 35#	9150 35#	since 04/15, last log 04/24
x		x					0645		E11	03	8423 51#	8423 51#	8091 51#	8091 51#	since 07/09, last log 04/24
x			x				0700		S11A	03	8597 47#	8597 47#	9339 47#	9339 47#	since 04/10, last log 04/24
	x			x			0700		E11	03	8180 57#	8180 57#	8680 57#	8680 57#	since 01/12, last log 04/24
					x	x	0700		E11	03	9079 49#	9079 49#	7377 49#	7377 49#	since 07/15, last log 04/24
x		x					0715		E11	03	15632 75#	19515 75#	x18030 75# search	x18030 75#	since 06/21, last log 04/24
	x			x			0715		E11	03	15720 63#	15720 63#	x10429 63# search	x10429 63#	since 02/11, last log 04/24
		x		x			0725		S11A	03	21854 38#	21854 38#	20905 38#	20905 38#	since 05/14, last log 04/24
x							0745		E11	03	10213 26#	10213 26#	9610 26#	9610 26#	since 03/14, last log 04/24 2nd transmission Thu 1530z
	x		x				0745		E11	03	14865 22#	14865 22#	14940 22#	14940 22#	since 01/20, last log 04/24
		x		x			0745		E11	03	17410 34#	17410 34#	15720 34#	15720 34#	since 06/17, last log 04/24
	x	x					0820		E11	03	19184 13#	19184 13#	17378 13#	17378 13#	since 12/18, last log 04/24
			x	x			0820		E11	03	6807 43#	6807 43#	7391 43#	7391 43#	since 10/09, last log 04/24
x				x			0830		E11	03	20170 18#	20170 18#	16335 18#	16335 18#	since 07/15, last log 04/24
					x	x	0830		S11A	03	6433 37#	6433 37#	5149 37#	5149 37#	since 02/14, last log 04/24
x		x					0845		E11	03	12202 71#	12202 71#	12815 71#	12815 71#	since 09/10, last log 04/24
	x		x				0845		E11	03	18168 15#	18168 15#	19184 15#	19184 15#	since 07/17, last log 04/24
x		x					0900		E11	03	13117 53#	13117 53#	x9052 53# search	x9052 53#	since 10/05, last log 04/24
x				x			0915		S11A	03	6480 48#	6480 48#	6814 48#	6814 48#	since 04/19, last log 04/24
		x	x				0930		E11	03	6940 27#	6940 27#	6923 27#	6923 27#	since 02/14, last log 04/24
	x			x			1000		E11	03	9951 30#	9951 30#	12153 30#	12153 30#	since 11/16, last log 04/24
x		x					1045		E11	03	10200 69#	12385 69#	x12089 69# search	x12089 69#	since 03/18, last log 04/24
	x	x					1205		E11	03	9399 46#	9399 46#	6304 46#	6304 46#	since 03/10, last log 04/24
x		x					1230		E11	03	12530 33#	12530 33#			since 10/11, last log 04/24 May-Aug at 1645z, Nov-Feb at 0505z
x			x				1300		E11	03	5371 31#	5371 31#	5737 31#	5737 31#	since 07/14, last log 04/24
	x			x			1400		S11A	03	11420 42#	11420 42#	9448 42#	9448 42#	since 02/10, last log 04/24
x					x		1430		E11	03	14972 91#	14972 91#	12984 91#	12984 91#	since 10/15, last log 04/24
			x				1530		E11	03	10330 26#	10330 26#	10356 26#	10356 26#	since 06/14, last log 04/24 2nd transmission Mon 0745z
x					x		1605		E11	03	5176 23#	5176 23#	5231 23#	5231 23#	since 11/15, last log 04/24
		x			x		1610		E11	03	4181 39#	4181 39#	4783 39# check	4783 39#	since 02/14, last log 04/24 until 01/24 1910z
x		x					1645		E11	03	4505 36#	4505 36#	5082 36#	5082 36#	since 10/11, last log 08/22 Mar/Apr/Sep/Oct at 1230z, Nov-Feb at 0505z
					x	x	1645		E11	03	4505 36#	4505 36#	5082 36# check	5082 36#	since 03/14, last log 04/24 2nd transmission Thu 1530z
		x		x			1715		E11	03	6923 97#	6923 97#	7863 97#	7863 97#	since 02/15, last log 04/24
			x				1730		E11	03	7864 41#	7864 41#	8088 41#	8088 41#	since 03/10, last log 04/24 2nd transmission Mon 0450z
x					x		1745		E11	03	13470 24#	13470 24#	14410 24#	14410 24#	since 04/18, last log 04/24
				x		x	1815		E11	03	11116 92#	11116 92#	12229 92#	12229 92#	since 05/16, last log 04/24
		x			x		1850		S11A	03	10213 28#	10213 28#	12457 28#	12457 28#	since 06/17, last log 04/24
x			x				1900		E11	03	7317 64#	7317 64#	7600 64#	7600 64#	since 05/16, last log 04/24
				x		x	1910		E11	03	8530 61#	8530 61#	9610 61#	9610 61#	since 04/17, last log 04/24
			x			x	2000		E11	03	5737 52#	5737 52#	5409 52#	5409 52#	since 05/15, last log 04/24

**XPA1 Wednesday/Friday schedule**

Zulu >	XPA1 Wed/Fri Schedule		
Month v	H+10 1210 / 1310z	H+30	H+50
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 p Schedule**

Zulu >	XPA2 Sched p		
Month v	Monday/Wednesday H 00 H+20 H+40 0700 / 0800z		
Jan	11493	13393	13993
Feb	13387	13887	14787
Mar	13931	14831	16131
Apr	11409	12209	13409
May	12148	13448	13948
June	12148	13448	13948
July	12148	13448	13948
Aug	12152	13552	13952
Sept	12152	13552	13952
Oct	13372	14672	15872
Nov	11529	13429	13929
Dec	11493	13393	13993

**Special Matters**

**Thanks to all our contributors:**

Ary, BR, DanAr, E, Gert, H-FD, HJH, Jochen and Team, KW, Malc, PLdn, PoSW, RNGB  
Apologies to anyone missed.

**MESSAGES**

**E: Mni Tnx your help. Have visit SWELEEOC in very near future! Keep well.**

**RELEVANT WEBSITES**

ENIGMA 2000 Website:

<http://www.enigma2000.org>

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

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

Time zone information:

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

Encyclopedia of Espionage, Intelligence, and Security

<http://www.faqs.org/espionage/>

# 2024



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