

# ENIGMA 2000 NEWSLETTER



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Chinese Embassy [2015] Note antennae  
Wellington  
New Zealand

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See last page also.

# Editorial

The expected change in propagation has yet to appear; the number stations continue unbounded with a few changes of frequency. E07a Wednesday 2000z and Thursday 0430z schedules being expected. Signal strengths here remained very strong with the odd exception in August.

The change of frequency of XPA1 schedule c and indeed that of the August 2100z Sunday/Tuesday schedule of XPA2 m with time and frequency are not totally viable for interception for UK stations although those intercepting on the continent will have a better chance.

E07 1700z Sun/Wed continues with its long messages with the content of V07 [reported by Daniel in the Argentine – thanks for staying up late here] also continues with long messages that have become the norm.

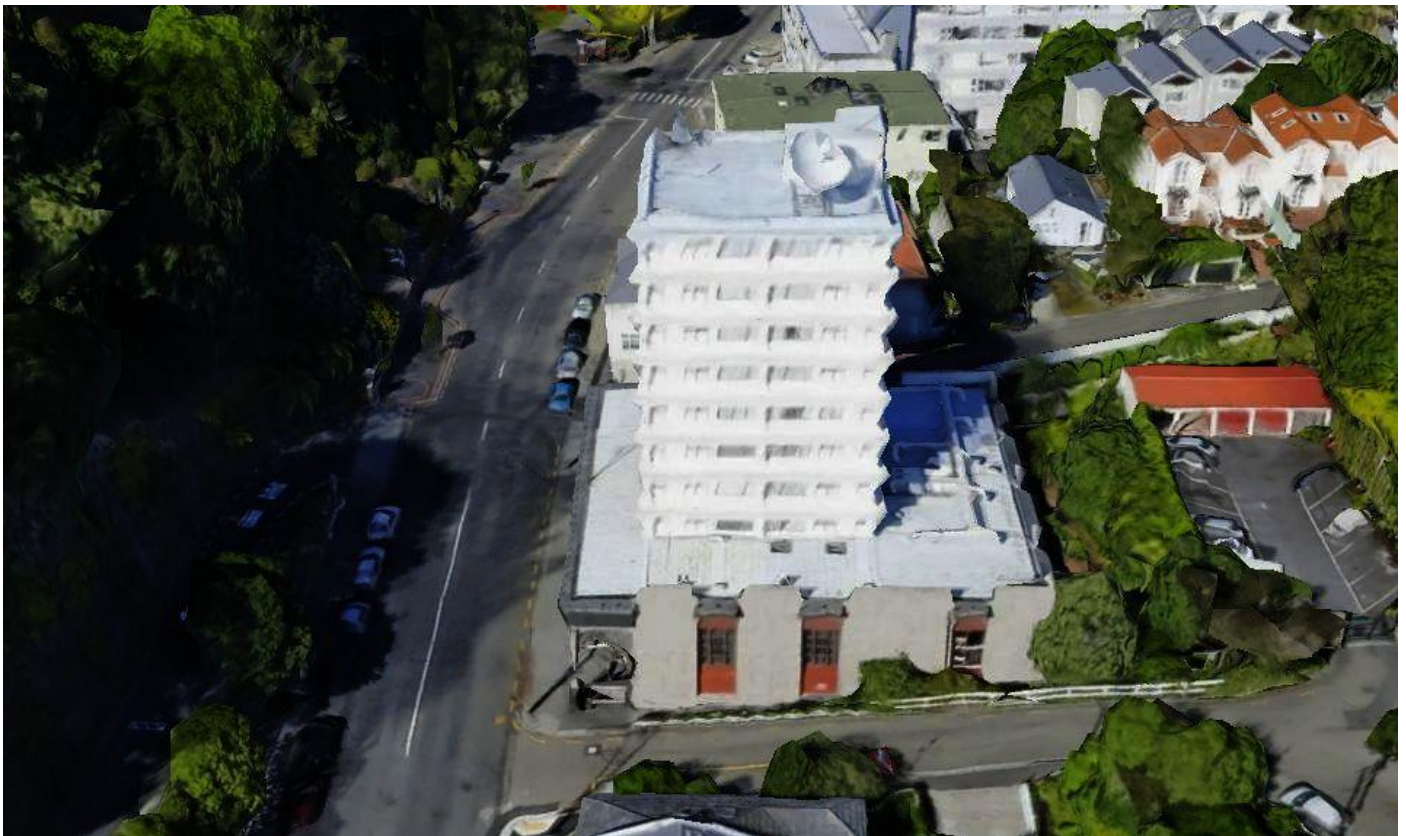
HM01, another reserve mainly of Daniel in the Argentine seems to have a good output 10715 and 11635kHz with notable appearances on 17480kHz and 16180kHz also.

The recently new mode XPB continues with variable signal strengths across its SUN/TUE 0500z and 1900z, MON/SAT 1200z. My personal interceptions during August were interrupted by a week of lightning and stormy weather resulting in my HF antenna being unplugged. Thanks to H-FD for taking up the slack here, with that and also the early morning sendings which I do not monitor as yet.

Thanks to E concerning his enquiry which we have tried to answer [read on E].

Welcome Mr Tickle and your recent input which you'll see in this newsletter; perhaps we'll meet at the NRC, or give me a ring if you wish.

Thanks to E for the cover photo. A quick search for Google earth resulted in this image:



The dish[es] on the roof are interesting. I recalled those atop the Chinese Embassy in London as well as those seen in 2006 in Guyana of their Chinese Embassy set in the Botanical Garden section of the capital, Georgetown. Thereby hangs a story which I'll save for a later newsletter [read on about the Chinese later but before the logs section].

ask an analyst

**A WEBINAR ON LIFE IN THE BRITISH ARMY'S INTELLIGENCE CORPS**

📅 Thurs 9 July  
🕒 1900 - 2000  
💬 "Life as a Junior Officer"

<https://bit.ly/IntCorpsWebinar>

ASK AN ANALYST  
THE INTELLIGENCE CORPS

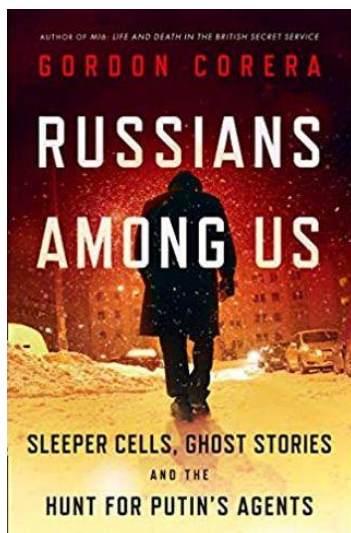


Another foray onto the land of Webinar took me to a rather interesting and obvious recruiting drive from Intelligence Corps [British Army]. Turns out you no longer need a degree to become an officer but if you get in, pass Sandhurst and pass selection for MI then you can go for a degree sponsored by the Army. There's females allowed too, including Sgt H who hosted the whole affair.

Sounds like a good bash. Interesting questions like 'Would another language help?' Answer: 'No!' There were plenty of leading questions that were ignored as well; silence is golden and an analyst would say and would doubtless provide an answer as well.

## Recommended Reading

### Russians Among Us – Gordon Corera



From Amazon: The urgent, explosive story of Russia's espionage efforts against the West from the Cold War to the present – including their interference in the 2016 presidential election.

Like a scene from a le Carre novel or the TV drama *The Americans*, in the summer of 2010 a group of Russian deep cover sleeper agents were arrested. It was the culmination of a decade-long investigation, and ten people, including Anna Chapman, were swapped for four people held in Russia. At the time it was seen simply as a throwback to the Cold War. But that would prove to be a costly mistake. It was a sign that the Russian threat had never gone away and more importantly, it was shifting into a much more disruptive new phase. Today, the danger is clearer than ever following the poisoning in the UK of one of the spies who was swapped, Sergei Skripal, and the growing evidence of Russian interference in American life.

In this meticulously researched and gripping, novelistic narrative, Gordon Corera uncovers the story of how Cold War spying has evolved – and indeed, is still very much with us.

*Russians Among Us* describes for the first time the story of deep cover spies in America and the FBI agents who tracked them. In intimate and riveting detail, it reveals new information about today's spies—as well as those trying to catch them and those trying to kill them.

<https://www.amazon.co.uk/Russians-Among-Us-Gordon-Corera/dp/000831893X>

I don't usually like Mr Corera's style of writing but this book however, really did it for me.

I found one mistake concerning the 'Radiogramma' transmission of 18th October at the time of Heidrun's arrest. The message was being received and not transmitted, as described on page 324.

It was a 777 group message text to be decoded using SEPAL and took 10mins26sec to send as my notebook and the then subsequent report on these sendings show.

The same system was also used by Anna Chapman's illegals and like the Anschlags message texts it required no One Time Pad to decode.

Don't let the above stop your purchase of this very excellent book though which not only tackles the subject in hand it more than adequately portrays the history surround why we have 'Russians Among Us' and up to the present including the attempt on Mr Skripal's life, and why.

Well worth a read.

**TAKING BOOK REVIEWS A LITTLE FURTHER**, here is an article from the newspaper Daily Mail [if you want the pics open the URL] and followed by the book cover and the Amazon UK review and URL. Mr Barnes is a bloke who actually knows what he talks about and the book, with its additional information from other sources than just Kew, promises to be an excellent and informative read.

### **Bombshell in the briefcase: MI5 seized a locked case in a London bank vault packed with espionage kit - and found a spy ring feeding our nuclear secrets to Moscow, as a new book retells one of the greatest Cold War thrillers of all**

By ROGER ALTON FOR THE DAILY MAIL

PUBLISHED: 23:28, 21 August 2020 | UPDATED: 00:20, 22 August 2020

<https://www.dailymail.co.uk/news/article-8652339/Bombshell-briefcase-New-book-retells-one-greatest-Cold-War-thrillers-all.html>

During the early afternoon of September 12, 1960, an unmarked car drove along Great Portland Street in central London and drew up outside No 159, a branch of the Midland Bank.

The two men inside were from MI5, Britain's counter-espionage service. They glanced up and down the street before they entered the five-storey building and asked for the manager.

He and a bank inspector, sent specially from head office, treated the visitors with intrigued deference: someone at the pinnacle of the bank had ordered full cooperation.

They unlocked the strongroom and extracted a large paper parcel and two cases belonging to one of their clients, Gordon Lonsdale. Canadian businessman Lonsdale was under observation by the Security Service because he was suspected of being a Russian spy.

Just over a fortnight before, he had been seen by MI5's 'watchers' to enter the bank and deposit an attaché case, a briefcase and a deed box.

He told staff that he was leaving shortly for Canada and would return in a couple of weeks. Afterwards, the Security Service could find no trace of Lonsdale departing from Britain by land, sea or air. He had quite simply vanished.

But who was he? And what was he doing? The discovery of the attaché case marked the beginning of the unravelling of the Portland Spy Ring, one of the most significant anti-espionage operations ever carried out in this country.

The full story of this top-secret investigation has now been told in a thrilling new book by Trevor Barnes, drawing on hitherto secret MI5 and FBI files as well as original research in the United States and Moscow.

Quite how important Lonsdale was can perhaps be judged by the fact that nearly 60 years after the visit to Great Portland Street, Russian President Vladimir Putin paid special tribute to him in a speech to mark the anniversary of overseas Russian intelligence.

Lonsdale was, said Putin, a 'legend. One of those people of special qualities ready to give up their life, their nearest and dearest, and leave the country to dedicate their life to the fatherland'.

But on that autumn afternoon in 1960, the MI5 men needed to know what was in the attaché case. It was taken to the secret MI5 lab near St Paul's where an expert picked the lock. What he found was a treasure trove of espionage: a camera, photographic equipment, film, letters, two books that when a light was shone on them were revealed to have indentations (probably code) and a cigarette lighter on a wooden base.

This was carefully picked apart and found to contain three miniature single-use cipher code books of a type used by Soviet intelligence. The MI5 agents had uncovered a complete set of Russian Cold War spying paraphernalia — and proof that Lonsdale was a deep-cover KGB officer.

The agents put it all back exactly as they had found it and returned the case to the bank so that Lonsdale wouldn't suspect MI5 were on to him.

This was at a time when the Cold War was at its chilliest (George Blake was unmasked at the same time). In an era before computers, CCTV and mobile phones, operatives on both sides had to rely on cunning and patience. Most people didn't even have telephones in their houses and had to use pay phones. Letters were steamed open with kettles and read while using rubber gloves.

Secret documents were written in invisible ink or documents photographed via a microscope to reduce them to the size of a typewriter's full stop and sent as 'microdots'. The security services were still locked into traditional public school attitudes: MI5 wouldn't use women as operatives, but since they were much less conspicuous as 'watchers', officers' wives were drafted in to help with surveillance. Neighbours' houses were used to watch suspects, with their owners being recruited as extra eyes and ears.

The investigation into one of the most serious examples of post-war deep-cover Soviet spying had begun in February 1960 when a man working at the Underwater Detection Establishment at Portland near Weymouth complained to Admiralty police about one of his colleagues, Harry Houghton.

He suspected Houghton was the author of a letter he received with a single word — 'JEW' — and a swastika. Anti-semitism wasn't a reason to alert the Security Service, but it provoked the man into also revealing that Houghton had taken secret files from the strongroom at the UDE a few years earlier. In fact, MI5 had already been alerted to Houghton in 1956 by his wife Amy.

He was a drunken brute who beat and cheated on Amy: when reporting his violence to the Admiralty welfare officer, she also mentioned that her husband 'was divulging secret information to people who ought not to get it'. This claim was passed up the chain to the head of the UDE who dismissed the allegations as 'nothing more than outpourings of a jealous and disgruntled wife'. This was 1956, after all.

Similarly, the desk officer at MI5 who saw the latest report on Houghton dismissed Amy's claims with casual misogyny as the spiteful accusations of a bitter woman.

Four years later, the Admiralty passed the latest claim from Houghton's UDE colleague on to MI5, with the extra information that when Houghton had been working in Poland for the British Embassy in the early Fifties he was often drunk and had to be sent home to Britain.

Amazingly, he had then been given a job at the UDE where top secret submarine technology was being invented and tested, not least for HMS Dreadnought, Britain's first nuclear sub. So Houghton found himself close to highly sensitive material about that technology, the very purpose of which was to protect Britain from the Russians.

His luck finally ran out in April 1960 when a Soviet double agent working for the CIA, codenamed Sniper, revealed there were two Soviet agents operating in Britain, one in MI6 (George Blake) and one in the Navy. The second spy, thought Sniper, had worked in Warsaw, as had Houghton. So MI5 looked more closely at him.

They discovered that on his return from Poland he had bought a house near Weymouth for £500 and a flashy car. Around the same time a stash of money had also been found in the cistern of a public toilet in Weymouth: a favourite technique of Russians leaving a dead drop.

The agents started to intercept Houghton's calls, and a neighbour was co-opted to keep an eye on the house.

By now, Amy had left Houghton and remarried. She was belatedly interviewed by agents and confirmed not only that Houghton had beaten her viciously, breaking a leg at one point, but also that when in Poland he was always going out and returning with large sums of money. He claimed to be selling medicine on the black market.

Meanwhile, the neighbour in Portland reported that Houghton, an unlikely lothario, in his 50s with wispy hair, had several girlfriends on the go. One was Ethel Gee, a colleague at the UDE who had higher security clearance and might be stealing secret papers for him.

The MI5 watchers discovered that Houghton and Gee would travel up to London on the train together as husband and wife, often taking in a show, and meet their KGB contact to hand over naval plans and any other material they had stolen. This contact was Gordon Lonsdale, a senior KGB operative under deep cover.

In turn, close surveillance of Lonsdale led MI5 to a couple he used to visit in a bungalow in Ruislip: Helen and Peter Kroger, who claimed to be Canadian like Lonsdale.

They were codenamed the Killjoys. Peter Kroger posed as an antiquarian bookseller, always sending and receiving parcels. His wife was a flamboyant and free-spirited woman with a penchant for wearing trousers.

MI5 operatives stationed themselves with a family in a nearby house, always ready to take cover if Helen Kroger called round, which she often did.

Veteran spies, the Krogers were implacable Communists and highly skilled radio operatives. It was from their basement, the network's communications hub, that the secret documents were sent on to Moscow.

With Houghton, Gee, Lonsdale and the Krogers all being watched, MI5 wanted to let the operation run on to see who else was pulled in.

But Sniper suddenly defected to the West and it was time to move fast: the Security Service was anxious the KGB would pull Lonsdale out in case Sniper compromised him.

The decision was made to strike on Saturday, January 7, 1961. The watchers followed as Houghton and Gee — codenamed Trellis by MI5 — arrived at Waterloo for another of their regular meetings with handler Lonsdale.

The watching police and agents saw Lonsdale near the Old Vic, studying posters for that night's performance of *A Midsummer Night's Dream*. Houghton and Gee ambled past and Lonsdale fell in a few paces behind.

The watching police fanned out unseen around them. After a short distance Lonsdale caught up with the couple, threw his arms around them as they exchanged greetings and took Gee's shopping bag from her.

At that moment, Superintendent George Smith of Special Branch, an immensely tall and imposing officer who for the purposes of disguise was sporting a natty French beret, jumped in front of them shouting, 'You're under arrest. I'm a police officer.' (MI5 officers are not allowed to make arrests themselves.)

Three MI5 cars swerved to a halt beside them, Smith snatched the bag from Lonsdale's grip and bundled him into the nearest car.

As soon as they were speeding to Scotland Yard, Smith pulled the radio microphone to his lips and — with a barely suppressed smile of satisfaction — announced 'lock, stock and barrel'. It was the code sign to MI5 and Special Branch that all three KGB agents had been arrested.

Inside Gee's shopping bag he found four pamphlets from Portland giving confidential details of research tests and a sealed tin of undeveloped film.

A couple of hours later Smith and a group of police and MI5 officers sped out to Ruislip to arrest the Krogers.

The final pillars of the spy ring were about to fall. The Krogers would have been expecting Lonsdale that Saturday evening with his latest batch of secrets handed over by Houghton and Gee. Smith knocked on the door and introduced himself, then asked the Krogers to get ready to leave for the police station.

Helen Kroger said she needed to stoke the boiler and picked up her handbag. Smith, suspecting something was up, tried to grab her bag but she held on and the catch sprang open. Inside was a letter in Russian, a typed sheet of cipher code, two glass slides with microdots sandwiched in them and other links to the contents of Lonsdale's briefcase.

Even at the last minute, she was resourceful enough to try to destroy the evidence. Down at the station they refused to give fingerprints, but when the prints were finally taken by court order two days later they turned out to match those of a pair of suspected Soviet spies called Morris and Lona Cohen, whom the FBI had been hunting all over the world for years.

American citizens but dedicated communists, the Cohens had been crucial parts of Ethel and Julius Rosenberg's spy ring that had divulged nuclear secrets from The Manhattan Project to the Russians, enabling them to develop their own nuclear bomb.

Their bungalow was searched revealing the hidden basement where they kept their secret transmitter and other equipment.

They had been Lonsdale's conduit to and from Moscow, relaying to him instructions from the KGB as well as letters from his wife and children, via dead drops. Gee and Houghton's homes were searched too, and documents and drawings containing secret research into anti-submarine sonars were found.

A search of Lonsdale's London flat revealed stashes of cash in ingenious hiding places, such as secret zipped pockets and a Chinese scroll.

MI5 surveillance operatives had already bugged the flat and heard him singing in Russian.

So who was Gordon Lonsdale? It turned out that he was a Russian spy, Konon Molody, who had been to high school in the U.S. while a teenager in the 1930s, hence his perfect English, before returning to the USSR.

During World War II he was an intelligence officer in an artillery regiment, making dangerous forays behind German lines.

After the war he was recruited by the 'illegal' (deep cover) branch of the KGB, rising to the rank of colonel. The subsequent trial of the five defendants in Court Number One at the Old Bailey was a sensation.

The judge was Lord Chief Justice Hubert Parker, a sign of the importance of the trial.

To preserve the anonymity of witnesses from the Security Services, they were smuggled in by way of the judge's bench to give evidence, then discreetly vanished.

Gee and the Krogers protested their innocence; Houghton tried to turn Queen's Evidence, but the offer was refused. Lonsdale claimed the Krogers were innocent and tried to convince the jury he had simply used their home to hide his spying equipment.

Shortly after the jury returned the inevitable guilty verdicts, the defendants stood up to be sentenced. Lord Parker declared that 'for peacetime this must be one of the most disgraceful cases to come before the court'. He described Lonsdale as the 'directing mind' and, to gasps in the court, jailed him for 25 years.

The Krogers, said the Lord Chief Justice, were professional spies and 'in this up to the hilt'.

They were jailed for 20 years each. Houghton and Gee were in some ways 'the most culpable', betraying their own country purely for the money. They were each sent down for 15 years.

So the Portland Spy Ring was broken, and the first deep-cover Soviet spies brought to justice. But the aftershocks would be felt for years.

The aftermath

In the post-trial inquiry, the Admiralty came in for most of the blame and the UDE was called out for its grotesque failure to follow up Mrs Houghton's accusations: had she been listened to in the first place then years' worth of secrets would not have been handed over.

The Admiralty sought to downplay the value of the intelligence the spy ring passed on, but in fact it was incredibly helpful to the Russians, enabling them to get years ahead on their own nuclear submarine programme and aiding the manufacture of a more silent generation of Soviet submarines.

In March 1964, ringleader Konon Molody (Lonsdale) was flown back to Moscow in a spy swap, exchanged with Greville Wynne, a Briton held by the Russians.

Molody was installed in a comfortable flat and hailed as a hero. He helped to train future agents and his work with the Cohens was taught to new KGB officers as an exemplary case in creating and running a network of agents.

He was friends with other spies and they would drink together and play chess, but he eventually grew disenchanted with the lumbering nature of the Russian state.

In October 1970, while out collecting mushrooms for a picnic with his family, he drank a second glass of vodka and suffered a severe stroke and died. He was 48.

His body lay in state at the KGB officers' club, and there is an elaborate tombstone commemorating him in Moscow. Like the Cohens, he was even honoured on a Russian stamp.

Morris and Lona Cohen (the Krogers) were flown back to Moscow in 1969 in another spy swap. Like Molody, they are revered as heroes of the Cold War and were regarded as KGB royalty. At a welcome party in their honour at a secluded dacha, all the KGB top brass were present.

The Cohens were given a luxurious apartment in an upscale district of Moscow and made Soviet citizens. They were described as 'true soldiers of the revolution'.

Lona died in 1992 aged 79, leaving Morris devastated and in failing health.

He died in 1995, aged 85, and at his burial in a KGB cemetery a guard of honour fired a salute over his grave. On the orders of President Boris Yeltsin, he was made a posthumous 'Hero of the Russian Federation'.

Even today, for Russian intelligence, and especially for Putin's Russia, these three agents have resonance as illustrious examples of sacrifice and spycraft.

The only Britons in the spy ring, Harry Houghton and Ethel Gee, were released from prison in 1970 and married the following year.

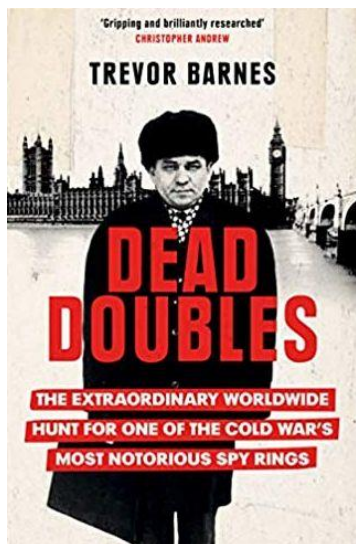
Houghton's memoir, published in 1972, was a long whine of complaint about the incompetence of the Security Service, the unfairness of his trial and his harsh treatment in prison.

After publication, the couple dropped out of public sight. They ran their home as a guesthouse for a period then retired to a three-bedroom house on a nondescript 1970s housing estate in Dorset.

In 1984 Gee died aged 70. Houghton followed her the next year, just before his 80th birthday.

Dead Doubles by Trevor Barnes is published by Weidenfeld & Nicolson on September 3 at £20. © Trevor Barnes 2020. To order a copy for £16 (offer valid until August 29; P&P free), visit [mailshop.co.uk/books](http://mailshop.co.uk/books) or call 020 3308 9193.

<https://www.dailymail.co.uk/news/article-8652339/Bombshell-briefcase-New-book-retells-one-greatest-Cold-War-thrillers-all.html>



With all this new info available I have had my order in for this book for some months now.

Another book on order is:

*Behind the Enigma: The Authorised History of GCHQ, Britain's Secret Cyber-Intelligence Agency* by John Ferris

*There's two other histories available, one by Richard J Aldrich is excellent, whilst that from the pen of Nigel West [aka Rupert Allason, whom I have met and took an immediate dislike to] is 'readable.'*

#### Review Taken from Amazon UK

[https://www.amazon.co.uk/Dead-Doubles-Portland-Spy-Ring/dp/1474609104/ref=sr\\_1\\_1?dchild=1&keywords=Dead+Doubles&qid=1598182210&sr=8-1](https://www.amazon.co.uk/Dead-Doubles-Portland-Spy-Ring/dp/1474609104/ref=sr_1_1?dchild=1&keywords=Dead+Doubles&qid=1598182210&sr=8-1)

The definitive account of the famous Portland Spies - fascinating, detailed and completely gripping -- Richard J Aldrich, author GCHQ

I read DEAD DOUBLES with admiration...fascinating and meticulous...Using all available American, British and Russian sources, Trevor Barnes has produced a remarkable book -- Harvey Klehr, co-author SPIES: THE RISE AND FALL OF THE KGB IN AMERICA

A highly readable account of a classic Cold War MI5 investigation. Assiduously researched and a real page-turner -- Nigel West, author of MI5 and THE ILLEGALS

Excellent and riveting, with a cast of characters as engaging as in any novel. Former KGB officer Vladimir Putin's modern-day Russia employs the same espionage methods now against the West. The themes of Dead Doubles - deception, betrayal, blackmail, chemical and biological weapons, atomic secrets, international rivalry - are as topical today as in the 1960s -- John Sipher, Former Head CIA Russian Operations and CIA Station Chief in Asia and Europe

A gripping and brilliantly researched history of the rise and fall of the Portland Spy Ring, which reveals much about the operations and personnel of Russian, British and American intelligence at the height of the Cold War -- Christopher Andrew, author of DEFENCE OF THE REALM and THE SECRET WORLD



An enthralling account of one of the last great spy mysteries of the 20th Century - I loved it -- John Preston, author of A VERY ENGLISH SCANDAL

Dead Doubles will keep readers on the edge of their seats, turning its pages like a delicious spy novel. Its pace and wide scope of research take us into a hidden corner of Cold War England in the early 1960s -- Katherine Sibley, author of FIRST LADY FLORENCE HARDING and RED SPIES IN AMERICA

Reads like a le Carré thriller - only true. Rich in detail. A must read -- Ray Batvinis, former FBI Supervisory Special Agent of Counterintelligence and author of Hoover's Secret War Against Axis Spies

A rare combination of thrilling story and carefully documented history, the writing has a remarkable "you are there" quality that transports the reader back to the height of the Cold War -- Nicholas Reynolds, former CIA Officer and author of NYT bestseller WRITER, SAILOR, SOLDIER, SPY

An exemplary work of historical scholarship that is also highly entertaining, Dead Doubles is the definitive history of the Portland spy ring -- John Earl Haynes, co-author of EARLY COLD WAR SPIES

About the Author

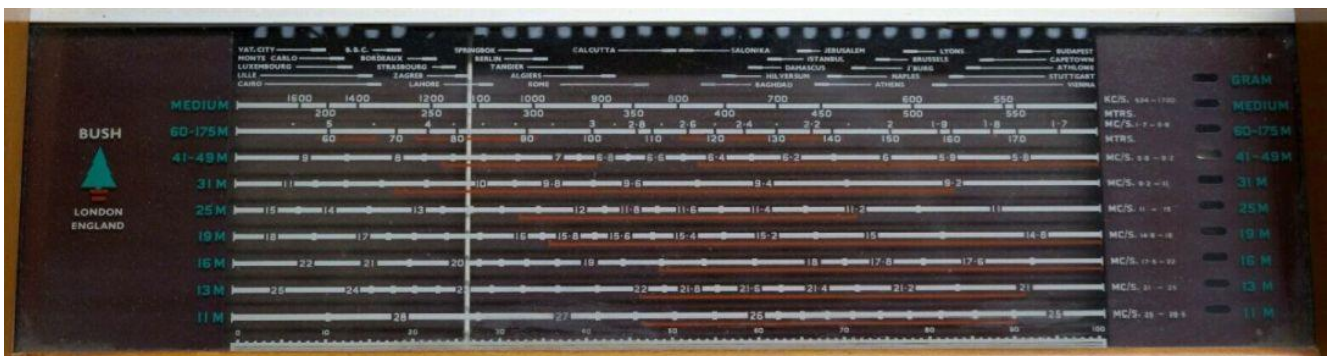
TREVOR BARNES studied espionage in 1920s Britain and the CIA as a history student at the University of Cambridge and as a Kennedy Scholar at Harvard. His pioneering research was published in the Historical Journal. Subsequently he worked as a BBC radio and TV senior journalist on programmes including Radio 4's Today and BBC Two's Newsnight, and has written for, among others, The Times, The Observer, The Evening Standard and The Boston Globe. He is the author of three crime novels and also researched and wrote Trial at Torun, a BBC radio play about the trial in Poland of a secret-service murder case. He lives in West London.

[https://www.amazon.co.uk/Dead-Doubles-Portland-Spy-Ring/dp/1474609104/ref=sr\\_1\\_1?dchild=1&keywords=Dead+Doubles&qid=1598182210&sr=8-1](https://www.amazon.co.uk/Dead-Doubles-Portland-Spy-Ring/dp/1474609104/ref=sr_1_1?dchild=1&keywords=Dead+Doubles&qid=1598182210&sr=8-1)

Just before publication we received this excerpt from Saturday 29th August Times newspaper sent by our Russia Correspondent. I have been unable to run OCR on this satisfactorily so the original scan will have to suffice.



Receiver used by Gordon Lonsdale, or Portland Spy fame [Bush EBS44]



Tuning scale of EBS44, coverage from 545 to 29700kHz

Like the Russian receiver the Schoroch [rustle] the EBS44 was designed to be used on short wire antennas. Like the Schoroch PLdn also owned one of these from his Aden [Yemen] days. Excellent receiver lacking a BFO which suggests the Morse that Lonsdale received his 'allo messages on used MCW.



# MI5 and FBI joined forces to unmask a jailed Soviet agent

Valentine Low

When Scotland Yard arrested Gordon Lonsdale in early 1961, it was the culmination of an MI5 investigation into a spy ring that had been sending Britain's most valuable naval secrets to the Soviet Union for years.

Lonsdale was put on trial at the Old Bailey with his accomplices, including a couple who worked at the Royal Navy's undersea warfare research base at Portland, Dorset, and sentenced to 25 years in prison.

Even after he began his sentence, one mystery remained: who exactly was Gordon Lonsdale?

He purported to be a Canadian businessman dealing in jukeboxes and bubble gum machines. That was just a cover, of course; he was a KGB "illegal", or spy operating outside the ambit of the Soviet embassy. But even in jail he refused to divulge his real identity. Now a new book has told for the first time how MI5 and the FBI pieced together the clues to show that he was a Soviet intelligence officer called Konon Molody.

Charles Elwell, the MI5 officer in charge of the case, had several meetings with Lonsdale in prison. The spy told him that if the British identified him and published his name, it "would finish him in the eyes of the Soviet government".

Slowly clues emerged. Trevor Barnes, in *Dead Doubles*, tells how in Wormwood Scrubs Lonsdale befriended a fellow prisoner who spoke Russian and offered help to pass messages out of prison. Lonsdale gave him a scrap of paper with his mother's address in Moscow. The prisoner went straight to the authorities with the information, but it did not help because they did not know Lonsdale's real name.

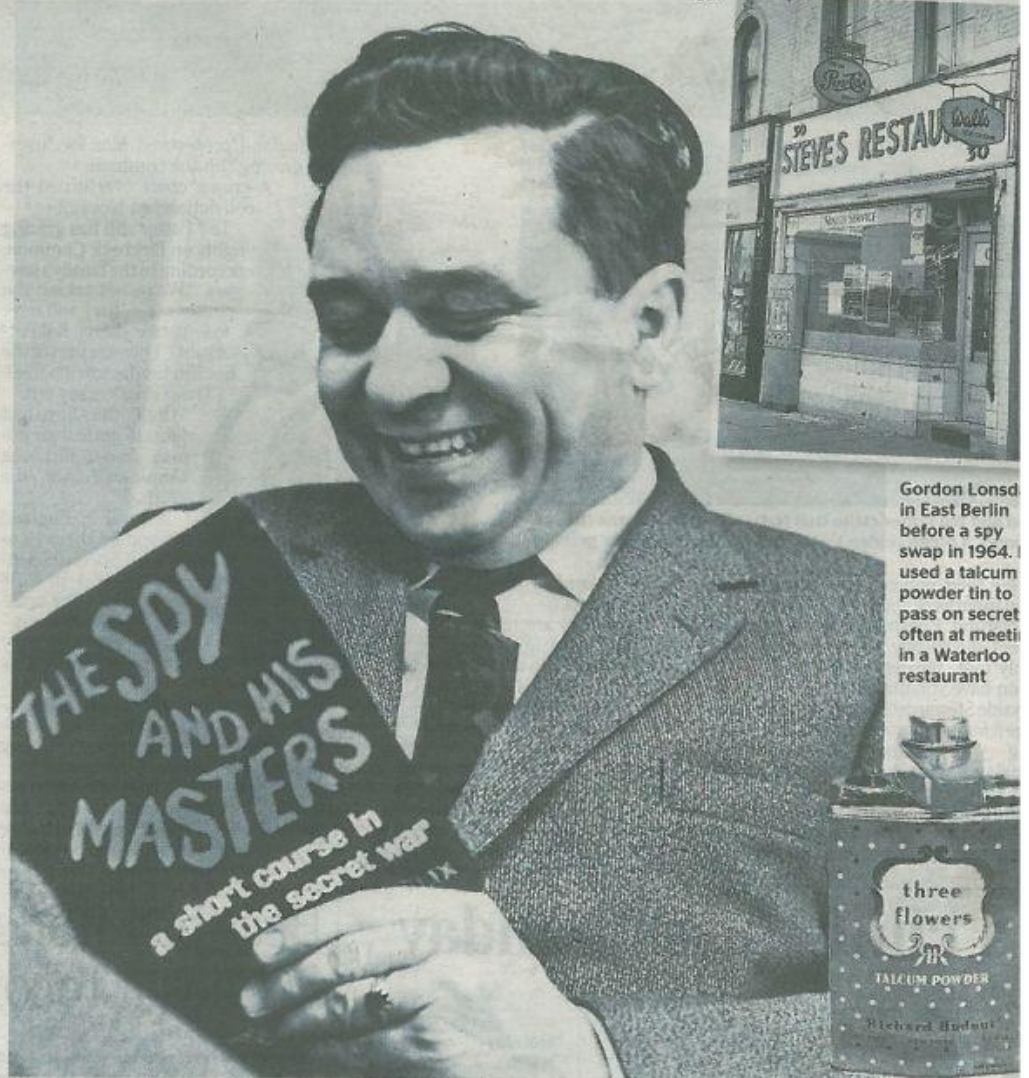
Then Elwell recalled a bugged phone conversation between Lonsdale and a girlfriend in which he had talked about being educated in California at a high school with a good name.

Another girlfriend had told Elwell that Lonsdale said he had been brought up by an aunt in San Francisco; he had commented knowledgeably about the city while watching a film.

Armed with this information, the FBI scoured schools in California to see if any of them remembered a Russian pupil in the 1930s.

They struck lucky with the A to Zed School in Berkeley, where the former principal said that a boy called Konon Molody had been there between 1936 and 1938. He lived with his aunt, a dance teacher called Tatiana Piankova.

From there the details of Molody's extraordinary life began to emerge. He



Gordon Lonsdale in East Berlin before a spy swap in 1964. He used a talcum powder tin to pass on secret often at meetings in a Waterloo restaurant

was brought up in poverty in Moscow by his mother, Evdokia, until his aunt Tatiana persuaded her sister to let him have a chance of a better life with her in the US, posing as her son.

Armed with fake papers, he arrived in America when he was 11. Five years later, his mother wrote to him, saying he had to make up his mind whether he wanted to be an American citizen for the rest of his life, or to return to Russia. He chose Russia.

Before his return another aunt, Anastasia, whom Molody hated, organised a tour for him through Europe's capitalist hotspots "so he would always remember his mistake in returning to

the poverty of Russia". The ruse failed and Molody returned home to his mother.

Once MI5 had established Lonsdale's identity, they tried using it to put pressure on him to come to an agreement and disclose intelligence secrets in return for a shorter sentence. His name was duly leaked by the FBI to US newspapers, but Molody still refused to agree to a deal.

None of it made any difference in the end. After Greville Wynne, a British businessman, was convicted of spying in Moscow, the Soviet Union agreed to a spy swap in 1964. The British had never done a spy swap before, and were

nervous: Alec Douglas-Home, prime minister, did not trust the Soviet government and wondered whether agents would give Wynne some slow acting poison that would kill him after he arrived in Britain.

The swap was carried out at the Heerstrasse checkpoint in Berlin where a short white line was painted the road to mark the border between east and west.

Molody returned to a hero's welcome in the USSR. He died, aged 48, in 1994 after collapsing while picking mushrooms with his family.

*Dead Doubles* by Trevor Barnes is published by Weidenfeld and Nicolson

Thanks Sergy and friends



An interesting question here:

## Is Berlin once again the spy capital of Europe?

news@thelocal.de  
@thelocalgermany  
11 July 2020

<https://www.thelocal.de/20200711/is-berlin-once-again-the-spy-capital-of-europe>

Throughout the Cold War the German capital was known as a nest of spies, as the capitalist and communist systems eavesdropped across the Berlin Wall. Evidence is building up that the city is once again a hotbed of espionage.

On presenting its annual report this week, the German domestic spy agency, the BfV, confirmed that it was carrying out an investigation into a government worker suspected of spying for Egypt.

Little further information about the investigation has been confirmed - the government is refusing to comment. All that is known is that the suspect worked in Angela Merkel's press office and was born in Egypt but is a German citizen.

Coming after the murder of a Czech dissident in a Berlin park last year, apparently on orders from Russia, and the kidnapping of a Vietnamese fugitive businessman in the Tiergarten in 2017, the incident has increased talk of Berlin once again being city of cloak-and-daggers spook activities worthy of a Le Carre novel.

Russia is believed to have been behind a major hack on the email accounts of German MPs including Merkel's in 2015.

But it's not just hostile states that are up to it. During the Obama administration, the revelation that the US was spying on Merkel's mobile phone put a huge strain on bilateral relations between Washington and Berlin.

When Thomas Haldenwang, head of the BfV, visited the Bundestag two weeks ago, MP Armin Schuster asked him: "Do I have the wrong impression - or is Berlin currently trying to replace Vienna as the city of spies? Or what is going on here?"

Haldenweg's answer was surprisingly blunt.

"Herr Schuster, my impression is that Berlin has been the capital of spies for some time now and has clearly outstripped other cities," he replied.

During the Cold War, Berlin brought east and west into direct contact like no other city. Already in the 1950s it had gained a reputation as a centre of espionage.

Early in the war British and US intelligence agencies tunneled under East Berlin to tap into government phone lines. Later they erected the listening post at Teufelsberg, which still stands today.

'No access to sensitive data'

In the case of the Egyptian spy, Berlin denies that the man had access to highly sensitive data.

A government spokesperson said that the man's rank meant that "direct access to databases of the Federal Press Office, accreditation and media support, was not possible".

Whether the spy's main activities were aimed against the German state or Egyptian opposition figures resident in Germany is also unclear.

The BfV says that Cairo runs two spy agencies active in Germany. Both seek to eavesdrop on conversations being carried out by Egyptian opposition figures in exile.

<https://www.thelocal.de/20200711/is-berlin-once-again-the-spy-capital-of-europe>

## 30<sup>th</sup> July, 2020 was International Friendship Day



# Radio Recommendation [E]

Every now and then we are asked for recommendations for radios suitable for what we do. There's no easy answer here as we use what we have in different ways to achieve the end result we would like.

One of the reasons is the failure of radios; as they are built nowadays its difficult to even see the components let alone replace even if you can trace the fault on a multi-layered board.

I favour two receivers when I travel.



On the left is the Eton G3 and the right the Sony SW77. Of the two rx's the Sony takes some beating.

Both receivers have timers, Sony SW77 is easy to set whilst the Eton is fiddly. Both can be connected to external antenna and both have a line output socket; again for the G3 there is a compromise. The SW77 is again easier in this department with just a plug in socket. For the G3 you have to select input or output.

Sensitivity/Selectivity: Both perform the same in this respect but if you want less weight then the G3 wins hands down although easy of tuning is again a compromise between the two; G3 is buttons up or down whilst the Sony SW77 has a tuning control. Both of course feature SSB and here both can cause difficulty if you do not take time to understand the way the sideband is selected. That said both operate well. Both also have extendable rod antennas which really are about as useful as a chocolate teapot for weak signals. Sling a few metres of light cu wire in a tree for better results. When you finish sever at the 3.5mm fitted plug [with attached terminals] and just walk away. The SW77 served me well when in Guyana last and where such activities by foreigners attract negative interests.

Both units are available secondhand. The SW77 needed some work on it due to corrosion inside but for £30 I really didn't mind that . The G3 was brand new.

The illustrated sets are both reliable with a good few hours use when powered by known brand Alkaline cells [watch out for Duracel and make sure you are buying the decent cells and not the 'Plus' range. In my opinion you buy the name, not the performance in that range.

Finally, one radio I have used with good effect is the little Sony SW100e, also available second hand:



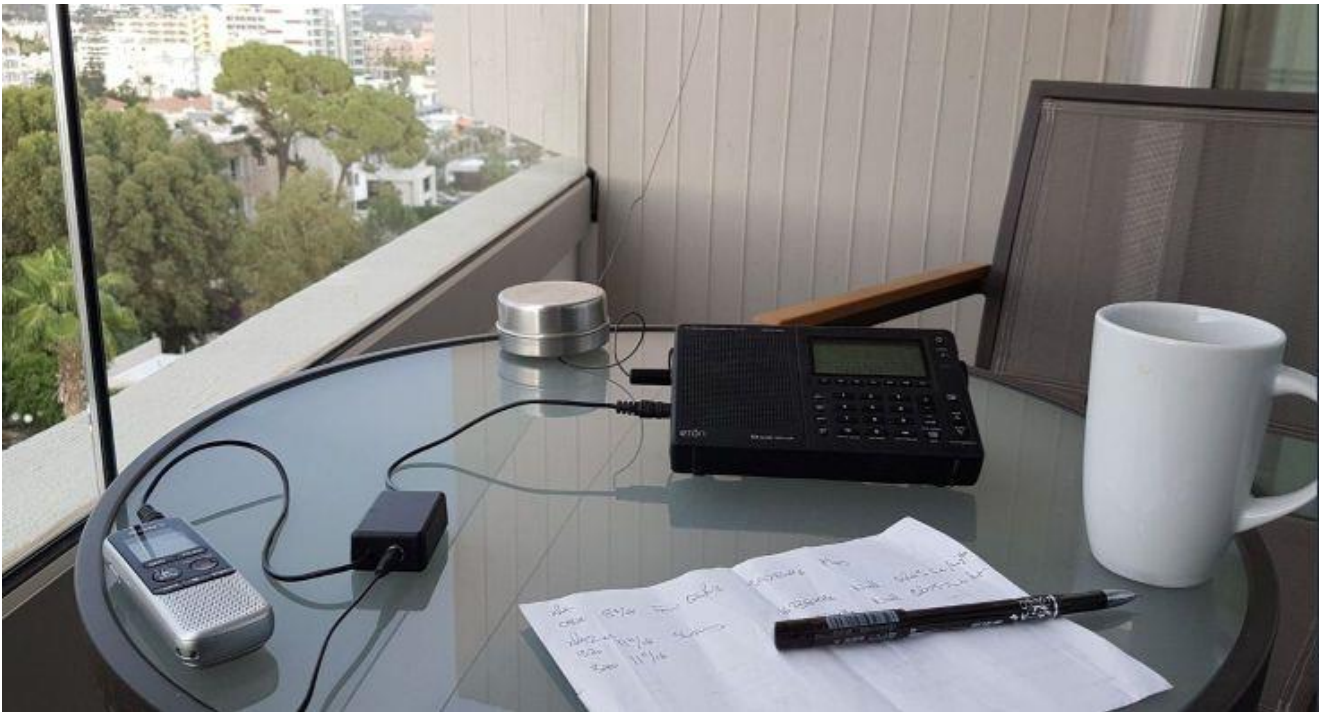
Two timers, button tuning. Sound through headphones is good BUT not a decent performer with very strong signals. Prone to chirping in strong signal conditions I used external attenuator to adjust. Works ok on tiny rod antenna and works a lot better with a short wire up a tree, whatever.

Good battery life here and easy to operate.

Know of two E2k ops using these overseas and with good effect.



Finally, the Eton G3 earning its bread and butter in Cyprus intercepting XPA1 c:



Eton G3 in Cyprus. Note the plug in wire antenna – about 3m long

## Downfall of ‘double agent’ revealed after 23 years

France  
Charles Bremner

A French spy who fell for a Chinese interpreter in Beijing goes on trial for treason today with two others.

Henri M, 74, a former lieutenant—colonel, was the Beijing station chief for the DGSE, France’s equivalent to MI6. The spy, a Mandarin speaker, is accused of passing secrets to a foreign power and “damaging the fundamental interests of the nation”.

He was dismissed from the intelligence service and sent home in 1997 after only a few months for starting a relationship with JH, the female interpreter for the French ambassador.

The case is unusual because the DGSE waited two decades before beginning a prosecution, apparently in a move to “spring clean” the agency by sending cases to the courts. Facing the same charges in the special seven-judge court is Pierre-Marie H, 68, a retired civilian officer of the DGSE.

He was allegedly recruited by Beijing when he was approaching retirement and looking for extra income. Laurence H, Pierre-Marie’s wife, is accused of “concealment of property derived from intelligence with a foreign power”.

Henri M, who was said to have been a go-between, was serving in a diplomatic post with second secretary rank. The Chinese would have known his true role when he was snared by J H.

She is believed to have been working for the Ministry of State Security, China’s most powerful intelligence agency. Colleagues told the French media that he was sent to Beijing without his wife and had been feeling lonely.

After leaving the agency Henri M returned to China in 2003, where he married the interpreter. The couple set up HM China, a British-registered business, and lived on Hainan Island, off the southern coast of China.

The story was reported by Franck Renaud, an investigative writer, in a 2010 book. A person claiming to be Henri M then surfaced online to deny that he had defected and insists that he had faced no legal action.

In 2017 he was arrested in France by officers of the DGSI, the domestic security service, which also went after Pierre—Marie H, who had kept a low profile, unlike his compatriot.

He is reported to have spent his career in modest posts, starting in counter-espionage and ending in Dijon after irritating his superiors with conspiracy theories about Freemasons and communists. He was arrested at Zurich airport after arriving from Sri Lanka carrying more than €25,000 in cash.

No details have been officially confirmed. Florence Parly, the defence minister, said after the arrests in 2018 that the pair were suspected of treason and appeared to have jeopardised national interests.

A former colleague of the men told Marianne, a weekly news magazine; “My theory is that Henri M betrayed out of love and began working with the Chinese. He would appear to have served as liaison agent with Pierre— Marie H and his import—export business justified his travels.”

Lawyers for the two men are expected to ask for the case to be dismissed.

Henri M has been free on bail for a year but Pierre-Marie H has been held in Fleury—Mérogis prison near Paris. If convicted, they face long prison terms.

[Thanks 'E']

Ed: *This piece from 'E' took a long time to OCR and convert. It is interesting because I too was apparently targeted by a Chinese lady of some assumed social standing.*

*On my way to a book release and signing [House of Spies by Peter Matthews] at St Ermin's Hotel on 3<sup>rd</sup> November 2016 I was approached and spoken to by the lady who introduced herself as Chi. Well dressed, wearing beautiful clothes and excellent perfume, well spoken, she engaged me in conversation for almost 40 minutes. What was my spare time interest, my occupation and so on? Was I happily married? It just went on. What was interesting was the lady had sat next to me when there were plenty of free seats available elsewhere. She also made sure her left leg, she was on my right, occasionally moved against my right leg.*

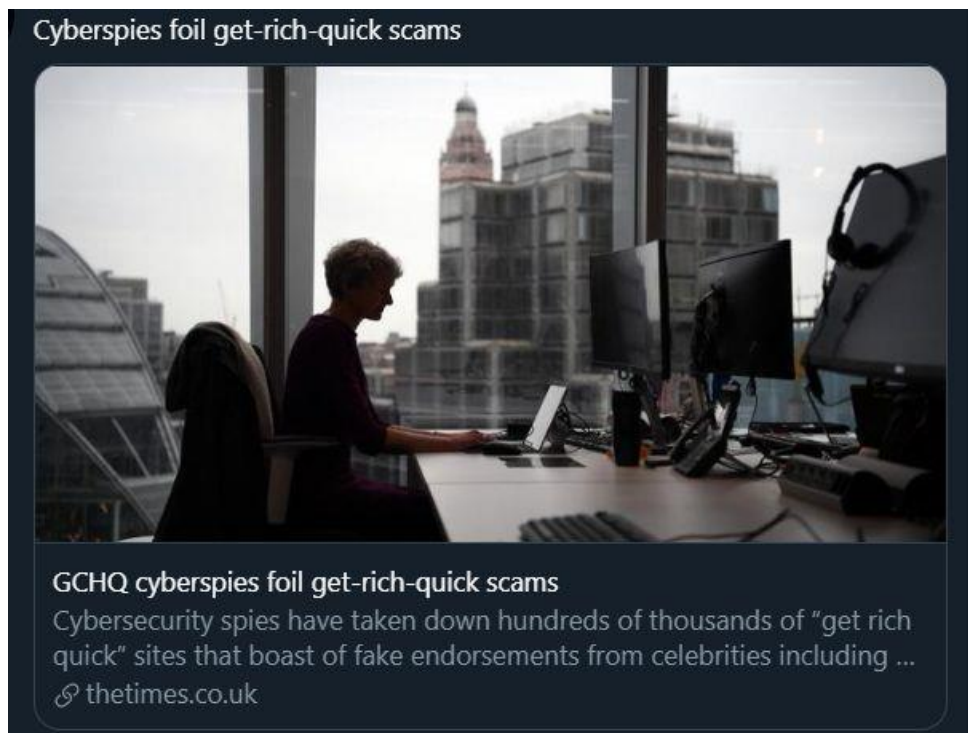
*It was interesting she moved to my right because since my neurosurgery years ago my right ear is more acute for conversation.*

*The lady stated she was not married but preferred the company of professional married men. She liked dining out but when I asked her profession she hedged the question and quickly moved on, complimenting me on my dress sense, 'Sports Jacket, white shirt, Royal Signals tie, Cavalry brown slacks and shiny brown shoes.' Surprised she knew about the Royal Signals to be honest.*

*Could she have my address and telephone number? No she could not!. It's a pity she said, really interested in what I do in my spare time. Very touchy feely, could we meet at a date and place we could set now. Sorry, best not.*

*It wasn't until a month or so later I was having lunch with a contact I mentioned this and he said it was almost certainly a pick up. What might have happened? Who knows but the lady was very attractive for her age [estimated as 45 to 50] and on reflection my arrival and alighting from the train at the Underground Station at St James' saved my bacon! This is not wishful thinking but something that occurred a few years back and for someone who has a penchant for Asian ladies was very, very tempting.*

**Finally, this Tweet [thanks KW]:**



This may well be a genuine image; the view shows Westminster Cathedral in Francis Street, London and the sloping roof to the left is part of new builds in the area with the stacked cuboid offices dated somewhat earlier. An altogether nice building housing the NCSC which certainly has functions from the old Palmer Street building [and one where Geoff Prime is probably never, ever mentioned] and a bit further away from a pub .See <https://www.ncsc.gov.uk/>

We have purposely not stated an accurate location of NCSC

## **Muslim female secret agent who was tortured and executed by Nazis at Dachau concentration camp in 1944 is honoured with first blue plaque for Indian-origin woman**

Noor Inayat Khan is the first Indian-origin woman to have a blue plaque honour  
The plaque will mark her family home on Taviton Street in Bloomsbury, London  
She was the first female radio operator to go to Nazi-occupied France in 1943  
The Muslim spy was killed by the Nazis at Dachau concentration camp in 1944  
By KATE DENNETT FOR MAILONLINE  
PUBLISHED: 00:00, 28 August 2020 | UPDATED: 10:51, 28 August 2020

<https://www.dailymail.co.uk/news/article-8671371/Muslim-female-secret-agent-executed-Nazis-honoured-blue-plaque-Indian-origin-woman.html>

A Muslim spy who was executed by the Nazis at Dachau concentration camp in 1944 is the first Indian-origin woman to be honoured with a blue plaque.

Noor Inayat Khan, of Indian and US descent, served in the Special Operations Executive (SOE), which was set up by Sir Winston Churchill in 1940.



The English Heritage tribute will mark her London family home on Taviton Street in Bloomsbury.

The 'unlikely' spy was the first female radio operator to be flown into Nazi-occupied France in 1943 and was 'Britain's first Muslim war heroine in Europe', English Heritage said.

The blue plaque will be unveiled by Khan's biographer Shrabani Basu in a virtual ceremony at her London family home on Taviton Street in Bloomsbury on Friday

For three months, Khan single-handedly ran a cell of spies across Paris until she was betrayed and captured by the Gestapo.

Khan, whose codename was 'Madeleine', managed to escape from prison after her arrest, but was recaptured shortly afterwards.

She was tortured for information about SOE operations by the Gestapo for ten months, but she refused to reveal anything to her captors - not even her real name.

Khan was eventually executed at Dachau concentration camp on September 13, 1944, aged just 30.

Shrabani Basu, Khan's biographer, who is unveiling the plaque, said: 'When Noor Inayat Khan left this house on her last mission, she would never have dreamed that one day she would become a symbol of bravery. She was an unlikely spy.'

'As a Sufi she believed in non-violence and religious harmony. Yet when her adopted country needed her, she unhesitatingly gave her life in the fight against Fascism.'

The 'unlikely' spy was the first female radio operator to be flown into Nazi-occupied France in 1943 and was 'Britain's first Muslim war heroine in Europe'

Khan, whose codename was 'Madeleine', single-handedly ran a cell of spies across Paris until she was betrayed and captured by the Gestapo

It is fitting that Noor Inayat Khan is the first woman of Indian origin to be remembered with a Blue Plaque. As people walk by, Noor's story will continue to inspire future generations.

'In today's world, her vision of unity and freedom is more important than ever.'

The unveiling will take place at 7pm on Friday on English Heritage's Facebook channel.

It will take place at the address that Khan scratched on the base of her feeding bowl to communicate with other prisoners, after being captured by the Gestapo.

Her biographer previously managed to get Khan's bravery permanently recognised in England with a bronze bust in central London.

The bust was erected close to her family home and was the first memorial in Britain to either a Muslim or an Asian woman.

When campaigning for the bust, Shrabani Basu told the Independent: 'I feel it is very important that what she did should not be allowed to fade from memory, particularly living in the times that we do.'

'Here was a young Muslim woman who gave her life for this country and for the fight against those who wanted to destroy the Jewish race. She was an icon for the bond that exists between Britain and India but also between people who fought for what they believed to be right.'

Khan was born on New Year's Day 1914 in Moscow to an Indian father and an American mother.

She was a direct descendant of Tipu Sultan, the renowned 18th century Muslim 'Tiger of Mysore' who refused to submit to British rule and died in battle.

Her father, who was an Indian Muslim preacher, moved his family to London and then to Paris, where Khan was educated and later worked writing children's stories.

After the fall of France to Nazi Germany, Khan and her brother Vilayat fled to England.

Despite having no loyalty to Britain, she joined the Women's Auxiliary Air Force in November 1940.

Two years later, her quiet dedication and training in radio transmitting attracted the attention of the SOE and led to her being flown to France in June 1943.

Khan was tortured by the Gestapo for ten months, but refused to reveal anything. She was executed at Dachau concentration camp (left and right) on September 13, 1944, aged just 30

There were doubts about her suitability for the role, but nonetheless she became the radio operator for the 'Prosper' resistance network in Paris, with the famous instruction to 'set Europe ablaze'.

After many members of the network were arrested, Khan remained in France and, frequently changing her appearance and alias, she spent a summer moving from place to place, trying to relay messages back to London.

She was eventually betrayed by a Frenchwoman, supposedly the jealous girlfriend of a comrade, and was arrested by the Gestapo.

The Nazi secret police discovered that she had unwisely kept copies of all her secret signals and the Germans used her radio to trick London into sending new agents - straight into the hands of the waiting Gestapo.

In November 1943, she was sent to Pforzheim prison in Germany where she was kept in chains and in solitary confinement.

She was transferred to Dachau concentration camp in 1944 and was shot alongside three other female SOE agents.

Khan was posthumously awarded the George Cross in 1949 and the French Croix de Guerre.

The news of Khan's plaque comes after English Heritage admitted the proportion of women celebrated by the scheme is 'still unacceptably low'.

Only 14% of more than 950 London blue plaques celebrate women.

Plaques planned this year will include tributes to secret agent Christine Granville and artist Barbara Hepworth.

The charity said that 'if we are to continue to see a significant increase in the number of blue plaques for women, we need more female suggestions'.

### **INCREDIBLE DECISION THAT COST OUR LAST SPY IN PARIS HER LIFE**

Noor Inayat Khan was the last essential link between London and Paris after mass arrests by the Gestapo had destroyed the Special Operation Executive's spy network in Paris.

Her position became so dangerous that her commanders urged her to return. She refused and it was a decision that was to cost Khan her life.

In November 1940, having fled France with her brother to fight Nazi tyranny, Khan joined the Women's Auxiliary Air Force, and as an Aircraftwoman 2nd Class she was sent to be trained as a wireless operator.

She was recruited to join F (France) Section of the Special Operations Executive and although her superiors held mixed opinions on her suitability for secret warfare, her fluent French and her competency in wireless operation made her a desirable candidate.

On June 16, 1943, codenamed 'Madeleine' and under the cover identity of Jeanne-Marie Regnier, Khan was parachuted into Northern France.

Khan was posthumously awarded the George Cross in 1949 and the French Croix de Guerre

She travelled to Paris, and together with two other SOE radio operators, Diana Rowden and Cecily Lefort, joined the Physician network led by Francis Suttill.

During the six weeks immediately following her arrival, the Gestapo made mass arrests in the Paris Resistance groups to which she had been detailed. She refused to abandon what had become the principal and most dangerous post in France as she did not wish to leave her French comrades without communications and also hoped to rebuild her group.

Despite having a full description of her and deploying considerable forces in their effort to break the last remaining link with London, it was only her betrayal by a French woman that led to her capture by the Gestapo.

Khan was taken to their HQ where the Germans, now in possession of her codes and messages, asked her to co-operate. She refused and gave them no information of any kind.

While she was imprisoned in one of the cells on the fifth floor of the Gestapo HQ in Avenue Foch, she made two unsuccessful bids to escape. She was asked to sign a declaration that she would make no further attempts but refused and the Chief of the Gestapo obtained permission from Berlin to send her to Germany for 'safe custody'.

Khan was sent to Karlsruhe in November 1943, and then to Pforzheim where her cell was apart from the main prison. She was considered to be particularly dangerous and uncooperative.

Finally Khan was taken with three others to Dachau concentration camp on the September 12, 1944, and on arrival was escorted to the crematorium where she was shot.

<https://www.dailymail.co.uk/news/article-8671371/Muslim-female-secret-agent-executed-Nazis-honoured-blue-plaque-Indian-origin-woman.html>

## **Morse Stations**

All frequencies listed in kHz. Freqs are generally  $\pm 1k$

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

### **Morse - Number Stations**

#### **UNID CW**

#### **UNID 1 – 6765kHz**

This delayed log from 'E'

6765	2203z	26 Jun	5-letter single grps.	'E'	FRI
	2001z	29 Jun	5-letter single grps.	'E'	MON

#### **UNID 2 – Believed Bulgarian Military**

André, (F5JBR), reported this Morse station heard on 11 July. From the use of the rarely used expression 'ABV', (meaning repeat), André suggested this could be M41 – Russian Air Defence as they are the only one of the Russian stations known to use this expression & indeed this looked a likely possibility.

4735	0701z (IP)	11 Jul	UNID Morse in progress	(Via SDR Romania) F5JBR	MON
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TRAFFIC HEARD IN PROGRESS: 1050 1800 0460 0240 0590 0860 2000 0530 0200 0640 0890 2200 0530 0200 0640 0500 0000 0430 0200 0520 0730 0200 0340 0200 0400 0560 0400 0300 0200 0370 0510 0600 0400 0210 0520 0760 0800 0470 0270 0610 0990 =

ABV VVV VVV VVV PROMRÔ = 11 07 =

1000 0510 0310 0670 1110 1200 0520 0320 0690 1150 1400 0500 0320 0680 1140 1600 0470 0290 0630 1050 1800 0460 0240 0590 0860 2000 0530 0200 0640 0890 2200 0530 0200 0640 0500 0000 0430 0200 0520 0730 0200 0340 0200 0400 0560 0400 0300 0200 0370 0510 0600 0400 0210 0520 0760 0800 0470 0270 0610 0990 = AR

For the first sending of the message the speed was approximately 16 WPM & the repeat was slightly faster at approximately 20 WPM



Further information was offered by Ary & Tony about this logging.

Ary confirmed that ABV means 'repeat' and is used by the Russian Air Defence forces, but only in the M41 format, not in the M21 format & that this has been the case since the former Soviet days. During that time they exported their systems to friendly countries outside the Soviet Union, including North Korea, which is now the only country outside Russia known to still use ABV. No other part of the Russian military uses it.

Tony provided a reformatting of the full message which helps enormously to put the traffic into some form of order;

```
4735      0700z      11 Jul
          PROMRÔ = 11 07 =
          1000 0510 0310 0670 1110
          1200 0520 0320 0690 1150
          1400 0500 0320 0680 1140
          1600 0470 0290 0630 1050
          1800 0460 0240 0590 0860
          2000 0530 0200 0640 0890
          2200 0530 0200 0640 0500
          0000 0430 0200 0520 0730
          0200 0340 0200 0400 0560
          0400 0300 0200 0370 0510
          0600 0400 0210 0520 0760
          0800 0470 0270 0610 0990
          = ABV VVV VVV VVV PROMRÔ = 11 07 = REPEAT MESSAGE and AR
```

Further daily logs were provided for the dates 12 – 15 July. All containing the same content – the only change being the date included in the message. Both the frequency & time of transmission were the same as the 11 July message.

As Tony points in the corrected format you can see that it is two hourly predictions or allocations for the next 24 hours, with the first column being the times.

The purpose of the word 'PROMRÔ' is unknown, possibly an identifier for the sending or receiving station.

Given the content of the transmissions to date this station is not thought to be of ongoing interest to ENIGMA 2000.

Finally, we received information that this is not connected to M41 – But is in fact Bulgarian. Unfortunately our source was unable to say more...

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

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

Standard Format:	197 (R4m) 117 117 30 30 == 93447 .... 20478 == 117 117 30 30 000	(Still the most commonly used format)
Variant Format 1:	197 (R4m) 147/30 147/30 78902 ... 86083 147/30 000	(Not used for some time now)
Variant Format 2:	197 (R4m) 521=30 == 521=30 == 46547 ... 88305 = 521=30 == 521=30 0=0=0	(Not used for some time now)
Variant Format 3:	463 (R4m) 127 30 == == 84820 ... LG 82607 == == 127 127 30 30 000	(Not used at all so far in 2020)
Variant Format 4:	197 (R4m) 589 589 = 30 30 == 40728 .... 58918 == 589 589 = 30 30 000	(Used numerous times in July/August)

Poor signal strength continues to frustrate attempts to log full details, although the 2000z schedule is at times a good signal here in S.E. England. This reduced signal strength coincided with the cessation of M01b transmissions & may be connected.

Format 4 is still being used as an active alternative to the standard format on a number of transmissions, although there appears to be no pattern or schedule as to which format is used. All of the formats listed above were in use at one time, possibly as part of a trial as they appeared around the same time, however with the exception of Format 4, the other variants appear to have been dropped from use.

#### July 2020:

4905	2000z	07 Jul	'025' 371 30 == 00025 ... 48460 == Good, slow. Numerous errors noted	BR	TUE
	2000z	09 Jul	'025' 317 30 == Weak - Very poor copy	BR	THU
	2000z	14 Jul	'025' 261 30 == Fair/Good, med-fast. Excellent Morse. No errors. Good copy	BR	TUE
	2000z	16 Jul	'025' 795 30 == 46470 ... 28210 == Fair/Good, fast. Error grp30 28210 28320	BR	THU
	2000z	21 Jul	'025' 505 30 == 09592 ... 47075 == Fair, fast. Long pause after grp01. Wrong grp sent?	BR	TUE
	2000z	24 Jul	'025' 512 = 30 == 95293 .... 41768 == Fair/Good, slow. One error noted grp22. Format 4	BR	THU
	2000z	28 Jul	'025' 703 30 == 73059 ... 90739 == Fair/Good, fast. Long zero used in starting DK/GC	BR	TUE
	2000z	30 Jul	'025' 273 30 == 88868 ... 83488 == Good, fast. Excellent Morse. No errors	BR	THU
5280	1800z	02 Jul	NRH	BR	THU
	1800z	09 Jul	'025' Very weak – No useful copy	BR	THU
	1800z	14 Jul	'025' 187 30 == 68 . . . . . Weak – Very poor copy	BR	TUE
	1800z	16 Jul	'025' 332 30 == Weak – Very poor copy	BR	THU
	1800z	21 Jul	'025' .97 30 == 77250 ... 44385 == Weak, fast. Poor copy throughout	BR	TUE
	1800z	24 Jul	'025' 833 = 30 == 72219 .... Weak – Very poor copy	Format 4	BR
	1800z	28 Jul	'025' Very weak – No useful copy	BR	TUE
6435	1500z	04 Jul	'025' Very weak – No useful copy	BR	SAT
	1500z	11 Jul	'025' 347 30 == Weak – Very poor copy	BR	SAT
	1500z	18 Jul	'025' 191 30 == 07484 ... 93970 == Fair, fast with QSB. Excellent Morse. No noted errors	BR	SAT
	1500z	25 Jul	'025' 999 30 == 9 .726 .... Weak - Very poor copy	BR	SAT
6780	0700z	05 Jul	'025' Very weak – No useful copy	BR	SUN

**August 2020:**

4905	2000z	04 Aug	'025' 570 30 == 43339 ... 19856 ==	Good, fast. Excellent Morse. No errors		BR	TUE
	2000z	06 Aug	'025' 784 30 == 95422 ... 86082 ==	Good, med-fast. One error noted grp18 87105 78105		BR	THU
	2000z	11 Aug	'025' 344 = 30 == 93239 ... 75062 ==	Fair/Good. Local QRM present.	Format 4	BR	TUE
	2000z	13 Aug	'025' 141 30 == 59909 ... 92561 ==	Good, med-fast. Excellent Morse. No errors in msg.		BR	THU
	2000z	18 Aug	'025' 745 30 == 68498 ... 07534 ==	Good, fast. Excellent Morse. Grp30 07534 0754		BR	TUE
	2000z	20 Aug	'025' 654 30 == 45217 ... 68601 ==	Strong, slow. Numerous errors noted		BR	THU
	2000z	25 Aug	'025' 762 30 == 31983 ... 84093 ==	Good, slow. No errors noted		BR	TUE
	2000z	27 Aug	'025' 233 = 30 == 19022 ... 82304 ==	Good, slow. Several errors noted.	Format 4	BR	THU
5280	1800z	06 Aug	'025' ..... Weak.	Call-up heard until 180z. Nothing further heard		BR	THU
	1800z	11 Aug	'025' 853 = 30 == 29582 ... .. ==	Weak/Fair, slow. Fair to start then faded.	Format 4	BR	TUE
	1800z	13 Aug	'025' 478 = 30 == 71823 ... 95100 (?) ==	Weak, slow. Poor copy throughout	Format 4	BR	THU
	1800z	20 Aug	NRH			BR	THU
6435	1500z	01 Aug	'025' 297 30 == 16686 ... 17983 ==	Weak/Fair, slow. A few errors in call-up otherwise perfect		BR	SAT
	1500z	15 Aug	'025' 521 = 30 == 79889 ... 09947 ==	Fair, slow. Mostly good copy	Format 4	BR	SAT
	1500z	22 Aug	'025' 831 30 == 74109 ... 35500 ==	Fair/Good, slow. Good Morse. One possible error grp10		BR	SAT
	1500z	29 Aug	'025' 324 30 == 50765 ... 83839 ==	Weak/Fair – Fast. Longer pauses between grps. No errors		BR	SAT

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

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

Logs are shown as continuous. In practice there are often pauses between lines – Often quite lengthy pauses.

9051	0540 - 0545z	07 Jul	809 (x3) 67267 (x2)			F5JBR	TUE
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**M01b**

Last heard Friday 29 May 2020 - Appears to have ceased. Regular monitoring of schedule continues.

**M08a** XVIII ICW / CW, some MCW

No reports

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

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

**Asiatic M12 Schedules**

10807/10207/9207	0700/20/40z	07 Jul	822 1		(Via SDR Japan)	HFD	TUE
15881/14781/13481	0210/30/50z	03 Jul	874 1 (9293 126) 35220 41256 ... 47957 23852		(Via SDR Khabarovsk)	Danix/HFD	FRI
	0210/30/50z	06 Jul	874 1 (8350 168) 91765 18417 ... 79772 75294		(Via SDR Khabarovsk)	Danix	MON
	0210/30/50z	13 Jul	874 1 (151 196) 14805 05371 ... 05767 71283		(Via SDR Khabarovsk)	Danix	MON
	0210/30/50z	20 Jul	874 1 (6005 198) 59149 80847 ... 62107 16039		(Via SDR Khabarovsk)	Danix	MON
	0210/30/50z	31 Jul	874 1 (196 96) 94598 70916 ... 80554 95920		(Via SDR Khabarovsk)	Danix	FRI
11148/10648/9148	0700/20/40z	04 Aug	161 1		(Via SDR Japan)	HFD	TUE
	0700/20/40z	27 Aug	161 1 (422 162) 69911 73304.....etc		(Siberian SDR)	RNGB	THU
12163/11163/10463	0210/30/50z	07 Aug	114 1 (7126 70) 50965 03152 ... 34466 10476		(Via SDR Khabarovsk)	Danix	FRI
	0210/30/50z	10 Aug	114 1 (8040 86) 95144 23675 ... 52827 13513		(Via SDR Khabarovsk)	Danix/HFD	MON
	0210/30/50z	17 Aug	114 1 (102 188) 49200 37700 ... 22929 72757		(Via SDR Khabarovsk)	Danix	MON

**European M12 Logs**

**July 2020: New scheds in bold type**

9284	2210z	04 Jul	295 1 (1187 126) 20411 29110 ... 36992 10658 000 000		QSA3 QRM2 (local)	DanAR	SAT
9284/8084/7584	2210/30/50z	11 Jul	295 1 (180 150) 70860 78701....			BR/HFD	SAT
	2210/30/50z	18 Jul	295 1 (4213 188) 25689 37444....			BR	SAT
	2210/30/50z	25 Jul	295 1 (657 90) 65439 95798....			BR	SAT
10172/10972/11572	0500/20/40z	07 Jul	195 1			HFD	TUE
10767/10167/9267	2100/20/40z	03 Jul	712 1			HFD	FRI
	2100/20/40z	04 Jul	712 1 (871 110) 49654 36412 ... 78853 15829 000 000			BR/DanAR	SAT
	2100/20/40z	11 Jul	712 1 (871 110) 49654 36412....			BR	SAT
	2100/20/40z	18 Jul	712 000			BR	SAT
	2100/20/40z	25 Jul	712 000			BR	SAT
	2100/20/40z	31 Jul	712 1 (542 45) 06829 41062....			BR	FRI
11435/10598/9327	1810/30/50z	12 Aug	938 1 (3372 72) 20942 51123 ... 04572 11132 000 000			Gert	WED



12162/11566/10711	1700/20/40z	02 Jul	546 1 (2870 109)	10442 55735....		BR	THU
	1800/20/40z	02 Jul	546 1 (5421 108)	78067 58738 ... 61485 59940 000 000		Gert	THU
	1710/30/50	08 Jul	546 1 (4805 106)	31137 62227....		BR	WED
	1700/20/40z	09 Jul	546 1 (8335 112)	88223 04913....		BR	THU
	1800/20/40z	09 Jul	546 1 (9176 109)	39274 02283....		BR	THU
	1720/30/50z	15 Jul	546 1 (6644 106)	10432 06904....		BR	WED
	1700/20/40z	16 Jul	546 1 (3470 106)	83933 20042....		BR	THU
	1800/20/40z	16 Jul	546 1 (5376 105)	91394 08716....		BR	THU
	1710/30/50z	22 Jul	546 1 (2266 111)	.3684 888 .0....		BR	WED
	1700/20/40z	23 Jul	546 1 (8542 108)	66947 02485....		BR/ER	THU
	1800/20/40z	23 Jul	546 1 (7914 113)	37305 69407....		BR/ER	THU
	1710/30/50z	29 Jul	546 1 (4488 104)	19917 62229....		BR	WED
	1700/20/40z	30 Jul	546 1 (1370 104)	36942 36745....		BR	THU
	1800/20/40z	30 Jul	546 1 (3008 112)	17707 66458....		BR	THU
<b>12217/10817/9317</b>	<b>2000/20/40z</b>	<b>02 Jul</b>	<b>617 1</b>			HFD	THU
	<b>2000/20/40z</b>	<b>06 Jul</b>	<b>617 000</b>			BR	MON
	2000/20/40z	20 Jul	617 000			BR	MON
	2000/20/40z	27 Jul	617 1 (2306 96)	98221 21864....		BR	MON
13381/12181/10781	2110/30/50z	06 Jul	317 1 (4060 92)	63230 06029....		BR	MON
	2110/30/50z	09 Jul	317 1 (4060 92)	63230 06029....		BR	THU
	2110/30/50z	13 Jul	317 000			HFD	MON
	2110/30/50z	16 Jul	317 000			BR	THU
	2110/30/50z	20 Jul	317 1 (6622 105)	08919 22071....		BR	MON
	2110/30/50z	23 Jul	317 1 (6622 105)	08919 22071....		BR	THU
	2110/30/50z	27 Jul	317 000			BR	MON
	2110z	30 Jul	317 000			dmhz	THU
13423/12123/11523	1210/30/50z	02 Jul	415 1 (3202 109)	96554 78314....		BR/HFD	FRI
	1210/30/50z	08 Jul	415 1 (3202 109)	96554 78314 45109.....etc		RNGB	WED
	1210/30/50z	10 Jul	415 1 (3202 109)	96554 78314....		BR	FRI
	1210/30/50z	15 Jul	415 1 (4850 133)	20273 71939....		BR	WED
	1210/30/50z	17 Jul	415 1 (4850 133)	20273 71939....		BR	FRI
	1210/30/50z	22 Jul	415 1 (4850 133)	20273 71939 ... 49381 20338 000 000		Gert	WED
	1210/30/50z	24 Jul	415 1 (4850 133)	20273 71939....		BR	FRI
	1210/30/50z	29 Jul	415 000			BR	WED
<b>13979/13379/12179</b>	<b>1600/20/40z</b>	<b>01 Jul</b>	<b>913 1 (689 101)</b>	<b>44891 86303 ... 10157 76802 000 000</b>		AB	WED
	1600/20/40z	15 Jul	913 1 (5403 95)	89401 57611....		BR/HFD	WED
14922	2010z	08 Jul	395 000		QSA3	DanAR	WED
16323/14923/---	1950/2010/2030z	01 Jul	395 000			HFD	WED
	1950/2010/2030z	08 Jul	395 000			BR	WED
	1950/2010/2030z	10 Jul	395 000			BR	FRI
	1950/2010/2030z	15 Jul	395 000			BR	WED
	1950/2010/2030z	22 Jul	395 000			BR	WED
	1950/2010/2030z	24 Jul	395 000			BR	FRI
	1950/2010/2030z	29 Jul	395 000			BR	WED
<b><u>August 2020:</u></b>							
6784/8184/9342	0030/0050/0110z	07 Aug	713 1 (674 111)	88727 06757 ... 29119 47963		Danix	FRI
9052/8052/6952	2210/30/50z	08 Aug	992 1 (708 80)	56830 57973....		BR/HFD	SAT
	2210/30/50z	22 Aug	992 1 (570 106)	80964 92441....		BR	SAT
	2210/30/50z	29 Aug	992 1 (598 142)	66470 37455....		BR	SAT
9314/10714/---	0500/20/40z	02 Aug	374 000	Spurious with chirp on 10662.8 kHz at 0520z		AB/Danix	SUN
	0500/20/40z	09 Aug	374 1			HFD	SUN
10314/9114/8014	2100/20/40z	01 Aug	310 1			HFD	SAT
	2100/20/40z	07 Aug	310 1 (542 45)	06829 41062....		BR	FRI
	2100/20/40z	08 Aug	310 1 (542 45)	06829 41062....		BR	SAT
	2100/20/40z	22 Aug	310 1 (6710 67)	82467 01592....		BR	SAT
	2100/20/40z	29 Aug	310 1 (6142 123)	61221 01943....		BR	SAT
11148/10648/9148	0700/20/40z	06 Aug	161 1 (575 98)	61960 26445.....etc	(Siberian SDR)	RNGB	THU
12162/11566/10711	1710/30/50z	05 Aug	546 1 (5631 105)	47461 43302....		BR	WED
	1700/20/40z	06 Aug	546 1 (6364 110)	72938 42556....		BR	THU
	1710/30/50z	12 Aug	546 1 (7450 107)	57924 35301....		BR	WED
	1700/20/40z	13 Aug	546 1 (6350 104)	81669 90985....		BR	THU
	1800/20/40z	13 Aug	546 1 (1671 112)	52854 87413....		BR	THU
	1700/20/40z	20 Aug	546 1 (6703 106)	39710 37108....		BR	THU
	1800/20/40z	20 Aug	546 1 (9703 110)	94754 78508 ... 97603 14636 000 000		Gert	THU
	1700/20/40z	27 Aug	546 1 (4052 109)	24330 70456....		BR	THU
	1800/20/40z	27 Aug	546 1 (8300 112)	34927 16075 ... 45378 12097 000 000		Gert	THU

12178/11578/10578	1210/30/50z	05 Aug	155 000			HFD	WED
	1210/30/50z	14 Aug	155 1 (3302 75)	15168 12216....		BR	FRI
	1210/30/50z	21 Aug	155 1 (3302 75)	15168 12216....		BR	FRI
	1210/30/50z	28 Aug	155 1 (7313 20)	94651 71345....		BR	FRI
12214/11014/9914	2110/30/50z	03 Aug	209 1			HFD	MON
	2110/30/50z	06 Aug	209 1 (433 84)	44915 86059....		BR	THU
	2110/30/50z	17 Aug	209 1 (788 71)	21719 48229....		BR	MON
	2110/30/50z	20 Aug	209 1 (788 71)	21719 48229....		BR	THU
12148/10648/---	2000/20/40z	03 Aug	374 000			HFD	MON
	2000/20/40z	17 Aug	374 000			Gert	MON
14377/13461/12114	2000/20/40z	06 Aug	317 1 (1525 101)	85810 12038....		BR	THU
	2000/20/40z	13 Aug	317 1 (4344 101)	72438 60460....		BR	THU
	2000/20/40z	20 Aug	317 1 (1794 109)	10112 73813....		BR	THU
14377	1300z	24 Aug	317 1 (6363 99)	04697 52276 ... 10372 67732 000 000		Gert	TUE
	2000/20/40z	27 Aug	317 1 (3201 103)	74730 71063....		BR	THU
14681/13881/13381	1600/20/40z	02 Aug	683 1 (4784 140)	90145 49582 ... 28907 63851 000 000		AB/HFD	SUN
16148/14748/---	1950/2010/2030z	05 Aug	174 000			HFD	WED
	1950/2010/2030z	12 Aug	174 000			BR	WED
	1950/2010/2030z	19 Aug	174 000			BR	WED
	1950/2010/2030z	26 Aug	174 000			BR	WED
	1950/2010/2030z	29 Aug	174 000			BR	FRI

<b>M12 12163/11163/10463kHz 0210/30/50z 07 Aug 2020</b>
114 114 114 1 (R2m) 7126 70 7126 70
50965 03152 98540 43959 49649 95891 92675 15388 69062 89998 04668 55576 55946 09931 90614 57922 88919 25874 00099 17741 06398 12898 59566 51878 62949 11029 14467 29746 86599 70434 76807 63818 79751 49955 56697 27198 73412 99067 41168 02438 24677 12810 12115 40183 77420 85407 35522 38156 43891 76330 94157 41509 18493 21145 15672 65583 56679 36857 44233 21954 86570 80218 33820 15218 13147 46689 32902 68580 34466 10476
<i>Courtesy Danix</i>

<b>M12 11435/10598/9327kHz 1810/30/50z 12 Aug 2020</b>
938 938 938 1 (R2m) 3372 72 3372 72
20942 51123 40488 07390 78907 57021 91344 43649 82920 72468 78476 74293 52678 04182 16658 98996 61703 93711 10636 28017 51633 09558 80512 61287 44978 70156 52342 88103 23058 99349 73617 13661 96833 92523 55637 84417 12490 98026 54480 95456 12115 27667 45510 12269 61045 62324 53696 38816 08048 87605 13143 09253 75389 01971 53970 47869 16131 16783 36212 56193 37692 11191 77569 25557 72792 50876 73003 13416 04956 95976 04572 11132 000 000
<i>Courtesy Gert</i>

**M14 IA MCW / ICW Short 0**

First, a delayed log from 'E' for June;

4760	0003z	22 June	5 fig Paired grps. 31 x 2?	Ends five dashes	'E'	MON
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Note that in August there were some minor variations in frequencies used for the 0800z / 0900z Saturday schedules. Reason for this unknown.

**July 2020:**

4650	0900z	04 Jul	523 (495 32) = 67980 67648 ... 41086 89723 = 00000 Copy difficult – Tx dropping out?	ER	SAT
	0900z	25 Jul	523 (623 33) = 42156 67452 ... 59288 88912 = = 00000 (SDR Poland)	ER	SAT
4730	0800z	04 Jul	NRH	ER	SAT
	0800z	25 Jul	523 (623 33) = 42156 67452 ... 59288 88912 = = 00000 (SDR Poland)	ER	SAT
4760	0000z	27 Jul	617 ((260 30) = 25091....	HFD	MON
4890	2300z	26 Jul	617 (260 30) = 25091....	HFD	SUN
6865	1820z	14 Jul	163 (191 32) = 16432 76541 ... 76345 63190 = 00000 (SDR Poland)	ER	TUE
14878	0930z	11 Jul	617 (380 149) = 42220 88539 20956 40360 etc A repeat of Fri 10 July message.	RNGB	SAT
16347	0930z	10 Jul	617 (380 149) = 42220 88539 ... 67751 97421 = 00000	CW	AB
	0930z	25 Jul	617 00000	(SDR Utwente)	ER

**August 2020:**

4650	<b>0855z (IP)</b>	01 Aug	523 (777 30) = 12390 43215 ... 50984 87603 IP at 0855z. No ending then 523	ER	SAT
	0900z	08 Aug	523 (410 35) = 85123 46589 ... 13896 54077 = 00000 (SDR Poland)	ER	SAT
	0900z	15 Aug	523 (320 30) = 29385 34129 ... 84320 99871 = 00000 (SDR Poland)	ER	SAT
<b>4653</b>	0900z	22 Aug	523 (585 32) = 89459 26825 ... 06541 41077 = 00000 (SDR Poland)	ER	SAT
<b>4663</b>	0900z	29 Aug	523 (571 32) = 84726 11890 ... 77410 74530 = 00000	AB	SAT
4730	0800z	01 Aug	523 (777 30) = 12390 43215 ... 50984 87603 = 00000 (SDR Poland)	ER	SAT
	0800z	08 Aug	523 (410 35) = 85123 46589 ... 13896 54077 = 00000 (SDR Poland)	ER	SAT
<b>4726</b>	0800z	15 Aug	523 (320 30) = 29385 34129 ... 84320 99871 = 00000 N (SDR Poland)	ER	SAT

4730	0800z	22 Aug	523 (585 32) = 89459 26825 ... 06541 41077 = 00000	(SDR Poland)	ER	SAT
<b>4727</b>	0800z	29 Aug	523 (571 32) = 84726 11890 ... 77410 74530 = 00000		AB	SAT
6556	1820z	25 Aug	163 (100 32) = 89459 26825 ... 06541 41077 = 00000	(SDR Poland)	ER	TUE
16347	0930z	10 Aug	617 00000	(SDR Utwente)	ER	MON

M14 16347kHz 0930z 10 July 2020

617 (R4m) 380 380 149 149 ==

42220 88539 20956 40360 19271 67072 16909 81173 76870 38477  
12975 88112 20605 46926 59207 83332 82901 35610 96628 88789  
89010 54775 06375 21593 15628 06466 89846 23354 78676 98916  
97183 19069 09973 14287 57183 15349 67003 59863 03816 88814  
92989 40686 86565 01622 09766 37123 91994 75110 94300 62065  
46768 33909 19038 79355 30209 18588 21252 13568 15378 72069  
26489 48354 86050 21912 29349 06672 08942 85058 13753 76551  
31464 21798 10602 70477 87580 89971 31316 23719 75194 79429  
89602 53030 26431 91205 25981 55550 24187 93715 07170 32699  
44678 95605 53780 82896 33012 95184 33184 44555 24754 51050  
96371 54773 35434 43773 29518 03404 97998 23988 11674 57985  
29093 72548 95242 41331 50515 39962 22935 77515 87882 72901  
91011 55517 85069 95018 81794 27255 45693 03386 08042 34045  
90644 42418 04652 60129 45259 71021 51050 64283 74049 16417  
15131 09682 75192 99356 94135 23165 50874 67751 97421 ==

380 380 149 149 00000

*Courtesy AB*

**M23** O ICW  
No reports

## Morse Stations - Not Number Related

### M42 IC

M42 is a designation originally assigned by the original ENIGMA group & covered a number of formats & modes. The group of stations was later identified as belonging to the Russian government / intelligence / diplomatic services & as such was deleted from the ENIGMA Control List as being outside of the numbers station remit. However, the station still attracts interest and is regularly still monitored.

Here are a few examples of M42b variant logs courtesy of Ary, (AB), which were recently submitted;

Mode is Baudot ITA2 50/500, (RTTY - FSK) with Op. chat in CW both before & after the main message transmission;

6776	0620z	29 Aug	CW + Baudot ITA2 50/500	AB	SAT
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GX7N GX7N GX7N DE TIGR TIGR K  
QSA4 QTC1 ZZZ K

RYYRYRYRYRYRYRYRYRYRY  
134 110 29 0620 8159 =  
134 110 29 0620 8159 =  
48576 33627 19376 33520 17659 35100 99980 35461 88876 35465  
99175 25341 88411 11992 22883 44775 66552 94876 00912 36421  
18576 36452 17485 77410 89619 24401 38274 11987 88000 55535  
35275 33647 19980 45465 36482 17564 96875 41077 89225 34879  
99004 26378 17429 52831 85968 90290 11836 2243 (incomplete message)

CFM NIL K  
OK ZVP K  
BK BK QRV K  
K K K  
70629 K  
NIL K. NIL K. NIL K. NIL K  
RPT K  
NIL K  
SK SK SK





**M51b**

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

Delayed logs from June;

3881//6825

1217z	11 Jun	5-letter grps	'E'	THU
1310z	11 Jun	5-letter grps	'E'	THU
1006z	13 Jun	5-letter grps	'E'	SAT
1224z	13 Jun	5-letter grps	'E'	SAT
1956z	28 Jun	5-letter grps	'E'	SUN

3881//6825

2356z	18 Aug	Non-stop 5-character groups composed of M51a messages	BR	TUE
2227z	27 Aug	Non-stop 5-character groups composed of M51a messages	BR	THU

**M89 O**

This is a summary of activity from the M89 stations.

**Traffic & Operator Chat from M89**

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

3162	4227	5043	5474	6235	7495	8357
3182	4249	5062	5502	6614	7738.8	8649
3463	4266	5075	5561	6677		8789
3534.8	4293	5076	5591	6722		
	4319	5248	5613			
	4362	5260	5628			
	4366	5287	5666.6			
	4435	5300	5777			
	4579	5325				
	4611	5338				
	4654	5348				
	4679	5364				
	4686	5398				
	4790	5414				
	4800	5451				

**New Scheds for Jul / Aug 2020: From logs submitted from JPL & F5JBR**

4489//NRH	Changed Round Slip from D72H	First heard 08 July	V DM6H (x3) DE 1HM4 (x2)
5691//NRH	Changed Round Slip from D72H	First heard 26 July	V DM6H (x3) DE 1HM4 (x2)
5648//NRH	Previously unknown Round Slip & freq.	First heard 16 July	V JKMP (x3) DE RDQY (x2)
5322//NRH	Previously unknown Round Slip & freq.	First heard 27 July	V JKMP (x3) DE RDQY (x2)
3850//4860//5640// <b>6320</b> //6840	New frequency for this Round Slip. Possibly replaces 5920kHz which has been NRH for some time.	First heard 23 August	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)

**Chart of M89 Freq & Call signs heard in Jul / Aug 2020**

**New Scheds shown in Bold Type**

**From logs submitted from JPL & F5JBR**

<u>Freq in KHz</u>	<u>Call Slip</u>
2984//NRH	V QWS1 (x3) DE 87DS (x2)
3596//NRH	V QYE2 (x3) DE 9WFV (x2)
3596//4888	V QYE2 (x3) DE 9WFV (x2)
3596//6824	V QYE2 (x3) DE 9WFV (x2)
3596//4888// <b>6824</b> //8182	V QYE2 (x3) DE 9WFV (x2)
3850//4860//5640	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
3850//4860//5640//6840	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
3850//4860//5640// <b>6320</b> //6840	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
3850//5640//6320//6840	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
4489//NRH	V D72H (x3) DE 1HM4 (x2)
<b>4489</b> //NRH	<b>V DM6H (x3) DE 1HM4 (x2)</b>
<b>4489</b> //10383	<b>V HFL2 (x3) DE M6NY (x2)</b>
4720//5150	V WNF(x3) DE FXM (x2) (R5) (Hand sent)
4860//5640//6840//8290//8360	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA

<u>Freq in kHz</u>	<u>Call Slip</u>
4888//NRH	V QYE2 (x3) DE 9WFV (x2)
4888//6824	V QYE2 (x3) DE 9WFV (x2)
<b>4888</b> // <b>6824</b> // <b>8182</b>	<b>V QYE2 (x3) DE 9WFV (x2)</b>
<b>5322</b> //NRH	<b>V JKMP (x3) DE RDQY (x2)</b>
5640//6840//8290//8360	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA
5640//6840//8290//8360//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA
<b>5648</b> //NRH	<b>V JKMP (x3) DE RDQY (x2)</b>
<b>5691</b> //NRH	<b>V DM6H (x3) DE 1HM4 (x2)</b>
5691//NRH	V HFL2 (x3) DE M6NY (x2)
5691//10383	V HFL2 (x3) DE M6NY (x2)
<b>6824</b> //NRH	<b>V QYE2 (x3) DE 9WFV (x2)</b>
7620//8350	V WNF(x3) DE FXM (x2) (R5) (Hand Sent)
7653//NRH	V 8RVF (x3) DE CV4K (x2)

3162	BUR	2202z (IP)	VVV KGX (x5) DE BUR (x2) QSA ? K		(Remote tuner Hong Kong)	JPL	FRI
3534.8		1855z (IP) 29 Jul	NR 48 CK 61 ... 0730 0300 RMKS 696608. TO 6966085 K		(Remote tuner Taiwan)	JPL	WED
4227		1234z (IP) 01 Aug	NR 3527/EX 2004 RMKS 5639 TO 5640 BT QGY./TPD4 AR		(Remote tuner Taiwan)	JPL	SAT
4266		1135z (IP) 27 Jul	29 0727 1933 RMKS BT 7553 TO 9593 K		(Remote tuner Hong Kong)	JPL	MON
4319	GBSB	2035z (IP) 25 Aug	VVV D3DF DE GBSB K R IEC BT 5078 K (Exercise related) VVV MKL8 DE GBSB K NR 4852/EX 0440 RMKS CQ BT VM/Y9 AR NR 1923 CK 61 96 0826 0430 RMKS CQ BT		(Remote tuner Hong Kong)	JPL	TUE
4611		1201z (IP) 26 Jul	NR 5407/EX 2002 BT KW7T/OPS6 AR		(Remote tuner ShanGhai)	JPL	SUN
4679		1202z (IP) 02 Jul	NR 1193/EX 2000 BT W6T2/U.3		(Remote tuner South Korea]	JPL	THU
4686	MJE8	1006z (IP) 20 Aug	R IEC BT 3991 AR K (Exercise related) VVV 9HEF DE MJE8 K R IEC BT 6084 AR K VVV EJNK DE MJE8 K R IEC BT 4195 AR K NR 1439/EX 1810 RMKS CQ BT Q2B3/DJE4 AR VVV NSY4 DE MJE8 K VVV ELP6 DE MJE8 K VVV RCJ8 DE MJE8 K VVV 9BFL DE MJE8 K VVV JOFK DE MJE8 K VVV 9HEF DE MJE8 K VVV EJNK DE MJE8 K		(Remote tuner Taiwan)	JPL	FRI
4790		1205z (IP) 02 Jul	NR 1327/EX 200. BT .CP/..Q. V.Weak		(Remote tuner South Korea)	JPL	THU
4800		1008z (IP) 16 Jul	NR 0003 CK 91 63 0616 0017 8 EEEEE		(Remote tuner Japan)	JPL	THU
4888//6824		1347z (IP) 18 Aug	V QYE2 (x3) DE 9WV (x2) (IP - Cont'd) BT 886/4620/4030/97/07/5503/092/A AR (IP – Return to R/S)		(Remote tuner Japan)	JPL	TUE
5260		0954z (IP) 20 Aug	NR 195/EX 1751 BT P6X9/L457 AR		(Remote tuner Taiwan)	JPL	THU
5325		1216z (IP) 02 Jul	NR 1097/EX 2018 BT G1H0/YON8 AR		(Remote tuner South Korea)	JPL	THU
5338		1222z (IP) 02 Jul	NR 1457/EX TIME 2021 BT S8W6/Y6I5 AR		(Remote tuner South Korea)	JPL	THU
5348		1228z (IP) 02 Jul	. . 2027 BT S9W3/S8PI AR		(Remote tuner South Korea)	JPL	THU
5398		1225z (IP) 02 Jul	NR 1219/EX 2024 BT H4O7/L2D5 AR		(Remote tuner South Korea)	JPL	THU
5414		1216z (IP) 23 Aug	NR 1012/EX 1806 BT F2Y1/Q3Y5 BT NR 1012/EX 1803 BT W3Q4/F2K5 NR 1014/EX 1809 BT A261 BT		(Remote tuner Hong Kong)	JPL	SUN
5474		1218z (IP) 02 Jul	NR 1098/EX 2021 BT A4S5/W3N8 AR		(Remote tuner South Korea)	JPL	THU
5513		0950z (IP) 20 Aug	NR 1346/EX 1754 BT G6T7/M0J1		(Remote tuner Taiwan)	JPL	THU
5535		1004z (IP) 20 Aug	R IEC BT 1144 AR K (Exercise related) VVV 9BFL DE MJE8 K VVV JOFK DE MJE8 K R IEC BT 6084 AR K NR 107 107 K VVV 9HEF DE MJE8 K R IEC BT 4195 AR K VVV E1NK DE MJE8 K R IEC BT 5473 AR K VVV ELP6 DE MJE8 K R IEC BT 8721 AR K NR 1348/EX 1815 BT RMKS BT CQ AR BT A6C2/Y5I6 AR VVV ELP6 K VVV RCJ8 K VVV 9BFL K VVV JOFK K VVV 9HEF K VVV E1NK K NR 1349 CK 61 41 0820 1800 RMKS BT CQ AR		(Remote tuner Taiwan)	JPL	THU
5561		1227z (IP) 01 Aug	NR .63/EX 2020 BT RHP9/W3E6 AR NR ..34/EX 2027 BT RHP./W3E6 AR SK SK		(Remote tuner Taiwan)	JPL	SAT
5591		1227z (IP) 01 Aug	NR 1717/EX 2027 BT K3N8/D5M6 AR		(Remote tuner Taiwan)	JPL	SAT



5613		1210z (IP) 02 Jul	NR 233/EX TIME 2009 BT	D3E./E5E2 AR	(Remote tuner South Korea)	JPL	THU
5628		0957z (IP) 20Aug	NR 0205/EX 1754 BT	APN7/25MI	(Remote tuner Taiwan)	JPL	THU
5666.6		1223z (IP) 27 Jul	NR 7... CK 499 32 0725 0904 RMKS 0278 TO 0.48 K		(Remote tuner Novosibirsk)	JPL	MON
5766		0952z (IP) 20 Aug	NR 1347/EX 1758 BT	W4FB/G9K2	(Remote tuner Taiwan)	JPL	THU
		1001z (IP)	NR 197/EX 1757 BT	F5N8/OBL2 AR	(Remote tuner Taiwan)	JPL	THU
5777		0959z (IP) 20 Aug	NR 0206/EX 1757 BT	DLHB/MZ79 AR	(Remote tuner Taiwan)	JPL	THU
6614		2338z (IP) 27 Jul	RMKS 7031364 TO 7031369 K NR 5042 66 67 0728 0950 RMKS 703AR 364 TO 7031369 IEC BT 44QSL C AR AR (Exercise related)		(Remote tuner Hong Kong)	JPL	MON
6722	FZGB	1047z (IP) 20 Aug	VVV D7BZ DE FZGB NR 5041 CK 61 D5 82 0821 1830 RMKS 8723641 TO 8723627 AR K		(Remote tuner Taiwan)	JPL	FRI
7388	SS87	0813z	16 Aug	SS87 Working 2W4D, KLMY, DF7D, XCH9, ZXC3, S7UP	(Remote SDR Japan)	F5JBR	SUN
7388	XPC8	0831z	16 Aug	XPC8 working CE89, DUFY, P9A5 & Msg in simplex. CE89 DE XPC8 NR59/EX 1632 RMKS CQ = Z3V8/Q2U4 AR (NOTE : SS87 and XPC8 : same Net Station)	(Remote SDR Japan)	F5JBR	SUN
7653		1137z (IP) 23 Aug	V 8RVF (x3) DE CV4K (x2) NR 1045 CK 61 32 0823 1938 RMKS 5351 TO 5151 BT		(Remote tuner Hong Kong)	JPL	SUN
7738.8		0937z (IP) 20 Aug	RMKS 0655 TO 3975		(Remote tuner Taiwan)	JPL	THU

<b>M89</b>	<b>5325kHz</b>	<b>1216 (IP) - 11217z</b>	<b>02 July 2020</b>
NR 1097/EX 2018 BT	G1H0/Y0N8 AR	(IP - 1216z)	
NR 1097/EX 2018 BT	G1H0/Y0N8 AR		
NR 1097/EX 2018 BT	G1H0/Y0N8 AR		
QSY 27 QSY 27 VVV		(1217z)	
<b>M89</b>	<b>5338kHz</b>	<b>1222 (IP) - 1224z</b>	<b>02 July 2020</b>
SDR6	FF	(IP - Cont'd - 1222z)	
NR 1457/EX TIME 2021 BT	S8W6/Y6I5 AR		
NR 1457/EX TIME 2021 BT	S8W6/Y6I5 AR		
NR 1457/EX TIME 2021 BT	S0W6/Y6I5 AR		
QSY 27 QSY 27 VVV		(1224z)	
<b>M89</b>	<b>5260kHz</b>	<b>0940 - 0956z</b>	<b>20 August 2020</b>
HUBK	FFF	(IP - Cont'd - 0954z)	
NR 195/EX 1751 BT	P6X9/L457 AR		
NR 195/EX 1751 BT	P6X9/L4V7 AR		
NR 195/EX 1751 BT	PBX9/L4V7 AR		
QSY 38 QSY 38 QSY 38 VVV (0956z)			
<i>Courtesy JPL</i>			

<b>M89</b>	<b>4800kHz</b>	<b>1008 (IP) - 1019z</b>	<b>16 July 2020</b>
... 56N4 375D 4AT6 TDU4	(IP - Cont'd - Weak/noisy - 1008z)		
RPT P..			
N ACK RMKS TA TIME TIME .. K	(1010z)		
QSY 01 K			
R W. RPT OK			
U.. N W F A.. A 34567DAU T T DU53 36N6 D4T6 (Cont'd - 1011z)			
R R HR MSG NR 092 CK 91 63	(1014z)		
MSG NR 0003 CK 91 63 0616 0017 8 EEEEE	(1016z)		
RMKS 0. OKD R BT R BT AR AR AR K AR K	(1016z)		
R QSL K R OK K SK SK SK	(1017z)		
R BOZ 2 7U .. K			
R OK K	(1018z)		
R BOZ U G5BW K K			
R BOK EEEEE R BO7UP5B .. K			
R SK SK	(1019z)		
<b>M89</b>	<b>5513kHz</b>	<b>0950 (IP) - 0951z</b>	<b>20 August 2020</b>
..... /EX 1754 BT	(IP - 0950z)		
G6T7/M0J1 AR			
NR 1346/EX 1754 BT			
G6T7/M0JJ AR			
NR 1346/EX 1754 BT			
G6T7/M0J1 AR QSY 24 QSY 24 VVV	(0951z)		
<i>Courtesy JPL</i>			

**M95** O XSV, XSV70, XSV85

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

<b>3513.6</b>	<b>ICA</b>	<b>1242 (IP) - 1301z</b>	<b>23 Aug</b>	VVV (x3) SZ1 (x3) DE (x2) ICA (x2) MSG MSG CK 1323 CK 1323 BT (1300z)	(Remote tuner Hong Kong) (Chirpy/Drifting signal - Cont'd 1242z)	JPL	SUN
3642//NRH	<b>Call Sign 3A7D</b>	(Active daily - only first marker log has been included)					
3642//7602	<b>Call Sign 3A7D</b>	(Active daily - only first marker log has been included)					
3968//NRH	<b>Call Sign SAQC (Previously 3A7D)</b>	<b>1528z</b>	<b>08 Jul</b>	V YHDX (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	WED
3968//6936	<b>Call Sign SAQC (Previously 3A7D)</b>	<b>1830z</b>	<b>16 Jul</b>	V YHDX (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	THU
		<b>1515z</b>	<b>09 Aug</b>	V YHDX (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	SUN
4243//NRH	Message number differs from current XSV70 and XSV85 message numbers.						
	<b>1140 - 1159z</b>	<b>26 Jul</b>	NR 032 CK 31 35 0726 1524 BT NR 52 CK 141 35 0726 1552 BT	(Remote tuner Hong Kong)	JPL	SUN	

4243//9054	Message number differs from current XSV70 and XSV85 message numbers.					
	1144 - 1154z	02 Jul	NR 083 CK 37 35 0702 1525 BT NR 04 CK 151 35 0702 1550 BT	(Remote tuner South Korea)	JPL	THU
	2347 - 2351z	27 Jul	NR .5 CK 0 3. 35 0728 0642 BT	(Remote tuner ShangHai)	JPL	MON
	1140 - 1153z	27 Jul	NR 034 CK 39 35 0727 1530 BT NR 075 CK 21 35 0727 1608 BT NR 54 CK 131 35 0727 1635 BT	(Remote tuner ShangHai)	JPL	MON
	1148 (IP) - 1214z	01 Aug	NR 02 CK 149 35 0801 1610 BT NR 044 CK 56 35 0801 1612 BT NR 090 CK 21 35 0801 1631 BT	(Remote tuner ShanGhai)	JPL	SAT
	1149 (IP) - 1152z	10 Aug	NR 063 CK 17 35 0810 1510 BT NR 20 CK 123 35 0810 1548 BT	(Remote tuner Hong Kong)	JPL	MON
	1146 (IP) - 1200z	23 Aug	NR 088 CK 54 35 0823 1540 BT NR 46 CK 185 35 0823 1548 BT	(Remote tuner Taiwan)	JPL	SUN
	1145 (IP) - 1209z	25 Aug	NR 02 CK 70 49 0825 1700 BT NR 092 CK 53 35 0825 1534 BT NR 50 CK 25. 35 0825 1556 BT	(Remote tuner Taiwan)	JPL	TUE
4283//7553	Call sign XSV70 0935 (IP) - 0952z	18 Aug	NR 725 CK 48 51 0818 1600 NR 724 CK 47 51 0818 0918 NR 723 CK 83 35 0818 0711	(Remote tuner Hong Kong)	JPL	TUE
4364//8073	Call Sign XSV85					
	1134 - 1137z	02 Jul	NR 0515 CK 150 35 0702 1623 BT	(Remote tuner Hong Kong)	JPL	THU
	1130 - 1140z	26 Jul	NR 0569 CK 174 35 0726 1633 BT	(Remote tuner Hong Kong)	JPL	SUN
	1130 - 1138z	27 Jul	NR 0571 CK 202 35 0727 1536 BT	(Remote tuner Hong Kong)	JPL	MON
	1130 - 1148z	01 Aug	NR 0591 CK 482 35 0801 1611 BT	(Remote tuner Hong Kong)	JPL	SAT
	1130 - 1147z	10 Aug	NR 0621 CK 77 35 0810 1146 BT NR 0622 CK 233 35 0810 1637 BT	(Remote tuner Hong Kong)	JPL	MON
	1132 (IP) - 1144z	23 Aug	NR 0666 CK 308 35 0823 1624 BT	(Remote tuner Hong Kong)	JPL	SUN
	1130 (IP) - 1144z	25 Aug	NR 0670 CK 280 35 0825 1608 BT	(Remote tuner Hong Kong)	JPL	TUE
5322//NRH	<b>Note: New frequency for this Round Slip. (Sending FDBK via FDLK)</b>					
	1519z	09 Aug	V FDLK (x3) DE DKGf (x2)	(Remote tuner Novosibirsk)	JPL	SUN
5479//10722	Call Sign SAQC 1233z	(Active daily - only first marker log has been included) 02 Jul	V YHxD (x3) DE SAQC (x2) (IP - Cont'd)	(Remote tuner Novosibirsk)	JPL	THU
	1253z	01 Aug	V YHxD (x3) DE SAQC (x2) (IP - Cont'd)	(Remote tuner Novosibirsk)	JPL	SAT
6666	<b>1205 (IP) - 1213z</b>	<b>23 Aug</b>	NR 0278/CCK CK 61 24 0823 2005 RMKS 1234 TO 5678 K	(Remote tuner Taiwan)	JPL	SUN
9054	Call sign XSV85 (See also 4243//9054kHz listing)	All logged via Remote tuner Hong Kong unless stated				
	2344 (IP) - 2358z	24 Aug	NR 073 CK 24 35 0825 0613 BT NR 074 CK 38 35 0825 0616 BT NR 091 CK 56 35 0825 0639 BT NR 49 CK 126 35 0082 0700 BT	(Remote tuner Taiwan)	JPL	MON
10180	Call Sign 3A7D	(Active daily - only first marker log has been included)				
10722//NRH	Call Sign 3A7D 1048z	01 May	YHxD (x3) DE SAQC (x2)	(Remote tuner Khabarovsk)	JPL	FRI

**M95 4243/9054kHz 1140z 26 July 2020**

Initial call-up in voice USB 1140z Female operator  
 Chinese digital 4+4 QPSK 75/3000 LSB 1142z  
 Switched to CW 1153z

VV HR MSG TO YR PSE CY (1154z)  
**NR 032 CK 31 35 0726 1524 BT** (1154z)  
 5AA UTT TU6 3U6 3A4 5T7 5TD N44 5AA 75U  
 354 373 N3D 353 4T7 445 3DA 4D3 5TN 75U  
 354 373 N3D 353 4A7 33N N3D 4TN 445 3DA  
 4D3 AR 7G AGN  
**NR 032 CK 31 35 0726 1524 BT** (Repeats message – 1157z)  
 AR AHR MSG GA  
**NR 52 CK 141 35 0726 1552 BT**  
 UTU TU6 3U6 3A4 TTU 773 354 373 N35 353 (Cont'd – 1159z)

**M95 4243/9054kHz 1140z 27 July 2020**

Initial call-up in voice USB 1140z Female operator  
 Chinese digital 4+4 QPSK 75/3000 LSB 1142z  
 Switched to CW 1147z

VV HR MSG TO YR PSE CY (1147z)  
**NR 034 CK 39 35 0727 1530 BT**  
 5AA UTT TU7 3U6 3A4 5T7 5TD 75U 353 35A  
 4T7 445 3DA 4D3 5TN 754 353 U4T 35A 4TN  
 33N N3D 4A7 445 3DA 4D3 5AA 75U 343 445  
 35A 4T7 346 N3D 4T3 445 3DA 4D3 AR A HR 7G GA  
**NR 075 CK 21 35 0727 1608 BT**  
 UT5 TU7 3U6 3A4 TTA TTU TT3 773 353 445 (Cont'd – 1151z)  
 AR A HR 7G GA  
**NR 54 CK 131 35 0727 1635 BT**  
 UTU TU7 3U6 3A4 TTU 773 353 373 4TN 445 (Cont'd – 1153z)

*Courtesy JPL*

**M95 4364/8073kHz 1130z 10 August 2020**

Into Voice - USB - Chinese - Male - 1130z  
 Chinese digital 4+4 QPSK 75/3000 – LSB 1131z  
 Switched to CW – Hand sent 1142z

V BNGC (x3) DE XSV85 (x2) (1142z)  
 HR MSGS GA PSE CY (1143z)  
**NR 0621 CK 77 35 0810 1146 BT**  
 TTD N5U TAT N53 TAU N54 7TT TT6 746 6T3 6T7 (Cont'd – 1144z)  
 AR A HR MSG GA  
**NR 0622 CK 233 35 0810 1637 BT**  
 TAT 3U6 3AN 3U7 TAU 773 354 36D 4U4 456 (Cont'd – 1149z)

**M95 4283/7553kHz 0935z 18 August 2020**

U46 35A 4T7 445 4D6 TAU 773 (IP – Cont'd – 0935z)  
 A HR MSG GA  
**NR 725 CK 48 51 0818 1600**  
 6T3 6T7 TUT N5A 6TA TT7 6T3 7TT TTU 6T7 6AT TA4  
 (Cont'd – fading – 0937z)  
 7G AGN  
**NR 725 CK 48 51 0818 1600** (Repeats message – 0938z)  
 HR MSG GA  
**NR 724 CK 47 51 0818 0918**  
 6T3 6T7 TUT N5A 6TA TT7 6T3 7TT TTA 6T7 6AT TTD (0941z)  
 MSG AGN  
**NR 724 CK 47 51 0818 0918** (Repeats message – 0942z)  
 A HR MSG GA  
**NR 723 CK 83 35 0818 0711**  
 .35 UT3 TAD 3U4 3A5 TT4 773 355 (Cont'd – 0945z)  
 MSG AGN  
**NR 723 CK 83 35 0818 0711** (Repeats message – 0949z)  
 ZNN (0952z)

*Courtesy JPL*

## Marker Beacons (MX MXI)

4558.8	2258z	28 Jul	MXI CW Beacon "P"	Kaliningrad	TUE	
4558.1	2259z	28 Jul	MXI CW Beacon "A"	Astrakhan	TUE	
5153.7	2211z	23 Jul	MXI CW Beacon "D"	Sevastopol	THU	
5153.8	2213z	23 Jul	MXI CW Beacon "P"	Kaliningrad	THU	
5154.1	2213z	23 Jul	MXI CW Beacon "A"	Astrakhan	THU	
5156.9	2325z	12 Aug	MX CW Beacon "L"	St Petersburg (Fast)	Audible under STANAG	WED
7508.7	2307z	28 Jul	MXI CW Beacon "D"	Sevastopol	TUE	
7508.8	2329z	12 Aug	MXI CW Beacon "P"		WED	
7509.1	2308z	28 Jul	MXI CW Beacon "A"	Astrakhan	TUE	
8497.8	2218z	23 Jul	MX CW Beacon "L"	St Petersburg	THU	
10871.7	2219z	23 Jul	MXI CW Beacon "D"	Sevastopol	THU	
10871.9	2221z	23 Jul	MXI CW Beacon "S"	Sevoromorsk	THU	
10872	2222z	23 Jul	MXI CW Beacon "C"	Moscow	THU	
10872.1	2223z	23 Jul	MXI CW Beacon "A"	Astrakhan	THU	
13527.7	2225z	23 Jul	MXI CW Beacon "D"	Sevastopol	THU	
13527.8	2312z	28 Jul	MXI CW Beacon "P"	Kaliningrad	TUE	
13527.9	2311z	28 Jul	MXI CW Beacon "S"	Sevoromorsk	TUE	
16331.7	2316z	28 Jul	MXI CW Beacon "D"	Sevastopol	TUE	
16331.9	2315z	28 Jul	MXI CW Beacon "S"	Sevoromorsk	TUE	



## Oddities

### 3510kHz 'The Air Horn'

3510 2055z 16 Aug Marker Fair signal USB BR SUN

### 5292kHz Marker

5292 2336z 12 Aug Marker MCW Similar to Morse 'N' BR WED

### S28 'The Buzzer'

4625 2340z 12 Aug S28 'The Buzzer' Marker USB BR WED  
Sounding decidedly 'throaty' – Possibly from BC modulation underneath

### S30 'The Pip'

3756 2345z 12 Aug S30 'Pip' marker (Night freq) Weak USB BR WED

### S32 'Squeaky Wheel'

3828 2345z 12 Aug S32 'Squeaky Wheel' marker (Night freq) Three distinct notes now USB BR WED

**Contributors:** AB, BR, Daniel/AR, Danix, dmhz, 'E', ER, F5JBR, Gert, HFD, JPL, RNGB, Tony *Thank you all for your logs.*

## Voice stations, Polytones and Hybrids

## E06

### July/Aug log:

#### Thursday/Friday

10/07 '361' 458 30 41907.....etc

**0300z 14835kHz 0400z 12189kHz**  
(HfD)

27/08 '361' 592 33 84350.....etc

via KiwiSDR CHN **0300z 14648kHz 0400z 12084kHz**  
(Thanks HfD)

#### First /Third Thursday (repeats Friday)

02/07 '679' 234 51 57715 12091 72596 60539 64014 07543 19927 99035 22912 21000 15163 80478 84097 34967 16107 95346 82112 08165 21423 37215  
61176 18397 78700 11891 64556 28172 06309 15385 68181 71506 21191 41670 63182 85372 89813 06163 17038 34196 44445 95857  
68032 00871 31951 82074 32690 42708 87300 56724 30896 35767 48965 234 51 00000

16/07 '679' 408 51 27807 19350 47703 29186 92934 07054 48011 96999 49996 15431 70747 42581 75588 22745 58674 11946 35805 14523 89693 20943  
16606 29129 73469 82127 76930 17108 16902 75873 23017 06487 19383 70409 27332 91223 83780 20471 40582 84981 54072 99253  
70221 07431 15591 43350 23905 95248 18793 15372 41311 55022 12505 408 51 00000

06/08 '210' 937 51 10384 11883 77731 61854 97519 78517 60895 03717 17322 32082 10762 09649 61924 89468 67918 38243 77436 22220 70031 52606  
28295 72023 98077 95289 90614 11232 47674 88701 72987 40581 86451 65686 88149 41314 83386 59976 23976 23877 21057 11190  
87224 40388 26736 64066 18469 53069 83274 66634 01664 75810 05711 937 51 00000

20/08 '210' 867 53 80426 49846 82301 63485 49504 32965 06369 25310 61684 87182 34173 98604 52937 34415 60625 59552 87345 85965 71705 60397  
12832 89928 25248 52101 68166 34947 13457 15683 33417 71245 11854 25690 41059 34896 44328 94231 89902 86238 19004 69025  
29050 98402 14580 83874 04059 56856 21854 85030 82491 55937 70109 81871 01058 867 53 00000

#### First/Third Thursday of month **2030z 5945kHz (frequency may vary slightly)**

16/07 '724' 268 44 56897 25468 25658 21598 32658 15785 25468 85498 23015 02468 02157 20179 11578 25678 25675 25684 23256 25452 31658 22871  
15254 85758 02564 85450 78562 75679 20120 20235 92556 25987 25654 87835 70125 36465 02357 25468 89458 90201 87545 66584  
89587 01201 25361 86974 268 44 00000 (used 5937kHz) Started early Thanks Ary

06/08 '724' 127 37 51237 20384 21680 37746 12146 75462 05150 24548 55791 21357 74651 51423 84514 84547 51354 57781 20350 84102 65691 55164  
50548 44720 55125 84623 71325 88450 17432 95354 22154 63254 02157 84548 51245 51494 99545 20247 88475 127 37 00000  
(used 5936kHz)

#### Friday following First & Third Thursday **2130z 5731kHz (frequency may vary slightly)**

03/07 '315' 547 44 31532 37905 68553 78912 87443 94012 18514 01953 38414 13202 41945 23285 15802 65245 87462 78912 87463 94562 18912 84853  
45067 42412 15464 75612 14532 34585 68553 23462 73459 41847 21250 10473 27624 17023 54332 81220 82144 41265 96183 74874  
66753 78203 80329 38780 547 44 00000]

17/07 '315' 268 44 56897 25468 25658 21598 32658 15785 25468 85498 23015 02468 02157 20179 11578 25678 25675 25684 23256 25452 31658 22871  
15254 85758 02564 85450 78562 75679 20120 20235 92556 25987 25654 87835 70125 36465 02357 25468 89458 90201 87545 66584  
89587 01201 25361 86974 268 44 00000 (used 5735kHz) Started early

07/08 '315' 127 37 51237 20384 21680 37746 12146 75462 05150 24548 55791 21357 74651 51423 84514 84547 51354 57781 20350 84102 65691 55164  
50548 44720 55125 84623 71325 88450 17432 95354 22154 63254 02157 84548 51245 51494 99545 20247 88475 127 37 00000  
(used 5727kHz)

21/08 '315' 431 41 66457 44256 01545 45746 21575 95874 65245 22504 85475 11425 58561 02154 54873 85495 87824 02457 85456 84587 56547 78931  
25456 00578 85478 85746 89546 75842 01203 78496 71054 85475 21054 85424 70154 80154 95745 02157 99865 42578 54765 25423  
54215 431 41 00000

#### From PoSW:

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

16-July-20:- 5937 kHz, calling "724", weak signal, unusual, difficult copy, DK/GC well before 2032 UTC so must have started early, "268 268 44 44".

6-Aug-20:- 5936 kHz, call "724", weak but clear, no strong broadcast stations close by despite this being inside the 49 metre band, DK/GC "127 127 37 37" at 2032 UTC approx, tuned in just before the half-hour, ended before 2039z.

20-Aug-20:- 5940 kHz, very weak signal found in progress at 2034z, unreadable.

#### Friday 2130 UTC Schedule Following First + Third Thursdays Schedule:-

3-July-20:- 5731 kHz, well before, calling "315", DK/GC "547 547 44 44", strong signal.  
Ended approx 2140z, no computer shut-down sounds heard, came back with a single "315" at before 2141z, carrier off 2144.

17-July-20:- 5735 kHz, call "315", DK/GC "268 268 44 44" at before 2132z, much weaker signal than when last heard.

7-Aug-20:- 5727 kHz I made it, "315", DK/GC "127 127 37 37", weak signal.

21-Aug-20:- 5731 kHz, call "315", DK/GC well before 2132z, early start, "431 431 41 41".  
Good signal unlike most of the Friday and Thursday evening transmissions in the last two months.

## E07

We start with PoSW's E07 logs and as usual onto others logs

#### Sunday + Wednesday Schedule, 1700 UTC Start:-

5-July-20, Sunday:- 1700 UTC, 12223 kHz, "201 201 201 1", DK/GC "8026 257" x 2, this schedule keeping up its tradition for coming up with very long messages on a fairly regular basis, ended around 1728 UTC, strong signal.

1733 UTC, 11023 kHz, second sending, weaker.

1806 UTC, 10123 kHz, back up to a strong signal.

8-July-20, Wednesday:- 1700 UTC, 12223 kHz, "201 201 201 1", DK/GC "1564 159" x 2,  
not quite as long as the message on the 5<sup>th</sup>, not too strong.

1720 UTC, 11023 kHz, stronger over S9.

1740 UTC, 10123 kHz, also over S9, inside 30 metre amateur band, CW on close frequency.

12-July-20, Sunday:- 1700 UTC, 12223 kHz, "201" and "1564 159" again, very strong signal.

1720 UTC, 11023 kHz, weaker.

1740 UTC, 10123 kHz, strong, weaker CW on frequency.

15-July-20, Wednesday:- 1700 UTC, 12223 kHz, "201 201 201 000", strong.

1720 UTC, 11023 kHz, weaker.

19-July-20, Sunday:- 1700 UTC, 12223 kHz, strong signal and 1720 UTC, weaker, "201 201 201 000".

26-July-20, Sunday:- 1700 UTC, 12223 kHz, "201 201 201 000", S9 signal.

1720 UTC, 11023 kHz, weaker.

29-July-20, Wednesday:- 1700 UTC, 12223 kHz, strong and 1720 UTC, weaker, "201 201 201 000".

2-Aug-20, Sunday:- 1700 UTC, 13397 kHz, "316 316 316 000", peaking over S9.

1720 UTC, 12197 kHz, also strong.

9-Aug-20, Sunday:- 1700 UTC, 13397 kHz and 1720 UTC, 12197 kHz, both strong, "316 316 316 000".

12-Aug-20, Wednesday:- 1700 UTC, 13397 kHz, "316 316 316 000", strong signal.

1720 UTC, 12197 kHz, also strong.

19-Aug-20, Wednesday:- 1700 UTC, 13397 kHz, "316 316 316 000", weak signal.

1720 UTC, 12197 kHz, much stronger, over S9.

23-Aug-20, Sunday:- 1700 UTC, 13397 kHz, "316 316 316 000", weak.

1720 UTC, 12197 kHz, strong but with interference from a very strong wide-band pulse / buzz type signal extending from roughly 12190 to 12220 which started just a few seconds before E07 began.

**Monday + Wednesday Schedule, 1900 UTC Start:-**

8-July-20, Wednesday:- 1900 UTC, 16263 kHz, “273 273 273 1”, DK/GC “125 151”, very strong signal.

1920 UTC, 14763 kHz, second sending, also very strong.

1940 UTC, 13363 kHz, third sending also S9+.

15-July-20, Wednesday:- 1900 UTC, 16263 kHz, weak signal this evening, “273 273 273 000”.

1920 UTC, 14763 kHz, second sending in contrast very strong.

20-July-20, Monday:- 1900 UTC, 16263 kHz, “273 273 273 1”, DK/GC “893 99” x 2, weak, difficult copy.

1920 UTC, 14763 kHz, weak, clear copy.

1940 UTC, 13363 kHz, strongest but only up to S4 or so.

27-July-20, Monday:- 1900 UTC, 16263 kHz, “273 273 273 000”, S6.

1920 UTC, 14763 kHz, very strong.

29-July-20, Wednesday:- 1900 UTC, 16263 kHz, very strong and 1920 UTC, 14763 kHz, slightly weaker, “273 273 273 000”.

3-Aug-20, Monday:- 1900 UTC, 16147 kHz, “164 164 164 1” for a full message, DK/GC “340 59” x 2, weak signal.

1920 UTC 14647 kHz, stronger.

1940 UTC, 13447 kHz, very strong.

5-Aug-20, Wednesday:- 1900 UTC, 16147 kHz, “164” and “340 59” again, strong this evening.

1920 UTC, 14647 kHz, weaker.

1940 UTC, 13447 kHz, back up to a strong signal.

12-Aug-20, Wednesday:- 1900 UTC, 16147 kHz, “164 164 164 000”, very strong signal.

1920 UTC, 14647 kHz, slightly weaker although not by much.

19-Aug-20, Wednesday:- 1900 UTC, 16147 kHz, full message, “164 164 164 1”, DK/GC “460 115” x 2, peaking S9 with deep QSB. A strong carrier came up for a few seconds during the call-up routine.

1920 UTC, 14647 kHz, weaker.

1940 UTC, 13447 kHz, interference from a wide-band buzz extending from approx 13425 to 13455; this type of signal is quite widespread on the short-wave bands these days.

24-Aug-20, Monday:- 1900 UTC, 16147 kHz, “164 164 164 000”, weak but clear.

1920 UTC, 14647 kHz, stronger.

**Sunday Schedule, 0600 UTC Start:-**

5-July-20:- 0600 UTC, 10317 kHz, “312 312 312 000”, weak signal.

0620 UTC, 11117 kHz, much stronger, same frequencies as in June.

12-July-20:- 0600 UTC, 10317 kHz, “312 312 312 000”, S6.

0620 UTC, 11117 kHz, stronger, S9.

19-July-20:- 0600 UTC, 10317 kHz and 0620 UTC, 11117 kHz, both over S9, “312 312 312 000”.

26-July-20:- 0600 UTC, 10317 kHz, “312 312 312 000”, S7.

0620 UTC, 11117 kHz, peaking over S9.

2-Aug-20:- change of frequencies in August, unable to find 0600z sending, second transmission found OK:-

0620 UTC, 10261 kHz, “224 224 224 000”, strong signal, first sending likely to be on 9261, then.

9-Aug-20:- 0600 UTC, 9261 kHz, as expected, “224 224 224 000”, S8.

0620 UTC 10261 kHz, slightly weaker.

16-Aug-20:- 0600 UTC, 9261 kHz and 0620 UTC, 10261 kHz, both S8, “224 224 224 000”.

23-Aug-20:- 0600 UTC, 9261 kHz, “224 224 224 000”, S7.

0620 UTC, 10261 kHz, slightly stronger.

**Saturday Schedule, 1300 UTC Start:-**

4-July-20:- 1300 UTC, 12176 kHz, “152 152 152 000”, over S9.

1320 UTC, 11576 kHz, also strong, same frequencies as used since first monitoring this schedule in April.

11-July-20:- 1300 UTC, 12176 kHz and 1320 UTC, 11576 kHz, both strong, “152 152 152 000”.

18-July-20:- 1300 UTC, 12176 kHz, strong and 1320 UTC, 11576 kHz, weaker, “152 152 152 000”.

25-July-20:- 1300 UTC, 12176 kHz, strong and 1320 UTC, 11576 kHz, again weaker, “152 152 152 000”.

1-Aug-20:- 1300 UTC, 12176 kHz, “152 152 152 000”, no change of frequencies in August, short break in transmission for a few seconds, ended after 1302:30s UTC.

1320 UTC, 11576 kHz, strong signal.

8-Aug-20:- 1300 UTC, 12176 kHz and 1320 UTC, 11576 kHz, both over S9, “152 152 152 000”.

22-Aug-20:- 1300 UTC, 12176 kHz, “152 152 152 000”, strong signal.

1320 UTC, 11576 kHz, also strong.



Onto others' E07 logs

**Sunday/Wednesday**

**July 2020**

<b>1700z</b>	<b>12223kHz</b>	<b>1720z</b>	<b>11023kHz</b>	<b>1740z</b>	<b>10123kHz</b>	
01/07	201 1 8026 257 94788 ... 07610 000 000 Note revised start times due to msg length (28m) 1733z and 1806z					Weak
05/07	201 1 8026 257 94788 ... 07610 000 000 Note adjusted start times due to msg duration					1700z Strong, 1733z Fair, 1806z Weak
08/07	201 1 1564 159 74679 ... 11836 000 000				[1740z Strong]	Weak
12/07	201 1 1564 159 74679 ... 11836 000 000				[1700z Strong]	Fair
15/07	201 000					1700z Strng, 1720z Weak
19/07	201 000					Fair
22/07	201 000				[1720z Weak]	Strong
26/07	201 000					Weak
29/07	201 000					Fair

**August 2020**

<b>1700z</b>	<b>13397kHz</b>	<b>1720z</b>	<b>12197kHz</b>	<b>1740z</b>	<b>10697kHz</b>	
02/08	316 000					Strong
05/08	316 000					Weak
09/08	316 000					1700z Weak, 1720z Fair
12/08	316 000					Weak
16/08	316 000					Strong
19/08	316 000					Weak
23/08	316 000				[1700z Weak]	Strong
26/08	316 000					Weak
30/08	316 000					1700z Weak, 1720z Fair

**Sunday/Saturday**

**July 2020**

<b>0600z</b>	<b>10317kHz</b>	<b>0620z</b>	<b>11117kHz</b>	<b>0640z</b>	<b>12217kHz</b>	
05/07	312 000					[Also fm Ary] 0600z Weak, 0620z Fair

**Monday/Wednesday**

**July 2020**

<b>1900z</b>	<b>16263kHz</b>	<b>1920z</b>	<b>14763kHz</b>	<b>1940z</b>	<b>13363kHz</b>	
01/07	273 000					Strong
06/07	273 1 125 151 13011 ... 11697 000 000 Note start times, 1925 and 1948z and restart of 1900z [Thanks Malc]					Weak
08/07	273 1 125 151 13011 ... 11697 000 000				[1920z Weak in Argentine]	Very strong
13/07	273 000					Weak
15/07	273 000					1900z Weak, 1720z Strong
20/07	273 1 893 99 25295 ... 37542 000 000					Weak
22/07	273 1 893 99 25295 ... 37542 000 000					Very strong
27/07	273 000					1900z Weak, 1920z Very strong
29/07	273 000					Very strong

**August 2020**

1900z	16147kHz	1920z	14647kHz	1940z	13447kHz	
03/08	164 1 340 59 00095 ...	92199 000 000				[1940z Very strong, Weak in Argentine] Weak
05/08	164 1 340 59 00095 ...	92199 000 000				Fair
10/08	164 000					Very strong
12/08	164 000					Very strong
17/08	164 1 460 115 35085 ...	34956 000 000				Strong
19/08	164 1 460 115 35085 ...	34956 000 000				[1940z QRM4/5, 1920z WeakDanAR] Weak
24/08	164 000					Weak
26/08	164 000					[1900z Dutch SDR] Weak

**Tuesday/Friday****July 2020**

0700z	15962kHz	0720z	17462kHz	0740z	18542kHz	
03/07	945 1 310 82 42059 ...	85602 000 000				Weak
07/07	945 000					[0720z DutchSDR] Weak
10/07	945 000					Weak
14/07	945 1 1085 98 02396 ...	13950 000 000				[0740z Dutch SDR] Weak
21/07	945 000					Weak
24/07	945 000					Weak, via DutchSDR
28/07	945 1 2706 84 59639 ...	03926 000 000				[0720/0740z Dutch SDR] Weak
31/07	945 1 2706 84 59639 ...	03936 000 000				[0740z Dutch SDR] Weak

**August 2020**

0700z	16246kHz	0720z	18446kHz	0740z	19246kHz	
07/08	242 000					Weak, Dutch SDR
11/08	242 1 102 58 33979 ...	51275 000 000				Weak, Dutch SDR
14/08	242 1 102 58 33979 ...	51275 000 000				[0720/0740z Dutch SDR] Weak
18/08	242 000					[0720z Dutch SDR] Weak
21/08	242 000					[0720z Dutch SDR] Weak
25/08	0700z QRM5, 0720z Unworkable					
28/08	242 1 102 58 33979 ...	51275 000 000				[0720z Dutch SDR] Weak

**Tuesday/Friday****July 2020**

1100z	19252kHz	1120z	17242kHz	1140z	16252kHz	
03/07	242 000					Weak
07/07	242 1 2358 34 54301 ...	24334 000 000				[1100z Unworkable, 1120z DutchSDR] Weak
10/07	242 1 2358 34 54301 ...	24334 000 000				[1100z Dutch SDR] Weak
14/07	242 1 2358 34 54301 ...	24334 000 000				[1140z QSB2] Weak, via Dutch SDR
21/07	242 000					Weak
24/07	242 000					[1100z DutchSDR] Weak
28/07	242 1 586 25 76710 ...	72087 000 000				[1100z Dutch SDR] Weak
31/07	242 1 586 25 76710 ...	72087 000 000				[1100z Dutch SDR] Weak

**August 2020**

1100z	20146kHz	1120z	18246kHz	1140z	16346kHz	
04/08	123 000			Difficult condx	[1100z NRH]	Weak via Dutch SDR
07/08	123 000				[1100z NRH]	Weak
11/08	123 1 603 98 15602 ... 10272 000 000				[1100z NRH, 1120z Dutch SDR]	Weak
14/08	123 1 603 98 15602 ... 10272 000 000				[1100z Unworkable, Dutch SDR]	Weak
18/08	123 1 603 98 15602 ... 10272 000 000				[1100z Unworkable QRN5]	Weak, Dutch SDR
21/08	123 1 603 98 15602 ... 10272 000 000				[1100z NRH, 1120z Dutch SDR]	Weak
25/08	123 000					Weak, Dutch SDR
28/08	NRH					

**Thursday/Saturday****July 2020**

1410z	13562kHz	1430z	14862kHz	1450z	16162kHz	
02/07	441 1 196 65 73898 ... 81042 000 000				[1410z QSB1]	Weak
09/07	441 000					Weak
11/07	441 000					Weak
16/07	441 000					Weak
23/07	441 000					1410z Weak, 1430z Fair
25/07	441 000					Weak

**August 2020**

1410z	13519kHz	1430z	14819kHz	1450z	15919kHz	
06/08	288 000					Weak
08/08	288 000					Weak
13/08	288 000					Weak
15/08	288 000					Weak
20/08	288 000					Weak
22/08	288 000					Weak
27/08	288 1 7493 79 52130 ... 84441 000 000					Weak
29/08	288 1 7493 79 52130 ... 84441 000 000				[1430z Dutch SDR]	Weak

**July 2020****Saturday**

1300z	12176kHz	1320z	11576kHz	1340z	10276kHz	
11/07	152 000					Fair
25/07	152 000					Weak

**August 2020**

08/08	152 000					Strong
15/08	152 000					Very strong
22/08	152 000					Strong
29/08	152 000					1300z Strong, 1320z Fair

# E07a

We start with others' logs and then to PoSW's logs and comments:

Wednesday

July 2020

2000z	12166kHz	2020z	10766kHz	2040z	9266kHz	
01/02	172 000					Very strong
08/07	172 000				[2000z Weak in Argentine]	Very strong
15/07	172 1 10906 527 95 70492 ... 30091 000 000					Very strong
22/07	172 1 10906 527 95 70472 ... 30091 000 000				[2000z XPB1? QRM, 2020z Fair]	Strong
29/07	172 000					Very strong

August 2019

05/08	172 000					Very strong
12/08	172 000 [PLdn Stn closed due to Lightning]					Very strong, Weak in Argentine
19/08	172 1 32926 1346 95 10940 ... 46332 000 000				[2000z Strong, Weak DanAR]	Fair
26/08	172 000					Very strong

Thursday

July 2020

0430z	7933kHz	0450z	9133kHz	0510z	10233kHz	
02/07	912 000					Very strong
*CW sharing	0450z freq:	K3MGD	missed characters	Z 3K		
	At 0453z:	HBD3RK				
	At 0502z:	HBD3K				
09/07	912 000					Very strong
16/07	912 1 10906 527 95 70492 ... 30091 000 000					Very strong
23/07	912 1 10906 527 95 70472 ... 30091 000 000					Fair
30/07	912 000					Very strong

August 2020

06/08	912 000					Very strong
13/08	912 000					0430z Very strong, 0450z Fair
20/08	912 1 32926 1346 95 10940 ... 46332 000 000				[0510z Weak, QSB4]	Strong
27/08	912 000					Fair, QRM3

Friday

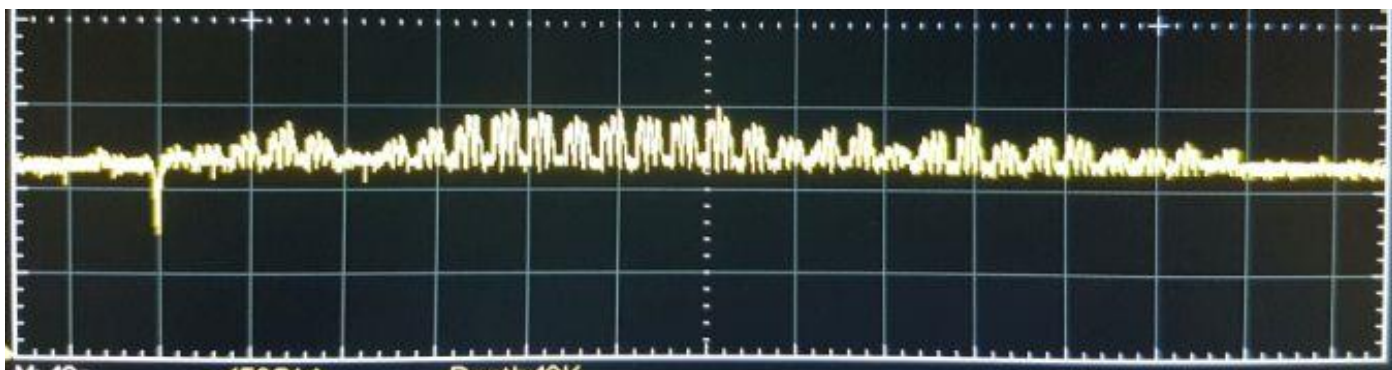
July 2020

1510z	12213kHz	1530z	11413kHz	1550z	10113kHz	
03/07	241 000					Weak
10/07	241 000					Weak
17/07	241 000					Fair
24/07	241 000					Fair
31/07	241 000					Fair



August 2020

1510z 12213kHz 1530z 11413kHz 1550z 10113kHz



\*Scope trace of AGC voltage during 1530z sending 14/08; note variation in signal strength. [PLdn]

07/08	241 000		Very strong
14/08	241 000	[1510z Strong]	Fair*
21/08	241 000		Strong
28/08	241 000		Weak, QSB2/3
28/08	241 000		Strong

Saturday

July 2020

0800z 12173kHz 0820z 13973kHz 0840z 14873kHz

04/07	198 000		Weak
11/07	198 000		Weak
18/07	198 000		Weak

August 2020

0800z 12177kHz 0820z 13477kHz 0840z 14877kHz

08/08	148 000	[0820z QRM3]	Strong
15/08	148 000		Fair
22/08	148 000		Strong
29/08	148 000		0800z Weak, 0820z Fair

PoSW's logs and associated comments:

Friday Schedule, 1510 UTC Start:-

3-July-20:- 1510 UTC, 12213 kHz, "241 241 241 000", S8.  
1530 UTC, 11413 kHz, slightly weaker.

17-July-20:- 1510 UTC, 12213 kHz, "241 241 241 000", S7.  
1530 UTC, 11413 kHz, very strong, S9+.

24-July-20:- 1510 UTC, 12213 kHz, "241 241 241 000", peaking over S9, missed second sending.

31-July-20:- 1510 UTC, 12213 kHz and 1530 UTC, 11413 kHz, both strong, "241 241 241 000".

7-Aug-20:- 1510 UTC, 12213 kHz, no change of frequencies in August, "241 241 241 000", strong signal.  
1530 UTC, 11413 kHz, slightly weaker.

21-Aug-20:- 1510 UTC, 12213 kHz and 1530 UTC, 11413 kHz, both strong, "241 241 241 000".

28-Aug-20:- 1510 UTC, 12213 kHz, "241 241 241 000", strong signal, missed 1530z sending.

Saturday Schedule, 0800 UTC Start:-

4-July-20:- 0800 UTC, 12173 kHz, "198 198 198 000", strong signal.

0820 UTC, 13973 kHz, weaker.

11-July-20:- 0800 UTC, 12173 kHz, "198 198 198 000", strong.  
0820 UTC, 13973 kHz, slightly weaker.

18-July-20:- 0800 UTC, 12173 kHz, strong and 0820 UTC, 13973 kHz, weaker, "198 198 198 000".

25-July-20:- 0800 UTC, 12173 kHz and 13973 kHz, both around S7, "198 198 198 000".

1-Aug-20:- 0800 UTC, 12177 kHz, "148 148 148 000", over S9.  
0820 UTC, 13477 kHz, also over S9.

8-Aug-20:- 0800 UTC, 12177 kHz, over S9 and 0820 UTC, 13477 kHz, weaker, "148 148 148 000".

22-Aug-20:- 0800 UTC, 12177 kHz and 0820 UTC, 13477 kHz, both S9, "148 148 148 000".

**Wednesday Schedule, 2000 UTC Start:-**

1-July-20:- 2000 UTC, 12166 kHz, "172 172 172 000", very strong signal.  
2020 UTC, 10766 kHz, also very strong.

8-July-20:- 2000 UTC, 12166 kHz and 2020 UTC, 10766 kHz, both very strong, "172 172 172 000".

15-July-20:- 2004 UTC, 12166 kHz, missed the start and it was –unusually - "full message" this evening, in progress with 5Fs when tuned in, S9 plus many dB old man, ended around 2010:35s UTC.

2020 UTC, 10766 kHz, "172 172 172 1 10906", DK/GC "527 95" x 2, very strong.  
2040 UTC, 9266 kHz, also very strong.

29-July-20:- 2000 UTC, 12166 kHz, "172 172 172 000", very strong.  
2020 UTC, 10766 kHz, also very strong.

5-Aug-20:- 2000 UTC, 12166 kHz and 2020 UTC, 10766 kHz, both S9+, "172 172 172 000".

12-Aug-20:- 2000 UTC, 12166 kHz, "172 172 172 000", very strong.  
2020 UTC, 10766 kHz, also very strong.

19-Aug-20:- 2000 UTC, 12166 kHz, full message, "172 172 172 1 32926", DK/GC "1346 95" x 2, S9+.  
2020 UTC, 10766 kHz and 2040 UTC, 9266 kHz, repeats, both slightly weaker signals.

26-Aug-20:- 2000 UTC, 12166 kHz and 2020 UTC 10766 kHz, both very strong, "172 172 172 000".

# E11 & E11a log July/August

4146 kHz	2000z	06/07 [121/25 45230 25698 74521 02365 64879 01240 02365 87459 63254 10235 89653 22548 96301 47852 01456 98745 20012 36998 74521 01236 58745 36632 65840 12543 02542]	Daniel	MON
	1800z	19/07 [121/25 97889 70897 68757 58689 78656 74543 56342 53568 75696 75443 72425 46787 58987 64554 24253 56764 56374 52356 45533 54645 42325 45343 65577 57543 35443]	Daniel	SUN
4242kHz	2105z	15/07 [121/30 78965 32546 12236 54987 65323 36598 74002 55698 77565 11597 53054 65749 84151 32465 67851 12351 54687 83512 58736 94302 55884 02155 85952 65298 41234 50555 46851 45212 68741 21212]	Daniel	WED
4356kHz	1800z	18/07 [121/25 29654 87952 13546 87955 41326 85979 44563 21989 78946 53211 21395 17563 25874 13697 88621 06851 20689 41302 67898 76413 21687 43122 31546 88789 67411]	Daniel	SAT
4441kHz	1820z	19/07 [121/25 56376 84745 71454 56527 14597 14829 71982 71928 14759 17492 15745 94192 54192 41251 27162 54192 45219 24155 27165 27524 15241 52415 48545 27442 74454]	Daniel	SUN
4783kHz	1705z	01/07 [392/00] Out 1708z S2	Malc	WED
	1705z	04/07 [392/00] Out 1708z S5	Malc	SAT
	1705z	08/07 [394/00] Out 1708z S2	Malc	WED
	1705z	11/07 [390/00] Out 1708z S2	Malc	SAT
	1705z	15/07 [393/32 48597.....04836] Out 1715z S4 +QRM	Malc	WED
	1705z	22/07 [392/00] Out 1708z S2+QRM	Malc	WED
	1705z	25/07 [396/00] Out 1708z S3	Malc	SAT
	1705z	29/07 [395/00] Out 1708z S3+QRM	Malc	WED
	1705z	01/08 [393/00] Out 1708z S4	Malc	SAT
	1705z	08/08 [396/00] Out 1708z S5+QRM	Malc	SAT
	1705z	12/08 [395/00] Out 1708z S5+QRM	Malc	WED
	1705z	15/08 [392/00] Out 1708z S4+QRM	Malc	SAT
	1705z	22/08 [392/00] Out 1708z S3	Malc	SAT
	1705z	29/08 [390/40 71315.....51480] Out 1716z S6	Malc	SAT
4909kHz	0820z	10/07 [438/00] Out 0823z S2 (Dutch SDR)	Malc	FRI
	0820z	16/07 [438/00]	RNGB	THU
	0820z	17/07 [435/00] Out 0823z S3 (Dutch SDR)	Malc	FRI
	0820z	23/07 [436/00] Out 0823z S3	Malc	THU

4909kHz	0820z	24/07 [435/00] Out 0823z S2	(Dutch SDR)	Malc	FRI
	0820z	31/07 [436/00] Out 0823z S3	(Dutch SDR)	Malc	FRI
	0820z	06/08 [430/00] Out 0823z S3	(Dutch SDR)	Malc	THU
	0820z	07/08 [438/00] Out 0823z S3		Malc	FRI
	0820z	13/08 [438/00] Out 0823z S2	(Dutch SDR)	Malc, RNGB	THU
	0820z	14/08 [431/00] Out 0823z S2		Malc	FRI
	0820z	21/08 [434/36 00596.....54599] Out 0830z S4+Static	(Dutch SDR)	Malc	FRI
	0820z	27/08 [432/00] Out 0823z S2		Malc	THU
	0820z	28/08 [434/00] Out 0823z S2	(Dutch SDR)	Malc, RNGB	FRI
5082kHz	1930z	04/07 [364/32 55684.....87256] Out 1940z S6		Malc	SAT
	1930z	05/07 [364/32 55684.....etc] Repeat of Saturday		Malc	SUN
	1930z	11/07 [369/00] Out 1933z S5		Malc	SAT
	1930z	12/07 [363/00]		Gary H	SUN
	1930z	19/07 [368/00] Out 1933z S7		Malc	SUN
	1930z	25/07 [364/00] Out 1933z S3		Malc	SAT
	1930z	26/07 [366/00] Out 1933z S5		Malc	SUN
	1930z	02/08 [363/00] Out 1933z S6		Malc	SUN
	1930z	08/08 [369/00] Out 1933z S5		Malc	SAT
	1930z	09/08 [368/00] Out 1933z S3		Malc	SUN
	1930z	15/08 [363/36 52672.....46290] Out 1941z S9		Malc	SAT
	1930z	16/08 [363/36 52672.....etc] Repeat of Saturday		Malc	SUN
	1930z	22/08 [360/00] Out 1933z S9		Malc	SAT
1930z	23/08 [369/00] Out 1933z S5		Malc	SUN	
1930z	29/08 [367/00] Out 1933z S6		Malc	SAT	
5371kHz	1605z	07/07 [230/00] Out 1608z S3		Malc	TUE
	1605z	14/07 [231/35 59915.....22705] Out 1615z S2		Malc	TUE
	1605z	19/07 [231/35 59915.....etc] Repeat of Tuesday		Malc	SUN
	1605z	21/07 [232/00] Out 1608z S2		Malc	TUE
	1605z	26/07 [231/00] Out 1608z S3	(Dutch SDR)	Malc	SUN
	1605z	28/07 [232/00] Out 1608z S2		Malc	TUE
	1605z	02/08 [233/00] Out 1608z S2		Malc	SUN
	1605z	04/08 [232/40 70581.....44683] Out 1616z S3		Malc	TUE
	1605z	09/08 [232/40 70581.....etc] Repeat of Tuesday		Malc	SUN
	1605z	11/08 [237/00] Out 1608z S3		Malc	TUE
	1605z	16/08 [238/00] Out 1608z S2		Malc	SUN
	1605z	18/08 [233/00] Out 1608z S3		Malc	TUE
	1605z	23/08 [236/00] Out 1608z S2		Malc	SUN
	1605z	25/08 [235/00] Out 1608z S2		Malc	TUE
	1605z	30/08 [231/00] Out 1608z S2		Malc	SUN
5409kHz	1530z	03/07 [524/00] Out 1533z S2		Malc	FRI
	1530z	06/07 [527/00] Out 1533z S2		Malc	MON
	1530z	13/07 [523/00] Out 1533z S2		Malc	MON
	1530z	17/07 [524/00] Out 1533z S2		Malc	FRI
	1530z	20/07 [524/00] Out 1533z S2		Malc	MON
	1530z	27/07 [528/37 16044.....20124] Out 1541z S3	(Dutch SDR)	Malc	MON
	1530z	03/08 [522/00] Out 1533z S2		Malc	MON
	1530z	07/08 [527/00] Out 1533z S5	(Dutch SDR)	Malc	FRI
	1530z	10/08 [520/00] Out 1533z S2		Malc	MON
	1530z	14/08 [525/00] Out 1533z S2		Malc	FRI
	1530z	17/08 [521/00] Out 1533z S2		Malc	MON
	1530z	21/08 [522/00] Out 1533z S2		Malc	FRI
	1530z	28/08 [527/31 24082.....92686] Out 1539z S3		Malc	FRI
	1530z	31/08 [522/00] Out 1533z S3		Malc	MON
	5737kHz	0805z	04/07 [315/34 51902 82823 71625 96756 53601 11338 26893.....24803 37067] Out 0815z S2		RNGB, Malc
0805z		05/07 [315/34 51902.....etc] Repeat of Saturday		Malc	SUN
0805z		11/07 [311/00] Out 0808z S3	(Dutch SDR)	Malc	SAT
0805z		19/07 [312/00] Out 0808z S2		Malc	SUN
0805z		25/07 [314/00] Out 0808z S2		Malc	SAT
0805z		01/08 [316/00] Out 0808z S2		Malc, RNGB	SAT
0805z		02/08 [311/00] Out 0808z S2		Malc	SUN
0805z		08/08 [310/00] Out 0808z S4	(Dutch SDR)	Malc	SAT
0805z		09/08 [314/00] Out 0808z S2		Malc	SUN
0805z		15/08 [310/00] Out 0808z S2		Malc	SAT
0805z		16/08 [314/00] Out 0808z S2		Malc, RNGB	SUN
0805z		22/08 [312/00] Out 0708z S2		Malc	SAT
0805z		23/08 [310/00] Out 0808z S2		Malc	SUN
0805z	29/08 [312/34 50365.....47762] Out 0815z S3		Malc	SAT	
0805z	30/08 [312/34 50365.....etc] Repeat of Saturday		Malc	SUN	
6304kHz	1205z	01/07 [464/00] Out 1203z S3	(Dutch SDR)	Malc	WED
	1205z	07/07 [463/00] Out 1208z S2		Malc	TUE
	1205z	08/07 [465/00] Out 1208z S2	(Dutch SDR)	Malc	WED
	1205z	14/07 [465/00] Out 1208z S2	(Dutch SDR)	Malc	TUE
	1205z	15/07 [466/00]		RNGB	WED
	1205z	21/07 [469/39 31918.....44302] Out 1216z S2	(Dutch SDR)	Malc	TUE
	1205z	28/07 [469/00] Out 1208z S2	(Dutch SDR)	Malc	TUE
	1205z	29/07 [462/00] Out 1208z S3	(Dutch SDR)	Malc	WED
	1205z	04/08 [464/00] Out 1208z S3	(Dutch SDR)	Malc	TUE
	1205z	05/08 [469/45 40223.....07959] Out 1217z S2	(Dutch SDR)	Malc	WED

6304kHz	1205z	11/08 [467/45 40223.....etc] Repeat of Wednesday	(Dutch SDR)	Malc	TUE
	1205z	12/08 [460/00] Out 1208z S4	(Dutch SDR)	Malc	WED
	1205z	25/08 [463/40 10549.....99134] Out 1216z S3	(Dutch SDR)	Malc	TUE
6480kHz	0710z	04/07 [496/00] Out 0713z S3	(Dutch SDR)	Malc	SAT
	0710z	11/07 [495/00] Out 1713z S2		Malc	SAT
	0710z	19/07 [498/00] Out 0713z S2		Malc	SUN
	0710z	01/08 [495/00] Out 0713z S3		Malc	SAT
	0710z	08/08 [491/00] Out 0713z S2		Malc, RNGB	SAT
	0710z	09/08 [497/00]		RNGB	SUN
	0710z	15/08 [490/00] Out 0713z S2		Malc	SAT
	0710z	22/08 [492/38 65990 71691 62763 61922 86611 50516 62802 80583.....35230 55883]		RNGB	SAT
	0710z	23/08 [492/38 65990.....etc] Repeat of Saturday		RNGB	SUN
6849kHz	0435z	15/07 [355/36 76172.....etc]		HfD	FRI
	0435z	21/08 [350/00]		HfD	FRI
6923kHz	0930z	01/07 [276/00] Out 0933z S2		Malc	WED
	0930z	02/07 [273/00] Out 0933z S2		Malc	THU
	0930z	08/07 [279/00] Out 0933z S2		Malc, RNGB	WED
	0930z	15/07 [271/34 44611.....31321] Out 0940z S4	(Dutch SDR)	Malc	WED
	0930z	16/07 [271/34 44611.....etc] Repeat of Wednesday		Malc	THU
	0930z	22/07 [278/00] Out 0933z S4	(Dutch SDR)	Malc	WED
	0930z	23/07 [278/00]		RNGB	THU
	0930z	29/07 [275/00] Out 0933z S2		Malc	WED
	0930z	30/07 [279/00]		RNGB	THU
	0930z	05/08 [278/00] Out 0933z S2		Malc	WED
	0930z	06/08 [277/00] Out 0933z S3	(Dutch SDR)	Malc, RNGB	THU
	0930z	12/08 [276/00] Out 0933z S2		Malc	WED
	0930z	13/08 [279/00] Out 0933z S2		Malc	THU
	0930z	20/08 [273/00] Out 0933z S2		Malc, RNGB	THU
	0930z	27/08 [271/31 55851 48497 39246 54410 99204 47113 31301 13687.....88966 92561]		RNGB	THU
	7449kHz	0900z	01/07 [533/00] Out 0903z S2	(Dutch SDR)	Malc
0900z		06/07 [537/32 96089.....74830] Out 0940z S2		Malc	MON
0900z		08/07 [537/32 96089 75969 15881 53325 20255 12876 88355.....80576 74830] Out 0910z S2		RNGB, Malc	WED
0900z		13/07 [530/00] Out 0903z S2		Malc	MON
0900z		15/07 [538/00] Out 0903z S4	(Dutch SDR)	Malc, E	WED
0900z		22/07 [532/00] Out 0903z S3	(Dutch SDR)	Malc	WED
0900z		27/07 [530/00] Out 0903z S2		Malc	MON
0900z		29/07 [530/00] Out 0903z S2		Malc	WED
0900z		03/08 [530/32 32936.....70360] Out 0910z S2		Malc	MON
0900z		05/08 [530/32 32936.....etc] Out 0910z S2		Malc	WED
0900z		10/08 [539/44 86755.....73838] Out 0912z S3	(Dutch SDR)	Malc	MON
0900z		12/08 [531/44 86755.....etc] Repeat of Monday		Malc	WED
0900z		17/08 [537/00] Out 0903z S2		Malc, RNGB	MON
0900z		19/08 [532/00]		RNGB	WED
0900z	31/08 [535/00] Out 0903z S3	(Dutch SDR)	Malc	MON	
7469kHz	0450z	20/07 [414/00]		HfD	MON
	0450z	10/08 [412/00]		HfD	MON
7600kHz	1900z	02/07 [648/00] Out 1903z S6		Malc	THU
	1900z	06/07 [649/31 19919..... 61921] Out 1910z S3		Malc	MON
	1900z	09/07 [649/31 19919 78330 02650 64618 38895 34574 40291 17387.....55337 61921]		RNGB	THU
	1900z	13/07 [648/00] Out 1903z S3		Malc	MON
	1900z	16/07 [641/00] Out 1903z S5		Malc	THU
	1900z	20/07 [640/00] Out 1903z S3		Malc	MON
	1900z	23/07 [643/00] Out 1903z S3		Malc	THU
	1900z	27/07 [648/00] Out 1903z S3		Malc	MON
	1900z	30/07 [641/00] Out 1903z S3		Malc	THU
	1900z	03/08 [644/00] Out 1903z S3		Malc	MON
	1900z	06/08 [647/00] Out 1903z S3		Malc	THU
	1900z	10/08 [641/00] Out 1903z S4		Malc	MON
	1900z	13/08 [648/00] Out 1903z S5		Malc	THU
	1900z	17/08 [643/00] Out 1903z S5		Malc	MON
	1900z	20/08 [648/00] Out 1903z S3		Malc	THU
	1900z	27/08 [649/34 13765.....75317] Out 1910z S3		Malc	THU
	1900z	31/08 [643/00] Out 1903z S4		Malc	MON
	7863kHz	1625z	01/07 [974/00] Out 1628z S3		Malc, RNGB
1625z		05/07 [975/00] Out 1628z S3		Malc	SUN
1625z		08/07 [974/34 91750.....37546] Out 1635z S3		Malc	WED
1625z		19/07 [975/00] Out 1628z S3		Malc	SUN
1625z		22/07 [976/00] Out 1628z S3		Malc	WED
1625z		26/07 [974/00] Out 1625z S3		Malc	SUN
1625z		29/07 [976/00] Out 1628z S2		Malc	WED
1625z		02/08 [972/00] Out 1628z S3		Malc	SUN
1625z		04/08 [978/00]		RNGB	WED
1625z		09/08 [975/00] Out 1628z S2		Malc	SUN
1625z		12/08 [970/00] Out 1628z S3		Malc	WED
1625z		16/08 [974/00] Out 1828z S3		Malc	SUN
1625z		19/08 [977/33 20574 74897 20644 97183 30835 13520 72107 50846.....41516 16406]		RNGB	WED



	1625z	23/08 [977/33 20574.....etc]	Repeat of Wednesday		Malc	SUN
	1625z	30/08 [976/00]	Out 1628z S5		Malc	SUN
8088kHz	1730z	02/07 [410/00]	Out 1733z S2+QRM		Malc	THU
	1730z	16/07 [410/00]	Out 1733z S6		Malc	THU
	1730z	23/07 [418/00]	Out 1733z S5		Malc	THU
	1730z	06/08 [424/00]	Out 1733z S3		Malc	THU
	1730z	13/08 [415/00]	Out 1733z S2		Malc	THU
	1730z	20/08 [412/38 85390.....71955]	Out 1741z S3		Malc	THU
	1730z	27/08 [414/00]	Out 1733z S5 (Dutch SDR)		Malc	THU
8180kHz	1000z	03/07 [486/00]	Out 1003z S3		Malc	FRI
	1000z	07/07 [304/30 71673.....59152]	Out 1009z S2		Malc	TUE
	1000z	10/07 [304/30 71673.....etc]	Repeat of Tuesday		Malc	FRI
	1000z	14/07 [300/00]	Out 1003z S3 (Dutch SDR)		Malc	TUE
	1000z	17/07 [307/00]	Out 1003z S2		Malc	FRI
	1000z	21/07 [307/00]	Out 1003z S2		Malc, RNGB	TUE
	1000z	24/07 [302/00]	Out 1003z S2		Malc	FRI
	1000z	28/07 [307/00]	Out 1003z S2		Malc	TUE
	1000z	04/08 [308/26 60350 31075 67308 94416 30906 73469 96271.....80216 66732]	Out 1008z S3		RNGB, Malc	TUE
	1000z	07/08 [308/26 60350.....etc]	Repeat of Tuesday		Malc	FRI
	1000z	11/08 [309/00]	Out 1003z S2		Malc	TUE
	1000z	14/08 [308/00]	Out 1003z S3		Malc	FRI
	1000z	18/08 [304/00]	Out 1003z S3		Malc	TUE
	1000z	21/08 [307/00]	Out 1003z S3		Malc	FRI
	1000z	25/08 [302/00]	Out 1003z S2		Malc	TUE
	1000z	28/08 [306/00]	Out 1003z S3		Malc	FRI
8545kHz	1045z	01/07 [698/00]	Out 1048z S2		Malc	WED
	1045z	06/07 [698/33 02562.....04169]	Out 1055z S4 (Dutch SDR)		Malc	MON
	0845z	08/07 [698/33 02562.....etc]	Repeat of Monday		Malc	WED
	1045z	13/07 [697/00]	Out 1048z S2		Malc	MON
	1045z	15/07 [697/00]	Out 1048z S2		Malc	WED
	1045z	20/07 [692/00]	Out 1048z S2		Malc	MON
	1045z	22/07 [698/00]	Out 1048z S7 (Dutch SDR)		Malc	WED
	1045z	27/07 [693/00]	Out 1048z S2		Malc	MON
	1045z	29/07 [697/00]	Out 1048z S2		Malc	WED
	1045z	03/08 [697/00]	Out 1048z S2		Malc	MON
	1045z	05/08 [697/00]	Out 1048z S2		Malc	WED
	1045z	10/08 [691/00]	Out 1048z S3		Malc	MON
	1045z	12/08 [692/00]	Out 1048z S3		Malc	WED
	1045z	17/08 [697/31 75650.....75269]	Out 1054z S2		Malc	MON
	1045z	31/08 [697/00]	Out 1048z S3		Malc	MON
8565kHz	0315z	15/07 [251/32 44528.....etc]			HfD	WED
	0315z	26/08 [255/00]			HfD	WED
8680kHz	0700z	03/07 [570/00]	Out 0703z S2		Malc	FRI
	0700z	07/07 [571/00]	Out 0703z S2		Malc	TUE
	0700z	10/07 [571/00]	Out 0703z S2		Malc	FRI
	0700z	14/07 [576/00]	Out 0703z S2		Malc, RNGB	TUE
	0700z	17/07 [571/00]	Out 0703z S4		Malc	FRI
	0700z	21/07 [577/32 00607.....88630]	Out 0710z S2		Malc	TUE
	0700z	24/07 [577/32 00607.....etc]	Repeat of Tuesday		Malc	FRI
	0700z	28/07 [579/00]	Out 0703z S2		Malc	TUE
	0700z	31/07 [573/00]	Out 0703z S3		Malc	FRI
	0700z	04/08 [570/00]	Out 0703z S2		Malc, RNGB	TUE
	0700z	07/08 [575/00]	Out 0703z S2		Malc	FRI
	0700z	11/08 [571/00]	Out 0703z S3		Malc, RNGB	TUE
	0700z	14/08 [570/00]	Out 0703z S2		Malc, RNGB	FRI
	0700z	18/08 [570/36 11639 90231 56801 90024 69596 31324 12652.....84039 17389]	Out 1710z S5		RNGB, Malc	TUE
	0700z	21/08 [570/36 11639.....etc]	Repeat of Tuesday		Malc	FRI
	0700z	25/08 [574/00]	Out 0703z S2		Malc	TUE
	0700z	28/08 [573/00]	Out 0703z S2		Malc, RNGB	FRI
9610kHz	1910z	03/07 [612/00]	Out 1913z S2 +S9 QRM		Malc	FRI
	1910z	05/07 [610/00]	Out 1913z S4 +S8 QRM		Malc	SUN
	0745z	06/07 [260/00]	Out 0748z S3		Malc	MON
	0745z	13/07 [261/00]	Out 0748z S2		Malc, RNGB	MON
	1910z	19/07 [612/00]	Out 1913z S3+QRM		Malc	SUN
	0745z	20/07 [266/00]	Out 0748z S3		Malc	MON
	1910z	24/07 [611/00]	Out 1913z S6+QRM		Malc	FRI
	1910z	26/07 [616/00]	Out 1913z S9+QRM		Malc	SUN
	0745z	27/07 [261/31 54577 46854 99709 40131 75761 36825 85874.....00108 40960]	Out 0754z S3		RNGB, Malc	MON
	1910z	31/07 [616/00]	Out 1913z S7+QRM		Malc	FRI
	1910z	02/08 [618/00]	Out 1913z S9+QRM		Malc	SUN
	0745z	03/08 [266/00]	Out 0748z S2		Malc	MON
	1910z	07/08 [610/35 93436.....24701]	Out 1920z S6+QRM		Malc	FRI
	1910z	09/08 [610/35 93436.....etc]	Repeat of Friday		Malc	SUN
	0745z	10/08 [261/38 42972 86836 11942 05807 87199 93890 67577 03516.....29331 67798]	Out 0755z		RNGB, Malc	MON
	1910z	14/08 [618/00]	Out 1913z S4+QRM		Malc	FRI
	1910z	16/08 [611/00]	Out 1913z S9		Malc	SUN
	0745z	17/08 [267/00]	Out 0748z S3		Malc	MON

	1910z	21/08 [616/00] Out 1913z S4+QRM	Malc, RNGB	FRI
	1910z	23/08 [612/00] Out 1913z S6+QRM	Malc	SUN
	1910z	28/08 [617/00] Out 1913z S3+QRM	Malc	FRI
	0745z	31/08 [260/00] Out 0748z S9	Malc	MON
10356kHz	1530z	02/07 [262/00] Out 1533z S3	Malc	THU
	1530z	16/07 [266/00] Out 1533z S9	Malc	THU
	1530z	23/07 [268/00] Out 1533z S6	Malc	THU
	1530z	06/08 [269/00] Out 1533z S5	Malc	THU
	1530z	13/08 [261/35 42972.....57798] Out 1541z S6	Malc	THU
	1530z	27/08 [262/00] Out 1533z S3	Malc, Gary H	THU
10429kHz	0715z	03/07 [635/00] Out 0718z S4	Malc	FRI
	0715z	07/07 [635/38 06000.....98070] Out 0725z S3	Malc	TUE
	0715z	10/07 [635/38 06000.....etc] Repeat of Tuesday	Malc	FRI
	0715z	14/07 [636/00] Out 0718z S2	Malc	TUE
	0715z	17/07 [635/00] Out 0718z S3	Malc	FRI
	0715z	21/07 [633/00] Out 0718z S2	Malc, RNGB	TUE
	0715z	24/07 [639/00] Out 0718z S2	Malc	FRI
	0715z	28/07 [630/00] Out 0718z S4	Malc	TUE
	0715z	31/07 [632/49 37700.....83852] Out 0728z S3	Malc	FRI
	0715z	04/08 [632/49 37700 45722 71152 25061 09750 13713 59589 74389 .....37072 83852]	RNGB	TUE
	0715z	07/08 [634/00] Out 0718z S3	Malc	FRI
	0715z	11/08 [639/00] Out 0718z S3	Malc, RNGB	TUE
	0715z	14/08 [635/00] Out 0718z S3	Malc, RNGB	FRI
	0715z	18/08 [633/36 80648.....93878] Out 0725z S2	Malc	TUE
	0715z	21/08 [633/36 80648.....etc] Repeat of Tuesday	Malc	FRI
	0715z	25/08 [639/00] Out 0718z S4	Malc	TUE
	0715z	28/08 [637/00] Out 0718z S2	Malc, RNGB	FRI
12153kHz	0845z	02/07 [152/00] Out 0848z S5 (Dutch SDR)	Malc	THU
	0845z	07/07 [157/36 72185 75114 61785 16287 21979 35261 64451.....58055 89793] Out 0855z S3	RNGB, Malc	TUE
	0845z	14/07 [154/00] Out 0848z S2	Malc	TUE
	0845z	21/07 [157/00] Out 0848z S2	Malc, RNGB	TUE
	0845z	23/07 [152/00] Out 0848z S4	Malc	THU
	0845z	28/07 [154/00] Out 0848z S3	Malc	TUE
	0845z	04/08 [157/00] Out 0848z S3	Malc, RNGB	TUE
	0845z	06/08 [155/00]	RNGB	THU
	0845z	11/08 [155/34 54930.....74803] Out 0855z S3	Malc	TUE
	0845z	13/08 [155/34 54930.....etc] Repeat of Tuesday	Malc	THU
	0845z	18/08 [151/00] Out 0848z S3	Malc	TUE
	0845z	20/08 [152/00] Out 0848z S3	Malc	THU
	0845z	25/08 [151/00] Out 0848z S3	Malc, RNGB	TUE
	0845z	27/08 [157/00] Out 0848z S5	Malc, RNGB	THU
12202kHz	0830z	03/07 [183/00] Out 0833z S3	Malc	FRI
	0830z	06/07 [181/37 94411.....24244] Out 0840z S4 QSB2	Malc	MON
	0830z	10/07 [181/37 failed TX]	Malc	FRI
	0830z	13/07 [184/00] Out 0833z S2	Malc	MON
	0830z	17/07 [180/00] Out 0833z S4	Malc	FRI
	0830z	20/07 [180/00] Out 0833z S5	Malc	MON
	0830z	24/07 [189/00] Out 0833z S3	Malc	FRI
	0830z	27/07 [188/00] Out 0833z S5	Malc	MON
	0830z	31/07 [188/00] Out 0833z S3	Malc	FRI
	0830z	03/08 [182/00] Out 0833z S4	Malc	MON
	0830z	07/08 [180/00] Out 0933z S3	Malc	FRI
	0830z	10/08 [185/00] Out 0833z S3	Malc	MON
	0830z	14/08 [180/00] Out 0833z S3	Malc, RNGB	FRI
	0830z	17/08 [180/40 79302.....35309] Out 0841z S4	Malc	MON
	0830z	21/08 [180/40 79302.....etc] Repeat of Monday	Malc	FRI
	0830z	28/08 [185/00] Out 0833z S2	Malc, RNGB	FRI
	0830z	31/08 [188/00] Out 0833z S3	Malc	MON
12229kHz	1650z	03/07 [920/34 85989.....83902] Out 1700z S3	Malc	FRI
	1650z	05/07 [920/34 85989.....etc] Repeat of Friday	Malc	SUN
	1650z	10/07 [921/00] Out 1653z S5 (Dutch SDR)	Malc	FRI
	1650z	17/07 [924/00] Out 1653z S4	Malc	FRI
	1650z	19/07 [922/00] Out 1653z S3	Malc	SUN
	1650z	24/07 [920/00] Out 1653z S2 (Dutch SDR)	Malc	FRI
	1650z	26/07 [929/00] Out 1653z S4	Malc	SUN
	1650z	31/07 [927/00] Out 1653z S3	Malc	FRI
	1650z	02/08 [929/00] Out 1653z S3	Malc	SUN
	1650z	07/08 [920/00] Out 1653z S3	Malc	FRI
	1650z	09/08 [925/00] Out 1653z S3	Malc	SUN
	1650z	14/08 [921/00] Out 1653z S5	Malc	FRI
	1650z	16/08 [929/00] Out 1653z S3	Malc	SUN
	1650z	21/08 [925/00] Out 1653z S3	Malc	FRI
	1650z	23/08 [921/00]	RNGB, Malc	SUN
	1650z	28/08 [929/31 33708.....17074] Out 1659z S2 (Dutch SDR)	Malc	FRI
	1650z	30/08 [929/31 33708.....17074] Out 1700z S2	Malc	SUN
12984kHz	1345z	04/07 [911/00] Out 1348z S3	Malc	SAT

1345z	07/07	[911/37 49424..... to faded away weak to copy]	Malc	TUE
1345z	11/07	[911/37 49424..... 24700] Out 1356z S2	Malc	SAT
1345z	21/07	[917/00] Out 1348z S3	Malc	TUE
1345z	25/07	[911/00] Out 1348z S2	Malc	SAT
1345z	28/07	[914/00] Out 1348z S3	Malc	TUE
1345z	01/08	[914/00] Out 1348z S3	Malc	SAT
1345z	04/08	[910/00] Out 1348z S2	Malc	TUE
1345z	08/08	[910/00] Out 1348z S2	Malc	SAT
1345z	11/08	[917/30 04852.....95964] Out 1354z S2	Malc	TUE
1345z	15/08	[917/30 04852.....etc] Repeat of Tuesday	Malc	SAT
1345z	22/08	[912/00] Out 1348z S3	Malc	SAT
1345z	25/08	[917/00] Out 1348z S3	Malc	TUE
1345z	29/08	[914/00] Out 1348z S3	Malc	SAT
13424kHz	0645z	02/07 [512/00] Out 0648z S4	Malc, RNGB	THU
	0645z	07/07 [518/00] Out 0648z S5	Malc	TUE
	0645z	14/07 [518/00] Out 0648z S3	Malc	TUE
	0645z	16/07 [511/00] Out 0648z S4	Malc	THU
	0645z	21/07 [519/00] Out 0648z S3	Malc, RNGB	TUE
	0645z	23/07 [517/00] Out 0648z S4	Malc	THU
	0645z	28/07 [510/31 11498 88529 61361 06527 10310 04091 34901.....34258 13920] Out 0655z S7	RNGB, Malc	TUE
	0645z	04/08 [518/33 12824.....47889] Out 0655z S7	Malc	TUE
	0645z	06/08 [518/33 12824 90471 82340 13630 86708 61452 77781 55389.....92714 47889]	RNGB, Malc	THU
	0645z	11/08 [518/00] Out 0648z S2	Malc	TUE
	0645z	13/08 [511/00] Out 0648z S2	Malc	THU
	0645z	18/08 [511/00] Out 0648z S5	Malc, RNGB	TUE
	0645z	20/08 [515/00] Out 0648z S5	Malc, RNGB	WED
	0645z	25/08 [514/00] Out 0648z S2	Malc	TUE
	0645z	27/08 [514/00] Out 0648z S4	Malc, RNGB	THU
14410kHz	1745z	05/07 [244/00] Out 1748z S4	Malc	SUN
	1745z	06/07 [249/00] Out 1648z S5	Malc	MON
	1745z	13/07 [244/00] Out 1748z S3	Malc	MON
	1745z	20/07 [249/34 42108.....66158] Out 1756z S2	Malc	MON
	1745z	27/07 [245/00] Out 1748z S3	Malc	MON
	1745z	26/07 [249/34 42108.....66158] Out 1755z S2 (Dutch SDR)	Malc	SUN
	1745z	02/08 [248/00] Out 1748z S5	Malc	SUN
	1745z	03/08 [248/00] Out 1748z S3	Malc	MON
	1745z	10/08 [249/33 10041.....37249] Out 1748z S4	Malc	MON
	1745z	16/08 [249/33 10041.....etc] Repeat of Monday	Malc	SUN
	1745z	17/08 [247/00] Out 1748z S3	Malc	MON
	1745z	23/08 [248/00] Out 1748z S3	Malc	SUN
	1745z	30/08 [247/00] Out 1748z S2	Malc	SUN
	1745z	31/08 [242/00] Out 1748z S6	Malc	MON
14575kHz	1645z	02/07 [334/00] Out 1648z S3	Malc	THU
	1645z	14/07 [331/39 30741.....28584] Out 1656z S3 QSB2	Malc	TUE
	1645z	21/07 [330/00] Out 1648z S2	Malc	TUE
	1645z	23/07 [338/00] Out 1648z S5	Malc	THU
	1645z	28/07 [337/00] Out 1648z S4 QSB2	Malc	TUE
	1645z	04/08 [331/00] Out 1648z S3	Malc	TUE
	1645z	06/08 [331/00] Out 1648z S3	Malc	THU
	1645z	11/08 [337/00] Out 1648z S3	Malc	TUE
	1645z	13/08 [335/00] Out 1648z S3	Malc	THU
	1645z	18/08 [332/00] Out 1648z S2	Malc	TUE
	1645z	20/08 [338/00] Out 1648z S2	Malc	THU
	1645z	25/08 [338/39 25654.....80824] Out 1656z S2	Malc	TUE
14940kHz	0745z	02/07 [224/00] Out 0748z S3	Malc	THU
	0745z	07/07 [227/00]	RNGB, Malc	TUE
	0745z	14/07 [220/00] Out 0748z S2	Malc	TUE
	0745z	16/07 [225/00] Out 0748z S2	RNGB, Malc	THU
	0745z	21/07 [225/36 53743 53729 36474 32054 72441 67552.....14579 09294] Out 0756z S4	RNGB, Malc	TUE
	0745z	23/07 [225/36 53743.....etc] repeat of Tuesday	Malc	THU
	0745z	28/07 [227/00] Out 0748z S5	Malc, RNGB	TUE
	0745z	30/07 [227/00] Out 0748z S3	Malc, RNGB	THU
	0745z	04/08 [228/00] Out 0748z S5	Malc	TUE
	0745z	06/08 [229/00] Out 0748z S3	Malc, RNGB	THU
	0745z	11/08 [227/00] Out 0748z S3	Malc	TUE
	0745z	13/08 [229/00] Out 0848z S3	Malc	THU
	0745z	18/08 [227/39 54456 12064 27268 01412 82214 24247 40688 07533.....21475] Out 0756z S6	RNGB, Malc	TUE
	0745z	20/08 [227/39 54456.....etc] Repeat of Tuesday	Malc	THU
	0745z	25/08 [220/00] Out 0748z S4	Malc, RNGB	TUE
	0745z	27/08 [229/00] Out 0748z S5	Malc, RNGB	THU
15720kHz	0745z	01/07 [347/00] Out 0748z S4	Malc, RNGB	WED
	0745z	03/07 [346/00] Out 0748z S4	Malc	FRI
	0745z	08/07 [342/00]	RNGB	WED
	0745z	10/07 [340/00] Out 0748z S5	Malc	FRI
	0745z	15/07 [346/00] Out 0748z S2	Malc	WED
	0745z	17/07 [340/00] Out 0748z S3	Malc	FRI
	0745z	22/07 [343/00] Out 0748z S9 QSB7	Malc	WED

0745z	24/07 [340/00] Out 0748z S3	Malc	FRI
0745z	29/07 [347/33 59192.....14389] Out 0755z S4	Malc	WED
0745z	31/07 [347/33 59192.....etc] Repeat of Wednesday	Malc	FRI
0745z	05/08 [344/00] Out 0748z S3	Malc	WED
0745z	07/08 [344/00] Out 0748z S3	Malc, RNGB	FRI
0745z	12/08 [342/00] Out 0748z S3	Malc	WED
0745z	14/08 [349/00] Out 0748z S3	Malc, RNGB	FRI
0745z	19/08 [343/34 30405 13606 52712 55702 14360 43436.....07167 97716]	RNGB	WED
0745z	21/08 [343/34 30405.....97716] Out 0755z S3	Malc	FRI
0745z	28/08 [349/00] Out 0748z S4	Malc	FRI
15800kHz	0640z 01/07 [942/00] Out 0643z S4	Malc	WED
	0640z 06/07 [940/00] Out 0643z S9	Malc	MON
	0640z 13/07 [946/32 59786 11453 81020 99253 97415 70016 58534 87059 77126 42170] Out 0649z S3	RNGB, Malc	MON
	0640z 20/07 [944/00] Out 0643z S3	Malc, RNGB	MON
	0640z 22/07 [949/00] Out 0643z S8	Malc	WED
	0640z 27/07 [941/00] Out 0643z S2	Malc	MON
	0640z 29/07 [945/00] Out 0643z S4	Malc, RNGB	WED
	0640z 03/08 [945/00]	RNGB	MON
	0640z 05/08 [949/00] Out 0643z S5 QSB4	Malc	WED
	0640z 10/08 [949/00] Out 0643z S2+QRM	Malc	MON
	0640z 17/08 [946/31 37285 73519 49426 17312 27815 02667 46148 92184.....85990 88009]	RNGB	MON
	0640z 19/08 [946/31 37285.....etc] Repeat of Monday	RNGB	WED
	0640z 31/08 [944/00] Out 0643z S5	Malc	MON
17378kHz	0820z 01/07 [132/00] Out 0823z S3	Malc, RNGB	WED
	0820z 07/07 [134/35 21331 31516 31137 96229 81869 62972 29552.....19881 04028] Out 0831z S4	RNGB, Malc	TUE
	0820z 08/07 [134/35 21331.....etc] Repeat of Tuesday	RNGB	WED
	0820z 15/07 [130/00] Out 0823z S2	Malc	WED
	0820z 21/07 [131/00] Out 0823z S3	Malc	TUE
	0820z 22/07 [136/00] Out 0823z S6	Malc	WED
	0820z 28/07 [130/00] Out 0823z S4	Malc	TUE
	0820z 29/07 [130/00] Out 0823z S3 QSB2	Malc	WED
	0820z 04/08 [134/00] Out 0823z S3	Malc, RNGB	TUE
	0820z 05/08 [134/00] Out 0823z S2	Malc, RNGB	WED
	0820z 11/08 [130/00] Out 0823z S3	Malc	TUE
	0820z 12/08 [135/00] Out 0823z S2	Malc	WED
	0820z 18/08 [138/00] Out 0823z S2	Malc	TUE
	0820z 19/08 [130/00]	RNGB	WED
	0820z 25/08 [13?/32 42267 63315 84765 22532 34918 36314 82234 63842,,,,,22100 50439]	RNGB	TUE

## E17z

### Thursday

#### July 2020

0800z	16780kHz	0810z	12850kHz	
02/07	217 948 5 18430 37111 31716 74483 43472 948 5 00000			Weak, Dutch SDR
09/07	217 948 5 18430 37111 31716 74483 43472 948 5 00000		[0810z Dutch SDR]	Weak
23/07	217 530 6 99623 56098 43099 74537 57440 10597 530 6 00000			Weak
30/07	217 00000			Weak, Dutch SDR

#### August 2020

0800z	16780kHz	0810z	12850kHz	[Best heard in narrow AM]	
06/08	217 468 5 75115 92918 97067 58604 11171 4698 5 00000				Weak, Dutch SDR
13/08	217 468 5 75155 93918 97067 58604 11171 468 5 00000			[0800z Dutch SDR]	Weak
27/08	217 950 6 91943 58766 40970 45633 45150 77659 950 6 00000				Weak

# G06

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

9-July-20:- 6887 kHz, calling "842", DK/GC "329 329 42 42", start-up time purely nominal with these Thursday and Friday schedules, into 5fs around 1832z.

23-July-20:- 6887 kHz, call "842", weak signal, difficult copy, DK/GC sounded like, "682 682 45 45".

27-Aug-20:- 6887 kHz, voice started at 1827:25s UTC, heard the very beginning for once, call "842", DK/GC "458 458 45 45", reasonable signal for a change. Ended around 1839 UTC, computer shut-down sound heard shortly after.

## Friday 1930 UTC Schedule Following Second + fourth Thursdays:-

24-July-20:- 5933 kHz, weak signal – these schedules together with the related E06 transmissions have become much weaker recently, difficult copy, sank into noise.

14-Aug-20:- 5936 kHz, call "218", DK/GC "272 272 42 42", weak.

28-Aug-20:- 5935 kHz, "218", DK/GC "458 458 45 45", same as on the previous day, found in progress with call routine at 1929z approx, reasonable copy with the RX in USB mode.

## Others' comparative logs

### July 2020

#### Thursday

##### **1830z 6887kHz**

09/07	842 329 42 75325 ... 95685 329 42 00000	Weak
23/07	842 682 45 55478 ... 24110 682 45 00000	Weak

#### August 2020

13/08	842 270 42 63322 (no full msg due static) to 67798 270 42 00000	[Start 1828z] QRN5	Weak
27/08	842 458 45 32658 ... 38457 458 45 00000		Weak

#### Friday

### July 2020

##### **1930z 5951kHz**

10/07	218 329 42 75325 ... 95685 329 42 00000	Weak
24/07	NRH	

#### August 2020

##### **1929z 5935kHz**

28/08	218 458 45 32658 ... 38457 458 45 00000	Weak
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# S06

## S06 log July 2020

### Thursdays

	<b>0830z</b>	<b>15615kHz</b>	<b>0930z</b>	<b>13469kHz</b>
02/07	'842' 957 33 77337 74752 13204 97914 86600 94970 82930 85348 95798 91230 66280 65738 83048 89449 44462 78310 85386 54270 13032 37544 33670 07346 92045 77666 43837 27353 44893 40611 25438 36445 29275 24624 93403 957 33 00000			
16/07	'842' 937 – to weak to copy			
23/07	'842' 605 41 95549 94361 59690 26005 97556 88322 97855 02264 24279 40391 07008 74810 34519 96987 56350 50087 37609 65405 60440 66384 27518 03055 19199 62634 70559 74784 98249 48863 01409 51702 16778 14240 07108 49938 35102 33667 03736 32789 59130 58834 35460 605 41 00000			
30/07	'842' 709 31 80361 58344 66088 74748 96663 68976 17486 86086 41035 08818 04553 50465 56870 01357 52325 06022 74677 73231 39476 48545 60485 65014 95994 38597 45209 46783 24784 28268 52158 24413 76875 709 31 00000			



**Fridays (1st & 3rd)**                              **2000z**    **9336khz**                              **2100z**    **7315kHz**  
03/07    '452' 00000  
17/07    '452' 00000

**S06c**  
02/07    0700z    14617 kHz            '11144' (Via SDR South Korea)            Thanks Daniel

**S06s July log:**

**Monday**

6th/13th                    0630/0640z            16320/14875            '462' 801 5 46692 63031 96502 00040 35152  
20th/27th                    0630/0640z            16320/14875            '462' 513 5 11171 22536 88280 84116 53718 42227 59354  
6th/13th                    0830/0840z            8221/9353              '764' 932 5 18283 10094 73140 16277 43912  
20th/27th                    0830/0840z            8221/9353              '764' 213 5 65906 66610 20336 17301 88554  
6th/13th                    0900/0910z            16380/14835            '232' 916 5 24236 84028 82278 06280 25826  
20th/27th                    0900/0910z            16380/14835            '232' 406 5 33796 13577 74526 46647 53516  
6th/13th                    1200/1210z            10230/12165            '149' 863 5 91943 58456 74439 59317 44671  
20th/27th                    1200/1210z            10230/12165            '149' 253 6 79302 53516 25616 56069 96813 14199

**Tuesday**

7th/14th                    0600/0610z            15945/16945            '438' 207 5 02157 00560 93197 23536 35708  
21st/28th                    0600/0610z            15945/16945            '438' 597 6 24035 48115 24151 50802 23807 15521  
7th/14th                    0700/0710z            5430/6780              '452' 879 6 24541 33941 56823 43884 84418 25628  
21st/28th                    0700/0710z            5430/6780              '452' 830 6 52401 63919 92699 14600 74248 48754  
7th/14th                    0730/0740z            7365/11655              '427' 581 6 65959 20802 83773 48081 14477 24010  
21st/28th                    0730/0740z            7365/11655              '427' 901 5 46062 69572 39695 30485 96632  
7th/14th                    0800/0810z            14373/12935            '127' 985 6 97620 41120 15138 62182 66491 08125  
21st/28th                    0800/0810z            14373/12935            '127' 406 5 09564 21347 00774 3462 26578  
7th/14th                    1000/1010z            4820/5660              '427' 953 6 94160 32889 65151 46055 12124 50531  
21st/28th                    1000/1010z            4820/5660              '427' 936 5 33796 13577 74526 46647 53516  
7th/14th                    1100/1110z            6810/7560              '265' 938 7 80728 16013 91627 20983 48442 92945 76609  
21st/28th                    1100/1110z            6810/7560              '265' 891 7 00943 21569 56674 23465 00771 63372 77755  
7th/14th                    1500/1510z            6766/7744              '914' 235 6 96529 62487 57272 77315 17565 35820  
21st/28th                    1500/1510z            6766/7744              '914' 276 5 88620 58069 61732 74537 57330

**Wednesday**

1st/8th                    0730/0740z            11530/14977            '172' 406 5 92440 79290 86352 67315 22202  
15th/22nd                    0730/0740z            11530/14977            '172' 986 5 88569 89617 25757 77159 95225  
1st/8th                    0830/0840z            11565/12560            '464' 217 5 91943 06309 03380 31978 71641  
15th/22nd                    0830/0840z            11565/12560            '464' 827 5 67906 66610 20336 17301 88554  
1st/8th                    1000/1010z            14580/16020            '276' 418 5 53318 04477 76580 83166 43078  
15th/22nd                    1000/1010z            14580/16020            '276' 983 5 40614 77249 40678 17976 21816

**Thursday**

2nd/9th (E17z)    0800/0810z            16780/12850            '217' 948 5 18430 37111 31716 74483 43472  
16th/23rd                    0800/0810z            16780/12850            '217' 530 6 99623 56098 43099 74537 57440 10597  
2nd/9th                    0930/0940z            9255/10325            '698' 217 5 52989 47624 28885 30877 90463  
16th/23rd                    0930/0940z            9255/10325            '698' 271 5 11171 64385 82707 05123 22536  
2nd/9th                    1200/1210z            13145/14535            '175' 420 6 47463 51387 33375 05064 88562 35413  
16th/23rd                    1200/1210z            13145/14535            '175' 943 6 97067 58604 41438 03092 68362 25910

**Friday**

3rd/10th                    0830/0840z            10290/9655            '156' 843 7 88720 58693 61733 74537 10597 23251 37660  
17th/24th                    0830/0840z            10290/9655            '156' 248 7 43013 98841 00957 46672 09693 43756 33550  
3rd/10th                    0900/0910z            6844/7161              '239' 851 6 30614 77239 40678 16945 80644 25836  
17th/24th                    0900/0910z            6844/7161              '239' 467 5 87345 22190 78854 00932 77755

**Saturday**

4th                    0800/0810z            12460/10250            '132' 950 6 20205 64336 95534 08446 87636 04475

With thanks to Daniel E, RNGB, Malc, Ary, HfD

**S06 log August 2020**

<b>Thursdays</b>	<b>0830z</b>	<b>16327kHz</b>	<b>0930z</b>	<b>13875kHz</b>
06/08	'842' 576 31 11742 18290 59219 73394 59813 34085 63739 65416 75521 33102 73597 50583 90796 06993 82085 45530 14677 05220 32883 25460 82228 73406 80544 70349 04347 96078 72965 21023 66867 85988 66758 576 31 00000			
13/08	'842' 901 32 39509 23601 12261 16626 69000 34694 62783 28795 49017 37590 25972 61616 64213 02490 62572 42522 45265 25440 41073 30239 42239 13874 59161 90815 48434 24592 27383 84672 79404 77625 32199 50629 901 32 00000			
20/08	'842' 567 33 28004 28900 35697 32559 12726 25207 32575 52944 91030 80550 38053 72481 91142 01746 89701 71473 51863 44210 46603 30372 75621 95934 02998 66733 57004 38910 89127 08207 91465 11426 76479 87504 93902 567 33 00000			
27/08	'842' 103 2 11111 00060 103 2 '842' 930 51 72186 55940 20832 54352 84472 58733 28613 97374 95463 69546 44288 95429 42226 76325 95654 02804 47733 26624 58934 67873 65167 17882 53913 27531 43812 95608 78626 99366 83706 95420 63281 70043 71258 89862 48111 03294 13003 25947 14835 15994 09697 64357 26424 95729 37924 56254 54856 58315 31414 18602 01539 930 51 00000			

**Fridays (1st & 3rd)**   **1900z**   **9336khz**   **2000z**   **7315kHz**  
 07/08   '452' 00000  
 21/08   '452' 00000

**S06s August log:**

**Monday**

3rd/10th	0630/0640z	16320/14875	'462' 985 7 47154 25660 69885 96882 30034 19804 96845
17th/24th/31st			'462' 873 5 11169 03439 43548 19152 23063
3rd/10th	0830/0840z	8221/9353	'764' 203 5 08731 58082 36270 08982 27728
17th/24th			'764' 981 5 10002 08973 41716 50801 40123
3rd/10th	0900/0910z	16380/14835	'232' 419 5 11169 03439 43548 19152 23063
17th/24th			'232' 874 5 58755 82541 98376 35685 41713
3rd/10th	1200/1210z	10230/12165	'149' 283 5 07022 32734 34771 48591 47281
17th/24th			'149' 862 5 95693 44707 03156 44395 63319

**Tuesday**

4th/11th	0600/0610z	15945/16945	'438' 591 6 72688 02564 29895 91672 19157 77816
18th/25th			'438' 501 6 12362 84620 80171 58802 49062 16409
4th/11th	0700/0710z	5430/6780	'452' 973 6 10206 60562 37014 35417 12363 74620
18th/25th			'452' 839 6 69856 82541 98423 79033 15452 10002
4th/11th	0730/0740z	7365/11655	'427' 983 5 97998 83168 53368 76413 57441
18th/25th			'427' 916 5 20205 64336 95534 08446 87636
4th/11th	0800/0810z	14373/12935	'127' 943 5 80062 09086 58231 45488 72114
18th/25th			'127' 830 5 73687 04565 39895 91670 29257
4th/11th	1000/1010z	4820/5660	'427' 891 5 91633 59344 65130 70744 89695
18th/25th			'427' 860 5 69816 97314 15802 70076 29427
4th/11th	1100/1110z	6810/7560	'265' 498 7 32492 67007 20851 41418 68722 75292 03596
18th/25th			'265' 814 7 36376 35685 65850 49884 66486 41299 81177
4th/11th	1500/1510z	6766/7744	'914' 587 6 11609 93430 85473 25199 23063 36924
18th/25th			'914' 263 5 96515 16498 21643 84983 61687

**Wednesday**

5th/12th	0730/0740z	11530/14977	'172' 468 5 39534 17228 15636 47891 23247
19th/26th			'172' 960 5 18283 10094 73140 16277 91943
5th/12th	0830/0840z	11565/12560	'464' 201 5 88620 58069 61732 74537 57440
19th/26th			'464' 980 5 45150 54391 35358 51501 57465
5th/12th	1000/1010z	14580/16020	'276' 903 5 40614 77249 40678 17976 21816
19th/26th			'276' 930 5 77659 08587 76869 03428 60211

**Thursday**

6th/13th (E17z)	0800/0810z	16780/12850	'217' 468 5 75155 92918 97067 58604 11171
20th/27th			'217' 950 6 91943 58766 40970 45632 45150 77659
6th/13th	0930/0940z	9255/10325	'698' 471 5 80744 86200 84706 44227 61736
20th/27th			'698' 437 5 56339 03380 86295 35358 76869
6th/13th	1200/1210z	13145/14535	'175' 428 6 92060 11749 70552 56936 57989 05371
20th/27th			'175' 298 6 67859 31987 17473 51501 03428 76522

**Friday**

7th/14th	0830/0840z	10290/9655	'156' 234 7 46062 68672 97478 39685 30485 96632 52537
21st/28th			'156' 832 7 46692 63034 96502 00040 35152 59388 74983
7th/14th	0900/0910z	6844/7161	'239' 841 5 52401 63919 92699 14600 74248
21st/28th			'239' 547 6 91943 58456 74439 59317 44671 77973

**Saturday**

1st	0800/0810z	12460/10250	'132' 406 5 95693 44707 03156 44395 63319
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With thanks to Daniel E, RNGB, Malc, Ary, HfD

From PoSW:

**S06, OM Voice:-**

**First + Third Fridays in the Month Schedule, 2000 + 2100 UTC in July, 1900 + 2000 UTC in August:-**

3-July-20:- 2000 UTC, 9336 kHz, "452 452 452 00000", good signal.  
 2100 UTC, 7315 kHz, second sending, peaking well over S9.

17-July-20:- 2000 UTC, 9336 kHz, "452 452 452 00000", S9 with QSB.  
 2100 UTC, 7315 kHz, strong.

Moved back by one hour in August, not entirely unexpected:-

21-Aug-20:- 1900 UTC, 9336 kHz, "452 452 452 000", good signal.

2000 UTC:- nothing heard on 7315, plus or minus a few kHz, massive DRM type signal

on this frequency, S06 probably underneath, would have been a clear channel if it had not shifted in time and came up at 2100 UTC.

**S06s, YL Voice:-**

**Monday 0830 + 0840 UTC Schedule, Call "764":-**

13-July-20:- 0830 UTC 8221 kHz, DK/GC "932 932 5 5", started off around S7 but became weaker, "18283 10094 73140 16277 43912"  
0840 UTC, 9353 kHz second sending, weak.

27-July-20:- 0830 UTC, 8221 kHz, DK/GC "213 213 5 5", strength S5, "65906 66610 20336 17301 88554".  
0840 UTC, 9353 kHz, weak.

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

7-July-20:- 0730 UTC, 7365 kHz:- very weak signal under stronger broadcast station, unreadable, second sending stronger:-  
0740 UTC, 11655 kHz, DK/GC "581 581 6 6", "65959 20802 83773 48081 14477 24010".

14-July-20:- 0730 UTC, 7365 kHz, same message as on the 7<sup>th</sup>, much stronger signal.  
0740 UTC, 11655 kHz, weak.

21-July-20:- 0730 UTC, 7365 kHz, very weak, unreadable, second sending stronger:-  
0740 UTC, 11655 kHz, DK/GC "901 901 5 5", "46062 69572 39695 30485 96632".

11-Aug-20:- nothing readable at 0730z on 7365, second sending better:-  
0740 UTC, 11655 kHz, DK/GC "983 983 5 5", "97998 83168 53368 76413 57441".

18-Aug-20:- yet again the 0730z on 7365 unreadable due to weak signal under much stronger broadcaster.  
0740 UTC, 11655 kHz, much better, S8 with QSB, DK/GC "916 916 5 5", "20205 64336 95534 08446 87636".

**Wednesday 0730 + 0740 UTC Schedule, Call "172":-**

8-July-20:- 0730 UTC, 11530 kHz, DK/GC "406 406 5 5", "92440 79290 86352 67315 22202", competing with a broadcaster on the same frequency.  
0740 UTC, 14977 kHz, peaking S9 with QSB.

29-July-20:- 0730 UTC, 11530 kHz, the fifth Wednesday in the month so as expected, no message:- "172 172 172 000", the broadcast station strong.  
0739 UTC, 14977 kHz, the expected early start for the second sending of a "no message".

**Friday 0830 + 0840 UTC Schedule, Call "156":-**

24-July-20:- 0830 UTC, 10290 kHz, DK/GC "248 248 7 7", "43014 98841 00957 46672 09693 43756 33550".  
0840 UTC, 9655 kHz second sending, both peaking S8 to S9, both were very weak unreadable on previous Fridays in this month.

7-Aug-20:- 0830 UTC, 10290 kHz, DK/GC "234 234 7 7", S7, "46062 68672 97478 39685  
30485 96632 52537"  
0840 UTC, 9655 kHz, stronger.

21-Aug-20:- 0830 UTC, 10290 kHz, DK/GC "832 832 7 7", unusually strong this morning,  
well over S9, "46692 63034 96502 00040 35152 59388 74983".  
0840 UTC, 9655 kHz, also strong.

**First Saturday in the Month 0800 + 0810 UTC Schedule, Call "132":-**

4-July-20:- 0800 UTC, 12460 kHz, DK/GC "950 950 6 6", fair signal, "20205 64336 95534  
08446 87636 04475".  
0810 UTC, 10250 kHz, weak, sinking into noise.

1-Aug-20:- 0800 UTC, 12460 kHz, DK/GC "406 406 5 5", 95693 44707 03156 44395 63319", peaking S8 with QSB.  
0810 UTC, 10250 kHz, weak.

# **S11a log July/August**

5082kHz	0915z	03/07 [486/00] Konyetz 0918z S2		Malc	FRI
	0915z	06/07 [481/00] Konyetz 0918z S3	(Dutch SDR)	Malc	MON
	0915z	10/07 [486/00] Konyetz 0918z S2		Malc	FRI
	0915z	20/07 [483/00] Konyetz 0918z S2		Malc	MON
	0915z	24/07 [487/00] Konyetz 0918z S3	(Dutch SDR)	Malc	FRI
	0915z	27/07 [480/35 58835.....47777] Konyetz 0926z S3	(Dutch SDR)	Malc	MON
	0915z	31/07 [480/35 58835.....etc] Repeat of Monday		Malc	FRI
	0915z	03/08 [485/00] Konyetz 0918z S1	(Dutch SDR)	Malc	MON
	0915z	07/08 [482/00] Konyetz 0918z S3	(Dutch SDR)	Malc	FRI
	0915z	10/08 [481/00] Konyetz 0918z S3	(Dutch SDR)	Malc	MON
	0915z	14/08 [483/00] Konyetz 0918z S2		Malc	FRI
	0915z	17/08 [481/00] Konyetz 0918z S3	(Dutch SDR)	Malc, RNGB	MON
	0915z	21/08 [483/00] Konyetz 0918z S3	(Dutch SDR)	Malc, RNGB	FRI
	0915z	28/08 [481/36 81145.....53904] Konyetz 0927z S2		Malc	FRI
	0915z	31/08 [484/00] Konyetz 0918z S2		Malc	MON
5149kHz	1135z	01/07 [376/00] Konyetz 1138z S2		Malc	WED
	1135z	03/07 [377/00] Konyetz 1138z S2		Malc	FRI
	1135z	10/07 [377/00] Konyetz 1138z S4	(Dutch SDR)	Malc	FRI
	1135z	15/07 [378/00] Konyetz 1138z S4	(Dutch SDR)	Malc	WED
	1135z	17/07 [376/00] Konyetz 1138z S3	(Dutch SDR)	Malc	FRI
	1135z	24/07 [373/40 83740.....76591] Konyetz 1148z S2	(Dutch SDR)	Malc	FRI
	1135z	29/07 [373/00] Konyetz 1138z S3	(Dutch SDR)	Malc	WED
	1135z	07/08 [370/36 15511.....09774] Konyetz 1147z S3	(Dutch SDR)	Malc	FRI
	1135z	12/08 [377/00] Konyetz 1138z S3	(Dutch SDR)	Malc	WED
	1135z	14/08 [378/00] Konyetz 1138z S2		Malc	FRI
	1135z	28/08 [278/00] Konyetz 1138z S2		Malc	FRI

6977kHz	1020z	03/07 [429/00] Konyetz 1023z S2	Malc	FRI	
	1020z	07/07 [426/37 18688 37281 58737 75397 35544 50322 98215.....83234 02584] Konyetz 1032z	RNGB, Malc	TUE	
	1020z	10/07 [426/37 18688.....etc] Repeat of Tuesday	Malc	FRI	
	1020z	14/07 [426/00] Konyetz 1023z S3	Malc	TUE	
	1020z	17/07 [420/00] Konyetz 1023z S2	Malc	FRI	
	1020z	21/07 [422/00] Konyetz 1023z S2	Malc, RNGB	TUE	
	1020z	24/07 [420/00] Konyetz 1023z S2	Malc	FRI	
	1020z	04/08 [420/00] Konyetz 1023z S2	Malc	TUE	
	1020z	07/08 [422/00] Konyetz 1023z S3 (Dutch SDR)	Malc, RNGB	FRI	
	1020z	11/08 [425/00] Konyetz 1023z S2	Malc	TUE	
	1020z	14/08 [425/00] Konyetz 1023z S2	Malc	FRI	
	1020z	18/08 [427/36 26516.....15701] Konyetz 1032z S2	Malc	TUE	
	1020z	21/08 [427/36 26516.....etc] Repeat of Tuesday	Malc	FRI	
	1020z	25/08 [422/00] Konyetz 1023z S2	Malc, RNGB	TUE	
	1020z	28/08 [420/00] Konyetz 1023z S2	Malc	FRI	
	9339kHz	0700z	02/07 [471/00] Out 0703z S3	Malc, RNGB	THU
		0700z	06/07 [477/37 45836.....56712] Konyetz 0712z S2	Malc	MON
0700z		13/07 [477/00] Konyetz 0703z S2	Malc, RNGB	MON	
0700z		16/07 [479/00] Konyetz 0703z S2	Malc, RNGB	THU	
0700z		20/07 [476/00] Konyetz 0703z S3	Malc	MON	
0700z		23/07 [476/00] Konyetz 0703z S2	Malc, RNGB	THU	
0700z		27/07 [472/00] Konyetz 0703z S5	Malc	MON	
0700z		30/07 [472/00] Konyetz 0703z S2	Malc	THU	
0700z		03/08 [475/39 58682.....02176] Konyetz 0712z S5 (Dutch SDR)	Malc	MON	
0700z		06/08 [475/39 58682 31923 67034 05569 98377 73350 96470 75740.....72153 02176]	RNGB, Malc	THU	
0700z		10/08 [472/00] Konyetz 0703z S3	Malc	MON	
0700z		13/08 [470/00] Konyetz 0703z S4	Malc	THU	
0700z		17/08 [472/00] Konyetz 0703z S2	Malc, RNGB	MON	
0700z		20/08 [478/00] Konyetz 0703z S3	Malc	THU	
0700z		24/08 [478/00]	RNGB	MON	
0700z		27/08 [470/00] Konyetz 0703z S2	Malc, RNGB	THU	
0700z		31/08 [476/00] Konyetz 0703z S4	Malc	MON	
12457kHz	1850z	01/07 [281/00] Konyetz 1853z S3	Malc	WED	
	1850z	04/07 [288/00] Konyetz 1853z S5	Malc	SAT	
	1850z	08/07 [282/40 70082.....08138] Konyetz 1902z S4	Malc	WED	
	1850z	11/07 [282/40 70082.....etc] Repeat of Wednesday	Malc	SAT	
	1850z	22/07 [282/00] Konyetz 1853z S6	Malc	WED	
	1850z	25/07 [281/00] Konyetz 1853z S3	Malc	SAT	
	1850z	29/07 [287/00] Out 1853z S5	Malc	WED	
	1850z	01/08 [288/00] Konyetz 1853z S3	Malc	SAT	
	1850z	05/08 [284/00] Konyetz 1853z S5	Malc	WED	
	1850z	08/08 [282/00] Konyetz 1853z S3	Malc	SAT	
	1850z	12/08 [287/00] Konyetz 1853z S3	Malc	WED	
	1850z	15/08 [280/00] Konyetz 1853z S3	Malc	SAT	
	1850z	22/08 [280/38 25458.....34726] Konyetz 1902z S2	Malc	SAT	
	1850z	29/08 [367/00] Konyetz 1853z S5	Malc	SAT	
13537kHz	0510z	13/07 [655/36 32034 03191 28948 84667 94102 00474 46813 16281.....12381 34083]	RNGB	MON	
	0510z	15/07 [655/36 32034.....etc] Repeat of Monday	HfD	WED	
15720kHz	0715z	01/07 [381/00] Konyetz 0718z S6	Malc	WED	
	0715z	06/07 [383/00] Konyetz 0718z S9 QSB4	Malc	MON	
	0715z	08/07 [387/00] Konyetz 0718z S1	Malc	WED	
	0715z	13/07 [383/31 04954.....28592] Konyetz 0725z S3	Malc	MON	
	0715z	15/07 [383/31 04954.....etc] Repeat of Monday	Malc	WED	
	0715z	20/07 [384/00] Konyetz 0718z S3	Malc	MON	
	0715z	22/07 [383/00] Konyetz 0718z S9	Malc, RNGB	WED	
	0715z	29/07 [383/00] Konyetz 0718z S4	Malc	WED	
	0715z	03/08 [380/00] Konyetz 0718z S3	Malc	MON	
	0715z	05/08 [384/00] Konyetz 0718z S3	Malc, RNGB	WED	
	0715z	10/08 [383/00] Konyetz 0718z S2	Malc	MON	
	0715z	12/08 [385/00] Konyetz 0718z	Malc, RNGB	WED	
	0715z	17/08 [381/35 03929 56120 00466 81789 38374 95629 99730 55304.....95635 17402] S4	RNGB, Malc	MON	
	0715z	31/08 [383/00] Konyetz 0718z S6	Malc	MON	

# V07

Sunday

July 2020

**0300z**    **13521kHz**                    **0320z**    **12121kHz**                    **0340z**    **11421kHz**  
05/07                    514 1 577 68 75013 ... 36162 000 000                    [0300z Only]                    Weak, SweptSignalQRM1 SDR Japan

514 514 514 1  
577 68  
70513 71673 11614 08041 34999  
34328 67444 51093 73338 89105  
70561 54983 14097 76897 95461  
07665 33869 44272 71658 96041  
74599 92124 27135 58440 91570  
38456 78521 56851 09309 26989  
44879 64793 52386 80816 49620  
40939 40251 07857 43681 85554  
23538 58140 55901 01347 37037  
34650 21899 19972 51865 40731  
40647 38866 62463 27902 67158  
20502 65491 17321 08076 95975  
92451 81280 31811 04128 82069  
38310 47138 36162 000 000  
*Courtesy DanAR*

12/07                    514 1 7037 120 72417 ... 00414 000 000                    [0300z only SDR JAPAN]                    Weak, QRM from a swept signal

514 514 514 1  
7037 120  
72417 32659 26468 79421 23133  
10062 54197 88483 14775 66006  
33326 68554 85645 37235 21209  
05436 24314 70586 82223 08761  
56940 44845 94773 27269 92154  
51148 59278 70357 58162 01358  
35941 27219 39244 25286 63893  
79238 60300 56065 03283 11770  
96300 43703 21764 10863 07606  
41649 88503 15412 99411 05097  
99284 40225 48008 32883 24728  
82444 75014 35818 69133 96145  
66756 20776 95356 12059 27326  
82099 06369 41349 65998 16600  
62630 66762 38190 66711 24046  
13109 69800 57082 88579 88392  
73488 82865 12822 56794 13703  
46163 18612 18864 72934 05653  
91995 61918 14125 75793 45524  
09367 05639 86751 38761 02258  
96745 27623 20460 41283 93208  
01722 71416 23707 99562 97887  
79115 30073 99824 09086 63715  
94535 70842 48079 15075 00414  
000 000 *Courtesy DanAR*

19/07                    514 1 745 128 21184 ... 96979 000 000    [0300z only SDR JAPAN]                    Weak, QRM from a swept signal

514 514 514 1  
745 128  
21184 67768 13145 08834 08808  
59462 44341 96067 48355 67435  
68072 49686 19970 98186 40136  
59599 47529 17712 09744 39750  
29941 71896 02978 75597 14688  
29205 10700 06506 74741 89269  
36130 15666 94267 37886 51645  
31297 31367 27103 07674 37009  
92955 87358 85367 04035 51569  
29838 59090 69410 28794 87941  
37135 66401 95115 13915 74379  
97996 22126 44411 32557 86607  
36226 13316 23393 10173 56657  
29858 70037 13063 17813 45394  
71042 29131 53660 01844 29761  
32532 42603 64826 17078 79460  
03751 21073 52100 39703 03701  
32953 70181 64109 45885 62434  
08084 42602 45059 28217 01097  
89960 84991 97079 14408 08004  
16285 33536 57034 89714 92071  
29239 57286 23591 56600 31349  
34334 79770 00326 39832 74141  
30713 72740 45114 46009 96164  
04842 47305 78188 92280 25805  
56775 21331 96979 000 000  
*Courtesy DanAR*



26/07 514 1 5680 122 23621 ... 27729 000 000 [0300z only SDR JAPAN] Weak, QRM from a swept signal

514 514 514 1  
5680 122  
23621 84752 57988 21583 68121  
29627 59836 60899 10694 95816  
76024 43114 95989 22383 98965  
13751 25148 66302 93915 68658  
18124 06609 36008 85616 75537  
10088 65469 23116 22308 72406  
72971 36690 72788 10348 15675  
71260 13323 09415 78694 55934  
09960 19267 89600 07567 61017  
89599 35570 93384 47124 85807  
02073 69400 60573 00339 80662  
81812 74662 43183 88562 77756  
44434 23711 66725 22791 04401  
13011 46755 66194 22449 81975  
99081 09188 24634 90296 92903  
14216 45803 90637 65715 90637  
34101 49284 07567 60831 84646  
35133 20366 67250 38660 03098  
58981 63576 82510 62827 96240  
67877 23508 38186 18344 55602  
32704 67363 65525 81511 51470  
26570 22319 96179 53528 33581  
75006 37742 72588 33107 73188  
18370 31963 51716 06197 51033  
87308 27729 000 000  
*Courtesy DanAR*

**August 2020**

**0300z 13464kHz 0320z 12164kHz 0340z 11564kHz [DanAr tnx Priyon for freqs]**

02/08 415 1 354 86 87451 ... 74419 000 000 [0300z only SDR JAPAN] Weak

415 415 415 1  
354 86  
87541 17579 66259 31123 46891  
84051 37573 79741 60689 97924  
52664 68948 23908 03836 87203  
07362 51318 19052 28461 54818  
08111 01192 65780 87957 66047  
35090 39768 08574 67607 68490  
87253 07164 93547 36292 57271  
33715 64969 95557 30638 74808  
37386 90428 19455 26831 58951  
18312 95888 22104 70355 92560  
54314 39899 60007 99846 38593  
28421 44914 08763 99448 02444  
18286 17815 19369 04782 00426  
77734 66458 70188 91051 88953  
84249 42884 91620 31842 36363  
81121 55120 95420 17887 87329  
17818 07914 84498 14443 23697  
74419 000 000 *Courtesy DanAR*

09/08 415 1 8546 50 64472 ... 97584 000 000 [0300z QRM] Weak [DanAR]  
Dan notes improving propagation

415 415 415 1  
8546 50  
64472 95204 00235 67128 53720  
13973 69887 63131 29533 54159  
06698 97194 15730 59053 83851  
37424 03683 92881 24092 02090  
44777 04295 27549 78406 69082  
57686 87428 71898 53266 34945  
15354 52197 31171 42694 00374  
64100 08686 53071 66469 92933  
00911 40113 92003 11514 38480  
61716 17310 34621 99363 97584  
000 000 *Courtesy DanAR*

16/08 415 0 6813 24 28584 ... 19568 000 000 [0300z only SDR JAPAN] Weak [DanAR]

415 415 415 1  
6813 24  
28584 19156 54238 48591 73863  
55272 22737 47687 95824 38172  
78843 11437 13274 03655 73490  
71216 22907 40098 47018 47817  
50677 07021 94465 19568  
000 000 *Courtesy DanAR*

23/08 415 1 1349 108 92820 ... 09722 000 000 [0300z only SDR JAPAN] Weak, fades [DanAR]

415 415 415 1  
1349 108  
92820 00993 84623 90185 17195  
20983 85516 91696 35394 16661  
61350 36257 93005 91408 05981  
57618 80208 30615 20628 37622  
68478 73470 08787 27560 31299  
19240 19172 76423 00296 94382  
50193 85080 18448 41766 62982  
18227 51076 79572 47565 21034  
20548 86242 17380 22410 13648  
57879 64221 05846 76900 06014  
40855 29648 87943 12240 03801  
68442 85626 58222 06636 22117  
01371 56785 64814 99356 80830  
73538 33083 38094 31381 93840  
49235 43591 59967 40843 13821  
07698 45973 29761 83706 71426  
58755 60091 11974 60187 38054  
16040 29279 52149 01142 46347  
58162 68267 26052 79906 11256  
28520 36859 85294 81055 31704  
74222 68871 29609 21747 74976  
74238 34881 09722 000 000  
Courtesy DanAR

30/08 415 1 285 128 11113 ... 42588 000 000 [0300z only SDR JAPAN] Weak [DanAR]

415 415 415 1  
285 128  
11113 59010 57807 15041 58540  
77126 06976 32070 61992 80514  
93208 78459 81022 86996 09826  
78176 11282 83879 10183 04873  
15771 64088 51959 16846 38013  
68352 72605 37441 12287 53903  
53761 46074 17822 45092 09536  
70035 10299 17236 49921 03663  
41166 49547 25103 85810 60776  
97520 51818 80311 34353 88293  
56500 31782 15043 27922 65119  
18067 31672 01906 98979 16044  
03116 00063 82218 79569 92273  
95865 97015 97322 47232 47131  
40874 59217 42460 65604 61587  
11968 48745 04106 65312 02935  
30198 23580 35618 74402 02092  
71576 89732 55176 01778 44168  
00347 50544 66387 63800 71546  
41364 58894 25237 31703 30914  
57519 52830 60364 16273 97067  
49015 72321 72759 52886 33938  
31932 52313 81752 04668 03710  
47645 71962 54206 17968 57592  
49263 77218 37114 84004 11772  
16627 84786 42588 000 000  
Courtesy DanAR

# V13

9276kHz0200z 08/07 New Star Broadcasting Station #3 (Via SDR Hong Kong) Daniel WED  
7502kHz0300z 08/07 New Star Broadcasting Station #3 (Via SDR Hong Kong) Daniel WED  
18040kHz0000z 05/08 New Star Broadcasting Station #2 (Via SDR South Korea) Daniel WED

For 2507, 10 groups: 0313 8609 2025 2728 6715 3186 1617 3722 4216 0820  
For 2653, 14 groups: 0705 8407 0597 2932 9171 3678 7745 3278 6976 8440 7179 3066 1626 3294  
For 3031, 14 groups: 2466 8255 2790 4817 1491 8742 2872 7726 9763 4924 8878 8271 0202 1410  
For 3083, 11 groups: 5007 0216 1928 0096 7744 6505 7704 7080 5574 2060 6810  
For 3094, 15 groups: 9553 6439 9982 2437 6760 2916 0858 7722 4952 8815 5099 5732 9530 6847 3386  
For 3696, 10 groups: 7052 9888 7739 7494 1976 1436 9135 7841 5892 8646  
For 3871, 16 groups: 2878 0936 6288 2799 8770 1612 2731 5436 9606 1743 1570 2680 1774 5767 4981 2857

9276kHz0200z 08/08 New Star Broadcasting Station #3 (Via SDR Hong Kong) Daniel SAT

1305/14 = 7407 4938 3412 8187 8169 1413 0934 0671 0602 1938 6728 2274 5702 2544  
2022/13 = 8370 3145 3148 6563 6921 9029 3186 4786 2964 7666 7404 5519 7235  
2124/14 = 5420 5957 8804 6688 1123 4716 4036 1147 0538 5485 6733 0807 9216 8386  
2193/16 = 9269 2772 7008 7344 4999 6637 1582 2299 9464 3648 1266 9868 3062 0544 1019 8666  
2402/15 = 6970 1006 6687 0165 3098 9042 5351 3270 4423 9005 3471 3537 4877 0715 8507  
2485/17 = 1803 9227 4935 1275 8922 4032 2075 8070 5873 1098 6231 9275 5405 3260 4482 2267 1846  
8676/11 = 6097 7396 7463 0803 0763 0597 1065 7954 8058 3815 6119

15890kHz1200z 08/08 New Star Broadcasting Station #2 (Via SDR Indonesia) Repeat of 05/08/2020 Daniel SAT

# V15

North Korea Spy Numbers Broadcasting via Pyongyang BS

# V24

South Korean Intelligence.

# V26

# Polytones

# XPA1 c

Tuesday/Thursday

July 2020

0710z	10446kHz	0730z	11474kHz	0750z	12157kHz	
02/07		367 000 05473 00001 00000	rest unreadable			[0750z Not Monitored] Very weak [Hrd by HFD]
07/07		367 000 09279 00001 00000 ... 36670				[0710z Unworkable] Weak
		<i>Poor condx lower bands; QSB pervading on 80/60/30m bands today</i>				
14/07		367 1 00807 00135 71358 ... 70273				Fair

367 367 367 1 367 367 367 1 367 367 367 1

00807 00135 71358 42304 67927 40538 91746 40586 23682 86649  
59881 84004 67479 97038 92060 58491 62898 79755 66721 44638  
27029 87276 70026 19627 95877 68096 95808 53113 25774 98270  
73554 81414 90900 30375 21430 68207 31624 49830 38216 35639  
70829 12594 63280 22978 83461 53078 36145 17787 15386 55456  
64908 97904 45912 95272 27779 96587 48931 56505 62198 68551  
49848 51938 68286 24087

09589 13411 36982 46290 53185 77802 62784 53098 71213 83501  
91170 69828 45572 73910 12371 51750 25017 10259 15739 16938  
75296 96732 93550 47004 95806 81716 76660 23686 71416 21807  
03335 20725 44233 21401 80645 47806 53375 81798 09333 29088  
63843 83920 15655 16304 19831 45544 28728 77967 46893 66378  
75439 55147 92124 61859 90711 79375 09488 76293 77877 49250  
23687 23225 16799 94290

97621 93782 65558 8842 3148 97623 86818 90884 09951 70273

Courtesy PLdn

16/07		367 1 00807 00135 71358 ... 70273				Weak, QSB3/4
21/07		367 1 00807 00135 71358 ... 70273			[0710z QSB3/4]	Weak
23/07		367 1 00807 00135 71358 ... 70273			[0710/0730z QSB3/4]	Weak
28/07		367 1 00146 00078 51126 ... 32635			[0750z Weak, QRM3]	Unworkable, Poor condx
30/07		367 1 00146 00078 51126 ... 32635				0710z Weak, QSB3; 0730z Fair
		<i>Poor condx today and third freq not monitored due to shopping as required by SWMBO.</i>				

August 2020

0710z	10234kHz	0730z	11511kHz	0750z	12117kHz	
04/08		829 1 00146 00078 51126 ... 11112				[0730z QRM3] Fair

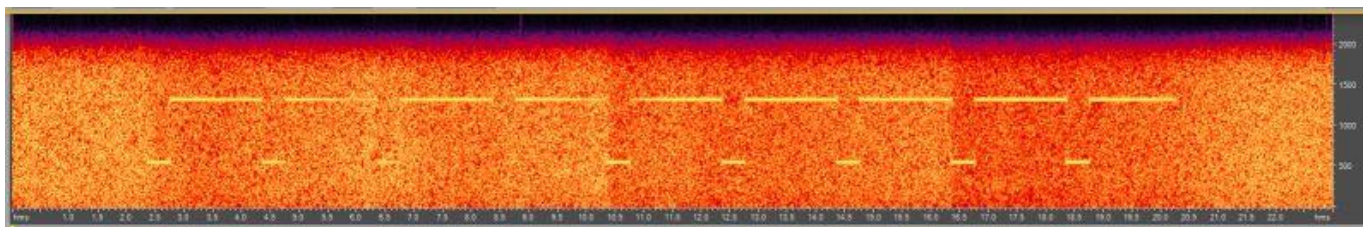
06/08 829 1 00146 00078 51126 ... 11112 [0750z Fair] Strong

829 829 829 1 829 829 829 1 829 829 829 1

00146 00078 51126 73167 77597 47242 55518 53468 89896 44459  
78052 94634 11317 81935 33770 38686 85538 90484 84011 07621  
37166 39714 10435 37584 13383 45347 43980 82413 34908 70837  
67649 12405 85737 56946 60581 20729 10297 84171 55625 71838  
68109 45612 89493 30616 65517 27699 78829 06134 73307 23948  
57106 35594 29504 84438 96161 92574 28818 65843 40532 27052  
52065 73373 19654 83929

17282 31278 89619 50390 36226 81410 84013 20158 06730 26453  
94857 71537 65303 31927 82800 32635 11112 *Courtesy PLdn*

11/08 829 000 03535 00001 00000 ... 36256 [0710z Weak, 0730z QSB3/4, 0750z QRM3] Fair  
13/08 829 000 07882 00001 00000 ... 36256 Fair  
18/08 829 000 09156 00001 00000 ... 34666 Strong  
20/08 829 000 04338 00001 00000 ... 36657 [0710z Weak] Strong  
25/08 829 000 08984 00001 00000 ... 37670 [0710/0730z QSB4] Weak



0710z 27/08 10234kHz 18s intro only

27/08 829 000 06186 00001 00000 ... 34666 [0710z Weak, 18s intro only, see above] Strong

## XPA2 m

Sunday/Tuesday

July 2020

2100z	13394kHz	2120z	12194kHz	2140z	10794kHz		
05/07		06442 00001 00000 ... 34262				[2100z Strong]	Fair [Weak in Argentine]
07/07		00315 00198 42350 ... 77770					Strong
12/07		00315 00198 42350 ... 77770					Strong [Weak in Argentine]
14/07		00395 00164 36510 ... 10607				[2100z Fair]	Strong
19/07		00395 00164 36510 ... 10607				[2140z Fair]	Weak
21/07		05018 00102 41257 ... 37665					Fair, QSB3, Weak in Argentine

05018 00102 41257 55004 17410 03760 93661 87934 68166 61175  
44719 47039 35059 09955 47976 76558 86706 94588 55736 23650  
04072 81659 22738 67853 71613 57336 26747 21091 43480 75188  
06465 72762 34029 36268 97787 74499 92349 94386 77342 05167  
28648 39096 88715 30987 31901 66911 63360 60767 61109 95712  
69649 76191 45336 50890 05979 75974 09587 60885 49027 39567  
23803 41245 58518 46079 38836 16100 70393 43791 35341 27337  
62774 75235 87562 09054 36082 57851 32191 06255 32636 28428  
77884 85246 49135 19979 77414 95771 33240 69110 22218 11549  
05744 95218 09513 69257 37757 44828 82099 62403 20026 90894  
17998 85647 99812 95390 37665 *Courtesy DanAR*

26/07 05018 00102 41257 ... 37665 [2100z Weak] Strong, Weak in Argentine

28/07 00271 00078 08013 ... 34251 [2140z Fair] Weak, QSB3 Weak in Argentine

00271 00078 08013 68353 67992 95915 77666 16745 72500 61367  
79410 37264 52463 69844 92437 00251 44973 32067 47355 88319  
99210 73197 86410 14436 10641 05755 60255 20594 88402 00358  
61288 81516 56822 00098 36759 37052 27315 01260 62895 62087  
90327 13380 80593 39500 71330 12704 97132 33681 30652 53836  
10545 68392 75181 38359 82948 28477 14401 89452 32950 72273  
91187 48845 42051 19632 31391 31185 33277 54138 60379 04140  
70240 08591 55634 00134 03768 06116 87824 83580 91934 15876  
34251 *Courtesy DanAR*

August 2020

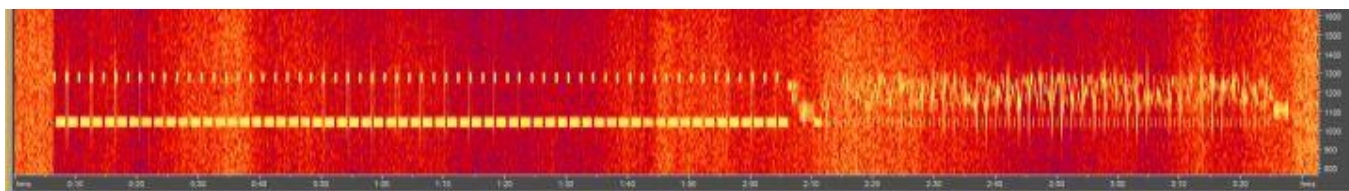
2100z	12159kHz	2120z	11559kHz	2140z	10559kHz
02/08	00271 00078 08013 ... 34251				Strong, Weak in Argentine
04/08	00678 00068 68598 ... 02416				Strong
09/08	00678 00068 68598 ... 02416			[2140z strong]	Fair, Weak in Argentine
00678 00068 68598 24272 97161 92942 26287 43910 48559 47348 62443 24999 22278 48187 11676 11118 12454 42234 12681 04498 32440 84062 12196 18624 88898 39887 11222 11920 68663 08854 65296 29479 02186 01021 03601 73237 42839 69877 29675 66259 58490 65144 55902 58632 47670 41458 51694 10619 90208 55955 65256 74284 38498 44151 73002 25536 59799 10588 53022 57819 17336 60367 86949 06798 58506 35180 32651 95422 62329 44696 02416 <i>Courtesy PLdn</i>					
11/08	03170 00024 50851 74679 12268 ... 77427 44571 [PLdn Stn closed due to Lightning]				Weak DanAR
16/08	03170 00024 50851 ... 44571				Very strong, Weak DanAR
18/08	00230 00218 28604 ... 23366			[2140z Missed]	Strong
23/08	00230 00218 29604 ... 23366				Very strong, Weak Argentine
25/08	06392 00202 30619 ... 31772			[2140z QRM3]	Strong
30/08	06392 00202 30619 ... 31772				Fair Weak in Argentine

# XPA2 p

Monday/Wednesday

July 2020

0700z	12148kHz	0720z	13448kHz	0740z	13948kHz
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12148kHz 0700z 01/07/20 Note burst of QRM at start of msg txt

01/07	00236 00093 71513 ... 42362			[0700z QRM3]	Fair
00236 00093 71513 93664 06899 09665 95935 32743 21658 33066 99032 36523 59819 18714 40120 50893 95948 56588 64071 75071 04072 60536 82566 24094 70905 83961 85889 61445 69842 17725 71621 21250 11002 89259 28890 35078 51614 03534 29680 38188 61542 67740 10739 82785 34989 57420 98470 95559 34107 83175 98955 77926 19682 31079 77233 88732 54848 84821 06750 95978 91667 37905 98350 38881 59633 55751 69528 11889 80241 93113 21480 43232 18851 80555 02878 58827 09337 81642 19688 88302 27909 49348 26985 85866 61516 47646 74815 74973 91750 24492 31926 44643 45217 88780 15470 42362 <i>Courtesy Ary</i>					
06/07	00236 00093 71513 ... 42362			[0740z Strong]	Very strong
08/07	00236 00093 71513 ... 42362				Strong
13/07	00206 00080 48083 ... 07041				Strong
00206 00080 48083 52188 07864 96959 17766 59368 15740 96207 06404 55617 41823 37304 71442 35929 78614 39378 81266 74453 67355 08022 94764 34105 66623 61111 04022 86277 54225 07681 36691 43866 67343 47876 88196 60785 35233 03050 55359 99148 02880 13593 55788 17130 43080 24500 37331 37262 91174 10565 33424 40710 63958 26708 24982 82481 92624 51353 05980 02877 62186 21842 26894 82210 74758 81870 44761 33100 45718 44050 29954 14324 26145 04639 66900 89326 33997 92393 76279 00672 47603 80784 07041 <i>Courtesy PLdn</i>					
15/07	00206 00080 48083 ... 07041				Fair
20/07	00206 00080 48083 ... 07041				Fair
22/07	00206 00080 48083 ... 07041				Fair

27/07	06443 00001 00000 ... 35662	Strong
29/07	08076 00001 00000 ... 34267	Strong

**August 2020**

0700z	12152kHz	0720z	13552kHz	0740z	13952kHz		
03/08	07040 00001 00000 ... 31263					[0740z Weak]	Fair
05/08	08124 00001 00000 ... 33662						Very strong
10/08	00830 00067 43426 ... 74547					[0700z Very strong]	Strong
<p>00830 00067 43426 03511 94145 98364 45255 65503 80589 54629            58075 52732 69206 67901 54463 03389 41293 19959 02735 03141            48317 02945 13159 97574 24441 35249 57126 65411 19745 39784            83302 93859 36014 87529 39050 78235 85682 48277 93602 34024            73872 13817 90729 52012 28326 25335 45044 70586 42051 14773            76696 58912 17136 37652 21433 23285 85154 11566 43155 38324            10199 10397 38495 94469 59384 85072 71696 46393 22953 74547  <i>Courtesy PLdn</i></p>							
12/08	00830 00067 43426 ... 74547						Strong
17/08	00830 00067 43426 ... 74547						Very strong
19/08	00830 00067 43426 ... 74547						Very strong
24/08	09190 00068 11898 ... 72015						Strong
26/08	09190 00068 11898 ... 72015						Very strong
31/08	09190 00068 11898 ... 72015			0740z MISSED		[0720z QRM3/4]	Strong

**Others:**

**July 2020**

**Wed/Fri**

2100z	12124kHz	2120z	11124kHz	2140z	10624kHz			
08/07	01017 00202 07986 22364 81947 ... 54614 74346 QSA2					[12124kHz2100z]	DanAR	WED
17/07	01294 00180 43656 49818 05221 ... 10736 57414					[2100z LocalQRM2]	DanAR	FRI
22/07	00140 00164 13618 ... 32444					[2100z QSB1]	Weak DanAR	WED
29/07	03559 00001 00000 ... 40260					[2100z Weak]	Fair PLdn	WED
31/07	02419 0001 00000 ... 37653					Strong, Weak in Argentine	PLdn/DanAr	FRI

**From H-FD:**

**July 2020**

**1B XPA2**

Wed 01.07.2020 2100Z 12124 msg  
 Wed 01.07.2020 2120Z 11124 msg  
 Wed 01.07.2020 2140Z 10624 msg

Thu 02.07.2020 1600Z 13538 msg  
 Thu 02.07.2020 1620Z 14438 msg  
 Thu 02.07.2020 1640Z 14938 msg

Wed 08.07.2020 0910Z 16296 msg  
 Wed 08.07.2020 0930Z 14981 msg  
 Wed 08.07.2020 0950Z 13953 msg

Thu 09.07.2020 0910Z 13445 msg  
 Thu 09.07.2020 0930Z 12145 msg  
 Thu 09.07.2020 0950Z 11545 msg

Thu 09.07.2020 1100Z 17435 msg  
 Thu 09.07.2020 1120Z 16235 msg  
 Thu 09.07.2020 1140Z 14935 msg

Sat 11.07.2020 1500Z 13954 msg  
 Sat 11.07.2020 1520Z 12154 msg  
 Sat 11.07.2020 1540Z 11454 msg

**August 2020**

**1B XPA2**

Sat 01.08.2020 0910Z 14372 msg  
 Sat 01.08.2020 0930Z 13372 msg  
 Sat 01.08.2020 0950Z 12172 msg

Mon 03.08.2020 0910Z 18059 msg  
 Mon 03.08.2020 0930Z 16093 msg  
 Mon 03.08.2020 0950Z 14874 msg

Mon 03.08.2020 0910Z 18059 msg  
 Mon 03.08.2020 0930Z 16093 msg  
 Mon 03.08.2020 0950Z 14874 msg

Wed 05.08.2020 1100Z 16264 msg  
 Wed 05.08.2020 1120Z 15864 msg  
 Wed 05.08.2020 1140Z 14864 msg

Wed 05.08.2020 1200Z 13919 msg  
 Wed 05.08.2020 1220Z 14719 msg  
 Wed 05.08.2020 1240Z 16219 msg

Thu 06.08.2020 1600Z 14864 msg  
 Thu 06.08.2020 1620Z 14364 msg  
 Thu 06.08.2020 1640Z 13464 msg

Mon 24.08.2020 1500Z 13825 msg  
 Mon 24.08.2020 1520Z 12125 msg  
 Mon 24.08.2020 1540Z 11025 msg

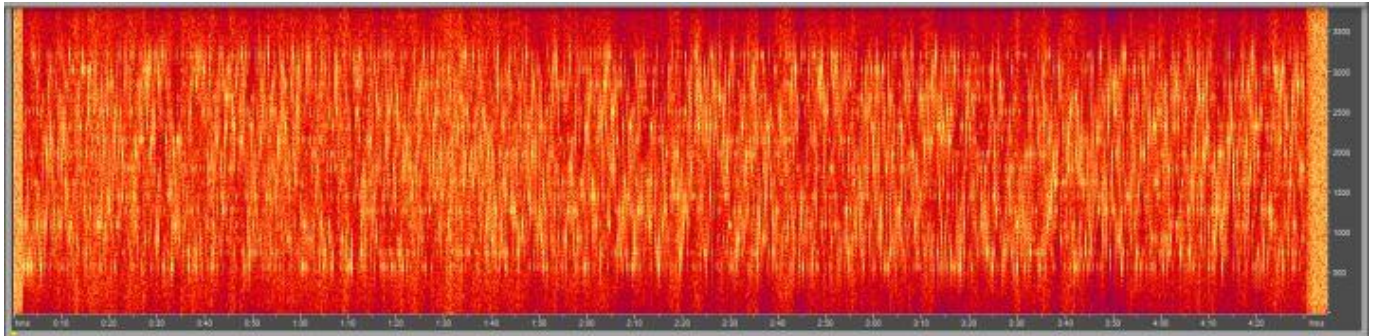


# XPB

## XPB1

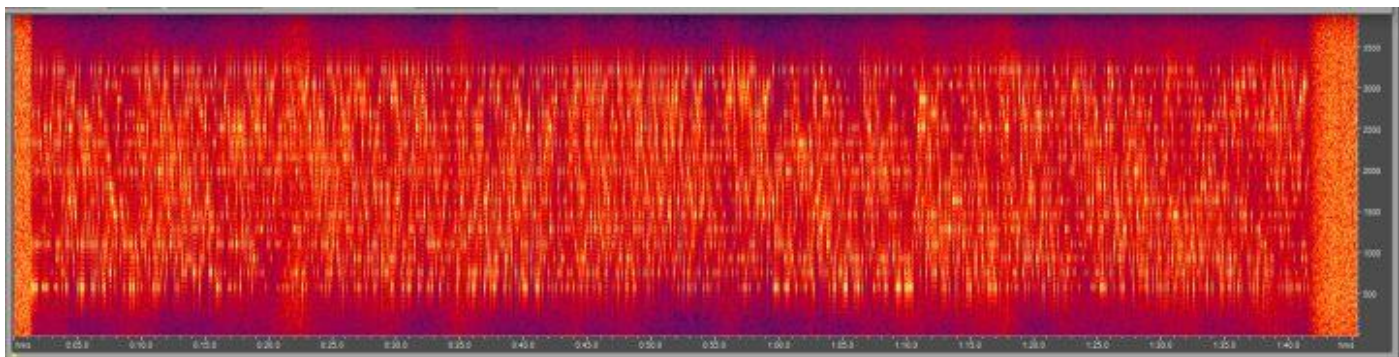
July 2020

SUN/TUE



10344kHz 1940z 05/07/2020 4m28s lg

14644kHz 1900z	05/07	NRH		PLdn	SUN
13444kHz 1910z	05/07	NRH		PLdn	SUN
12144kHz 1920z	05/07	Weak	4m28s	PLdn	SUN
11044kHz 1930z	05/07	Fair	4m28s	PLdn	SUN
10344kHz 1940z	05/07	Fair	4m28s	PLdn	SUN
9244kHz 1950z	05/07	Fair	4m28s	PLdn	SUN
14644kHz 1900z	07/07	NRH		PLdn	TUE
13444kHz 1910z	07/07	NRH		PLdn	TUE
12144kHz 1920z	07/07	Strong	4m28s	PLdn	TUE
11044kHz 1930z	07/07	Fair	4m28s	PLdn	TUE
10344kHz 1940z	07/07	Fair	4m28s	PLdn	TUE
9244kHz 1950z	07/07	Fair	4m28s	PLdn	TUE
14644kHz 1900z	12/07	Fair	4m28s	PLdn	SUN
13444kHz 1910z	12/07	Strong	4m28s	PLdn	SUN
12144kHz 1920z	12/07	Strong	4m28s	PLdn	SUN
11044kHz 1930z	12/07	Strong	4m28s	PLdn	SUN
10344kHz 1940z	12/07	Strong	4m28s	PLdn	SUN
9244kHz 1950z	12/07	Strong	4m28s	PLdn	SUN
14644kHz 1900z	14/07	NRH		PLdn	TUE
13444kHz 1910z	14/07	NRH		PLdn	TUE
12144kHz 1920z	14/07	Weak	1m40s	PLdn	TUE
11044kHz 1930z	14/07	Weak	1m40s	PLdn	TUE
10344kHz 1940z	14/07	Strong	1m40s	PLdn	TUE
9244kHz 1950z	14/07	Strong	1m40s	PLdn	TUE
14644kHz 1900z	19/07	Weak	1m40s	PLdn	SUN
13444kHz 1910z	19/07	Fair	1m40s	PLdn	SUN
12144kHz 1920z	19/07	Strong	1m40s	PLdn	SUN
11044kHz 1930z	19/07	V. strong	1m40s	PLdn	SUN
10344kHz 1940z	19/07	V. strong	1m40s	PLdn	SUN
9244kHz 1950z	19/07	V. strong	1m40s	PLdn	SUN
14644kHz 1900z	21/07	NRH		PLdn	TUE
13444kHz 1910z	21/07	Weak	1m40s	PLdn	TUE
12144kHz 1920z	21/07	Fair	1m40s	PLdn	TUE
11044kHz 1930z	21/07	Strong	1m40s	PLdn	TUE
10344kHz 1940z	21/07	Strong	1m40s	PLdn	TUE
9244kHz 1950z	21/07	V.strong	1m40s	PLdn	TUE

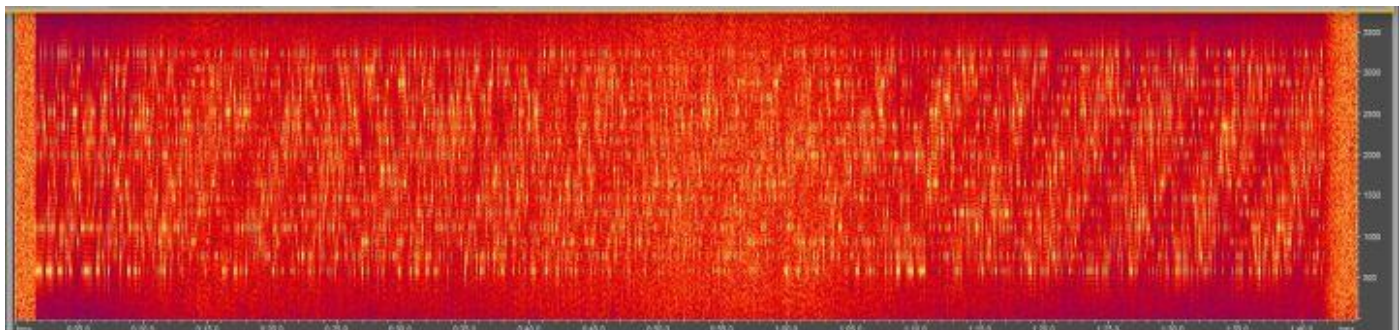


13444kHz 1910z 26/07/2020 1m40s lg

14644kHz 1900z	26/07	Weak	1m40s		PLdn	SUN
13444kHz 1910z	26/07	Strong	1m40s		PLdn	SUN
12144kHz 1920z	26/07	Strong	1m40s		PLdn	SUN
11044kHz 1930z	26/07	V. strong	1m40s		PLdn	SUN
10344kHz 1940z	26/07	V. strong	1m40s		PLdn	SUN
9244kHz 1950z	26/07	V. strong	1m40s		PLdn	SUN
14644kHz 1900z	28/07	Weak	1m40s		PLdn	TUE
13444kHz 1910z	28/07	Weak	1m40s		PLdn	TUE
12144kHz 1920z	28/07	Fair	1m40s		PLdn	TUE
11044kHz 1930z	28/07	Strong	1m40s		PLdn	TUE
10344kHz 1940z	28/07	Strong	1m40s		PLdn	TUE
9244kHz 1950z	28/07	V.strong	1m40s		PLdn	TUE

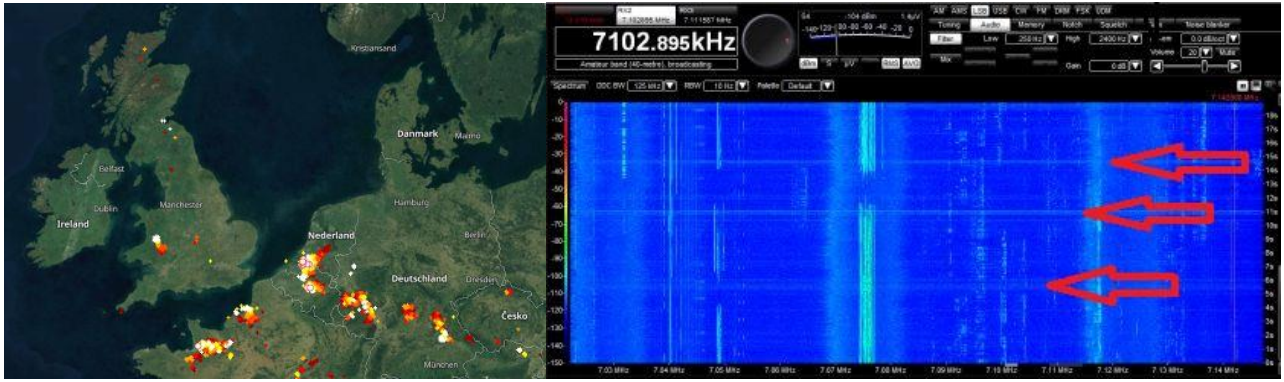
August 2020

SUN/TUE

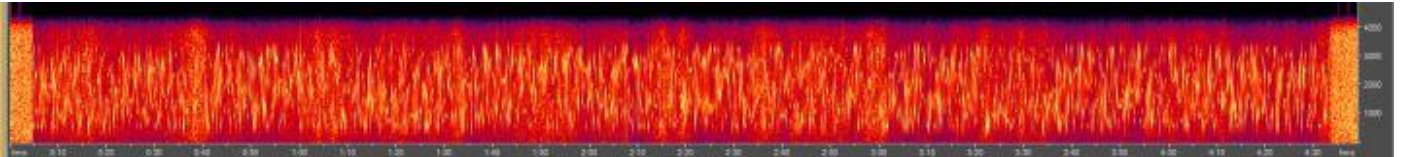


14918kHz 1900z 02/08/2020 1m40s lg

14918kHz 1900z	02/08	Fair	1m40s		PLdn	SUN	
13918kHz 1910z	02/08	Fair	1m40s		PLdn	SUN	
12218kHz 1920z	02/08	Fair	1m40s		PLdn	SUN	
11118kHz 1930z	02/08	Strong	1m40s		PLdn	SUN	
10218kHz 1940z	02/08	Strong	1m40s		PLdn	SUN	
9118kHz 1950z	02/08	Strong	1m40s		PLdn	SUN	
14918kHz 1900z	04/08	NRH			PLdn	TUE	
13918kHz 1910z	04/08	Weak	1m40s		PLdn	TUE	
12218kHz 1920z	04/08	Weak	1m40s		PLdn	TUE	
11118kHz 1930z	04/08	Weak	1m40s		PLdn	TUE	
10218kHz 1940z	04/08	Weak	1m40s		PLdn	TUE	
9118kHz 1950z	04/08	Strong	1m40s		PLdn	TUE	
14918kHz 1900z	09/08	Strong	1m40s		PLdn	SUN	
13918kHz 1910z	09/08	Strong	1m40s		PLdn	SUN	
12218kHz 1920z	09/08	Fair	1m40s	QRM3	PLdn	SUN	
11118kHz 1930z	09/08	Fair	1m40s	QRM3	PLdn	SUN	
10218kHz 1940z	09/08	V.strong	1m40s		PLdn	SUN	
9118kHz 1950z	09/08	Strong	1m40s	QRM3	PLdn	SUN	
14918kHz 1900z	11/08	V.strong	4m40s	QRN2/3	PLdn	TUE	
13918kHz 1910z	11/08	V.strong	4m40s	QRN2/3	PLdn	TUE	
12218kHz 1920z	11/08	Station shut down; Lightning					
11118kHz 1930z	11/08	Station shut down; Lightning					
10218kHz 1940z	11/08	Station shut down; Lightning					
9118kHz 1950z	11/08	Station shut down; Lightning					



Strikes before XPB1 1900z schedule 11/08 as seen on 40m



XPB1 14918kHz 1900z 11/08

14918kHz 1900z	16/08	Fair	4m40s	QRM2	PLdn	SUN
13918kHz 1910z	16/08	Strong	4m40s		PLdn	SUN
12218kHz 1920z	16/08	V.strong	4m40s		PLdn	SUN
11118kHz 1930z	16/08	V.strong	4m40s		PLdn	SUN
10218kHz 1940z	16/08	V.strong	4m40s		PLdn	SUN
9118kHz 1950z	16/08	V.strong	4m40s		PLdn	SUN
14918kHz 1900z	18/08	V.strong	4m40s		PLdn	TUE
13918kHz 1910z	18/08	V.strong	4m40s		PLdn	TUE
12218kHz 1920z	18/08	V.strong	4m40s	QRM3	PLdn	TUE
11118kHz 1930z	18/08	V.strong	4m40s		PLdn	TUE
10218kHz 1940z	18/08	V.strong	4m40s		PLdn	TUE
9118kHz 1950z	18/08	V.strong	4m40s		PLdn	TUE
14918kHz 1900z	23/08	Weak	4m26s		PLdn	SUN
13918kHz 1910z	23/08	Strong	4m26s		PLdn	SUN
12218kHz 1920z	23/08	Fair	4m26s		PLdn	SUN
11118kHz 1930z	23/08	Fair	4m26s		PLdn	SUN
10218kHz 1940z	23/08	Fair	4m26s		PLdn	SUN
9118kHz 1950z	23/08	Strong	4m26s		PLdn	SUN
14918kHz 1900z	25/08	Strong	1m40s		PLdn	TUE
13918kHz 1910z	25/08	Strong	1m40s		PLdn	TUE
12218kHz 1920z	25/08	V.strong	1m40s		PLdn	TUE
11118kHz 1930z	25/08	V.strong	1m40s		PLdn	TUE
10218kHz 1940z	25/08	V.strong	1m40s		PLdn	TUE
9118kHz 1950z	25/08	V.strong	1m40s		PLdn	TUE
14918kHz 1900z	30/08	Strong	1m40s		PLdn	SUN
13918kHz 1910z	30/08	Strong	1m40s		PLdn	SUN
12218kHz 1920z	30/08	Strong	1m40s		PLdn	SUN
11118kHz 1930z	30/08	Strong	1m40s		PLdn	SUN
10218kHz 1940z	30/08	Strong	1m40s		PLdn	SUN
9118kHz 1950z	30/08	Strong	1m40s		PLdn	SUN

**MON/SAT**

**July 2020**

15876kHz 1200z	06/07	Unworkable			PLdn	MON
14876kHz 1210z	06/07	Weak			PLdn	MON
14376kHz 1220z	06/07	Weak			PLdn	MON
13976kHz 1230z	06/07	Fair,QSB3	4m28s		PLdn	MON
13376kHz 1240z	06/07	Fair	4m28s		PLdn	MON
12176kHz 1250z	06/07	Fair	4m28s		PLdn	MON

11/07: Extremely poor condx noted.

15876kHz 1200z	11/07	NRH			PLdn	SAT
14876kHz 1210z	11/07	NRH			PLdn	SAT
14376kHz 1220z	11/07	Unworkable			PLdn	SAT
13976kHz 1230z	11/07	NRH			PLdn	SAT
13376kHz 1240z	11/07	Unworkable			PLdn	SAT
12176kHz 1250z	11/07	Unworkable			PLdn	SAT



15876kHz 1200z	13/07	NRH		PLdn	MON
14876kHz 1210z	13/07	NRH		PLdn	MON
14376kHz 1220z	13/07	NRH		PLdn	MON
13976kHz 1230z	13/07	NRH		PLdn	MON
13376kHz 1240z	13/07	Unworkable		PLdn	MON
12176kHz 1250z	13/07	Unworkable		PLdn	MON
15876kHz 1200z	18/07	Very weak, local pulse QRM3		PLdn	SAT
14876kHz 1210z	18/07	Very weak, local pulse QRM3		PLdn	SAT
14376kHz 1220z	18/07	Weak, local pulse QRM3		PLdn	SAT
13976kHz 1230z	18/07	Weak, local pulse QRM3		PLdn	SAT
13376kHz 1240z	18/07	Weak, local pulse QRM3		PLdn	SAT
12176kHz 1250z	18/07	Weak, local pulse QRM3		PLdn	SAT
15876kHz 1200z	20/07	V.weak		PLdn	MON
14876kHz 1210z	20/07	V.weak		PLdn	MON
14376kHz 1220z	20/07	V.weak, 1kHz tone train on freq before/after txmsn		PLdn	MON
13976kHz 1230z	20/07	V.weak		PLdn	MON
13376kHz 1240z	20/07	V.weak		PLdn	MON
12176kHz 1250z	20/07	V.weak		PLdn	MON
15876kHz 1200z	25/07	Very weak		PLdn	SAT
14876kHz 1210z	25/07	Very weak		PLdn	SAT
14376kHz 1220z	25/07	Weak 4m28s		PLdn	SAT
13976kHz 1230z	25/07	Weak 4m28s		PLdn	SAT
13376kHz 1240z	25/07	Weak 4m28s		PLdn	SAT
12176kHz 1250z	25/07	Weak 4m28s		PLdn	SAT
15876kHz 1200z	27/07	V.weak		PLdn	MON
14876kHz 1210z	27/07	V.weak		PLdn	MON
14376kHz 1220z	27/07	V.weak		PLdn	MON
13976kHz 1230z	27/07	V.weak		PLdn	MON
13376kHz 1240z	27/07	V.weak		PLdn	MON
12176kHz 1250z	27/07	Weak 4m28s		PLdn	MON

#### August 2020

#### MON/SAT

Sat 01.08.2020 1200Z 15876 msg				H-FD	SAT
Sat 01.08.2020 1210Z 14876 msg				H-FD	SAT
Sat 01.08.2020 1220Z 14376 msg				H-FD	SAT
Sat 01.08.2020 1230Z 13976 msg				H-FD	SAT
Sat 01.08.2020 1240Z 13376 msg				H-FD	SAT
Sat 01.08.2020 1250Z 12176 msg				H-FD	SAT
15876kHz 1200z	03/08	Weak 1m40s		PLdn	MON
14876kHz 1210z	03/08	Weak 1m40s		PLdn	MON
14376kHz 1220z	03/08	Weak 1m40s		PLdn	MON
13976kHz 1230z	03/08	Weak 1m40s		PLdn	MON
13376kHz 1240z	03/08	Weak 1m40s		PLdn	MON
12176kHz 1250z	03/08	Weak 1m40s		PLdn	MON
15876kHz 1200z	08/08	Weak 1m40s		PLdn	SAT
14876kHz 1210z	08/08	MISSED		PLdn	SAT
14376kHz 1220z	08/08	Weak 1m40s		PLdn	SAT
13976kHz 1230z	08/08	Weak 1m40s		PLdn	SAT
13376kHz 1240z	08/08	Weak 1m40s		PLdn	SAT
12176kHz 1250z	08/08	Weak 1m40s		PLdn	SAT
15876kHz 1200z	10/08	Weak 4m28s		PLdn	MON
14876kHz 1210z	10/08	Weak 4m28s		PLdn	MON
14376kHz 1220z	10/08	Weak 4m28s		PLdn	MON
13976kHz 1230z	10/08	Weak 4m28s		PLdn	MON
13376kHz 1240z	10/08	Weak 4m28s		PLdn	MON
12176kHz 1250z	10/08	Weak 4m28s		PLdn	MON
15876kHz 1200z	15/08	V.Weak 4m28s		PLdn	SAT
14876kHz 1210z	15/08	Weak 4m28s		PLdn	SAT
14376kHz 1220z	15/08	Weak 4m28s		PLdn	SAT
13976kHz 1230z	15/08	Weak 4m28s		PLdn	SAT
13376kHz 1240z	15/08	Fair 4m28s		PLdn	SAT
12176kHz 1250z	15/08	Fair 4m28s		PLdn	SAT
15876kHz 1200z	17/08	NOT MONITORED		PLdn	MON
14876kHz 1210z	17/08	NOT MONITORED		PLdn	MON
14376kHz 1220z	17/08	NOT MONITORED		PLdn	MON
13976kHz 1230z	17/08	NOT MONITORED		PLdn	MON
13376kHz 1240z	17/08	NOT MONITORED		PLdn	MON
12176kHz 1250z	17/08	NOT MONITORED		PLdn	MON

15876kHz 1200z	22/08	Weak	2m15s			PLdn	SAT
14876kHz 1210z	22/08	Weak	2m15s			PLdn	SAT
14376kHz 1220z	22/08	Strong	2m15s			PLdn	SAT
13976kHz 1230z	22/08	Strong	2m15s			PLdn	SAT
13376kHz 1240z	22/08	V.weak		Unworkable	QRM4	PLdn	SAT
12176kHz 1250z	22/08	Fair	2m15s	11s after shutdown two 1042Hz tones sent [See 1220z 20/07]		PLdn	SAT
15876kHz 1200z	24/08	Weak	4m26s			PLdn	MON
14876kHz 1210z	24/08	Weak	4m26s			PLdn	MON
14376kHz 1220z	24/08	Weak	4m26s			PLdn	MON
13976kHz 1230z	24/08	Weak	4m26s			PLdn	MON
13376kHz 1240z	24/08	Weak	4m26s			PLdn	MON
12176kHz 1250z	24/08	Fair	4m26s	QSB3		PLdn	MON
15876kHz 1200z	29/08	NRH				PLdn	SAT
14876kHz 1210z	29/08	V.weak				PLdn	SAT
14376kHz 1220z	29/08	Weak	4m26s			PLdn	SAT
13976kHz 1230z	29/08	Weak	4m26s	Local QRM3/4		PLdn	SAT
13376kHz 1240z	29/08	Weak	4m26s			PLdn	SAT
12176kHz 1250z	29/08	Fair	4m26s			PLdn	SAT
15876kHz 1200z	31/08	NRH				PLdn	MON
14876kHz 1210z	31/08	NRH				PLdn	MON
14376kHz 1220z	31/08	Weak	1m40s			PLdn	MON
13976kHz 1230z	31/08	Weak	1m40s			PLdn	MON
13376kHz 1240z	31/08	Weak	1m40s			PLdn	MON
12176kHz 1250z	31/08	Fair	1m40s			PLdn	MON

**EARLY TRANSMISSIONS 0500 to 0540z SUN/TUE [fm H-FD]**

Tue 07.07.2020 0500Z 11168 msg
Tue 07.07.2020 0510Z 11468 msg
Tue 07.07.2020 0520Z 12168 msg
Tue 07.07.2020 0530Z 13368 msg
Tue 07.07.2020 0540Z 13968 msg
Tue 07.07.2020 0550Z 14568 msg

Sun 02.08.2020 0540Z 14459 msg
Tue 04.08.2020 0500Z 11559 msg
Tue 04.08.2020 0510Z 12159 msg
Tue 04.08.2020 0520Z 13459 msg
Tue 04.08.2020 0530Z 13959 msg
Tue 04.08.2020 0550Z 14959 msg

# X06 Mazeilka

**X06 Mazielka (1c) logs section**

Date	Day	UTC	Freq	Scale	Monitor	Comments
20200630	Tue	0353	11559	1--6--	Dave/AU	X06b before XPB (SDR)
20200702	Thu	0929-0936	18197	645321	Dave	Alert 2 (TX to HoChiMinhCity, G410) 1
20200702	Thu	0938-0945	16103	645321	Dave	2.2 (SDR) (1)
20200704	Sat	1117	12176	1--6--	Dave	X06b before XPB (SDR)
20200704	Sat	1118/1121	13976	1--6--	Dave	X06b before XPB (SDR)
20200704	Sat	1120	14376	1--6--	Dave	X06b before XPB (SDR)
20200704	Sat	1121	14876	1--6--	Dave	X06b before XPB (SDR)
20200704	Sat	1143/1145	12176	1--6--	Dave	X06b before XPB or E07
20200705	Sun	0517/0519	10217	1--6--	Dave	X06b before M12 (SDR)
20200706	Mon	0807-0811	12199	532614	Ary/NL	TX to Paris, G4
20200706	Mon	0812	13953	1--6--	Dave	X06b before XPA2 (SDR)
20200707	Tue	0406/0414	11468	1--6--	Dave	X06b before XPB (SDR)
20200707	Tue	0407/0415	11168	1--6--	Dave	X06b before XPB (SDR)
20200707	Tue	0411	13368	1--6--	Dave	X06b before XPB (SDR)
20200707	Tue	0412	12168	1--6--	Dave	X06b before XPB (SDR)
20200707	Tue	1145-1152	17454	325614	Dave, Ary	TX to Nairobi, G392
20200708	Wed	0600	12148	1--6--	Dave	X06b before XPA2
20200708	Wed	0602	12148	1----	Dave	X06b single tone before XPA2
20200708	Wed	1217	14377	1----	Dave	X06b single tone (SDR)
20200709	Thu	0759/0805	11545	1--6--	Ary	X06b before XPA2
20200709	Thu	13445 0806		1--6--	Ary	X06b before XPA2
20200710	Fri	0831-0844	12177	356412	Ary	TX to Berlin, G126
20200711	Sat	0651	14873	1616--	Dave	X06b before E07a
20200711	Sat	0651	13973	1616--	Dave	X06b before E07a
20200711	Sat	0652	12173	1616--	Dave	X06b before E07a
20200711	Sat	0653/0659	14873	1--6--	Dave	X06b before E07a (SDR)
20200711	Sat	0654/0658	13973	1--6--	Dave	X06b before E07a (SDR)
20200711	Sat	0654/0659	12173	1--6--	Dave	X06b before E07a (SDR)
20200711	Sat	0701/0705	13973	1--6--	Dave	X06b before E07a (SDR)
20200711	Sat	0702/0705	12173	1--6--	Dave	X06b before E07a (SDR)
20200711	Sat	1056	13976	1616--	Dave	X06b before XPB (SDR)
20200711	Sat	1057	14376	1616--	Dave	X06b before XPB (SDR)
20200711	Sat	1058	14876	1616--	Dave	X06b before XPB (SDR)
20200711	Sat	1100	15876	1616--	Dave	X06b before XPB (SDR)
20200711	Sat	1138	10276	1--6--	Dave	X06b before E07 (SDR)
20200711	Sat	1140	11576	1--6--	Dave	X06b before E07 (SDR)
20200711	Sat	1142/1143	11576	1--6--	Dave	X06b before E07 (SDR)
20200711	Sat	1144	10276	1--6--	Dave	X06b before E07 (SDR)
20200711	Sat	1150	11576	1616--	Dave	X06b before E07 (SDR)

20200711	Sat	1151	12176	1616--	Dave	X06b before E07 (SDR)
20200711	Sat	1155	10276	1--6--	Dave	X06b before E07 (SDR)
20200711	Sat	1156	11576	1--6--	Dave	X06b before E07 (SDR)
20200714	Tue	0356	13969	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0356	13368	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0357	12168	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0401	11468	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0402	11168	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0420/0425	13969	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0421	13368	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0427	12168	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0427	11468	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0428	11168	1--6--	Dave	X06b before XPB (SDR)
20200714	Tue	0436-0439	12167	341265	Dave	Rare scale, R (SDR)
20200714	Tue	0811	16257	542136	Dave	TX to Beijing, G88 (SDR)
20200715	Wed	0643-0653	14405	256341	Dave	Alert 3 (TX to Beirut, G169)1(SDR)
20200715	Wed	0654-0700	13838	256341	Dave	3.2 (SDR) (2)
20200715	Wed	0704-0705	14405	256341	Dave	3.3 (SDR)
20200715	Wed	0758	16296	1--6--	Dave	X06b before XPA2 (SDR)
20200715	Wed	1108-1121	14650	215346	Dave	Alert 2 (TX to Mumbai, G167)1(SDR)
20200715	Wed	1121-1133	16115	215346	Dave	2.2 (SDR)
20200715	Wed	1229-1239	16103	231654	Dave	TX to Abuja, G423 (new) (SDR) (3)
20200717	Fri	2108	9267	1----	Ary	X06b single tone before M12
20200718	Sat	1108	12176	1--6--	Ary	X06b before E07
20200718	Sat	1109/1114	13376	1--6--	Dave	X06b before XPB (SDR)
20200718	Sat	1110/1115	13976	1--6--	Dave	X06b before XPB (SDR)
20200718	Sat	1111/1116	14376	1--6--	Dave	X06b before XPB (SDR)
20200718	Sat	1111/1116	14876	1--6--	Dave	X06b before XPB (SDR)
20200718	Sat	1112/1117	15876	1--6--	Dave	X06b before XPB (SDR) 9
20200718	Sat	1113	12176	1--6--	Ary	X06b before E07
20200718	Sat	1121/1124	12176	1--6--	Ary	X06b before E07
20200719	Sun	1952/1956	13394	1--6--	LU5EMM	X06b before XPA2
20200721	Tue	0920-0927	14812	246531	Dave	Alert 2 (TX to Accra, G153) 1 (SDR)
20200721	Tue	0932-0945	18206	246531	Dave	2.2 (SDR)
20200721	Tue	1205-1207	14942	325614	Dave	TX to Nairobi, G400
20200724	Fri	0516	15920	216435	Dave	TX to Daka, G336 (SDR)
20200725	Sat	1109	14376	1--6--	Dave	X06b before XPB (SDR)
20200725	Sat	1110	14876	1--6--	Dave	X06b before XPB (SDR)
20200725	Sat	1132	13376	1--6--	Dave	X06b before XPB (SDR)
20200725	Sat	1139	10276	1--6--	Dave	X06b before E07 (SDR)
20200725	Sat	1139	11576	1--6--	Dave	X06b before E07 (SDR)
20200725	Sat	1140	12176	1--6--	Dave	X06b before E07 (SDR)
20200725	Sat	1255	12176	6--1--	Ary	X06b before E07
20200726	Sun	1126-1134	14865	261453	Dave	TX to Cairo, G285 (SDR) (4)
20200727	Mon	0804-0815	13423	421635	Dave	TX to Oslo, G220(5)
20200727	Mon	0816-0819	13940	156234	Dave	Alert 3 (TX to Kampala, G203)1(SDR)
20200727	Mon	0820-0839	14871	156234	Dave	3.2 (SDR) (6)
20200727	Mon	0840-0852	13972	431625	Dave	Alert2(TX to Warsaw,G221)1(SDR) (7)
20200727	Mon	0852-0854	12109	431625	Dave	2.2 (SDR)
20200727	Mon	0852-0857	14871	156234	Dave	3.3 (SDR)
20200727	Mon	0854-1044	10320	6--1--	Dave	Very long X06b (SDR)
20200801	Sat	0826	14372	1--6--	Dave	X06b before XPA2 (SDR)
20200801	Sat	0826	13372	1--6--	Dave	X06b before XPA2 (SDR)
20200801	Sat	0827	12172	1--6--	Dave	X06b before XPA2 (SDR)
20200801	Sat	1123	13376	1--6--	Dave	X06b before XPB (SDR)
20200801	Sat	1124	12176	1--6--	Dave	X06b before XPB (SDR)
20200801	Sat	1134/1138	12176	1--6--	Dave	X06b before XPB (SDR)
20200803	Mon	0648-0653	10161	165324	Dave	TX to Vienna, G1 (SDR) (8)
20200803	Mon	0731-0734	14377	432516	Dave	TX to Bern, G6 (SDR) (9)
20200803	Mon	0803-0806	11438	532614	Dave	TX to Paris, G4 (SDR)
20200805	Wed	1229-1232	16103	231654	Dave	TX to Abuja, G422 (SDR)
20200806	Thu	1118-1121	12207	215346	tiNG	TX to Mumbai, S9, G41
20200806	Thu	1231-1234	16132	352416	Dave	TX to Dar Es Salaam, G43 (SDR)
20200808	Sat	0729/0730	12172	1--6--	tiNG	X06b before XPA2 with S9
20200808	Sat	0735-0736	12172	1--6--	tiNG	X06b before XPA2 with S9
20200808	Sat	0739-0740	12172	1--6--	tiNG	X06b before XPA2 with S9
20200808	Sat	0914-0930	16277	436512	Dave	TX to Harare, G424 (new) (SDR) (10)
20200808	Sat	1102-1143	11413	436512	Dave	TX to Harare, G424 (SDR) (10)
20200808	Sat	1107	15876	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1111	13376	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1112	13976	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1113	14376	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1115	14876	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1116	15876	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1121	13976	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1122	14376	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1123	14876	1--6--	Dave	X06b before XPB (SDR)
20200808	Sat	1124	15876	1--6--	Dave	X06b before XPB (SDR)
20200809	Sun	2005/2009	12159	1--6--	LU5EMM	X06b before XPA2m with QSA4
20200810	Mon	0813	17475	156234	Dave	TX to Kampala, G68 (SDR)
20200810	Mon	0848-0921	10372	431625	Dave	TX to Warsaw, G75 (SDR)
20200810	Mon	0929-0933	13517	463125	Dave	TX to Rabat, G77 (SDR)
20200810	Mon	1240-1242	12177	364152	Dave	TX to New Delhi, G73 (SDR)
20200812	Wed	0926-0943	11153	465132	Dave	TX to Sofia, G100 (SDR)

20200812	Wed	1146-1200	14944	621543	Dave	TX to Lisbon, G102 (SDR)
20200813	Thu	0807	16190	123456	Dave	X06c (SDR)
20200813	Thu	0908-1251	14875	123456	Ary, Dave	X06c, very long(11)
20200814	Fri	0829-0831	12177	356412	Ary	TX to Berlin, G126
20200816	Sun	1953/1959	12159	1--6--	LU5EMM	X06b before XPA2m with QSA4
20200817	Mon	0646-0651	10161	165324	Dave	TX to Vienna, G145 (SDR)
20200817	Mon	0740-0748	11562	432516	Dave	TX to Bern, G341 (SDR)
20200817	Mon	0815-0827	12199	532614	Ary, Dave	TX to Paris, i. p., G147
20200818	Tue	0409	11559	1-61-6	Dave	X06b before XPB (SDR) (12)
20200818	Tue	0410	12159	1-61-6	Dave	X06b before XPB (SDR)
20200818	Tue	0411	13459	1-61-6	Dave	X06b before XPB (SDR)
20200818	Tue	0412	13959	1-61-6	Dave	X06b before XPB (SDR)
20200818	Tue	0413	14559	1-61-6	Dave	X06b before XPB (SDR)
20200818	Tue	0418	11559	1--6--	Dave	X06b before XPB (SDR)
20200818	Tue	0419	12159	1--6--	Dave	X06b before XPB (SDR)
20200818	Tue	0420	13459	1--6--	Dave	X06b before XPB (SDR)
20200818	Tue	0420	13959	1--6--	Dave	X06b before XPB (SDR)
20200818	Tue	0422	14459	1--6--	Dave	X06b before XPB (SDR)
20200818	Tue	0422	14959	1--6--	Dave	X06b before XPB (SDR)
20200818	Tue	0425	11559	1-61-6	Dave	X06b before XPB (SDR) (12)
20200818	Tue	0917	14812	246531	Dave	TX to Accra, G153 (SDR)
20200824	Mon	0803-0808	11537	421635	Dave	TX to Oslo, G220 (SDR)
20200824	Mon	0912-0920	17475	156234	Dave	TX to Kampala, G203 (SDR) (13)
20200824	Mon	1244-1249	12177	364152	Dave	TX to New Delhi, G73 (SDR)
20200826	Wed	0608	12152	61---6	Dave	X06b before XPA2 (SDR)
20200828	Fri	0456-0504	13510	216435	Dave	Alert 4 (TX to Dhaka, G336) 1 (SDR)
20200828	Fri	0504-0509	15920	216435	Dave	4.2 (SDR)
20200828	Fri	0512-0520	15920	216435	Dave	4.3 (SDR)
20200828	Fri	0520-0523	11095	216435	Dave	4.4 (SDR)
20200831	Mon	0614	12152	61---6	Dave	X06b before XPA2 (SDR)

- 1) Carrier + spurious 1kHz either side different transmitter
- 2) Jammed and interfered with by Manara Radio Nigeria on 13840 kHz
- 3) Spurious images + 1.5 kHz of 16103 and below the carrier
- 4) Spurious on 14867.5 and 14867.7 kHz
- 5) Spurious signals +/- 1, 2, 3 and 4 kHz
- 6) Interference from TWN Sound of Hope on 14870 kHz
- 7) Spurious signals +/- 1, 2, 3 and 4 kHz
- 8) With spurious +/- 1 kHz either side of carrier
- 9) Lots of spurious
- 10) Not normally scheduled for Saturday
- 11) Spurious signals +/- 1 kHz each side of the carrier
- 12) Strong interference from All India Radio on 11560 kHz
- 13) Break and restart at 0915 UTC

Many thanks especially to Dave in Australia, but of course to all other contributors too.

Till the next edition I say: good-bye, stay well and healthy!

Jochen Numbers-, X06 Database and Teamkopf

*Thanks Jochen and your correspondents*

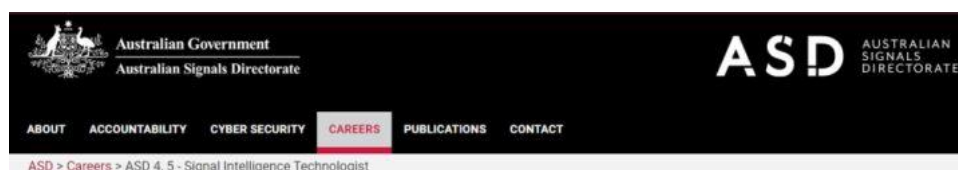


# Hybrids

## HM01

10715kHz2200z	05/07 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	SUN
10715kHz2200z	12/07 (01441 68532 35731 30038 48409 70208) QSA3	DanAR	SUN
10715kHz2200z	22/07 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	WED
10715kHz2200z	10/08 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	MON
10715kHz2200z	19/08 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	WED
10715kHz2200z	23/08 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	SUN
10715kHz2200z	30/08 (01441 68532 35731 30038 48409 70208) QSA3	DanAR	SUN
11635kHz2100z	08/07 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	WED
11635kHz2100z	12/08 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	WED
16180kHz2100z	04/07 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	SAT
17480kHz2200z	02/07 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	THU
17480kHz2200z	21/07 (01441 68532 35731 30038 48409 70208) QSA2	DanAR	TUE

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## PoSW's Items of Interest in the Media:-

As seems to be the case with a lot of people these days I am avoiding the mainstream media as much as possible. On those occasions when I have been tempted to check out the news on radio and TV I find that it is always the same old same old; the loss of our freedoms which we are never going to get back all down to the COVID 19 virus, the political class wasted no time in bringing in the kind of authoritarian regime they have always wanted but not had an excuse to implement until now, and of course the black supremacist agenda which has been making the headlines for months now continues apace.

Apparently I am supposed to feel guilty and apologise over and over again for the African slave trade of two hundred years ago. Well, I don't and I am not going to. Like most ordinary everyday folks no-one in my family had anything to do with the slave trade and the vast majority of working people in this country existed in appalling conditions until well into the twentieth century especially in the factories, mines and mills after the Industrial Revolution and for decades afterwards, see the works of Charles Dickens and George Orwell's *Down and Out in Paris and London* and *The Road to Wigan Pier* for further details.

One only has to look at the dates on tombstones from the 1800's in an English churchyard and see the number of individuals who died in their thirties and forties to see that life was not a riot of fun.

Those of us with remote Scottish ancestry might recall how our forebears were evicted from their land in a period of Scottish history known as "The Highland Clearances", which followed the defeat of the Jacobite Rising in 1745-6, and went on for many years. Large numbers of Scots were shipped out to the British colonies in Canada and in the early years to America as indentured labourers, just half a notch above slaves.

The rest were dispersed all over the United Kingdom. No one has ever suggested that the descendants of the Scottish crofters should receive compensation for the treatment of their forebears although the Scottish National Party who rule the roost north of the border did make some half-hearted noises regarding land reform and the breaking up of the vast country estates in Scotland some years ago but that was because the SNP are motivated by one thing and one thing only, namely, hatred of the English and they believed that the agricultural, forest and moor land in Scotland were all owned by wicked English Tories.

When they did their research and discovered that a large part of rural Scotland has been sold to Arab oil sheiks, Chinese billionaires and land investment corporations based in the EU the idea was quietly dropped.

However, rant over and to return to the subject in hand, I have only bought one newspaper in the last couple of months because the the print media are just as keen to convince me I am a bad person for being a white male just as is the case with radio and TV. The last paper I purchased was a copy of *The Times* on 15-July which contained a story with espionage connections - to do with Iran, not a country very high on one's "must visit" list, I would think. "Iran executes 'CIA spy' accused of selling missile secrets", is the headline over an article written by Hannah Lucinda Smith, which says, "Iran has executed a former defence ministry employee after he was convicted of selling secrets about the country's missile programme to the CIA.

Reza Asgari, who had retired from the ministry's aerospace department in 2016 after working there for 'many years', is the second person to be executed for espionage in the past month.

'After retirement he joined the CIA and because he was familiar with our missile activities, he sold some of them to the CIA and received money,' Gholam-Hossein Esmaili, the judiciary's spokesman, said. 'He was identified, arrested, tried and sentenced to death. His sentence was carried out last week.'

In June, Jalal Haji Zafar, also a former defence ministry employee, was hanged at a prison near Tehran after admitting in court that he had passed secrets to the CIA. His wife was sentenced to 15 years in prison.

Iran has faced a series of explosions at energy installations and nuclear research facilities, most recently at a gas plant in the eastern province of Razavi Khorasan.

The government claims all were accidents but there is suspicion that some resulted from sabotage. An explosion at the Natanz nuclear plant, in a building where centrifuges were made, may have delayed Iran's nuclear programme by two years, with claims that Israel was responsible. Although the executions of the men have not been explicitly linked to the explosions, the timing may be intended as a warning to others. Last year Iran said it had arrested 17 CIA spies. In an unrelated case, two Kurdish prisoners named as Saber Sheikh-Abdullah and Diako Rasoulzadeh were executed yesterday. They had denied bombing a parade in 2010.

Point to ponder:- "The nine most terrifying words in the English language are, 'I'm from the government and I'm here to help.'" - spoken by Ronald Reagan, 40<sup>th</sup> President of the United States.

Thanks PoSW. *My wife's past families were indentured workers in the Caribbean, which given your mention of Scot indentured workers explains the spread of those expected surnames. A friend of mine, a light skinned Grenadian, has the middle name 'McDonald.'* He says his great Grandmother offered herself as payment for he husband to get work on building roads and the resulting child took the surname of the denying father!

# The Spectre's Enigma News Articles August 2020

Japan Times <https://www.japantimes.co.jp/news/2020/07/25/asia-pacific/us-china-consulate-closures/>

## U.S.-China ties fray as two powers trade tit-for-tat consulate closures

HOUSTON – U.S.-China relations deteriorated in a Cold War-style standoff Friday as Beijing ordered a U.S. Consulate to shut in retaliation for the closure of its Houston mission — accused of being a hub for espionage and intellectual property theft.

Chinese officials were seen loading large sacks of objects and documents onto U-Haul trucks and tossing more into dumpster bins at the country's large mission in the Texas city, given a Friday deadline to vacate the building.

After the last of Beijing diplomats departed, law enforcement cordoned off the area and U.S. officials were seen entering the consulate after using tools to force open a door.

In the Chinese city of Chengdu, in southwestern Sichuan province, some two dozen police were stationed in front of the U.S. Consulate as onlookers took photos before being prodded to move along, with the deadline for the Americans to vacate unclear.

Washington officials said the level of unacceptable efforts to steal U.S. corporate secrets and proprietary medical and scientific research from the Houston mission had grown too large to ignore.

“Our action to direct the closure of PRC Consulate General in Houston was taken to protect American intellectual property and Americans’ private information,” White House National Security Council spokesman John Ulyot said.

For years, he said, the Chinese Communist Party “has undertaken a whole-of-society effort to steal American technology and intellectual property for commercial gain, and many of these activities are directed from PRC diplomatic facilities.” Underscoring the point, on Friday the Justice Department announced that a Singaporean “political consultant” based in Washington had pleaded guilty to recruiting American targets for Chinese intelligence.

And it said that a science researcher at a California university who hid her ties to China’s People’s Liberation Army and then fled to the Chinese consulate in San Francisco had been arrested and would face visa fraud charges.

China blasted the Houston move and blamed Washington for the sharp deterioration in relations.

Closing the Chengdu consulate was a “legitimate and necessary response to the unreasonable measures by the United States”, the Foreign Ministry said in a statement.

“The current situation in China-U.S. relations is not what China desires to see, and the U.S. is responsible for all this,” it said.

Foreign Ministry spokesman Wang Wenbin told reporters that some U.S. staff in the Chengdu consulate, near Tibet, “were engaged in activities outside of their capacity, interfered in China’s internal affairs, and endangered China’s security and interests.” The Chengdu consulate, established in 1985, has been at the center of past controversy. It was included on a top-secret map leaked by intelligence analyst Edward Snowden showing U.S. surveillance worldwide.

The Chengdu mission was also where senior Chinese official Wang Lijun fled in 2012 from his powerful boss Bo Xilai, who was then head of the nearby metropolis Chongqing, and has since been jailed for life for corruption.

The deepening spat followed a torrent of speeches by top American officials attacking Beijing, and a series of arrests of Chinese nationals in the United States on spying, intellectual property theft and visa fraud charges.

In a strident policy speech in California on Thursday, Secretary of State Mike Pompeo called on “free nations” to triumph over the threat of what he said was a “new tyranny” from China.

“Today, China is increasingly authoritarian at home, and more aggressive in its hostility to freedom everywhere else,” Pompeo said.

“If the free world doesn’t change Communist China, Communist China will change us,” he said.

He accused Chinese President Xi Jinping of being a “true believer” in the “bankrupt” totalitarian Marxist-Leninist ideology.

“His ideology informs his decades-long desire for global hegemony built on Chinese Communism,” Pompeo said.

The two nations have increasingly tussled over a plethora of issues, including China’s handling of the coronavirus pandemic and its efforts to quash a democracy movement in Hong Kong.

In a video call with his German counterpart, Foreign Minister Wang Yi said China still hopes to have mutually respectful cooperation with the U.S. but stands ready to firmly safeguard its national sovereignty and dignity.

“China will not follow the U.S.’s dance, but will also never tolerate the U.S.’s reckless behavior,” Wang said.

Victor Shih, associate professor of political science at University of California, San Diego, said that closing Chengdu instead of a higher profile U.S. mission indicated Beijing was trying to avoid derailing ties completely.

“This response potentially allows the two sides to take a breather in this escalation, and provides room for the Trump administration to assess whether further straining ties with the U.S.’s largest trading partner in an economic downturn is advisable,” Shih said.

But Washington officials told reporters in a conference call Friday that U.S. policy had shifted and that they want China to end its broad efforts to steal U.S. intellectual property and stop abusing U.S. openness.

“There comes a time when you have to say, enough is enough,” said a senior State Department official, who insisted on anonymity.

“This is part of a deliberate effort by the U.S. government to put this relationship on solid footing, footing that is balanced, that respects the interests of both sides.”

Japan Times <https://www.japantimes.co.jp/news/2020/08/08/business/tech/tiktok-wechat-bans-us-security-experts/>

## **TikTok and WeChat bans not crucial to U.S. security, experts say**

WASHINGTON – The U.S. bans on Chinese apps TikTok and WeChat are not particularly valuable for U.S. security, experts said Friday, but could step up broader commercial pressure on Beijing and help President Donald Trump appear tough as he seeks re-election.

In announcing the bans — to take effect in 45 days — Trump declared Thursday that Chinese mobile apps “threaten the national security, foreign policy, and economy of the United States.”

Data collection by the apps, he argued “threatens to allow the Chinese Communist Party access to Americans’ personal and proprietary information,” which he said could be used for espionage, blackmail, and to track Chinese nationals inside the U.S.

But cybersecurity specialists say the benefits to the ban are minimal and don’t solve any immediate threats.

The WeChat ban especially, they say, actually harms a large number of Chinese Americans, U.S.-based Chinese, and businesses working with China, all for whom the app is essential to communications.

Both apps collect huge amounts of data on hundreds of millions of users.

An all-in-one tool, WeChat provides messaging, financial transactions, group chats, and social media, all of which is stored on Chinese servers that a 2017 security law says must be accessible by Chinese intelligence.

TikTok, a simple app for making and sharing short videos, meanwhile mines users’ accounts and phones for lots of identifying information.

“WeChat is bad,” said Nicholas Weaver, a lecturer in computer security at the University of California, Berkeley.

“It uses encrypted links to WeChat’s servers in China ... but the servers see all messages, so the Chinese government can see any message it wants,” he said.

However, Weaver said, there few alternatives if you want to communicate widely with people in China, from inside or outside the country.

“So by banning WeChat, it is really about stopping U.S. persons from being able to communicate with friends and relatives in China, which is an awful idea.”

As for TikTok, it is hardly different from popular U.S. social media, he said, “a massive data-sucking operation.”

TikTok denies having provided data to the Chinese government, and says it would not do so if asked — but Weaver is doubtful of that claim.

“Of course the Chinese government can access that information, just as the U.S. government can access any information collected by Facebook.”

None of that constitutes a particular security risk if people are aware, Weaver said.

The best approach, he said, “is not blanket bans but better policy and communication: Communicate to U.S. business what the risks are, and configure government systems to avoid the risks.”

“This is so clearly a political rather than a security concern,” said Weaver.

“The real security threats — and they are real — are best addressed and have been addressed far more quietly,” he said.

As U.S. intelligence said Friday that China is opposing Trump’s re-election in November, analysts saw the bans as motivated at least in part by the U.S. leader’s desire to show he is taking a hard line on Beijing.

Adam Segal, director of the Digital and Cyberspace Policy Program at the Council on Foreign Relations, said neither WeChat or TikTok should be on the telephones of government officials due to the security risk — the argument invoked by the Republican-led Senate in voting to bar TikTok from government employees’ phones.

But a blanket ban “does not strike me as being an essential action to increase U.S. cybersecurity,” Segal said.

Trump’s motivation “seems to be driven both by a sense of technological competition with the Chinese and his desire to show he is being tough on China in the runup to the election.”

Segal noted that the Trump administration doesn’t say what it expects from Beijing.

“They have very clearly laid out that we are going to compete with China and that we need to push back,” he said.

“But it is not clear what it is China is supposed to do or what behaviors we want to see.”

Spectre Note: WeChat is widely used in China as opposed to the likes of Facebook. My wife regularly uses the app to keep in contact with friends and family living in China and in Canada. I’ve used the app myself sometimes when my wife went over there for a holiday. Banning the app would be a major blow to Chinese nationals living worldwide.

Justice.gov <https://www.justice.gov/opa/pr/former-cia-officer-arrested-and-charged-espionage>

### **Former CIA Officer Arrested and Charged with Espionage**

Alexander Yuk Ching Ma, 67, a former Central Intelligence Agency (CIA) officer, was arrested on Aug. 14, 2020, on a charge that he conspired with a relative of his who also was a former CIA officer to communicate classified information up to the Top Secret level to intelligence officials of the People’s Republic of China (PRC). The Criminal Complaint containing the charge was unsealed this morning.

Assistant Attorney General for National Security John C. Demers, U.S. Attorney for the District of Hawaii Kenji M. Price, Assistant Director of the FBI’s Counterintelligence Division Alan E. Kohler Jr., and Special Agent in Charge of the FBI’s Honolulu Field Office Eli S. Miranda made the announcement.

“The trail of Chinese espionage is long and, sadly, strewn with former American intelligence officers who betrayed their colleagues, their country and its liberal democratic values to support an authoritarian communist regime,” said Assistant Attorney General for National Security John C. Demers. “This betrayal is never worth it. Whether immediately, or many years after they thought they got away with it, we will find these traitors and we will bring them to justice. To the Chinese intelligence services, these individuals are expendable. To us, they are sad but urgent reminders of the need to stay vigilant.”

“The charges announced today are a sobering reminder to our communities in Hawaii of the constant threat posed by those who seek to jeopardize our nation’s security through acts of espionage,” said U.S. Attorney Price. “Of particular concern are the criminal acts of those who served in our nation’s intelligence community, but then choose to betray their former colleagues and the nation-at large by divulging classified national defense information to China. My office will continue to tenaciously pursue espionage cases.”

“This serious act of espionage is another example in a long string of illicit activities that the People’s Republic of China is conducting within and against the United States,” said Alan E. Kohler Jr., Assistant Director of the FBI’s Counterintelligence Division. “This case demonstrates that no matter the length or difficulty of the investigation, the men and women of the FBI will work tirelessly to protect our national security from the threat posed by Chinese intelligence services. Let it be known that anyone who violates a position of trust to betray the United States will face justice, no matter how many years it takes to bring their crimes to light.”

“These cases are very complicated and take years if not decades to bring to a conclusion,” said Eli Miranda, Special Agent in Charge of the FBI’s Honolulu Division. “I could not be more proud of the work done by the men and women of the FBI’s Honolulu Division in pursuing this case. Their dedication is a reminder that the FBI will never waiver when it comes to ensuring the safety and security of our nation.”

Ma is a naturalized U.S. citizen born in Hong Kong. According to court documents, Ma began working for the CIA in 1982, maintained a Top Secret clearance, and signed numerous non-disclosure agreements in which he acknowledged his responsibility and ongoing duty to protect U.S. government secrets during his tenure at CIA. Ma left the CIA in 1989 and lived and worked in Shanghai, China before arriving in Hawaii in 2001.

According to court documents, Ma and his relative (identified as co-conspirator #1) conspired with each other and multiple PRC intelligence officials to communicate classified national defense information over the course of a decade. The scheme began with three days of meetings in Hong Kong in March 2001 during which the two former CIA officers provided information to the foreign intelligence service about the CIA’s personnel, operations, and methods of concealing communications. Part of the meeting was captured on videotape, including a portion where Ma can be seen receiving and counting \$50,000 in cash for the secrets they provided.

The court documents further allege that after Ma moved to Hawaii, he sought employment with the FBI in order to once again gain access to classified U.S. government information which he could in turn provide to his PRC handlers. In 2004, the FBI’s Honolulu Field Office hired Ma as a contract linguist tasked with reviewing and translating Chinese language documents. Over the following six years, Ma regularly copied, photographed and stole documents that displayed U.S. classification markings such as “SECRET.” Ma took some of the stolen documents and images with him on his frequent trips to China with the intent to provide them to his handlers. Ma often returned from China with thousands of dollars in cash and expensive gifts, such as a new set of golf clubs.

According to court documents, in spring 2019, over the course of two in-person meetings, Ma confirmed his espionage activities to an FBI undercover employee. Ma believed was a representative of the PRC intelligence service, and accepted \$2,000 in cash from the FBI undercover as “small token” of appreciation for Ma’s assistance to China. Ma also offered to once again work for the PRC intelligence service. On August 12, 2020, during a meeting with an FBI undercover employee before arrest, Ma again accepted money for his past espionage activities, expressed his willingness to continue to help the Chinese government, and stated that he wanted “the motherland” to succeed.

Ma will make his initial appearance before a federal judge tomorrow in the U.S. District Court for the District of Hawaii. He is charged with conspiracy to communicate national defense information to aid a foreign government and faces a maximum penalty of life imprisonment if convicted. The maximum sentence is prescribed by Congress and is provided here for informational purposes. In the event Ma is convicted, a federal district court judge will determine any sentence after taking into account the advisory Sentencing Guidelines and other statutory factors.

The investigation was conducted by the FBI’s Honolulu and Los Angeles Field Offices. Assistant U.S. Attorney Ken Sorenson and Trial Attorneys Scott Claffee and Steve Marzen of the National Security Division’s Counterintelligence and Export Control Section are prosecuting the case.

Byline Times <https://bylinetimes.com/2020/08/18/the-body-in-the-bath-the-russian-connections-to-the-strange-unexplained-death-of-a-british-spy/>

## **THE BODY IN THE BATH**

### **The Russian Connections to the Strange, Unexplained Death of a British Spy**

“Kill them in the toilet”– “mochit v sortire”: Vladimir Putin’s most famous quote was made during a conference in Kazakhstan’s capital, Astana, in 1999. Asked a question about his counter-terrorism strategy, he snapped: “we will chase terrorists everywhere. If in an airport, then in the airport. So if we find them in the toilet, excuse me, we’ll kill them in the toilet. And that’s it, case closed.”

The phrase “mochit v sortire” has become legendary in Russia, and even has its own Wikipedia page. Translated literally, the Russian prison slang “mochit” means to “wet” or to “soak” and “sortire” is a colloquialism for “restroom” or “toilet” originating from the French expression “je dois sortir”. Author Vladimir Bukovsky, who survived the Soviet Gulag, suggested “mochit v sortire” originated from the practice of killing informants.

Ten years ago, the British spy Gareth Williams was found dead in the bathroom of a Pimlico apartment. His naked body was discovered in the foetal position inside a red North Face holdall, which was padlocked from the outside. Two keys to the padlock were under the spy’s body.

The bag itself was in the empty bathtub, where it was undisturbed for one week in August 2010, with the heating turned up. One of Williams’ iPhones was factory-reset shortly before the estimated time of his death. Even though Williams’ DNA and fingerprints were not present on the padlock, the bag’s zipper or the edges of the bath, the Metropolitan police concluded his death was probably an accident. Unsurprisingly, many questions remain.

At the time of his death, Williams was working in London on placement with MI6, the UK’s secret intelligence service. In 2017, BuzzFeed News established that Williams’ work involved looking into money-laundering methods of Russian organised crime groups. BuzzFeed News also established the contents of a classified report on Russian assassinations produced by the US Office for the Department of National Intelligence, which listed Williams’ death as one of 14 suspicious deaths linked to Russia. BuzzFeed reported: “intelligence coming in from US sources and listening posts suggested Williams was the victim of another Russian hit on British soil.”

No new findings in this story have emerged – until now. The following investigation was compiled after reviewing countless pages of financial records, newspaper archives and social media posts.

#### **The Russian Connection and Raffles Energy**

Byline Times can now reveal that in the last year of his life, Gareth Williams became close friends with a woman who during that time, co-founded a small oil company registered in Singapore called Raffles Energy.

Records show Raffles Energy is owned by Alijan Ibragimov and his son Furkhat. Alijan Ibragimov is one of the three billionaire owners of natural resources giant ENRC, which is currently being investigated in the UK for fraud and corruption. ENRC denies any wrongdoing. One of Alijan Ibragimov’s partners at ENRC serves on the board of a Government organisation with Russia’s Minister of Foreign Affairs, Sergei Lavrov.



During the 2012 inquest into the mysterious death, the coroner heard from a young American woman named Missa Elizabeth Guthrie. In the last year of his life, Gareth Williams developed a close friendship with Guthrie. In evidence she gave to the coroner's court, Guthrie said she knew Williams was a spy and confirmed that he would sometimes use another name. Guthrie, who has since been married and is named Elizabeth Guthrie-Mueller, turned down a request from Byline Times to discuss her friendship with Gareth Williams.

There is no suggestion that Guthrie-Mueller or other individuals named in this article had any connection to Williams' death. But it appears the police did not adequately explore the risk that his identity and details of his work might have ended up in the wrong hands.

Guthrie's LinkedIn profile states that from August 2009 to July 2013, she was with Raffles Energy, listing her role as 'Cofounder, Business Development & Partnerships'.

Company records show that Raffles Energy (UK) Ltd was registered in 2010, its sole shareholder was Rafiul Resources PTE Ltd in Singapore. In documents obtained from the Singapore company registry, Raffles Energy Netherlands BV is identified as the investment holding company. Finally, records from Raffles Energy Netherlands BV show that its shareholders included Alijan Ibragimov and his son Furkhat.

In December 2010, the Singapore-registered Raffles Energy appointed Lord Anthony Tudor St John, a hereditary peer in the House of Lords, and Sir Anthony Russell Brenton as directors. The latter is also better known as Sir Tony Brenton, Britain's ambassador to Russia between 2004 and 2008. Just months after the Russian state's assassination of Alexander Litvinenko, an ex-KGB officer who then worked MI6 and was a fierce critic of Vladimir Putin, Brenton appeared to downplay the significance of the killing.

Even though Litvinenko was poisoned with radioactive polonium in central London, putting an untold number of Britons at risk, Brenton said in July 2007 "we do not expect our disappointment with the Russian authorities about the Litvinenko case to affect the economic sphere... Indeed, we expect British-Russian economic ties to continue to grow".

In 2009, Sir Tony Brenton became a board member of the Russo-British Chamber of Commerce. According to its website the organisation's mission is "to promote and develop economic relations, investment and trade between the United Kingdom and the Russian Federation." After Russia's annexation of Crimea and the downing of MH17, the former ambassador wrote a letter to the Financial Times in November 2014 calling sanctions on Russia no better than "a failed drone strike".

After the 2018 nerve agent attack in Salisbury, the former ambassador was asked by the BBC about 14 deaths in the UK believed to be Russia-linked, including the death of Gareth Williams. Again, Sir Tony Brenton seemed to play down these allegations: "British police are under no sort of political pressure whatsoever... If they had found evidence of Russian involvement in those cases, we would have followed it up".

At time of publication, Brenton remains a director of Raffles Energy (UK) Ltd. Recent documents also show Raffles Energy received around £1 million in loans from Westford Capital, described as a "fellow group company" of Raffles Energy. According to documents from Luxembourg's company register, the beneficial owner of Westford Capital is Furkhat's father, Alijan Ibragimov.

#### The Energy Company with Kremlin Connections

Alijan Ibragimov is one of the three founders of Eurasian Natural Resources Corporation (ENRC). Ibragimov and his associates Alexander Machkevich and Patokh Chodiev forged a partnership in Moscow in the early 1990s. The first two men, both born in Kyrgyzstan, came from humble backgrounds; Mashkevich was an academic and Ibragimov worked in industrial plants.

Patokh Chodiev's background remains more controversial. He studied at MGIMO, the Moscow university that is reported to be a stepping stone to a career in intelligence or diplomacy. He found himself posted to Japan, working for the Soviet Ministry of Trade. He has faced persistent questions of links to the KGB, which he denies.

Chodiev is also on the board of the Gorchakov Fund, which is named in a US Senate report as part of a network of Russian Government organisations that "carry out a number of functions, from disseminating pro-Kremlin views to seeking to influence elections abroad." Russia's Minister of Foreign affairs Sergei Lavrov serves on its board together with Chodiev.

Despite the success of the ENRC business empire, its activities and the practices of its founders have not gone unquestioned. ENRC ran into trouble in the UK where it fell out of the FTSE 100 in 2013 and went private after allegations of fraud and corruption. The company has been investigated by the UK's Serious Fraud Office for the past seven years, examining allegations that ENRC gave bribes to secure important mining operations in the Democratic Republic of Congo. The group denies all the allegations against it and is currently suing the UK Serious Fraud Office for £70m for alleged wrongdoing in the way it conducted its investigation. No one has been charged except the daughter of one of the founders, Anna Machkevitch, who was found guilty of withholding evidence in the case.

These Russian connections appear not to have been discussed during the inquest into the death of Gareth Williams. One MI6 officer who appeared in court behind a screen, insisted "all staff friendships with citizens of risky foreign countries are vetted". The Metropolitan Police also concluded that there was no evidence that Gareth Williams' death was connected to his work.

#### Missing Pieces

There are several other unresolved issues with the investigation in Williams' death. It has taken years for the police to establish the identity of the "Mediterranean couple" who asked to be buzzed into the communal hall of 36 Alderney Street in June or July 2010. Detective Chief Inspector Jackie Sebire told the press in December 2010 "they intimated that they had a key to the flat and it was suggested that they had been given the key by a man called Pier Paolo".

Between September 6 2010 and March 30 2012, the Metropolitan police publicised an e-fit of a man and a woman in their 20s, but eventually announced these individuals were irrelevant to their investigation. Byline Times was able to speak to "Pier Paolo", now resident in Italy, who was living on Alderney Street at the time. He said he was contacted by police a few years after the death of Gareth Williams. He was happy to answer their questions, and officers flew to Italy and took a DNA sample.

The Met police determined the "Mediterranean couple" were two of "Pier Paolo's" friends, who rang the wrong door when looking for a party he hosted in summer 2010. Why it had taken years for the police to find the man in question is difficult to explain, especially because he confirmed the police first called on his door soon after the body of Williams was discovered.

In May 2012, Dr Fiona Wilcox: the coroner into the death of Williams determined that there was not enough evidence for the verdict that he was "unlawfully killed." She also said it was unlikely his death would ever be explained. In a speech a few months later at the Isle of Man Law Society, Dr Wilcox said:

"The over-riding purpose of the Coroner's Inquest is to try and identify factors which led to a death which can be corrected and help prevent such a death occurring again. In other words the prevention of unnecessary deaths. Its other purpose, which was demonstrated in the Diana Inquest and perhaps the inquest into Gareth Williams, is to try and quell suspicion and allay public concern about the circumstances of the death."

As we have seen, neither the inquest nor the police investigation managed to “quell suspicion or allay public concern” in the case of Gareth Williams

*Thanks Spectre*

## **Other stuff:**

### **British spy's account sheds light on role in 1953 Iranian coup Interview given by MI6 officer in 1980s was discovered in research for new documentary**

**The 1953 coup in Iran overthrew the elected prime minister and restored the shah to power.**

Julian Borger

Published on Mon 17 Aug 2020 09.40 BST

<https://www.theguardian.com/world/2020/aug/17/british-spys-account-sheds-light-on-role-in-1953-iranian-coup>

A first-hand account of Britain's role in the 1953 coup that overthrew the elected prime minister of Iran and restored the shah to power has been published for the first time.

The account by the MI6 officer who ran the operation describes how it took British intelligence years to persuade the US to take part in the coup. Meanwhile, MI6 recruited agents and bribed members of Iran's parliament with banknotes transported in biscuit tins.

Together the MI6 and CIA even recruited Shah Reza Pahlavi's sister in an effort to persuade the reluctant monarch to back the coup to overthrow Mohammad Mossadegh.

“The plan would have involved seizure of key points in the city by what units we thought were loyal to the shah ... seizure of the radio station etc ... the classical plan,” recalled Norman Darbyshire, the head of MI6's Persia station in Cyprus at the time of the coup.

Britain's role in a pivotal moment in Iran's history left an enduring mark on Iranian perceptions of Britain, but details of the role of its spies have remained obscure.

Darbyshire gave his version of events in an off-record interview with the makers of Granada TV's 1985 film *End of Empire: Iran*. He refused to appear on camera, so the interview was not used directly in the programme.

The transcript was forgotten until it was rediscovered in the course of research for a new documentary, *Coup 53*, due to be released on Wednesday, the 67th anniversary of the coup. The role of Darbyshire, who died in 1993, will be dramatised by Ralph Fiennes.

Taghi Amirani, the director of *Coup 53*, said: “Even though it has been an open secret for decades, the UK government has not officially admitted its fundamental role in the coup. Finding the Darbyshire transcript is like finding the smoking gun. It is a historic discovery.”

The typewritten transcript was published on Monday morning by the National Security Archive at George Washington University in the US.

The shah appointed Mossadegh as prime minister in April 1951 after he won overwhelming support from the Majlis, Iran's parliament. One of Mossadegh's first acts was to nationalise the Anglo-Iranian Oil Company (which later became BP), immediately creating a crisis in UK relations.

According to Darbyshire, however, the main reason MI6 wanted to get rid of Mossadegh was that Britain's spies believed his government, although it contained only one member of the communist Tudeh party, would ultimately be overwhelmed by Soviet influence.

“I really do believe it because Mossadegh was a fairly weak character,” the British intelligence officer said. “[O]nce you get highly trained members of the communist party in, it doesn't take long. We didn't share the American view that he was acting as a bulwark against communism ... we thought he would be pushed by the communists in the long run.”

In 1951 the UK's deputy prime minister, Anthony Eden, without consulting his senior officials, dispatched an academic and wartime spy, Robert Zaehner, to try to oust Mossadegh by bribing members of the Majlis and other prominent Iranians.

“Vast sums of money were being spent,” Darbyshire said. “He used to carry biscuit tins with damn great notes. I think he spent well over a million and a half pounds.”

Zaehner's attempt failed and he left the country, leaving Darbyshire to plot a more violent alternative, which he insisted ended up costing his government less. “The coup cost £700,000. I know because I spent it,” he claimed.

Darbyshire was proud of providing good value for money. At another point in the buildup to the putsch, he boasted he had extracted vital intelligence from an Iranian army commander for two pounds of Lipton tea. “He couldn't get in Persia and I got it for him and that is precisely what I paid him,” he said.

Darbyshire recruited three brothers from a wealthy anglophile family, the Rashidians, whose task it was to find other conspirators, foment unrest and serve as a conduit to the shah in Tehran.

“They were ... intrigued by being in contact with the British and delighted to take our money for something which they believed in themselves. They felt Mossadegh was very much a threat,” Darbyshire said.

The British spy also claimed credit for recruiting a pro-shah general, Fazlollah Zahedi, to lead the coup and ultimately take Mossadegh's place as prime minister.

“A coup is necessarily predicated on the use of armed force,” Darbyshire said. “Zahedi was suitable as a candidate because he had good standing. We knew the shah trusted him.”

Darbyshire's plotting was interrupted in October 1952 when Mossadegh severed relations with the UK and expelled its diplomats and spies. Darbyshire left with his coup plans in his pocket and presented them to the CIA in Beirut.

But the CIA was not yet interested, and the MI6 leadership was not prepared to move without the Americans, rather to Darbyshire's disdain.



“In the early months of 53 we were building up with the Rashidians and we thought we had enough military units to mount something, but London started getting cold feet,” he told his interviewer, adding acerbically: “Unfortunately, the head of SIS at the time, General [John] Sinclair knew about as much of the Middle East as a 10-year-old (far more interested in cricket anyway).”

The US position only changed after Dwight Eisenhower took office in January 1953. The challenge then was to persuade the young, inexperienced and nervous shah to join the conspiracy. Unless he was ready to sign decrees dismissing Mossadegh and appointing Zahedi, the coup would come to nothing.

In an effort to persuade the shah, Darbyshire and his CIA counterpart, Stephen Meade, went to Paris to see his sister, Ashraf, to talk her into flying to Tehran and assuring her brother that the US and UK were serious about the plot.

“We made it clear that we would pay expenses, and when I produced a great wad of notes her eyes alighted and she said she would just have to go to Nice for a week to clear things up,” Darbyshire said. “She was quite a flighty woman and Steve, who fancied anything, fancied her.”

Darbyshire admitted he organised the abduction of Mossadegh’s chief of police, General Mahmoud Afshartous, in April 1953, but insisted it was never intended that he be killed – a murder that fuelled the instability leading up to the coup

“Something went wrong: he was kidnapped and held in a cave,” he said. “Feelings ran very high and Afshartous was unwise enough to make derogatory comments about the shah. He was under guard by a young army officer and the young officer pulled out a gun and shot him. That was never part of our programme at all but that’s how it happened.”

After a few false starts, the coup succeeded on 19 August 1953. Mossadegh was put on trial and kept under house arrest until his death 14 years later. According to Darbyshire, his fate was sealed from the moment he took office.

“They would have wanted to oust Mossadegh regardless of whether he would have signed an agreement favourable to the British,” he said “Eventually they would have been forced to have considered getting rid of him to prevent a Russian takeover. I am convinced that was on the cards.”

<https://www.theguardian.com/world/2020/aug/17/british-spys-account-sheds-light-on-role-in-1953-iranian-coup>

*At the time our late member DoK was monitoring the fall of government, amongst other things. He was part of a humiliating march off when the remaining Crown personnel were required to leave. Other areas of his operations included Iraq prior to his removal to the UK. Our paths nearly crossed at Steamer Point Aden but that eventuality had to wait for a few years when we met by the TP Room of the Bridge Wireless Office. Fried breakfast being prepared on a Camping Gaz ring by the message rack .... I ask you!*

## **Radio hijacker, 25, avoids jail after causing chaos at shipping port by sending hundreds of nuisance messages on maritime frequency to hurl racist abuse and make bomb threats**

Charlie Vaughan, 25, spent three months transmitting the nuisance broadcasts  
Messages he sent included 'enjoy the bomb' and 'I am going to cut your throat'  
Broadcasts forced Southampton port authorities to talk to vessels via mobiles  
He was charged with sending malicious electronic communications  
Judge handed him 18-month prison sentence suspended for two years  
By LUKE ANDREWS FOR MAILONLINE

PUBLISHED: 11:31, 31 August 2020 | UPDATED: 13:07, 31 August 2020

<https://www.dailymail.co.uk/news/article-8681241/Radio-hijacker-25-avoids-jail-causing-chaos-shipping-port.html#comments>

A radio hijacker who stopped vessels receiving directions as they approached port by transmitting music, racist abuse and threats to make a bomb on the frequency used by maritime authorities has avoided jail.

Charlie Vaughan, 25, spent three months disrupting communications for vessels sailing into and out of Southampton port.

He sent messages including 'enjoy the bomb', 'I am going to blow up your ship' and 'I am going to cut your throat', as well as racial slurs against Polish, Chinese and black people.

Port authorities were forced to give vessels directions via mobile phones and, at one point, had to send a tug boat to pull a 1,000-foot cargo ship, one of the largest in the world, into port.

Vaughan, who is unemployed and supported by his partner, was only stopped when he was traced by Ofcom engineers.

He pleaded guilty to a charge of sending malicious electronic communications at Southampton Crown Court and was sentenced to 18 months in prison, suspended for two years. This included a six-month sentence for assaulting two emergency workers on April 29 last year.

Charlie Vaughan, 25, spent three months sending nuisance messages over the frequency used by Southampton port authorities to communicate with vessels before he was caught. (He is pictured arriving at Southampton Crown court before sentencing) +4

Charlie Vaughan, 25, spent three months sending nuisance messages over the frequency used by Southampton port authorities to communicate with vessels before he was caught. (He is pictured arriving at Southampton Crown court before sentencing)

He pleaded guilty to a charge of sending malicious electronic communications and received an 18-month sentence suspended for two years

Prosecution barrister, John Upton told the court Vaughan used special equipment to send nuisance transmissions on the same radio frequency as Vessel Traffic Services - the maritime equivalent of air traffic control.

The court heard how his actions could have easily caused a ships to sink, collide or led to people getting killed.

He sent more than 400 messages over the maritime channels between April 1 and June 27 this year.

He was only traced after Ofcom engineers got involved, and spent more than 450 hours trying to locate the source of the signals.

Sentencing him Judge Gary Burrell QC said: 'This is a very, very serious case. It endangered the safe navigating of ships on the Solent.'

He was also ordered to pay £1,335 court costs.

Vaughan is unemployed and supported by his partner. The court stated how he could have easily caused a ship to sink, collide or caused people to get killed

When he was arrested, police found him lying on his bed surrounded by three handheld radios. He had been given two by his partner as a birthday present.

He also had a selection of radio user guides and manuals.

Defence barrister Mark Florida-James said his client had mental health issues and suffers from ADHD and Asperger's syndrome.

A statement from Vaughan read on his behalf said: "Sorry. I really am sorry for the upset I have caused."

<https://www.dailymail.co.uk/news/article-8681241/Radio-hijacker-25-avoids-jail-causing-chaos-shipping-port.html#comments>

Posted to us at the last moments we are happy to include a balanced report from BBC Russia [Moscow]:

## Alexei Navalny: Two hours that saved Russian opposition leader's life

By BBC Russian  
Moscow

Published 8 hours ago [04/09/2020]

<https://www.bbc.co.uk/news/world-europe-54012278>

Russian opposition leader Alexei Navalny is in a coma in a Berlin hospital, and Germany has revealed he was poisoned by a Novichok nerve agent. He was taken ill on board a return flight from Siberia to Moscow and the plane made an emergency landing in Omsk. Two days later Russian officials were persuaded to let him be airlifted to Germany. BBC Russian has pieced together the story of how flight attendants and medics fought to save his life over the skies of Siberia. This is the dramatic two-hour timeline of that perilous journey.

### How the morning unfolded

It was 20 August, and Alexei Navalny was taking an S7 airlines flight from Tomsk to Moscow. He didn't eat or drink anything all morning - apart from a cup of tea he bought at Tomsk Bogashevo airport, according to his press secretary Kira Yarmysh.

Another passenger on the flight, Ilya Ageev, saw Mr Navalny drinking the tea about an hour before the plane was due to take off.

The Kremlin critic was smiling and joking with fellow passengers who recognised him.

Graphic - 08:01

During the first half hour of the flight, Mr Navalny started to feel unwell. Flight attendants were handing water out to passengers, but he turned it down. He then got up to go to the toilet.

08:30

Another passenger tried to use the toilet at the same time, but Alexei Navalny was inside for about 20 minutes. A queue began to form outside the door.

08:50

By now all four flight attendants on board were aware one of their passengers was unwell.

09:00

Minutes later, a flight attendant made an announcement asking if any doctors were on board. The other passengers now realised the situation was serious.

The rest of the cabin crew informed the pilot and tried to administer first aid to Mr Navalny.

His assistant, Ilya Pakhomov, walked down the aisle appealing for medical assistance. A woman, who hasn't been identified, came forward to say she was a nurse.

For the next hour she and the flight attendants focused on keeping Mr Navalny conscious until the pilot could make an emergency landing, according to S7 airlines.

'He wasn't speaking - he was just screaming'

Sergey Nezhenets, a lawyer, was sitting in the back row close to where Mr Navalny was being treated. He was due to transfer in Moscow before flying on to Krasnodar in southern Russia.

"I started paying attention to what was going on when a flight attendant asked for medical professionals on board to come forward," Mr Nezhenets told the BBC. "A few minutes later, the pilot announced we would be landing in Omsk, because a passenger was unwell. I only realised the passenger in question was Navalny after we landed, when I checked Twitter and saw his spokeswoman's posts.

"A few minutes after the call-out for a doctor, Alexei started moaning and screaming. He was clearly in pain. He was lying on the floor in the part of the plane reserved for cabin crew. He wasn't saying any words - he was just screaming."

Ambulance on the runway at Omsk airport IMAGE COPYRIGHT ILYA AGEEV

That was when a nurse went forward to offer medical assistance, he explains.

"I don't know what they were doing, I didn't see," he says. "But I heard them keep on saying 'Alexei, drink, drink, Alexei, breathe!'

"When he was moaning, the rest of us felt better, in a way because we could tell he was at least still alive. I stress, at that point I didn't know it was Navalny."

Two of Mr Navalny's assistants were standing nearby; one was his press secretary Kira Yarmysh.

"She was very nervous," Mr Nezhenets says. "The medic asked her what had happened to him, and Kira said: 'I don't know, he was probably poisoned.'"

08:20

The crew moved fast to ask permission for an emergency landing at Omsk, the airline says, and it was given immediately.

It took little more than 30 minutes for the plane to land after passengers were told there would be an emergency landing.

But the cabin crew "kept checking the windows and complaining that, because it was so cloudy, it was taking longer to land while Alexei was so unwell."

The lawyer heard retching noises as they urged him to drink.

Was his stomach pumped?

Omsk airport's chief doctor, Vasily Sidorov, has refused to confirm or deny this. All he would say was "There was everything."

Had they suspected food poisoning, the crew may have tried to, says Israeli intensive care expert Mikhail Fremderman. "But that wouldn't have helped in a case of poisoning with organophosphorus compounds, which is what the Germans are now talking about."

And if Mr Navalny's food or drink had been poisoned, throwing up would have posed a risk to those offering him medical assistance, as well as those cleaning up the plane later.

09:01

At 09:01 Omsk time, the plane landed.

09:03

Medical staff at the airport boarded the plane just two minutes after landing.

As soon as they had examined Mr Navalny, the medics said "this is not a case for us - he needs intensive care", Mr Nezhenets recalls.

He then heard one of the medical staff phoning for an ICU ambulance. They asked for it to drive straight on to the landing area, saying that the patient was in a serious condition.

He then heard a medic explaining over the phone what colour the plane was and telling the driver to park close to the steps.

"We waited for another 10 minutes for the ambulance to arrive," he says. "During this time, the doctors took Navalny's blood pressure and gave him an intravenous drip - but I think it was clear to them that it was of no use."

Dr Sidorus says he did not treat Alexei Navalny personally, but that his colleagues did their best to save his life.

"It was hard to understand what was going on, as he could not speak," he says. "They did everything they had to do, saved a man's life and made sure he was transferred to an appropriate hospital."

Passengers we spoke to believe the medics spent about 15 to 20 minutes examining Mr Navalny on board the plane.

09:37

He was then taken off the plane and his stretcher loaded into an ambulance, which drove straight to Omsk Emergency Hospital No 1.

The plane was re-fuelled and, after another half an hour, continued its journey to Moscow, Mr Nezhenets told the BBC.

"When we landed at Moscow Domodedovo airport, several policemen and plain-clothed men entered the plane.

"They asked passengers seated in the rows closest to where Alexei had been sitting to stay, while the rest were free to go. Alexei had been sitting somewhere in the centre of the plane, row 10 or 11."

It seemed strange to have police come on board. "At that point, the case did not look criminal. And yet, here was the security service."

'Poisoned with Novichok'

For two days, the hospital in Omsk kept Mr Navalny in its acute poisoning department. Initially they would not allow him to be flown to Germany, citing his unstable condition.

However, on 22 August, he was airlifted to the Charité clinic in Berlin and two days later German doctors said their tests showed he had been poisoned.

Doctors in Omsk, including the chief doctor of the Emergency Hospital No 1 and the chief toxicologist, insisted that no poisonous substances had been detected in Mr Navalny's body when he was under their care. They said a metabolic disorder was one potential, alternative diagnosis.

BBC Russian has asked Omsk health authorities for a comment and a detailed account of Navalny's hospital stay, but has not received a reply.

Reporting by Anna Pushkarskaya, Elena Berdnikova, Timur Sazonov, Andrei Soshnikov and Ksenia Churmanova.

Related Topics

<https://www.bbc.co.uk/news/world-europe-54012278>

*Many thanks for this R.*

# Chart Section Index

1. Prediction Chart

2. M01 Schedule

3. Family III

4. Polytone Chart: XPA1 c, XPA2 m and p

**September 2020**

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Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
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		x	x				0530		M01A	14	9129 or 9192 498	9129 or 9192 498
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	x						1500/1510		S06S	01A	6464/ 7242 914	6464/ 7242 914
x					x		1500/1520/1540		XPA2	01B	14373/13373/11573	13906/12106/10906
				x			1510/1530/1550		E07A	01B	10583/ 9383/ 8183 531	11424/10124/ 9124 411
x				x			1530		E11	03	5737 52#	5737 52#
			x				1530		E11	03	10330 26#	10330 26#
x	x	x	x	x	x	x	1555		HM01	18	11435	11435
		x				x	1600/1620/1640		M12	01B	<b>search</b>	<b>search</b>
	x		x				1600/1620/1640		XPA2	01B	13887/13387/11587	13542/12142/11442
	x					x	1605		E11	03	5082 23#	5082 23#
		x				x	1625		E11	03	6923 97#	6923 97#
	x		x				1645		E11	03	9240 33#	9240 33#
				x		x	1650		E11	03	11116 92#	11116 92#
x	x	x	x	x	x	x	1655		HM01	18	11530	11530
		x				x	1700/1720/1740		E07	01B	12139/10639/ 9139 161	11156/ 9356/ 8056 130
			x				1700/1720/1740		M12	01B	12162/11566/18711 546	12162/11566/18711 546
				x			1700/1800	1/3	M14	01A	5945/ 5477 382	5945/ 5477 382
		x			x		1705		E11	03	4181 39#	4181 39#
		x					1710/1730/1750		M12	01B	12162/11566/10711 546	12162/11566/10711 546

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
			x				1730		E11	03	7864 41#	7864 41#
x						x	1745		E11	03	13470 24#	13470 24#
x	x	x	x	x	x	x	1755		HM01	18	11635	11635
	x		x				1800		M01	14	5475 463	5475 463
			x				1800/1820/1840		M12	01B	12162/11566/10711 546	12162/11566/10711 546
	x						1820	2/4	M14	01A	5945 346	5945 346
			x				1830	2/4	G06	01A	5934 579	5934 579
	x			x			1840/1850/1900	1	F01	01A	13467/11084/ 9052	11136/ 9074/ 7723
		x			x		1850		S11A	03	10213 28#	10213 28#
x			x				1900		E11	03	7317 64#	7317 64#
	x					x	1900/1910/1910 1930/1940/1950		XPB1	01B	12139/10939/ 9339 8139/ 6939/ 5839 <b>check</b>	9323/ 8123/ 7723 6923/ 5823/ 5123 <b>check</b>
x		x					1900/1920/1940		E07	01B	14584/13384/11584 535	11539/10139/ 9139 511
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
				x			1900/2000	1/3	S06	01A	8171/ 5876 452	
				x		x	1910		E11	03	8530 61#	8530 61#
		x					1920	2/4	M14	01A	5464 537	5464 537
				x			1930	2/4	G06	01A	5442 947	5442 947
					x	x	1930		E11	03	4505 36#	4505 36#

## M01 FREQUENCY LIST

Frequencies may vary by a few kHz

**JAN FEB NOV DEC**

**M01/1**

**197**

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

**MAR APRIL SEPT OCT**

**M01/2**

**463**

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

**MAY JUNE JULY AUG**

**M01/3**

**025**

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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	Remarks
	x	x					0315		E11	03	8565 25#	8565 25#	7850 25#	7850 25#	since 01/14, last log 08/20
			x		x		0435		E11	03	6849 35#	6849 35#	5779 35#	5779 35#	since 04/15, last log 08/20
x	x						0450		E11	03	7469 41#	7469 41#	5371 41#	5371 41#	since 02/10, last log 08/20 2nd transmission Thu 1730z
x		x					0510		S11A	03	13537 65#	13537 65#	11116 65#	11116 65#	since 08/19, last log 08/20
x		x					0640		E11	03	15800 94#	15800 94#	12153 94#	12153 94#	since 07/17, last log 08/20
	x		x				0645		E11	03	13424 51#	13424 51#	13424 51#	10800 51#	since 07/09, last log 08/20
x			x				0700		S11A	03	9339 47#	9339 47#	8597 47#	8597 47#	since 04/10, last log 08/20 until 09/19 at 1015z
	x			x			0700		E11	03	8680 57#	8680 57#	8180 57#	8180 57#	since 01/12, last log 08/20
				x	x		0710		E11	03	6480 49#	6480 49#	8102 49#	8102 49#	since 07/15, last log 08/20
	x			x			0715		E11	03	10429 63#	10429 63#	9963 63#	9963 63#	since 02/11, last log 08/20
x		x					0715		S11A	03	15720 38#	15720 38#	search	search	reactivated 08/20, last log 08/20
x							0745		E11	03	9610 26#	9610 26#	10213 26#	10213 26#	since 03/14, last log 08/20 2nd transmission Thu 1530z
	x		x				0745		E11	03	14940 22#	14940 22#	14865 22#	14865 22#	since 01/20, last log 08/20
		x	x				0745		E11	03	15720 34#	15720 34#	17410 34#	17410 34#	since 06/17, last log 08/20
				x	x		0805		E11	03	5737 31#	5737 31#	5371 31#	5371 31#	since 07/14, last log 08/20
			x	x			0820		E11	03	4909 43#	4909 43#	5941 43#	5941 43#	since 10/09, last log 08/20
x	x						0820		E11	03	17378 13#	17378 13#	19184 13#	19184 13#	since 12/18, last log 08/20
x			x				0830		E11	03	12202 18#	12202 18#	12153 18#	12153 18#	since 07/15, last log 08/20
	x		x				0845		E11	03	12153 15#	12153 15#	12202 15#	12202 15#	since 07/17, last log 08/20
x		x					0900		E11	03	7449 53#	7449 53#	8180 53#	8180 53#	since 10/05, last log 08/20
x				x			0915		S11A	03	5082 48#	5082 48#	4505 48#	4505 48#	since 04/19, last log 08/20
		x	x				0930		E11	03	6923 27#	6923 27#	6940 27#	6940 27#	since 02/14, last log 08/20
	x			x			1000		E11	03	8180 30#	8180 30#	7317 30#	7317 30#	since 11/16, last log 08/20
	x			x			1020		S11A	03	6977 42#	6977 42#	7469 42#	7469 42#	since 02/10, last log 08/20 2nd transmission Thu 1730z
x		x					1045		E11	03	8545 69#	8545 69#	7317 69#	7317 69#	since 03/18, last log 08/20
		x		x			1135		S11A	03	5149 37#	5149 37#	6433 37#	6433 37#	since 02/14, last log 08/20
	x	x					1205		E11	03	6304 46#	6304 46#	6923 46#	6923 46#	since 03/10, last log 08/20
	x				x		1345		E11	03	12984 91#	12984 91#	14972 91#	14972 91#	since 10/15, last log 08/20
x				x			1530		E11	03	5409 52#	5409 52#	5737 52#	5737 52#	since 05/15, last log 08/20
			x				1530		E11	03	10356 26#	10356 26#	10330 26#	10330 26#	since 06/14, last log 08/20 2nd transmission Mon 0745z
	x				x		1605		E11	03	5371 23#	5371 23#	5082 23#	5082 23#	since 11/15, last log 08/20
		x			x		1625		E11	03	7863 97#	7863 97#	6923 97#	6923 97#	since 02/15, last log 08/20
	x		x				1645		E11	03	14575 33#	14575 33#	9240 33#	9240 33#	since 06/17, last log 08/20 until 05/20 1700z
			x		x		1650		E11	03	12229 92#	12229 92#	11116 92#	11116 92#	since 05/16, last log 08/20
		x			x		1705		E11	03	4783 39#	4783 39#	4181 39#	4181 39#	since 02/14, last log 08/20
			x				1730		E11	03	8088 41#	8088 41#	7864 41#	7864 41#	since 03/10, last log 08/20 2nd transmission Mon 0450z
x					x		1745		E11	03	14410 24#	14410 24#	13470 24#	13470 24#	since 04/18, last log 08/20
		x			x		1850		S11A	03	12457 28#	12457 28#	10213 28#	10213 28#	since 06/17, last log 08/20
x			x				1900		E11	03	7600 64#	7600 64#	7317 64#	7317 64#	since 05/16, last log 08/20
				x	x		1910		E11	03	9610 61#	9610 61#	8530 61#	8530 61#	since 04/17, last log 08/20
				x	x		1930		E11	03	5082 36#	5082 36#	4505 36#	4505 36#	since 03/14, last log 08/20 2nd transmission Thu 1530z

**XPA1 Sched c and XPA2[Sched m & p] Russian Intelligence and/or Diplomatic Multitone Systems**  
**[Radiogramma] Transmission Schedules.**

Zulu >	XPA1 Sched c			XPA2 Sched m			XPA2 Sched p		
Month v	Tuesday/Thursday H+10 H+30 H+50 0710 / 0810z			Sunday/Tuesday H 00 H+20 H+40 1200/2100			Monday/Wednesday H 00 H+20 H+40 0700 / 0800z		
Jan	12157	13462	14374	10921	12221	13521	11493	13393	13993
Feb	13397	14413	15972	11163	13363	14563	13387	13887	14787
Mar	12132	13453	14576	13384	13984	14984	13931	14831	16131
Apr	10428	11431	13441	14442	15842	16342	11409	12209	13409
May	11169	12179	13431	13376	11576	10776	12148	13448	13948
June	11421	12151	13972	13427	12227	10827	12148	13448	13948
July	10446	11474	12175	13394	12194	10794	12148	13448	13948
Aug	10234	11511	12117	12159	11559	10559	12152	13552	13952
Sept	10862	11571	12216	13914	15814	16314	12152	13552	13952
Oct	12167	13437	14972	14469	16169	17469	13372	14672	15872
Nov	13978	14859	15871	14783	13883	12183	11529	13429	13929
Dec	11531	12137	13932	10807	12207	13507	11493	13393	13993

**SPECIAL MATTERS**

**Thanks to all our contributors:**

AB, BR, DanAR, Danix, dmhz, 'E', ER, F5JBR, Gert, H-FD, JPL, Malc, PLdn, PoSW, RNGB, TheSpectre, Tony



**MESSAGES:**

E: Thanks your input here. Note receiver piece at start, see Page 10. Unable to OCR your cuttings at moment due to program problems but all noted.

**RELEVANT WEBSITES**

ENIGMA 2000 Website:

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

Time zone information:

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

Encyclopedia of Espionage, Intelligence, and Security

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

**EyeSpyMag!**

<http://www.eyespymag.com>

# 2020

<p><b>January</b></p> <table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td></td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table>	S	M	T	W	T	F	S			1	2	3	4		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		<p><b>February</b></p> <table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> </table>	S	M	T	W	T	F	S							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	<p><b>March</b></p> <table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31											
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