ENIGMA 2000 NEWSLETTER

http://www.enigma2000.org.uk

Interesting Matchbox cover from Soviet Times

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See last page also.

Editorial

At the start of last year we wrote: "Propagation is still worrying but the odd forecast of things changing for the better is encouraging; the continuing rise of noise in the UK due to poor – actually none – policing of the spectrum for cheapo switch mode power supply units, badly made electronic devices for the mass market and sadly broadband distribution. Just goes to show big money organisations do exactly what they want."
Well, we weren't wrong and it still continues today. It was PoSW who echoed theses sentiments writing , "Short wave propagation remains as variable as ever as observed with regular number station schedules and the local interference from electronic gadgetry continues to make a bad situation worse."

What is interesting is that OFCOM will be making it a requirement of transmitting amateurs to be totally aware of the effect of non-ionizing radiations – Radio Waves – in close proximity to the transmitting antenna. From my corrupt mind it's a pity they couldn't bother to apply the powers they possess to stop all the electronic crap viz cheapo wall warts, switch mode PSU's with no filters, and of course those damnable power line transmission devices which royally and recklessly f*ck up the Short Wave spectrum from 2 to 30MHz and in some cases into the low UHF band.
It's not surprising that what would take 20W of RF to communicate now takes 100W so the other end can hear a reasonable signal above the S7 to S9 noise that is now dominating amateur bands. If your interest lays in listening to Number Stations [heaven forbid – its naughty!] or trying to catch Radio Turkey or something better on 12035kHz late at night you're buggered.
So, amateurs now have to be sure their emissions with not be outside the regulation figure of W/Me2 and make representation too. In my log book I have a 16 page document entitled 'RF Safety at G7VAK.' In this document it states field strengths for frequencies from 3500 to 29500kHz at 100W output that are safe 'nearest' to my antenna for those bands. In addition for 6, 4 and 2m as well as 70cms there are other pages showing the safety margins I can expect to achieve with 100, 50, 25 and 10 watts. Interestingly OFCOM aren't worried about 10W and under; that's the CB'ers, Police, Ambulance, and Fire Service personnel taken care of using Airwave and of course the multi-millions who use mobile technology at the drop of a hat.

I used to pride myself in using 25W on good days and 50W on other days. I've switched to RTTY now with 50 watts and worked into Worcestershire on just 10Watts by mistake, It's a noise friendly mode it seems but if things get worse I'll probably not bother. The powers that be allow noise to be propagated along mains wiring and unbalanced telephone drops and they ask this just incase someone 'might' be near your antenna. My antenna is in my back garden; it won't be RF that'll harm anyone who shouldn't be there but is – it will be a meeting with a pick axe handle after being told in no uncertain terms to 'F*ck off!'

Read this and wonder: Update: Implementation of measures to require compliance with international guidelines for limiting exposure to electromagnetic fields (EMF) (ofcom.org.uk)

Of course you can always take a read of this as well to cheer yourself up totally, but only after finding OFCOM's EMF Calculator. [A contact said to me he thought it about as useful as a condom with the end cut off. He had difficulty making it work and did his calcs using a slide rule instead:

The Control of Electromagnetic Fields at Work Regulations 2016 (legislation.gov.uk)

I look at this latest nonsense in the same light as the population of Britain who can no longer buy Paracetamol in bottles of 100 because someone took an excess dose once! 16 or 32 only.

Then there's the Validation of your Amateur Licence every five years. Just go on the OFCOM site and do it there. How? There's nothing remotely labelled 'Re Validate and a button to push would help – like the banks do when you use your Debit or Credit card online. Enter this code onsite ….. not difficult to dream up is it! [Switch Rant Mode Off]

Malc, M8 offered this: On Monday the 25th January Earth was inside a stream of a solar wind flowing at almost 600km/s. it produced an unexpected G1-class Geomagnetic storm. The solar wind was expected. It emerged from a small hole in the suns atmosphere, which forecasters had been tracking for a few days. The surprise occurred when a crack formed in the Earth's magnetic field. Solar wind poured in, fuelling a storm in disproportion to the size of the stream. Radio conditions worsened from 1600z and 3Mhz was nearly unusable, apparently, at 1900z here in the UK.

It seems that poor propagation is certainly with us for the near future although there have been a few lifts noted. One I experienced was on 10M towards the end of December when I worked into Malta using only 10watts with 5/9 each way.

Poor propagation continued through February; indeed, there are a few remarks concerning this placed on logs. I'd like to thank KW who rang me to remonstrate using technical terms I could never put to print here.

Finally, Amateur Radio and Short Wave Listening are a decent hobby. Many child walked away from the London Science museum's amateur station GB2SM operated by ex- RAF intercept operator Geoff Voller well impressed "ZD9BE from GB2SM, are you there?" ringing in many impressionable schoolboy's ears and perhaps providing some purpose?

Other stations exist too and have something in common with GB2SM. GB2SM I heard was closed down because it was dated and did not give a true picture of today's instant communications. The other stations that spring to mind are at Imperial War Museum Duxford in the guise of Duxford Radio Society (Cambridge Wireless Heritage SIG) and located in a small 'hut' complex at the side of the airfield, their antennas something to be in envy of.
Another transmitting station exists aboard HMS Belfast, now run by the IWM.

Guess what! Both stations have also been given their marching orders by those at the IWM. Volunteers have given their free time with something that still lifts eyebrows in this day of easy communications just to be removed with the swipe of a pen.

I have seen other amateur stations as exhibits; the National Radio Centre [which I am involved with] at Bletchley Park and others 'up north' in the Railway Enthusiasts areas where entire locomotives, steam and diesel [ever seen a diesel locomotive declagging --- on You Tube; its great] are rebuilt back to a workable standard and give much joy to those who participate. I've even seen amateur stations in declassified Nuclear Bunkers; the one at Kelvedon Hatch springs to mind although I'm aware of that at Hack Green which is almost on a commercial scale according to JoA a previous member and friend who passed away a few years ago at least.

Was last year's front cover picture; antennas now gone the building remains much as it was and still in care of the Russian Diplomats.
COVID prevents me from nipping up to KPG to see what has changed and they now get a bit excited if you get caught photographing.
Last time I was challenged I carried on and apologised later; it was new antenna on the Russian Chancelry building that caught my eye.
I also saw the VGDSh round the back as well.
Last time I was also stopped by a pair of police officers carrying the usual firearms issed to the R&DPG blokes – or whatever this lot are called today. "Been told off?" one asked. In answer I indicated a bloke in a uniform and nodded as I said, "Tried to give me a bollocking but I took what I wanted and walked away." The police officer laughed and seeing my Thin Blue Line lapel badge said 'Ex-Job.' I said "Yes and a lot thinner since I put my Card in." I was 18st7lbs at the time – now a stripling at over 4st less. He said "It doesn't get any Easier." I nodded, said my farewells and walked away in the direction of the building seen above.

Following our mention of the spy George Blake falling off his mortal coil we received this interested comment from 'MaleAnon' who writes:

Interesting item regarding George Blank and his escape from 'The 'Scrubs'.
As you are aware Sean Bourke had purchased a pair of walkie talkies from a shop called McDonald Electrical (I think) I believe that this was one of the electrical shops in Lisle Street at the time. Bourke smuggled one set in to the Scrubs to Blake so that they could plan his escape.
Just like they smuggle mobile phones into prisons these days.
Everyone assumes that these radios were on a 27Mhz US AM CB frequency. To make them 'nominally' legal to sell in the UK they were actually tuned to a frequency in the 10 Metre amateur band, usually 28.450Mhz.
What is not often reported is that a member of the public, later described as a radio 'ham', (whether SWL or licensed) overheard some of the conversations between Bourke and Blake and telephoned the police to report the suspicious radio comms.
No notice was taken of his report.

Thanks MaleAnon.

Further research disclosed that Bourke paid only £25 at the store, the price discounted from £35, both considerable amounts of money and generally in excess of that received per week as a wage.
The call signs used were, for Bourke were Fox Michael [a derivative of Fenian Brotherhood] whilst Blake used Baker Charley [after the Irish Patriot Baldy Canaan]

The identifying code ran as:

Bourke Stone walls do not a prison make, nor iron bars a cage.
Blake Minds innocent and quiet take this for a hermitage.
Bourke Richard Lovelace must have been a fool.
Blake Or just a dreamer.

The subsequent comms between Bourke and Blake were overheard by a lifer Roy Fletcher an accessory to murder, who had a receiver of his own in his cell. Although he mentioned this to Blake he said nothing th the authorities.

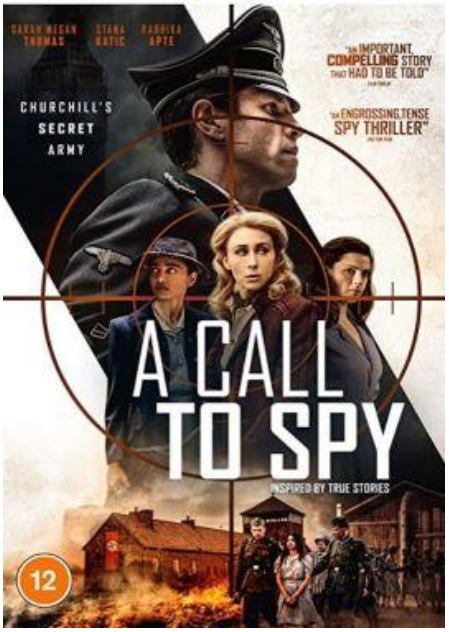
After the Walkie Talkies were smuggled into Wormwood Scrubs the escape was made using a rope ladder made with knitting needles. The wall over which Blake scaled in Artillery Road now has bollards placed along its length, presumably to stop vehicles being intimately placed alongside it.

As a spy Blake was a shit of the highest degree. He was at least responsible for tipping off the Soviets of the now famous cable tapping tunnel in Berlin as well as putting the lives of some 46 'agents' [could be officers] working for MI6 and perhaps the CIA as part of his treachery.

George Blake 11 November 1922 to 26 December 2020. Not missed.

Recommended Reading

Or, rather viewing:



At the beginning of WW2 with Britain becoming desperate Churchill orders his new spy agency, the Special Operations Executive (SOE), to recruit and train women as spies. Their daunting mission: conduct sabotage and build a resistance in Nazi occupied Europe.

The SOE's spymistress Vera Atkins recruits two unusual candidates: Virginia Hall, an ambitious American with a wooden leg and Noor Inyat Khan, a Muslim pacifist.

Together, these women help to undermine the Nazi regime in France, leaving an unmistakable legacy in their wake.

This is well worth watching. How close it is to real events is not known but it tells a story without bending to the fantastic.

Not sure of accuracy but loved the use of the Marconi CR100 receivers. Not sure about operators interrupted whilst sending Morse traffic ceasing mid character either but altogether it set the scene and story line for these two heroines.

This interesting piece was sent to us by member JPL:

Canada's Bletchley Park

January 7, 2021
by Valerie Knowles

https://legionmagazine.com/en/2021/01/canadas-bletchley-park/

Ottawa had its own top-secret code-breaking establishment

In 1942, David Hayne, a recent University of Toronto graduate, was undergoing artillery training at Camp Niagara in Ontario when he received two mysterious letters that changed the course of his life and helped place Canada in the forefront of intelligence gathering.

The first was from a professor of French who asked Hayne if he would fill an opening at the National Research Council (NRC). There was no indication of what the work involved, only that it was connected with the war and that the letter writer found it absorbing. The young grad concluded that the job related to the French language, his passion. Still, he dispatched a cautious reply, saying he expected to begin his military career almost immediately.

That letter was followed a week later by one from a University of Toronto mathematician repeating the job offer at the NRC and adding, "The question of your military service can be taken care of. We should be glad to have you come to Ottawa as soon as you have finished your period in camp."

This was enough to convince Hayne that he should take the offer. After his Canadian Officers' Training Corps battalion returned to Toronto from Niagara, he boarded a train bound for the nation's capital. It was June 26, 1942.

His ultimate destination in Ottawa was an agency ingloriously named the Examination Unit (XU). Opened in June 1941, it was a branch of the NRC and Canada's answer to the Allies' secret code-breaking facility, Bletchley Park, located in a mansion on a country estate in Milton Keynes, outside of London, England.

The XU was also housed in a mansion, although one not as grand as Bletchley Park. In the heart of Ottawa's Sandy Hill, it was built in 1902-03 by John Edwards of the well-known Edwards lumber family and was situated next door to Prime Minister Mackenzie King's Italianate residence, once Sir Wilfrid Laurier's home, near the University of Ottawa. The mansion was the XU's home until it closed at the end of the war. (The building has since been demolished and an apartment building is now on the site.)

In this hive of clandestine activity, Hayne worked as a codebreaker six days a week. He spent his first few months learning how concealment ciphers are encrypted into coded texts and attempting to complete broken or fragmentary Vichy French messages. At year's end, he and two other civilian colleagues started working their way through a large book of graded code and cipher puzzles issued by Bletchley Park.

After toiling away on the puzzles for weeks, Hayne's colleagues were sent to Bletchley Park. In June 1943, Hayne went to a small Canadian Army office at 283 Bank Street that analyzed the flow of Japanese wireless traffic.

Under Lieutenant-Colonel Edward Drake, the office expanded as the Joint Discrimination Unit and included air force and navy personnel. In September 1943, it moved into much larger quarters, the La Salle Academy building on Sussex Drive across from the Royal Canadian Mint. Combined with three wireless stations that intercepted enemy signals traffic, this unit constituted MI2 (Military Intelligence 2). Hayne was one of only four civilians assigned to it initially. The work Hayne and his colleagues were doing was new to Canada.

When the war erupted in September 1939, the Canadian government lacked any foreign intelligence capacity, having long depended on Great Britain to provide it with diplomatic and intelligence reports. Modern techniques for intelligence work, such as those developed since 1914, were virtually unknown in Canada.

“Cryptographic innocence was, in September 1939, perhaps more complete in Ottawa than in the capital of any other belligerent power,” wrote international security, intelligence and terrorism expert Wesley Wark.

All this began to change with the war. The rapid growth of Canadian power and political maturity fostered an evolution from cryptographic innocence to awareness. Canada entered into an intelligence alliance with the great powers, one that outlasted the war itself and was formally recognized by the secret United Kingdom-United States pact of 1947, known as the Five Eyes.

The first steps to becoming less dependent on Britain for diplomatic and intelligence reports were taken when then-Captain Drake, a Royal Canadian Corps of Signals officer, established a wireless intercept station at RCAF Station Ottawa at Rockcliffe.

The Canadian government lacked any foreign intelligence capacity.

Operating out of a basement office with the assistance of a Royal Canadian Mounted Police officer, Drake’s unit decoded messages between the Abwehr (German foreign intelligence) controllers in Hamburg and their agents in South America. The number of messages they decoded and forwarded to American and British intelligence authorities was impressive.

The operation inspired Drake to press military authorities in Ottawa to set up a more ambitious and larger cryptographic bureau. (After the war, Drake went on to establish the Communications Security Establishment. Its new Ottawa headquarters, opened in 2015, is named for him.)

The Canadian chiefs of staff rejected the idea, insisting Canada should continue to rely on Britain’s Bletchley Park for intelligence and that the cost could not be justified. But senior officials at the Department of External Affairs had also been considering an independent intelligence bureau.

Against the advice of the military chiefs and using unspent funds in the External Affairs budget (augmented by some unexpected money from private benefactors who had contributed to a military research fund), the civilian Examination Unit was established at the NRC in 1941. The new cryptographic bureau was presented to the Canadian government as a fait accompli.

The NRC hired two professors—Hayne’s correspondents from the University of Toronto—to launch the XU during the university’s summer break. They were not knowledgeable about code-breaking but these mathematicians belonged to a discipline noted for producing good code-breakers. Harold S.M. Coxeter and Gilbert de Beauregard Robinson arrived in Ottawa in April 1941 and set to work.

On an exploratory trip to Washington, where, fortuitously, they had a contact in the American Signal Intelligence Service, the two scholars met with leading figures in American cryptography, including General Joseph Mauborgne, commander of the U.S. Army Signal Corps. He said the U.S. could not spare resources to help equip or train officers, but he did suggest somebody to head it: Major Herbert O. Yardley, a code-breaking trailblazer in the First World War.

Yardley was controversial because he had published an inflammatory book, The American Black Chamber, about his activities during and following the First World War. It revealed intelligence secrets and disclosed that the Americans had been reading British diplomatic correspondence.

Despite the fury he had incited in the American and British intelligence communities, Yardley was hired under an assumed name to head the new bureau. Only months into his new career, the Canadian government fired him because his continued presence in Canada threatened to damage co-operation between this country and its two closest allies.

In March 1942, when the XU needed more space, its staff (which never numbered more than 50) moved to the mansion on Laurier Avenue. The XU’s original mandate to intercept the communications of Germany and Vichy France changed after Japan’s entry into the war. Japanese messages were intercepted and decoded but German messages were dropped from the mandate.

One party closely associated with the XU’s day-to-day operations was public servant Lester B. Pearson, then the assistant undersecretary of state for external affairs. Pearson was not only involved in its staffing. He also arranged for a plaque identifying the bureau as a “National Research Council Annex” to be installed outside it and asked that “two dispatch riders complete with their bicycles” be provided, reported Ottawa writer Diana Pepall.

When Hayne arrived on the scene in the spring of 1942, he found the security very tight. He had to show his identity card to the military guards at the door and shred and burn all his scrap paper in the evening. “We were even discouraged at first from joining outside organizations like the public library,” he wrote in his memoir.

One of Hayne’s colleagues at the time was Sylvia Gellman, a typist with a newly minted diploma from Willis College. She worked in the Japanese section on the mansion’s second floor.

“I typed decoded messages, sealed them in envelopes and then arranged for them to be delivered to the Department of External Affairs,” she recalled. “It was the most exciting part of my life.”

The head of the a small intelligence unit, Herbert Norman, worked on the third floor. Norman was born in Japan to Canadian missionary parents and was a widely acknowledged expert in Japanese history and culture.

The Canadian chiefs of staff rejected the idea outright.

Norman was among the first to do all-source intelligence assessments during the war. He later attracted controversy after the Americans accused him of being a communist. Canadian authorities concluded this allegation was groundless, but a distraught Norman committed suicide in Cairo, Egypt, in 1957 when the old charge resurfaced. In the 1940s, however, none of this suspicion hovered over him. Gellman remembers only a “very quiet man.”

When his work in the Joint Discrimination Unit was being phased out at the end of 1944, Hayne was sent back to the XU. He worked there in the Japanese diplomatic section for a few months until his contribution to the war effort ended when Japan surrendered in August 1945. Hayne was “released” to the University of Toronto.

The XU’s contribution to the war effort was significant. In three years, it helped Ottawa’s intelligence-gathering grow from practically nothing to the stature of London and Washington in two fields: French and Japanese.

The XU pulled more than its weight in these two areas while contributing to the common pool of intelligence and feeding a steady stream of knowledge to External Affairs.

https://legionmagazine.com/en/2021/01/canadas-bletchley-park/

JPL also writes, ' The Canadian military has recently changed the military occupational title of SIGINT collection operators,

Canada integrated it's armed forces on 1 Oct 66. On that day, members from the Royal Canadian Navy (RCN) Radioman Special (RS) trade, along with Radio Telegraphic Operators (R&TG) of the Royal Canadian Corps of Signals (RCCS) and the Royal Canadian Air Force (RCAF) woke up and began their duties under the name, Communicator Research (Comm Rsch).

At the same time, the Canadian Forces Supplementary Radio System (CFSRS) was established as the unified Canadian SIGINT collection organization. Communicator Research personnel will now be known as: Signals Intelligence Operators (SIGINT Op).'

Many thanks for the specialist info JPL

CUPBOARD LOVE Semi-naked woman found in airman's wardrobe on special forces navy base sparks Chinese spy fears
EXCLUSIVE

Jerome StarkeyTom Wells
21 Jan 2021, 22:30Updated: 22 Jan 2021, 7:02

https://www.thesun.co.uk/news/13813622/suspected-chinese-spy-found-on-navy-base/

A SUSPECTED Chinese spy had been hiding at a Navy base for two weeks before top brass found her in a randy aircraft technician's wardrobe.

He had tried to keep her presence secret by posting a sign on his door saying: "Do not enter, own cleaning taken care of."

A woman was discovered hiding in a wardrobe at a key Navy base

The suspected spy had been at RNAS Yeovilton, Somerset for two weeks before she was found
Top brass fear she may have seized operational secrets before fleeing the UK
Complaints about the smell led to a team of non-commissioned officers forcing their way in.

They found her cowering behind her lover's jumpsuits.

Armed police escorted her from the base — which is home to special forces — and she left the UK immediately.

Her lover, from the elite Commando Helicopter Force, has told superiors she is his girlfriend and not a Chinese spy.

But fellow sailors fear the woman — born in the Far East and a Dutch passport holder — may have lured him into a honeytrap and seized operational secrets at Yeovilton, Somerset.

The base's helicopters are due to join £3billion carrier HMS Queen Elizabeth on mission to the South China Sea this year.

'ASTONISHING BREACH'
A security source said: "It's got all the hallmarks of a honeytrap and Navy chiefs could not afford to take any chances."

A Navy source added: "She was an unauthorised foreign national on Ministry of Defence property. It's an astonishing breach and terrifying to think what she could have accessed.

The engineer has been ridiculed by pals but could face jail for the serious security breach.

It's got all the hallmarks of a honeytrap and Navy chiefs could not afford to take any chances.

He was serving with 847 Naval Air Squadron, which provides Wildcat helicopters for air assault missions.

He said he first met the woman on holiday in 2019.

The rating smuggled her on to camp in his car boot when he returned from Christmas leave.

The Navy source added: "He told naval police she was due to go home to the Netherlands after New Year's Eve but something went wrong because of the coronavirus pandemic.

"He thought he could bring her on to the base and hide her in his quarters. But it was never going to work."

The shock discovery comes as tensions ramp up between the UK and China, with the head of MI5 promising to do more to counter the threat from Beijing.

The base's helicopters are due to join HMS Queen Elizabeth on mission to the South China Sea this year
The aircraft technician had been serving with 847 Naval Air Squadron

The Navy source added: "Whatever her situation is he has committed a serious security breach and they will throw the book at him. He could well be facing prison time."

It is not clear how much of the 1,400-acre base, home to the Navy's School of Fighter Control, she had access to.

The lovestruck rating has been subject to a barrage of abuse by fellow sailors.

HONEYTRAP AGENTS
They have photoshopped numerous spy film posters to mock him over the affair and the suspicion she could have been a foreign agent.
Last month The Sun revealed how MPs and experts on security and China fear Beijing is most likely using agents offering "cash and sex" to try to steal secrets in Britain.
Tory MPs Tom Tugendhat and Bob Seely warned the UK must "take seriously" China's espionage efforts to increase its influence in the West.

Honeytrap agents are often attractive women who have attended top universities and speak perfect English. It is thought they use social media such as LinkedIn and Facebook to contact their prey.
They will then bed the target, and use their influence over them to try to extort valuable information for China's Communist Party.
It's not clear how much of the 1,400-acre base she had access to
But a spokesman dismissed sailors' concerns that the woman was a honeytrap.

He added: "We are investigating the incident but the individual is a European national and there is no suspicion of espionage."

Elite force station
By Jerome Starkey
MORE than 100 aircraft are based at RNAS Yeovilton, one of the UK's biggest and busiest military airfields, including Special Forces Wildcat helicopters.The £24million marine attack choppers have door-mounted machine guns that can fire 1,100 rounds a minute.They can also carry Sting Ray torpedoes and guided land attack missiles.They have nose-mounted night vision and thermal imaging cameras to spot targets in terrible conditions. The elite 847 Naval Air Squadron, which is held at five days readiness to deploy anywhere in the world, is among units who fly the multi-role aircraft.The choppers are designed to let commandos rappel out of their sides to storm enemy vessels or as part of air assault missions. They were key to a Special Boat Service raid last year to seize a hijacked tanker in the Solent.They will protect the Navy's carrier strike group, including £3.1billion aircraft carrier HMS Queen Elizabeth, on her maiden mission later this year.RNAS Yeovilton is home to the Navy's underwater escape training unit and Fighter Control School, where air traffic controllers learn to direct dog fights and coordinate F-35 jets.
"We are working with partner agencies and there have been thorough checks into her background. She is not a Chinese citizen. She is a Dutch citizen of Asian heritage."

https://www.thesun.co.uk/news/13813622/suspected-chinese-spy-found-on-navy-base/

Navy launches probe after aircraft technician smuggled his long-term Dutch girlfriend onto base before she was found semi-naked in his WARDROBE

The woman is said to have been caught hiding at RNAS Yeovilton in Somerset
She was smuggled onto the Navy base by an aircraft technician, reports the Sun
Colleagues feared the security breach may have left base 'open to espionarge'
But MoD denied claims and says it takes 'security and Covid breaches seriously'
By ANTONIA PAGET and JAMES ROBINSON FOR MAILONLIN
PUBLISHED: 01:32, 22 January 2021 | UPDATED: 09:50, 22 January 2021

https://www.dailymail.co.uk/news/article-9174397/Suspected-Chinese-spy-caught-hiding-wardrobe-Navy-base-RNAS-Yeovilton.html

The Navy have launched an investigation after an aircraft technician's girlfriend was found hiding in a cupboard after he smuggled her onto the airbase.

The woman is said to have been caught hiding semi-naked among her lover's jumpsuits at RNAS Yeovilton in Somerset.

He is said to have sneaked her into the Somerset base in the boot of his car when he returned from Christmas leave.

The Navy base is home to the Commando Helicopter Force and its Merlin helicopters, as well as a number of Wildcat helicopters - which are due to join aircraft carrier HMS Queen Elizabeth when it is deployed to the South China Sea later this year.

The technician, who is part of the Commando unit, admitted to his superiors the woman - who was born in Indonesia but is a Dutch citizen - is his girlfriend.

Concerns were raised on the base over the security breach with colleagues fearing the woman could have been exposed to vital secret information about the airbase.

The Navy base is home to the Commando Helicopter Force and its Merlin helicopters (pictured), as well as a number of Wildcat helicopters

The Wildcat helicopters are due to join aircraft carrier HMS Queen Elizabeth (pictured) during its deployment to the South China Sea later this year

But the Ministry of Defence denied that there was any suggestion of espionarge.

A spokesperson for the MoD told Mail Online: 'The Royal Navy takes any breach of security or Covid guidelines extremely seriously.

'We are investigating the incident but the individual is a European national and there is no suspicion of espionage.'

The Sun reports that the woman was escorted from the base by armed guards and is said to have left the UK immediately.

A Navy source also told the paper the woman was an 'unauthorised foreign national on Ministry of Defence property' and described the incident as 'an astonishing breach'.

According to the Sun, the technician, who is serving with 847 Naval Air Squadron, told Navy bosses he first met the woman on holiday in 2019.
The incident constitues a major security breach at the airbase.

The MoD have launched a probe into the incident and discussions about the penalty for the aircraft technician are ongoing.

RNAS Yeovilton is home to helicopters set to be used in Navy's mission to South China Sea
RNAS Yeovilton is a Royal Navy airfield base in Somerset, which is also used by the British Army.

It is home to the Royal Navy Commandos Helicopter force and a number of Merlin and Wildcat helicopters.

Both types of helicopters will take part in the Royal Navy's Aircraft Carrier Strike Group's mission to the South China Sea this summer.

The deployment is the first of the Navy's new £3billion aircraft HMS Queen Elizabeth.

Under current plans, HMS Queen Elizabeth will deploy in May 202.

It will be accompanied by a submarine, HMS Diamond, HMS Defender, HMS Kent and HMS Richmond supported by RFA Fort Victoria and a Tide-class tanker.

Though final numbers are yet to be decided, the group will also have eight UK and six United States Marine Corps F-35 jets, as well as nine Merlins Mk2s of the 820 Squadron based at RNAS Culdrose in Cornwall.

There will also be an unspecified number of Wildcat helicopters - which are based at Yeovilton.

https://www.dailymail.co.uk/news/article-9174397/Suspected-Chinese-spy-caught-hiding-wardrobe-Navy-base-RNAS-Yeovilton.html

Now even more info on the South China Seas Honeytrap lingerie on a navy base scandal [You got girlfliend in Loyal Navy]. What a lucky bugger eh! I mention this because as I wrote a few newsletters back I was feasibly targeted too. Unusually, I behaved myself.

Previous to the helos RNAS Yeovilton used to be home to the Jump Jet - sold in favour of the F35 [*note FOD clearance before it takes off, as seen on TV. If its that fragile ……*]. Wonder if this is yet another TSR2 storyline where we favour US designs rather than do it ourselves; wonder who took the backhanders amongst those who made the decisions?

"You have girlfriend in RNAS Yeovilton techy? I do everything, I love you longtime." Which in turn reminded me of the epileptic whore, Juicy Lucy, in Leslie Thomas' 'Virgin Soldiers' an award winning book and then a film about National Servicemen abroad in our Empire [anyone remember that]!
That in turn reminded me of the Bottoms Up club in HK and its depiction in The Man with the Golden Gun from the James Bond Franchise – oh dear, these Asean ladies!

Like the old soldier in Kipling's 'Mandalay' one can look back and compare life at home and away …….

Take it away 499:
"….for the wind is in the trees and the temple bells they say,
" Come you back you British Soldier, come you back to Mandalay,
" Come you back you British Bastard, I'm in the family way"

Heard by 613 on the coach to Berlin, recited at top lung by 499 as the driver got lost.
What a time we had, our intercept skills honed to a point and used from a Hotel not 600M from STASI HQ.

South China Sea: Tensions skyrocket as US ally Japan lashes out at Beijing in violent blow

TENSIONS in the South China Sea have taken a new turn as Japan, a US ally, accused Beijing of overestimating its control in the region in a rare move.

By ALEX SHIPMAN
PUBLISHED: 02:47, Fri, Jan 22, 2021 | UPDATED: 11:57, Fri, Jan 22, 2021

https://www.express.co.uk/news/world/1387445/south-china-sea-japan-usa-united-nations-the-hague-xi-jinping-donald-trump-ont/

Japan has heaped pressure on China by claiming it has attempted "to restrict the freedom of overflight" in the area. It referred to a dismissal of Beijing's claim to the waterway by an international tribunal in The Hague in 2016.

Speaking at the time, Chinese president Xi Jinping said the superpower's "territorial sovereignty and marine rights" in the seas would not be affected as he rejected the ruling.

Donald Trump consistently challenged China during his term in office, flaring tensions in the disputed waters.

Japan's involvement, revealed by the South China Morning Post, was highlighted following a message to the United Nations on Tuesday which claimed Beijing was not meeting conditions set out in the UN Convention on the Law of the Sea.

Japanese troops stormed a South China Sea beach in the Philippines on October 6, 2018 in an allied military exercise

Japanese troops stormed a South China Sea beach in the Philippines in 2018 in an allied drill (Image: Getty)
It said: "China has not accepted this [2016] award, and has asserted that it has 'sovereignty' in sea and airspace surrounding and above those maritime features found to be low-tide elevations.

"As a matter of fact, China protests the overflight of Japanese aircraft in the surrounding Mischief Reef and attempts to restrict the freedom of overflight in the South China Sea."

The Trump administration has supplied multi billion arms packages to the island of Taiwan, claimed by China, which is also developing its own weapons to fight back against Beijing.

The US has also announced plans to bolster its forces by integrating its Navy, Marine Corps and Coast Guard for deployment in the region.

UK set to become embroiled in South China Sea row

The strategy, Advantage at Sea, will develop a "modernized, integrated all-domain naval force for the future", a maritime strategy report said.

"Our actions in this decade will shape the maritime balance of power for the rest of this century," the document, released last month, added.

In the final days of Mr Trump's term in office, fresh weapon supplies were sent from the US to Taiwan as China tested warships in the region.

Last year saw numerous US military drills in the region countered by exercises by the Chinese navy and vice versa.

https://www.express.co.uk/news/world/1387445/south-china-sea-japan-usa-united-nations-the-hague-xi-jinping-donald-trump-ont/

Britain expels Chinese spies posing as journalists: report

On Thursday British regulators revoked the licence of Chinese news network CGTN after finding its state-backed ownership structure broke UK law.

By AFP News
February 5, 2021 05:37 GMT

https://www.ibtimes.co.uk/britain-expels-chinese-spies-posing-journalists-report-1687716

Britain has expelled three Chinese spies working in the UK while posing as journalists over the past year, the Daily Telegraph has reported.

The three were understood to be intelligence officers for Beijing's Ministry of State Security, the paper said Thursday, citing an unnamed senior government source.

"Their true identities were uncovered by MI5 and they have since been forced to return to China," it said, referring to Britain's domestic intelligence agency.

All three had claimed "to work for three different Chinese media agencies," the source said, adding they had all arrived in the country over the past 12 months.

It did not name the Chinese media agencies.

UK-China relations have become increasingly strained as Britain has criticised Beijing over its crackdown in Hong Kong and Xinjiang, and barred Huawei from its domestic 5G networks over security concerns.

On Thursday British regulators revoked the licence of Chinese news network CGTN after finding its state-backed ownership structure broke UK law.

The regulator said CGTN's licence holder, Star China Media Ltd, had failed to show it had editorial oversight over the network and that a proposed transfer to another media group would still keep it tied to the Chinese Communist Party.

The English-language satellite broadcaster has long faced criticism for parroting the Communist Party line in its global broadcasts.

In the United States, it is one of seven Chinese media outlets that have been designated as state-sponsored actors rather than as independent media.

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https://www.ibtimes.co.uk/britain-expels-chinese-spies-posing-journalists-report-1687716

Military Intelligence Agency Says It Monitored U.S. Cellphone Movements Without Warrant DIA says it buys commercially available geolocation data and has used it five times in recent years for authorized investigations

MORRIS/BLOOMBERG NEWS
By
Byron Tau
Jan. 22, 2021 4:19 pm ET

https://www.wsj.com/articles/military-intelligence-agency-says-it-monitored-u-s-cellphone-movements-without-warrant-11611350374?redirect=amp#click=https://t.co/Tsf1CZsmFc

WASHINGTON—In a new document made public Friday, the nation’s top military intelligence agency acknowledged monitoring the location of U.S.-based mobile devices without a warrant through location data drawn from ordinary smartphone apps.

The Defense Intelligence Agency told congressional investigators that the agency has access to “commercially available geolocation metadata aggregated from smartphones” from both the U.S. and abroad. It said it had queried its database to look at the location information of U.S.-based smartphones five times in the last 2½ years as part of authorized investigations.

Such data is typically drawn from smartphone apps such as weather, games and other apps that get user permission to access a phone’s GPS location. A robust commercial market exists for such data for advertising and other commercial purposes. The Wall Street Journal first revealed last year that numerous U.S. government agencies were also buying access to that data from commercial brokers without a warrant, raising questions about whether those agencies were adequately safeguarding the privacy and civil liberties of Americans.

The ability of U.S. intelligence agencies to access data on Americans for intelligence purposes is typically circumscribed. A warrant from the secretive Foreign Intelligence Surveillance Court is required for most kinds of surveillance. However, the Defense Intelligence Agency told Congress that it didn’t believe it needed any sort of court authorization to acquire commercial data for foreign intelligence or national security purposes.

That echoes a position taken by numerous other U.S. government agencies in recent years as the amount of data on individuals using computers, smartphones and tablets has exploded. The Department of Homeland Security is buying a similar data product and is using it for warrantless tracking as part of its border security and immigration mission. The Internal Revenue Service also purchased access to cellphone data as part of its law enforcement mission. All claim because the data is purchased on the open market, no court order is required.

The disclosure about the DIA’s domestic monitoring efforts was made in a memo to the office of Sen. Ron Wyden, an Oregon Democrat who has been conducting an investigation into the use of commercially available data by government agencies for intelligence and law enforcement purposes. The New York Times first reported the existence of the memo.

A spokesman for the Defense Intelligence Agency declined to comment.

Mr. Wyden raised the issue of the government’s commercial data acquisition this month in a hearing to consider the nomination of Avril Haines, President Biden’s nominee for director of national intelligence.

“The abuses here take your breath away, and it really is a dodge on all the legal protections Americans have,” Mr. Wyden said about U.S. efforts to collect data.

“I’m particularly troubled by the intelligence community’s purchases of Americans’ private data. It’s almost like getting around the whole question of people’s privacy rights. And so transparency is crucial,” Mr. Wyden said.

Ms. Haines committed to releasing a framework to help Americans understand what kinds of data the intelligence community obtains about them and how it is used.

The data drawn from cellphones can be used for more than just tracking. It can be used to create maps of suspects’ real-world social networks—even if they use disposable “burner” phones or take steps to protect their privacy such as using anonymizing technologies. That technology is of interest to both intelligence agencies and law enforcement.

How the U.S. Government Obtains and Uses Cellphone Location Data

The U.S. government is using app-generated marketing data based on the movements of millions of cellphones around the country for some forms of law enforcement. We explain how such data is being gathered and sold. Photo: Justin Lane/Shutterstock (Originally published Feb. 7, 2020)

According to documents obtained by The Wall Street Journal under the Freedom of Information Act, IRS officials who conducted a year-long pilot program with phone data explained that if one phone is in repeated physical proximity to another phone, investigators can guess they are associates—even if they take steps to switch phones or other precautions.

According to one email obtained by the Journal, an official with the IRS’s Criminal Investigation unit—also called IRS CI—explained the phone tracking technology to a colleague, saying it would be useful for “tracking targets who keep multiple phones, or who drop their phones frequently, since you can search for phones that are frequently [in] the same location as another phone.”

The IRS had access to such data in 2017 and 2018 before ending its use of the tool. The matter is now being investigated by the Treasury Department’s internal watchdog to see if the agency complied with all the regulations regarding privacy protections of Americans.

A spokesman for the IRS unit previously said the agency “takes the privacy of citizens very seriously and follows all laws and regulations surrounding that privacy while administering the very important law-enforcement mission of protecting our nation’s tax system.”

https://www.wsj.com/articles/military-intelligence-agency-says-it-monitored-u-s-cellphone-movements-without-warrant-11611350374?redirect=amp#click=https://t.co/Tsf1CZsmFc

Reads much the same but does have FOI doc displayed:

US military spy agency paid for Americans' cell phone data that revealed their location information WITHOUT a search warrant

Defense Intelligence Agency is a Pentagon-run military intelligence outfit
DIA confirmed it paid data brokers for cell phone information from Americans
Data brokers aggregate information collected by apps and sites and sell them
DIA said it used data as part of five investigation in last two-and-a-half years
Agency memo claimed DIA is not legally bound to first obtain search warrant
Senator Ron Wyden, Democrat of Oregon, says he plans new privacy bill
Wyden wants to close legal loophole allowing government access to user data
By ARIEL ZILBER FOR DAILYMAIL.COM
PUBLISHED: 01:11, 23 January 2021 | UPDATED: 01:37, 23 January 2021

https://www.dailymail.co.uk/news/article-9178181/US-military-spies-paid-Americans-cell-phone-data-without-warrant.html

American military spies have been buying US citizens’ location data collected by smartphone apps without a warrant, according to a recently unclassified memo.

Analysts for the Defense Intelligence Agency, the Pentagon-run department that specializes in military intelligence, made the revelation in a memo written to Senator Ron Wyden, the Democrat from Oregon.

According to the memo, the DIA has searched commercial databases that contain information about the movements of American citizens as part of five separate investigations spread out over the past two-and-a-half years.

The DIA, whose main mission is to detect threats to American soldiers stationed worldwide, appears to be buying location data that specifically pertains to investigations of foreigners abroad.

The DIA admitted in the memo, first obtained by The New York Times, that it buys the data from private data brokers and that the data isn’t vetted based on whether the smartphone user lives in the United States or abroad.

A military spy agency run by the Pentagon is buying location data mined from American consumers' cell phones and devices without obtaining a warrant, it has been learned. The above image is a 2015 stock photo of a man using an iPhone 6 and an Apple Watch

Analysts for the Defense Intelligence Agency, the Pentagon-run department that specializes in military intelligence, made the revelation in a memo written to Senator Ron Wyden, the Democrat from Oregon

‘Permission to query the US device location data has been granted five times in the past two and a half years for authorized purposes,’ according to the DIA memo.

These firms pay smartphone app makers and web sites for the information. They can then aggregate it and sell it to whoever is willing to pay for it, including the government.

The memo states that DIA ‘personnel can only query the US location database when authorized through a specific process’ which requires approval from agency leaders as well as the Office of Oversight and Compliance and the Office of General Counsel.

The agency memo says DIA is not bound by a 2018 decision by the Supreme Court in Carpenter v. United States requiring the government to obtain a warrant before forcing phone companies to hand over location data about their customers.

The DIA admitted in the memo, first obtained by The New York Times, that it buys the data from private data brokers and that the data isn't vetted based on whether the smartphone user lives in the United States or abroad

According to the memo, the DIA has searched commercial databases that contain information about the movements of American citizens as part of five separate investigations spread out over the past two-and-a-half years

The court ruled in a 5-4 decision that the government violated the Fourth Amendment to the US Constitution, which prohibits 'unreasonable searches and seizures.'

Prior to the ruling, government agencies were allowed to get cell phone location records without asking a court for a search warrant by claiming that the information was required as part of an investigation.

'D.I.A. does not construe the Carpenter decision to require a judicial warrant endorsing purchase or use of commercially available data for intelligence purposes,' the agency memo said.

Wyden gave a speech on the Senate floor earlier this week in which he vowed to put forward a bill that would close all legal loopholes allowing government agencies access to Americans' location data.

The senator from Oregon said it was improper for there to be an instance 'in which the government, instead of getting an order [from a court], just goes out and purchases the private records of Americans from these sleazy and unregulated commercial data brokers who are simply above the law.'

'The Fourth Amendment is not for sale,' Wyden said.

Senator Ron Wyden, a Democrat from Oregon, plans to introduce legislation banning government agencies from obtaining commercially available user data

The American Civil Liberties Union condemned the DIA's purchase of Americans' user data as unconstitutional.

'This memo confirms that yet another government agency is purchasing and searching through Americans' location data without ever getting a warrant,' said ACLU senior attorney Ashley Gorski.

'The government cannot simply buy our private data in order to bypass bedrock constitutional protections.

'Congress must end this lawless practice and require the government to get a warrant for our location data, regardless of its source.'

In recent years, news reports surfaced indicating that law enforcement agencies have used commercially available data aggregated from users' smartphones.

Two agencies run by the Department of Homeland Security - Immigration and Customs Enforcement (ICE) and Customs and Border Protection (CBP) - used the data to patrol the border and investigate undocumented immigrants, The Wall Street Journal found.

In October, DHS officials produced a legal memo claiming that law enforcement agencies did not need to obtain a search warrant in order to use smartphone location data, according to BuzzFeed News.

This past November, Motherboard reported that the US military buys location data mined from a Muslim prayer app, Muslim Pro, which has been downloaded more than 98 million times worldwide.

According to the report, Muslim Pro sent its users' location data to a private brokerage firm, X-Mode, which then sold it to military contractors and the Pentagon.

In response to the report, Muslim Pro announced it would cease sharing data with X-Mode. Apple and Google said they would ban any apps that use X-Mode's tracking software from mobile devices that run their iOS and Android operating systems.

During confirmation hearings earlier this week, Wyden asked President Joe Biden's new director of national intelligence, Avril Haines, about 'abuses' involving consumers' location data.

Haines said that she was not yet up to speed on the issue but that she would urge the government to be more transparent about its use of commercially available cell phone data.

'I would seek to try to publicize, essentially, a framework that helps people understand the circumstances under which we do that and the legal basis that we do that under,' she said.

'I think that's part of what's critical to promoting transparency generally so that people have an understanding of the guidelines under which the intelligence community operates.

https://www.dailymail.co.uk/news/article-9178181/US-military-spies-paid-Americans-cell-phone-data-without-warrant.html

Live and Let APPLY: MI6 bosses want to hire PART TIME James Bond style spies who 'love to travel' and want to 'spice up their otherwise dull life'

New magazine ads aimed at Brits 'looking to spice up their otherwise dull life'
MI6 boss calls for diverse applicants including foreign nationals and disabled
Advert boasts of global travel and a job 'attractive for a corporate executive'
By PAUL FROMANT
PUBLISHED: 13:00, 31 January 2021 | UPDATED: 17:48, 31 January 2021

https://www.dailymail.co.uk/news/article-9206915/MI6-recruit-time-James-Bond-style-spies-diversity-drive.html

The Secret Intelligence Service, better known as MI6, has put out a call to recruit a new army of 'part-time' spooks looking for adventure.

The UK's foreign intelligence service, which is portrayed in the James Bond films, is looking to boost recruitment and diversity by signing up Brits 'looking to spice up their otherwise dull life'.

Bond is famed for his macho, 'licence to kill' lifestyle, and previous recruitment drives by MI6 have sought to appeal to women and older people.

The initiative is thought to be the brainchild of the new head of MI6 Richard Moore, known as C for Controller. In the Bond films, the head of the service is known as 'M'.

One of the ads, placed in a magazine, says MI6 is seeking people with 'diverse skill sets and life experiences for part-time and consulting roles.'
It adds that the spying hopefuls will be considered 'highly desirable individuals' if they have expertise in 'their chosen field'.

In particular, the ad names 'foreign nationals' and applicants from overseas and Mr Moore spoke of encouraging diversity.
.
MI6, which has its headquarters on the river Thames in London (pictured), will allow the new spooks to work part time an hope to attract people with new skills.

The spy chief, whose wife is blind, is keen for people with disabilities to bring their expertise to the service.

Contacts, ideally in Russia and China, are also reportedly highly valued and sought after.

One source said: 'MI6 is basically saying to anyone fed up with their country's regime that they can work for British intelligence part-time.'

The source also boasted about the glamorous and exciting elements of the job.

'They would travel on business or holiday. That will be very attractive for a corporate executive looking to spice up an otherwise dull life.'

Who can join MI6?

MI6 has recently eased its nationality and age rules. A recruitment ad campaign in 2018 sought to encourage more women and ethnic minority candidates to apply, as well as older people.

Under old rules, candidates had to have at least one parent with British nationality or with 'substantial ties' to the UK in order to be eligible to apply.

The rules have been relaxed but applicants themselves still have to be British citizens. However, even if both parents are migrants people born in the UK can join MI6.

There have also been changes to age eligibility rules, with the upper age limit of 55 scrapped. In 2020, they also cut the minimum employment age from 21 to 18 as the service sought to attract younger recruits with technology skills.

https://www.dailymail.co.uk/news/article-9206915/MI6-recruit-time-James-Bond-style-spies-diversity-drive.html

Ed: Well worth a look if only for the humorous comments left by readers!

Swede Charged With Spying for Russia

By AFP

https://www.themoscowtimes.com/2021/02/22/swede-charged-with-spying-for-russia-a73030

A Swedish tech consultant has been charged with espionage for allegedly selling information about truckmaker Scania and Volvo Cars to Russia that put Sweden's security at risk, prosecutors said on Monday.

The 47-year-old man, whose name was not disclosed, was arrested in dramatic fashion in February 2019 while dining at a restaurant in central Stockholm with a Russian diplomat suspected of being an intelligence officer.

The Russian diplomat was briefly detained but released on account of his diplomatic immunity.

The arrest led to a diplomatic row between Sweden and Russia, with Stockholm subsequently denying visas to two Russian envoys. Moscow responded by expelling two Swedish diplomats.
In a statement on Monday, prosecutor Mats Ljungqvist said that at the time of his arrest, the Swedish consultant had just received 27,800 kronor ($3,355, 2,770 euros) for passing information to Moscow.
"As a consultant at his former workplaces, I allege that he has obtained material with the purpose of providing information to a foreign power, in this case Russia," he said.

"He has been well-paid for this information, and this shows the value the Russians place on the information provided," he added.
Ljungkvist told AFP the companies concerned were truckmaker Scania and carmaker Volvo, and the information regarded "manufacturing, such as source codes and construction of products in the automotive sector."
According to the indictment, the man illegally transferred material from his work computer to his private computer and thereafter to USB memory sticks.
In order to hide his activities from being logged by the IT system, he also photographed material from the screen of his work computer.

"In the prosecutor's view, this case concerns a crime that places Sweden’s security at risk," the statement said, adding that "Sweden is the injured party in this case and not the companies."
The statement did not elaborate on why national security was at risk. However, both Scania and Volvo also have military contracts.

Ljungqvist said that disseminating company secrets which a person has access to in their position is not a crime in itself, but can amount to espionage.

The suspect risks a maximum of six years in prison if convicted.
In its latest annual report published in 2020, Sweden's intelligence agency said Russia, along with China, posed the biggest intelligence threat to the Scandinavian country.

https://www.themoscowtimes.com/2021/02/22/swede-charged-with-spying-for-russia-a73030

Morse Stations

All frequencies listed in kHz. Freqs are generally +- 1k
This is a representative sample of the logs received, giving an indication of station behaviour and the range of times/freqs heard. These need to be read in conjunction with any other articles/charts/comments appended to this issue.

Morse - Number Stations

Morse Stations

All frequencies listed in kHz. Freqs are generally +- 1k
This is a representative sample of the logs received, giving an indication of station behaviour and the range of times/freqs heard. These need to be read in conjunction with any other articles/charts/comments appended to this issue.

Morse - Number Stations

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

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 in use)
Variant Format 2:	197 (R4m) 521=30 = = 521=30 = = 46547 ... 88305 = 521=30 = = 521=30 0=0=0	(Not in use)
Variant Format 3:	463 (R4m) 127 30 = = = = 84820 ... LG 82607 = = = = 127 127 30 30 000	(Not used at all in 2020)
Variant Format 4:	197 (R4m) 589 589 = 30 30 = = 40728 .... 58918 = = 589 589 = 30 30 000	(Logged only once in Jan / Feb)

January 2021:

4490	2000z	05 Jan	NRH	BR	TUE
	2000z	07 Jan	'197' 237 30 = = 77882 … 06221 = = Fair/Good, fast. QSB. Two single figure errors noted	BR	THU
	2000z	12 Jan	'197' 391 30 = = ... … . . . . . = = Weak = Copy difficult. First & last grps unreadable	BR	TUE
	2000z	14 Jan	'197' 770 30 = = 55123 … 15939 = = Weak / fair, med-fast. QSB. Copy difficult in places	BR	THU
	2000z	19 Jan	'197' 109 30 = = 92251 … 88189 = = Good, fast. Hesitant sending at times. Only 20 grps sent	BR	TUE
	2000z	21 Jan	'197' 682 30 = = 12836 … 33318 = = Fair, fast. Excellent Morse. One error Grp26 78050 8750	BR	THU
	2000z	26 Jan	'197' 120 30 = = 61154 55624 … 52974 96209 = = 120 120 30 30 000	AB	TUE
	2000z	28 Jan	'197' 725 30 = = 54383 … 77717 = = Good, fast. Error short repeat grp07	BR	THU
5320	1800z	05 Jan	'197' 817 30 = = 91442 … 50010 = = Fair, fast. Two single fig errors noted (Via Twente)	BR	TUE
	1800z	12 Jan	'197' Very weak – No useful copy	BR	TUE
	1800z	14 Jan	'197' Very weak – No useful copy	BR	THU
	1800z	19 Jan	'197' 656 30 = = 23474 … 64416 = = Fair, fast. QSB. Poor copy at times. Hesitant pauses noted	BR	TUE
	1800z	26 Jan	'197' 130 30 SK SK 77562 01515 … 15788 62152 = = 130 130 30 30 000	AB	TUE
	1800z	28 Jan	'197' 712 30 = = 98790 … 06713 = = Errors in groups 9 & 12. Group 17 was not repeated	AB	THU
5465	**0659z**	10 Jan	'197' 541 30 = = 17163 … 04436 = = Weak, very fast. Very poor copy	BR	SUN
5810	1500z	02 Jan	'197' 543 30 78608 … 60897 = = Weak/fair, fast. QSB. Irregular with many errors	BR	SAT
	1500z	09 Jan	'197' 184 = 30 = = 41783 … 94562 = = Weak/fair, slow. Numerous errors noted Format 4	BR	SAT
	1500z	16 Jan	'197' 860 30 = = 57150 … 14656 = = Fair, fast. No noted errors	BR	SAT
	1500z	23 Jan	'197' 500 30 = = 72993 … 19745 = = Weak/fair, fast. Numerous errors – Some incomplete grps.	BR	SAT
	1500z	30 Jan	'197' 615 30 = = ... … 33812 = = Fair, fast. BC pirate on freq. S9+20. – closed 1505z	BR	SAT

February 2021:

4490	2000z	02 Feb	'197' 719 30 = = 84933 … 39103 = = Fair, fast. No errors noted	BR	TUE
	2000z	04 Feb	'197' 844 30 = = 42471 … 08650 = = Fair/good, fast. No erors noted	BR	THU
	2011z (IP)	09 Feb	156 156 30 30 0 0 0 (Remote tuner Novosibirsk)	JPL	TUE
	2000z	16 Feb	'197' 585 30 = = 87573 … 83261 = = Strong, med-fast. No errors	BR	TUE
	2000z	18 Feb	'197' 847 30 = = 08007 … 03496 = = Good/fair, Med-fast.	AB/BR	THU
	2000z	25 Feb	'197' 414 30 = = 64805 … 37724 = = Good, fast. Numerous errors noted	BR	THU
5320	1800z	02 Feb	'197' 338 30 = = 56546 … 19296 = = Weak/fair, fast. Difficult copy at times	BR	TUE
	1800z	04 Feb	'197' 207 30 = = 09620 … ... . . = = Weak, med-fast. Faded after first grps. Very poor copy	BR	THU
	1800z	09 Feb	'197' 112 30 = = 40057 … 91564 = = Fair/good, slow. Grp02 sent as 95979 95070	BR	TUE
	1800z	11 Feb	'197' 537 30 = = 71612 … 4 . .52 = = Weak/fair, med-fast. Several errors. Poor copy at times	BR	THU
	1800z	16 Feb	'197' 217 30 = = 00854 … 72248 = = Fair, med-fast. No errors	BR	TUE
	1800z	18 Feb	'197' 893 30 = = ... … 36219 = = Weak/fair, med-fast. Very poor copy at times	BR	THU
	18000z	23 Feb	'197' 346 30 = = 75129 … 29113 = = Weak / fair, med-fast. QSB. Difficult copy at times	BR	TUE
	1800z	25 Feb	'197' 413 30 = = 64253 … 60757 = = Fair, fast. Several errors noted in 2nd half of msg.	BR	THU
5810	1500z	06 Feb	'197' 341 30 = = 36924 … 12565 = = Fair, med-fast. Several errors. Start DK sent as 341 414	BR	SAT
	1500z	13 Feb	'197' 641 30 = = 66115 … 51105 = = Weak/fair, med-fast. No errors noted	BR	SAT
	1500z	20 Feb	'197' 251 30 = = 07432 … 79026 = = Weak / fair, fast. QSB. Difficult copy	BR	SAT
	1500z	27 Feb	'197' Very weak – No useful copy	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.

3764	1452 (IP) - 1454z	03 Feb	17738 17738 (IP – 1452z) (Remote tuner Novosibirsk) 613 613 613 17549 17549 613 613 613 17549 17549 613 613 613 17549 17549 613 613 613 17549 17549 (1454z) TT (1454z)	JPL	WED
9969	0808z	23 Feb	333 67626 000	F5JBR	TUE
5306	0932z	23 Feb	783 (x3) 67313 (x2) 317 030 = 96702 32546 25652 03037 02222 20725 … / … 88854 = 317 030 040 02 111 000	F5JBR	TUE

M08a XVIII ICW / CW, some MCW

No Reports

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

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

Asiatic M12 Scheds

16253/15953/---	0010/0030z	11 Jan	294 000	(Via SDR Khabarovsk)	Danix	MON

European M12 Logs

January 2021: **New scheds in bold type**

5778/6778/8178	2200/20/40z	01 Jan	771 000	BR	FRI
	2200/20/40z	08 Jan	771 000	BR	FRI
	2200/20/40z	09 Jan	771 000	Gert	SAT
	2200/20/40z	15 Jan	771 000	BR	FRI
	2200/20/40z	16 Jan	771 000	BR	SAT
	2200/20/40z	22 Jan	771 1 (587 180) 44112 65213….	BR	FRI
	2200/20/40z	23 Jan	771 1 (587 180) 44112 65213….	BR	SAT
	2200/20/40z	29 Jan	771 1 (587 180) 44112 65213….	BR	FRI
	2200/20/40z	30 Jan	771 1 (587 180) 44112 65213….	BR	SAT
5886/6786/7486	0030/0050/ 0110z	05 Jan	874 000	Gert	TUE
	0030/0050/ 0110z	08 Jan	874 000	Gert	FRI
	0030/0050/0110z	12 Jan	874 000	Gert	TUE
	0030/0050/0110z	19 Jan	874 000	Gert	TUE
	0030/0050/0110z	26 Jan	874 1 (8851 100) 68528 23878 … 99591 01770 000 000	Gert	TUE
	0030/0050/0110z	29 Jan	874 1 (8851 100) 68528 23878 …99591 01770 000 000	Gert	FRI
6864/5764/---	2050/2110/2130z	01 Jan	875 000	BR	FRI
	2050/2110/2130z	06 Jan	875 000	BR	WED
	2050/2110/2130z	08 Jan	875 000	BR	FRI
	2050/2110/2130z	13 Jan	875 000	Gert	WED
	2050/2110/2130z	15 Jan	875 000	BR	FRI
	2050/2110/2130z	22 Jan	875 000	BR	FRI
	2050/2110/2130z	27 Jan	875 000	Gert	WED
	2050/2110/2130z	29 Jan	875 000	BR	FRI
6937/5737/4537	2210/30/50z	04 Jan	975 000	Gert	MON
	2210/30/50z	07 Jan	975 000	BR/Gert	THU
	2210/30/50z	11 Jan	975 000	BR/Gert	MON
	2210/30/50z	18 Jan	975 1 (484 93) 47664 41419 … 85227 54033 000 000	Gert	MON
	2210/30/50z	21 Jan	975 1 (484 93) 47664 41419….	BR	THU
	2210/30/50z	25 Jan	975 000	BR/Gert	MON
	2210/30/50z	28 Jan	975 000	BR	THU
10339	0130z	10 Jan	432 000 NRH on 11439kHz 0110z	Gert	SUN
11079/10279/9179	**2300z/20/40z**	**11 Jan**	**137 000**	Gert	MON
	2300/20/40z	18 Jan	137 1 (9856 125) 58742 02897 … 43026 85121 000 000	Gert	MON
11439/10339/9327	0110/30/50z	24 Jan	432 1 (8289 98) 92852 36042 … 08145 62239 000 000	AB	SUN
	0110/30/50z	28 Jan	432 1 (127 62) 12984 27794 … 46351 05171 000 000	Gert	THU
12162/11566/10711	1710/30/50z	13 Jan	546 1 (6504 110) 58367 32572 … 87811 61367 000 000	Gert	WED
	1700/20/40z	28 Jan	546 1 (2484 110) 17567 96346 … 46780 22748 000 000	AB	THU
	1800/20/40z	28 Jan	546 1 (8869 104) 18959 22120 … 52288 26316 000 000	AB	THU

14377/13461/12114	1300/20/40z	11 Jan	317 1 (3229 99)	60425 82999 … 15115 95664 000 000		BR/Gert	MON
	1200/20/40z	12 Jan	317 1 (5893 100)	46099 64469 … 08070 83752 000 000		Gert	TUE
	2000/20/40z	14 Jan	317 1 (3802 104)	59954 67527 … 35406 57941 000 000		Gert	THU
	1300/20/40z	18 Jan	317 1 (3608 99)	57144 30540 … 77559 47516 000 000		Gert	MON
	1300/20/40z	25 Jan	317 1 (226 131)	65166 03126 … 78954 42626 000 000		BR/Gert	MON
16357/17457/18357	0800/20/40z	06 Jan	343 000			Gert	MON
	0800/20/40z	12 Jan	343 000			Gert	WED
	0800/20/40z	20 Jan	343 1 (8102 93)	20288 70654 … 31977 47209 000 000		Gert	WED
	0800/20/40z	27 Jan	343 000			Gert	WED
11435/10598//9327	1810/30/50z	13 Jan	938 1 (1759 77)	44376 54119 … 58447 82376 000 000		Gert	WED

February 2021:

5734/6834/7634	0030/0050/0110z	02 Feb	786 000			Gert/HFD	TUE
	0030/0050/0110z	09 Feb	786 1 (7059 91)	67863 26059 … 43340 14026 000 000	QSA4, QSB3	E.SMITH	TUE
	0030/0050/0110z	16 Feb	786 000			Gert	TUE
	0030/0050/0110z	23 Feb	786 1 (253 121)	64411 03037 … ?7985 15438 000 000	Very weak	Gert	TUE
5832/6832/7732	2200/20/40z	05 Feb	887 1 (9859 232)	30139 37291….		BR/HFD	FRI
	2200/20/40z	06 Feb	887 1 (9859 232)	30139 37291 … 11175 33402 000 000		AB	SAT
	2200/20/40z	12 Feb	887 1 (9859 232)	30139 37291 … 11175 33402 000 000		Gert	FRI
	2200/20/40z	13 Feb	887 1 (9859 232)	30139 37291 … 11175 33402 000 000		Gert	SAT
	2200/20/40z	19 Feb	887 1 (236 198)	86656 55228 … 13270 62854 000 000	QSA3, QSB3/4	E.SMITH	FRI
	2200/20/40z	20 Feb	887 1 (236 198)	. . . . . 5 .22 . ….	Very Weak	BR	SAT
	2200/20/40z	26 Feb	887 1 (236 198)	86656 55228….		BR	FRI
	2200/20/40z	27 Feb	887 1 (236 198)	86656 55228….		BR	SAT
6937/5737/4537	2210/30/50z	01 Feb	975 000			Gert/HFD	MON
	2210/30/50z	04 Feb	975 000			BR	THU
	2210/30/50z	08 Feb	975 1 (6995 123)	29892 96168 … 17647 91740 000 000	QSA4, QSB2	E.SMITH	MON
	2210/30/50z	11 Feb	975 1 (6995 123)	29892 96168….		BR	THU
	2210/30/50z	15 Feb	975 000			Gert	MON
	2210/30/50z	18 Feb	975 000			BR	THU
	2210/30/50z	22 Feb	975 1 (480 81)	26440 77028….		BR	MON
	2210/30/50z	25 Feb	975 1 (480 81)	26440 77028 … 98987 58780 000 000		BR/Gert	THU
6941/5841/---	2050/2110/2130z	03 Feb	986 000			Gert/HFD	WED
	2050/2110/2130z	05 Feb	986 000			HFD	FRI
	2050/2110/2130z	10 Feb	986 000			Gert	WED
	2050/2110/2130z	12 Feb	986 000			Gert	FRI
	2050/2110/2130z	17 Feb	986 000			BR	WED
	2050/2110/2130z	19 Feb	986 000		QSA4	E.SMITH	FRI
	2050/2110/2130z	24 Feb	986 000			Gert	WED
9317/10484/11552	0530/0550/0610z	09 Feb	135 1 (4288 104)	81583 67030 … 41348 38910 000 000	[Note 1]	E.SMITH	TUE
	0530/0550/0610z	16 Feb	135 1 (7429 107)	11822 78975 … 13349 61210 000 000		Gert	TUE
9362/8062/---	**2300/20/40z**	**08 Feb**	**451 000**	**Slightly Distorted.**	**QSA3**	E.SMITH	MON
	2300/20/40z	15 Feb	451 1 (5479 87)	50228 69557 … 29647 13766 000 000		BR/Gert	MON
	2300/20/40z	18 Feb	451 1 (5479 87)	50228 69557….		BR	THU
	2300/20/40z	25 Feb	451 000			BR	THU
11464/10464/9164	0110/30/50z	04 Feb	441 1 (441 114)	19018 21560 … 24596 09003 000 000		Gert/HFD	THU
	0110/30/50z	14 Feb	441 000			Gert	SUN
12162/11566/10711	1710/30/50z	03 Feb	546 1 (4728 109)	9 .288 07249 …. NRH S.E. UK – Log via Twente SDR		BR	WED
	1700/20/40z	11 Feb	546 1 Very weak – No useful copy			BR	THU
	1710/30/50z	17 Feb	546 1 (5067 110)	33918 06081 … 15339 60757 000 000		AB	WED
	1700/20/40z	18 Feb	546 1 (1993 106)	53164 93542 … 44058 53911 000 000		AB	THU
	1710/30/50z	18 Feb	546 1 (285 69)	86269 54133 … 68652 07546 000 000	**(Unexpected Tx)**	AB	THU
	1800/20/40z	18 Feb	546 1 (4036 104)	70745 44483 … 32130 47540 000 000		AB	THU
	1700/20/40z	25 Feb	546 1 (4106 111)	99 .44 0 . .43 …. NRH on 12162 / 11566kHz		BR	THU
14377/13461/12114	1200/20/40z	02 Feb	317 1 (411 106)	85187 09232 … 34119 23622 000 000		Gert	TUE
	1300/20/40z	08 Feb	317 1 (6793 99)	90698 26384….		BR	MON
	1200/20/40z	09 Feb	317 1 (3287 99)	87601 36785 … 25254 39454 000 000		Gert	TUE
	1300/20/40z	15 Feb	317 1 (5049 100)	40412 33919 … 64498 85563 000 000		BR/Gert	MON
	2000/20/40z	18 Feb	317 1 (9344 101)	05102 46917 … 74529 78191 000 000		AB	THU
	1300/20/40z	22 Feb	317 1 (5764 103)	58420 50975 … 67833 86949 000 000		BR/Gert	MON
17415/18215/18715	0800/20/40z	03 Feb	427 1		(Via Russian SDR)	HFD	WED
	0800/20/40z	14 Feb	427 000			Gert	SUN

[Note 1] This schedule NRH on SDRs in Enschede, Netherlands & Silec, Poland. Received with Strong, clear signal from SDR Novosibirsk, Russia.

M12 11439/10339/9239kHz 1110/01300150z 24 Jan 2021

432 432 432 1 (R2m) 8289 98 8289 98

92852 36042 59876 22723 80600 63275 76948 76887 00938 80942
58216 51150 69375 53761 47297 64239 09266 17713 20725 31180
10359 43756 62014 65784 26439 84908 14820 37725 70483 20356
45715 60389 49061 30468 33594 91844 79532 64065 03956 55409
35551 77918 00385 43524 61483 04611 97091 71098 64451 76697
05092 01053 59097 28907 06114 11279 96047 95530 43902 95570
04692 70863 88504 60280 23922 63856 74269 23676 66977 79511
38975 33328 85677 08793 11698 12620 88772 08286 71980 42834
97104 60837 43580 88673 29810 03609 28511 98600 38911 35511
87228 62213 78661 99708 00808 26553 08145 62239 000 000

Courtesy AB

M12 5734/6834/7634kHz 0030/0050/0110z 09 Feb 2021

786 786 786 1 (R2m) 7059 91 7059 91

67863 26059 51885 70448 20243 29065 20282 90597 13187 72885
60188 75770 38921 14313 94613 37123 74618 96786 56694 78287
47402 19342 73165 41966 83246 23457 97012 20791 69502 55115
31309 12473 30665 91242 29709 48537 17411 08348 36067 03962
45580 78015 21342 56555 65992 70095 40712 17713 44291 81056
76335 61546 82194 63554 92211 89084 65128 23647 42511 93922
41019 31779 75629 08529 97743 59190 59249 85962 94736 56095
02038 46693 14726 39049 96999 35766 27482 62478 58991 36938
60222 73018 14211 08503 74036 18211 16500 58244 86004 43340
14026 000 000.

Courtesy E.SMITH

M12 12162/11566/10711kHz 1710/1730/1750z 17 Feb 2021

546 546 546 1 (R2m) 5067 110 5067 110

33918 06081 41144 61443 69327 92590 38877 20615 25079 58028
34209 83167 88084 85943 41964 60880 26975 81707 29859 95692
77341 69729 65918 43598 34990 77941 44943 75242 57309 80846
62575 91967 38728 30727 74435 43768 07800 30254 29603 10441
98243 78281 89444 18399 20971 21904 25587 29379 15738 44031
04851 67127 73471 00445 92513 24565 59857 85955 01256 32948
95327 94747 76942 09980 19807 49196 40633 15308 31784 21041
23785 08127 22927 93416 47813 82158 96687 22438 18674 38574
00495 36284 63730 40396 39700 14235 78039 18273 94199 41679
73258 63381 98092 43319 77539 92490 00621 01667 63128 77803
29913 50479 17591 83385 96794 45060 99002 48987 15339 60757
000 000

Courtesy AB

M12 5734/6834/7634kHz 0030/0050/0110z 09 Feb 2021

975 975 975 1 (R2m) 480 81 480 81

26440 77028 75999 55318 79850 12925 49158 92376 32553 50993
72080 29124 85602 21262 71519 83792 95876 44617 84399 60122
86583 57615 25204 81357 15051 56449 66957 16158 79479 25924
29302 56494 55857 07508 08320 21984 79975 17711 84426 41217
51923 31239 07333 91184 93418 14186 43464 97173 96281 20693
83088 87602 63638 63038 09541 43566 24737 15624 69286 49263
31705 25138 92940 89604 89314 73562 53974 91483 37579 31497
83029 06924 64519 89387 74990 93198 94532 79649 40794 98987
58780 000 000

Courtesy Gert

M14 IA MCW / ICW Short 0

January 2021:

17458	0930z	10 Jan	617 00000	(SDR Utwente)	ER	SUN
	0930z	25 Jan	617 00000	(SDR Utwente)	ER	MON

February 2021:

15994	0930z	11 Feb	617 943 182 = 12385....etc (Repeat of yesterdays' message)	RNGB	THU
17458	0930z	10 Feb	617 (943 182 = 12385 18945 … 76329 16470 = 943 182 182 00000	AB	WED

M14 17458kHz 0930z 10 February 2021

617 (R4m) 943 943 182 182 = =

12385 18945 94285 08117 10646 80373 50316 16469 31471 56052
81120 27822 26691 94330 57480 44654 45679 02363 39003 04277
37825 32226 87612 98635 79716 34373 77887 07732 34346 31081
71994 93674 54722 19291 67882 76299 01463 76725 54389 26711
14148 83466 59046 20134 69648 64091 97251 64962 54838 79173
32101 02940 84953 72131 40514 81916 08769 28280 00800 35222
85984 55123 95380 77263 65993 77459 64007 07171 39516 40401
44451 66400 47361 48852 19652 17072 46522 50255 01127 96824
83279 25614 29928 58279 09099 32360 10853 27115 07689 28720
10489 12165 63867 64302 54626 02693 98915 82889 99093 40622

32441 73922 29886 51817 88041 79945 42569 14109 07650 75986
91270 48357 10679 30318 20810 01951 51176 69365 76254 53725
90294 97643 32679 03243 74122 53311 86753 25677 50668 83070
77440 37253 25815 96720 39497 52732 80898 83722 76020 38116
17380 31940 94763 65230 89099 47115 38983 09238 70727 14113
51490 25291 67046 51108 79073 30181 04695 65581 03262 92850
54113 79673 07957 35412 51964 80574 97693 17621 27594 15454
59092 08388 10701 70351 87744 34736 18145 17617 15417 41150
76329 16470 = =

943 943 182 182 00000

Courtesy AB

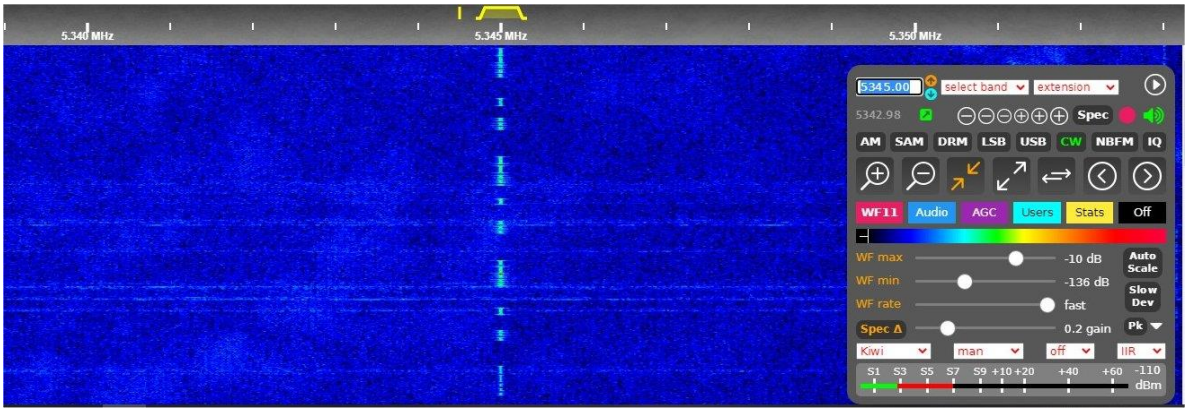
M23 O ICW

The seemingly endless & intriguing output from M23 continues. Using the global SDRs established that the transmitted signal is strong across Europe & Scandinavia, although in Eastern Europe signals were sometimes noted as below that of Western Europe.

January:

M23 Daily Schedule of Transmissions Logged from 01 January – 14 January

Frequency (KHz)	Time (UTC)	Duration	Call
5345	0856 – 0916	20 minutes	ST3
5345	1856 – 1916	20 minutes	ST3



M23 5345kHz 1856 – 1916z 03 January Showing Strength of Signal Received on Novosibirsk SDR ***Courtesy JPL***

Following this sequence, M23 again changed and started sending a sequence of three figure or three letter codes on various schedules throughout the day. This is much more a return to the old recognised format, although activity is higher & on a larger number of frequencies than previously seen. Usually a single or paired set of frequencies has been the previous pattern, although changes of frequency throughout the day has been noted prior to this set of logs.

This sequence of schedules are believed to have commenced on Friday, 15 January. Logs may not be complete – Particularly the earlier logs, as further active schedules were later discovered.

With many of these transmissions & also on active frequencies where no transmission was due, the characteristic single 'pip' was noted a few minutes before the transmission was due to commence.

Thanks to Ary, AB, whose excellent work identified all these schedules on Saturday, 16 January, giving us the pattern for following transmissions.

Transmissions Logged on Saturday, 16 Jan

	Time	0755z	0855z	1056z	1156z	1456z	1556z	1856z	1956z	2056z
	Duration	R15m	R15m	R15m	R15m	R15m	R15m	R15m	R15m	R15m
Freq kHz	5345	O O O			O O O					O O O
	5873		O O O			O O O		O O O		
	5921			O O O			O O O		O O O	
	6961									

Transmissions Logged on Sunday, 17 Jan

	Time	0755z	0855z	1056z	1156z	1456z	1556z	1856z	1956z	2056z
	Duration	R15m	R15m	R15m	R15m	R15m	R15m	R15m	R15m	R15m
Freq kHz	5345	O O O			O O O					O O O
	5873		O O O			O O O		O O O		
	5921			O O O			O O O		O O O	
	6961									

Transmissions Logged on Monday, 18 Jan

	Time	0755z	0855z	1056z	1156z	1215z	1456z	1856z	1956z	2056z
	Duration	R15m	R15m	R15m	R15m		R15m	R15m	R15m	R15m
Freq kHz	5345	O O O			O O O					O O O
	5873		O O O				O O O	O O O		
	5921			**5 5 5**					O O O	
	6961					O O O				

Transmissions Logged on Tuesday, 19 Jan

	Time	0755z	1000z	1100z	1120z	1400z	1455z	1500z	1800z	2000z	2020z
	Duration	R15m	**R30m**	R15m	R15m	R15m	R15m	R15m	R15m	R15m	R15m
Freq kHz	5345	O O O		O O O						O O O	
	5873					O O O	O O O		O O O		
	5921		**T T T**					**5 5 5**			
	6961				O O O						O O O

Transmissions Logged on Wednesday, 20 Jan

	Time	0700z	0720z	0800z	1000z	1800z	2000z
	Duration	R15m	R15m	R15m	R15m	R15m	R15m
Freq kHz	5345	O O O					O O O
	5873			O O O		O O O	
	5921				**5 5 5**		
	6961		O O O				

An additional frequency was found in use on Thursday, 21 January thanks to a contact of Ary, in progress ending at 1830z – (Projected as 15 minute schedule).

Transmissions Logged on Thursday, 21 Jan

	Time	0700z	0800z	1000z	1100z	1120z	1400z	1500z	1800z	1815z	1900z	2000z	2020z
	Duration	R15m	R15m	**R30m**	R15m	R15m	R15m	**R30m**	R15m	R15m	**R30m**	R15m	R15m
Freq kHz	5345	O O O			O O O							O O O	
	5873		O O O				O O O		O O O				
	5921			**T T T**				**T T T**			**T T T**		
	6961					O O O							O O O
	7442									O O O			

T**ransmissions Logged on Friday, 22 Jan**

	Time	0700z	0720z	1100z	1120z	1400z	1420z	1500z	1800z	1820z	1900z	2000z	2020z
	Duration	R15m	R15m	R15m	R15m	R15m	R15m	**R12m**	R15m	R15m	**R12m**	R15m	R15m
Freq kHz	5345	O O O		O O O								O O O	
	5873					O O O			O O O				
	5921							**3 3 3**			**3 3 3**		
	6961		O O O		O O O								O O O
	7442						O O O			O O O			

Transmissions Logged on Saturday, 23 Jan

	Time	0700z	0720z	1000z	1100z	1120z	1400z	1420z	1500z	1800z	1820z	1900z	2000z	2020z
	Duration	R15m	**R60m**	**R30m**	R15m	R15m	R15m	R15m	**R12m**	R15m	R15m	**R12m**	R15m	R15m
Freq kHz	5345	O O O			O O O								O O O	
	5873						O O O			O O O				
	5921			**T T T**					**3 3 3**			**3 3 3**		
	6961		**E E E**			O O O								O O O
	7442							O O O			O O O			

Transmissions Logged on Sunday, 24 Jan

	Time	0700z	0800z	1000z	1100z	1120z	1400z	1420z	1500z	1800z	1820z	1900z	2000z	2020z
	Duration	R15m	**R60m**	**R30m**	R15m	R15m	R15m	R15m	**R12m**	R15m	R15m	**R12m**	R15m	R15m
Freq kHz	5345	O O O			0 0 0								O O O	
	5873						O O O			O O O				
	5921			**T T T**					**3 3 3**			**3 3 3**		
	6961		**E E E**			O O O								O O O
	7442							O O O			O O O			

Transmissions Logged on Monday, 25 Jan

	Time	0700z	0720z	0800z	0820z	1000z	1100z	1400z	1420z	1500z	1800z	1820z	1900z	2000z	2020z
	Duration	R15m	R15m	R15m	R15m	**R30m**	R15m	R15m	R15m	**R30m**	**R8m**	R15m	**R30m**	R15m	R15m
Freq kHz	5345	O O O					O O O							O O O	
	5873			O O O				O O O			0 0 0*				
	5921					**T T T**				**T T T**			**T T T**		
	6961		O O O												O O O
	7442				O O O				O O O			O O O			

* Long 0

Transmissions Logged on Tuesday, 26 Jan

	Time	0700z	0720z	0800z	0820z	1000z	11**14z**	11**56z**
	Duration	R15m	**R33m**	R15m	R15m	**R30m**	**R30m**	**R42m**
Freq kHz	5345	O O O					**E E E**	
	5873			O O O				
	5921					**T T T**		
	6961		**E E E**					**E E E**
	7442				O O O			

3 3 3 transmissions are 12 minutes long.
0 0 0 transmissions are 8 minutes long. (Long zero)
O O O transmissions are 15 minutes long.
5 5 5 transmissions are 15 minutes long.
T T T transmissions are 30 minutes long.
E E E transmissions are 60 minutes long. (Except on Tue, 25 Jan – where a 33 minute & the final 42 minute transmission were logged)

… & that was it for January. A huge amount of activity with a daily output that largely followed the same schedules – although there were variations noted each day. Either one or two slots were missing or the output for a particular slot was changed. What is clear is that a large amount of effort & organisation has gone into these schedules & transmissions. But it wasn't over. We still had February's transmissions to come…

February:

Daily Schedule Logged from Tuesday, 02 February – Sunday, 07 February (Inclusive)

Frequency (KHz)	Time (UTC)	Duration	Call
5345	1600 – 1722z	82 minutes	O O O

Daily Schedule Logged from Monday, 08 February – Thursday, 11 February (Inclusive)

Frequency (KHz)	Time (UTC)	Duration	Call
5345	1600 – 1647z	47 minutes	**0 0 0 (Long Zero)**

A break with no transmissions heard from Friday, 12 February to Sunday, 14 February inclusive before returning on Monday, 15 February with a return to the same schedule as noted from 02 - 07 February.

Daily Schedule Logged from Monday, 15 February – Sunday 21 Feb (Inclusive)

Frequency (KHz)	Time (UTC)	Duration	Call
5345	1600 – 1722z	82 minutes	O O O

Daily Schedule Logged from Monday, 22 February – Thursday, 25 February (Inclusive)

Frequency (KHz)	Time (UTC)	Duration	Call
5345	1600 – 1647z	47 minutes	**0 0 0 (Long Zero)**

No further transmissions logged for the remainder of February.

Thanks to BR, Gary, JPL anon listener & particular thanks to Ary, (AB), for his comprehensive logs of this station.

Peter, (PoSW), also managed some extensive monitoring of the M23 activity & his detailed report is included below in full;

M23 CW on 5345:- by PoSW

The daily M23 CW sending a slow, "ST3" for twenty minutes starting at around 0857 UTC and again at 1857, continued over into the New Year, starting a second or two earlier with each passing day, the early sending always a strong signal and the later one usually much weaker. Last appeared on January 15th but M23 had not gone, found on the following day with a new modus operandi:-

15-Jan-21, Friday:- 0855:39s UTC, starting up with "ST3", strong signal. No sign of the later transmission on 5345 kHz when checked at around 1900 UTC.

16-Jan-21, Saturday:- Nothing heard on 5345 at 0856 UTC. However, M23 showed up later in a different guise:-
1158 UTC, strong M23 sending 3 x 3 dash , i.e. "OOO", stopped after 1210 UTC.

17-Jan-21, Sunday:- 0755:35s approx. earlier transmission of "OOO", strong signal, stopped 0810:34s UTC.
1155:35s UTC, "OOO" again, stopped 1210:34s UTC.

18-Jan-21, Monday:- 0759 UTC, in progress with "OOO", strong, stopped at 0810:33s UTC.
1204 UTC, in progress with, "OOO".

Changed again on the following day:-

19-Jan-21, Tuesday:- 0755:30s UTC, "OOO" until 0810:32s.
1102 UTC:- transmission in progress an hour earlier than expected, still "OOO", stopped at 1115:40s UTC.
Nothing heard at 1200 UTC, however there was an evening transmission:-
2002 UTC, "OOO" in progress, stopped 2015:40s, weak signal.

20-Jan-21, Wednesday:- 0703 UTC, also an hour earlier than of late, stopped 0715:36s UTC.

The schedule now appears to be fifteen minutes of "OOO" starting just after 0700, 1100 and 2000 UTC. Heard at these times daily, last appearance of all three on 25-Jan:-

25-Jan-21, Monday:- 0700:28s UTC, weak signal, stopped 0715:29s.
1100:29 UTC, strong, stopped 1115:29s.
2000:28s UTC, unusually strong for this sending, well over S9, stopped 2015:29s UTC.

26-Jan-21, Tuesday:- 0700:27s, "OOO" until 0715:26s.
No sign of a transmission at 1100 UTC. Monitored until approx. 1105z, nothing heard but was active when checked about ten minutes later:-
1115 UTC, strong slow CW sending the letter "S". Stopped after 1144z.

Nothing further heard on 5345 on the remaining days in January but M23 was back in February with a transmission of much longer duration:-

01-Feb-21, Monday:- 1707 UTC, M23 in progress on 5345 with "OOO", strong signal, stopped before 1723 UTC. Assumed to have started at 1700z but monitoring on following days showed this was an under-estimation by one hour!

02-Feb-21, Tuesday:- 1600:15s UTC, starting up with "OOO", strong signal, quick pre-transmission "blip" had been heard just after 1557 UTC.
Ended some time after 1722.

Showed up daily in early February, starting a bit after 1600z and ending a bit before 1723. Wonder why they didn't carry on until 1730 and make it a round hour and a half?

The length of transmission changed some time after the first week of February:-

08-Feb-21, Monday:- 1600:6s UTC, strong signal, didn't notice the time of ending today.

09-Feb-21, Tuesday:- 1600:2s UTC, "OOO", strong signal, checked at 1652z but nothing there, must have ended early.

10-Feb-21, Wednesday:- confirmation that M23 is now on short time, started just after 1600, stopped after 1647 UTC.

11-Feb-21, Thursday:- Started exactly on the hour at 1600 UTC, stopped at 1647:6s UTC. Total transmission time of about 47 minutes, then, Strong signal.

12-Feb-21, Friday:- That seemed to be the end of this particular manifestation of M23, nothing heard when 5345 was monitored from 1600 to 1700 UTC and nothing heard on Saturday the 13th or Sunday the 14th.

However, seems like M23 was just taking a long weekend break:-

15-Feb-21, Monday:- 1603 UTC, 5345 kHz, back on with "OOO" in progress, strong signal and has returned to the long transmission, stopped after 1722 UTC.

16-Feb-21, Tuesday:- 1600 UTC – minus 10 seconds, starting up with "OOO", stopped at 1722:21s UTC.

Started and ended at these times - albeit slightly earlier by a second or two with each passing day- up to and including 21-Feb-21, Sunday when it started at 1559:44s UTC and ended at 1722:11s. With the start of the new working week M23 went back on to short time working:-

22-Feb-21, Monday:- 1559:41s UTC, starting up with, "OOO"; however, on checking at around 1657 UTC nothing heard, M23 had gone.

23-Feb-21, Tuesday:- 1559:40s UTC approx. "OOO", strong signal, stopped about 20 seconds before 1647, so back to a transmission of 47 minutes duration.

By the way, at 1605 UTC on Tuesdays and Sundays there are "noises off" as a strong transmission from E11 fires up "one down" on 5344 kHz, today's example being just over three minutes of "230/00".

Continued for two more days in February starting before 1600 and ended before 1647 UTC until the last Thursday of the month:-

25-Feb-21:- 1603 UTC, missed start, M23 "OOO" in progress, ended 1646:40s UTC.

Nothing heard on the following day, Friday the 26th

Not heard on the remaining two days of February. *[Thank you Peter. An excellent report!]*

Morse Stations - Not Number Related

M51 XlX

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

No reports – M51b format in use

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

3881//6825

1230 - 1314z	01 Feb	Lundi-Leçon	11-2/1 Codé	11-2/2 Clair,	11-2/3 Codé,	11-2/4 Clair (420 grps/hr)	BR	MON
1230 - 1306z	03 Feb	Mercredi- Leçon	13-2/1 Codé,	13-2/2 Clair,	13-2/3 Codé,	13-2/4 Clair (720 grps/hr)	BR	WED
1230 - 1304z	05 Feb	Vendredi- Leçon	15-2/1 Codé,	15-2/2 Clair,	15-2/3 Codé,	15-2/4 Clair (960 grps/hr)	BR	FRI

3881/6825

0920z	13 Feb	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ	AB	SAT

SAMEDI 6/LEÇON NUMÉRO 1/3 VITESSE 1200 CODÉ =
MXSKW NCJDA KDOWP BCMJK AZMNS SKWID NXSOQ NXSDF HJCSI 26530
BCHSW .,='VA BZAHA CXSHA JAQIS NXZKA LDKIW CBSHA ZALOQ BXNSJ
02148 MDYUG ?/.,AS ZAQIS HXAKQ XMNSA AQPOE CNSHW LDOJF XNWMA
LDKOW 48901 SHWTD /.?', MVKDL SAHQB XVSHD DJWIF SALOJ NCSJS
QAQSD NNCJE 74302 DRWED ?/.VA' NVBXC NSWPO NDEYJ DJKED AXZVS
NVLRU LDPEJ WRSFU 43269 HGKRO /'AS,? KDWIC SNSJW VZWPO LFMKR
DREGN MCEIS MCKDO AFQTH 01658 GSWPO .+',/ NSYWP ASQEZ NXHWY
BXWJK LFPEI CNMWI ZCVQT MVIEW 49635 KFUEI VA.'AS/ VXBAQ KAOWP
BCHWQ CVDBE FKEIS QEAFY CBDFW VFLPE 41203 SPIJG ?/'VA' ZAJSU
VXBHQ XHQJS BXBWH ALPQE BCBDY CBXBX NXWPO ?.,'/ GDWYD 56320
AZNXM WLJSS FSWTH BXVCS VMKDA ZBCYQ LSOPD VCNWM 93502 JDIWK
?.,VA, ZAUSH BDHWA BXVSG GDYWL POFKE NDJAI BCVXA MQIKD MVLAO
56398 KDOWL .,='/ JXUWG GDJAL PLGOE +

SAMEDI 6/LEÇON NUMÉRO 2/3 VITESSE 1200 CLAIR =
MEKHISSI LES SUIT, PRÊT À RÉAGIR QUAND MUTAI COMMENCE À ACCÉLÉRER, FERMANT VIRILEMENT LA PORTE À L'AMÉRICAIN JAGER. IL N'EST PAS PERTURBÉ QUAND, À 700 MÈTRES DE L'ARRIVÉE, LE TENANT DU TITRE, BIMIN KIPRUTO, CHUTE TOUT SEUL. IL SE RELÈVE, REJOINT VIE LA TÊTE DE LA COURSE, MAIS PERD SON SCEPTRE DANS CET EFFORT. MEKHISSI N'A PLUS ALORS QU'UN SEUL ADVERSAIRE À SA MESURE.EZEKIEL KEMBOI, DÉJÀ SACRÉ EN 2004 ET DOUBLE CHAMPION DU MONDE. IL LE SURVEILLE, MAIS PAS ASSEZ. C'EST UN RENARD, CE KIMBOI, COMMENTE LE FRANÇAIS. ON ÉTAIT À TROIS CENTS MÈTRES DE L'ARRIVÉE, J'ÉTAIS QUATRIÈME, CONCENTRÉ SUR LE FRANCHISSEMENT DE HAIE ET C'EST À CE MOMENT-LA QU'IL A ATTAQUÉ. C'EST VRAIMENT MALIN DE SA PART. C'EST LÀ QUE JE PERDS LE TITRE (8'18'56 POUR KEMBOI ET 8'19'08 POUR LE FRANÇAIS). +

CQ DE FAV22 VA

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

3881//6825
0832z 13 Feb Non-stop 5-character groups composed of M51a messages AB SAT

The spaces between the messages were not transmitted but entered afterwards.

DJKJF ERYRI VPLTO BCVDS ZXASQ MVLGK OYPUI GFHDJ CSRED 16580
BCJWI .,?AS= LMPOY CXRAE XVDRE NBFHG AWQES BCZXR BNFIR PGLRO
.?.,' BCHDE 42369 LAPQI WNSYV VCSDW AQLFP RHFUS BCVDW NKGIR
BCXWY 54783 CBHQA VA'/., YHHBY CXDWE VNYEA AWQEV XVSFW MBFUR
AWQLG RYUSN 14790 XMLPO ,.AS?VA AJAUW XCSAR LDOEJ GMNRY XBSTW
DSEWX VNFJE LEPWM 65874 VZQJA +/VA., ASZXW CHYDE KFOLG VCRWT
CXARQ MFYRU NFNFY AEQDS 12680 GBDHE /.'.? VSFWG XASZW HDJWU
LFPRO CXWRG LSHDF VXRAU CLNOP 54103 BCUEL ,.?'/ BCEUF LGPTO
VZAXW

JHFRD NJSDE ZPOYT QRWET IYUTO POLKJ ZCXVB MNJHB ASFDG 13957
VXSGW .,'ASVA QDSSG LJPUO NVBFG YRTQW ASZXA QPLIH BCVDN HDYEI
10369 VXSUW 'AS?., TRYEU QEWAR BCXDS MJKHU RQEOH BGHVT XAZSQ
MNKHJ 47850 BQTBS VAAS/?. XCZPQ MLHPI XASQW LCMEY RGSGW XCADQ
PLKMO ZXCVD 75301 XUWDL ./?,= PLOIU BVDGW QTYRE ZXQWU PRUTY
BDGRT XCSRW OKRYU 85247 GRWTJ /?.,' FBFBI PLOIU VZBQI ETFGR
'AS./? NVDME 52036 VDGFS SHGCD AZSQL MNEYH DJFVO ALKCJ QWIVJ
BDGVX 50369 QAVNR 'VA+.? CBXZN MLFKE CALSD ETFUB

GFDTE XVWBQ ABNHU EJLQP AMLIK WNQHZ SJQHS DGRTC XVQJA JUHKD
VCGFY RHQJA KWLQO ZTDFS 35271 WNDGR JQKIL PMAIU 67349 NWJDO
YHDTC XVSFE ZHQJA KJQUH NWJFG HRTYU SKLOI MQPAZ BHPAK UJDGC
45270 37658 XVCBD WNQHA JKQLA MPLIK JNDGR VXGQJ HDKRT UJFHV
BCNXH WJQKZ KALMP OIRTD FHCVX 01878 DHNCJ SKRTZ SJWNQ HNGTR
XCWVS QNBHA JQKAL MQLKO PAOQL NCHFG RTDFX WBQJH GBDJX etc. etc etc.

3881//6825
0946z 13Feb Non-stop 5-character groups composed of M51a messages AB SAT

The spaces between the messages were not transmitted but entered afterwards.

MJHEU ZOIWG HLODG PQUTB KDFRB ASMNT LXCVU HUDVO SKTNI 58726
BCSWK AS'?., POFKH SVRYX MZLFW GOUVJ AQDEG CNTHP KLJSG PNYFJ
33948 BXAJQ .,+/VA PLMME GBYXG JHSRR LMAUR BYDIJ VWAQT ZOUIH
MEGSQ 63591 VAQHS ?.AS,/ AIRFC NTGOK CWSUN SOKAT SMHES OPLFR
BTANS PFIRG 36115 BCZMA /?.', SICAV HYQWO VHESR OKSBY FKLJS
SMEXR ZZYGT LIMER 22654 ZCZAQ ,'VA,AS IMSUY WASPS LUCKY SWAPS
32598 VZAQG ,?.,' MONEP NYDCF LOIUD OPTIO RATES FORWD FUTUR
KIFRC 36541 CZPLO /?VA=' BIDSS GREAT YHTFD VMNSI

XCWVQ AGBWH QJAKL QNWJE SUJAI KQLAP MQNHB XVWHD SJQKA ZUSHQ
YHDUH WCXGF QJAHL QJNKW EUHSI AOLQP AMIJD XBWGR OLAPM QNWBD
XVSGR 35289 10378 SJNXV CHBFG RTSUJ AIKQL WMQPL NJKQI ZYHDG
SJQKA LWMPL CHDFX WVSDZ QHGYR QKAIJ WNGOP AMLIF UYUYT GFBCH
SNJKL QMAPY DGXVC BXGCT RTGDH 46387 SBXJA 10638 XBDGH QJAKL
IKAOL XBCVF DHXBW QNAKL QMAPU DGSJQ KANVX WBERS QHAJK QLAMP
RTDGS YHGFC XBWVS QDWXC SGERZ AJHKQ LMCBF HNXRV SHQJE ZUJKI
SLQMA OLJNB VCGRT SHFZA 27189 DHVXB WNSGA QCWGD XJQKL APMLO
JHNBG UJHNV XCDGE STGZA QHWVS QJAUK QLAMP NHDGX VCGER 35210
WNXHR APMNC XBWHS QHBGE ZYHSG QJNWK AUJDG SDWCQ XBWJU HYETD
VXKQL KJDGZ QBWNH 36106 XVCGD 35265 QBWHA ZUJHD FVCBX WNQJA
GHDFS QJHYT IKDGS WBXVD SHQGA KLMQP JAPLI JNBVH XJQKI BXJDG

PAKDF DBWHQ AJNKQ WLAMP LKIOU GBDHS ZTQDW XVSHZ AHJAJ WJSUG
OALKH BCVFG DGXIU ZJFKA WJQKA UJHWK QLAYT 36281 XNSHQ AJKAW
LAGHD LSJQU ZUTGS XVCKS WBQKA UJQKA WBDHS 36810 XNCJQ AJWKA
KQHAU HNDJS XNWJQ AKLQO APMUT DBCHX WNSHE 37856 QBWHA JQUAG
LOUJG BCHXT DGSUA WNQJA UHDGS XVCJQ WNJKU RISKZ QKLAY BVXHQ
KJGFD XVWBS 18738 SJHTG 26748 WNXBD QGAUJ QJKLI OLAYT DGAIM
MLSHQ VXBDG ETZFS AHBWJ BXJFC SJKUQ WNGBD XCAUH QKJAY ZTDKL
QMAPO IKJNB VCHDT 46893 SBWNG QHAJY HDGST ZBXJS WJNKL QMAPK
BNHYT UJGRD CWVZU QNBHJ AKQLI OJIUY DHVBC 46207 DHBCJ SNXHR
SJAKU KQLGN BVCXD WBSGR SJAGY 35276 BXHDG RTSFZ WXQCA NJKQG
WNVGR 76354 //653 SGBCJ SKAUH WBVDG SNJKQ AUJGF CBXYR SHAOL
QMAPK UJBHG XVSFZ QHATG XHSUJ WBSGZ 37549 NXBDG QJAUH XVCJD etc. etc. etc.

M89 O

This is a summary of activity from the M89 stations.

Traffic & Operator Chat from M89

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

3127	4037	4350	5139	6645	10456
3380	4058	4364	5145	6668	
3538	4123	4365	5241		
3570	4206	4382	5437		
3705	4221	4464	5449		
3808	4226	4514	5714		
3890	4231	4543	5725		
3980	4236	4545	5736		
	4263	4559	5767		
	4314	4587			
	4322	4798			
	4326	4950			
	4348				

New Scheds for Jan / Feb 2021: From logs submitted from JPL & F5JBR

3565//4718	New Round Slip & Frequency	First heard 02 January	V BSA5 (x3) DE TP4C (x2)	JPL	
	Believe this to be move in frequency and Round Slip for QYE2 DE 9WFV. This was the last new frequency that was missing.				
4718	New Round Slip & frequency	First heard 01 January	V BSA5 (x3) DE TP4C (x2)	JPL	
	Believe this to be move in frequency and Round Slip for QYE2 DE 9WFV previously on 3596 // 4888kHz				
5602//3565	New Frequency for this Round Slip	First heard 10 Feb	V BSA5 (x3) DE TP4C (x2)	JPL	WED
6378//7054	New Round Slip & frequency	First heard 01 January	V BSA5 (x3) DE TP4C (x2)	JPL	
	Believe this to be move in frequency and Round Slip for QYE2 DE 9WFV previously on 6824 // 8182kHz				
4043	New Round Slip & frequency	First heard 01 January	V IW6S (x3) DE 5D6T(x2)	JPL	
	Believe this to be move in frequency and Round Slip for yet to be determined M89 family.				
5884	New Round Slip & frequency	First heard 01 January	V IW6S (x3) DE 5D6T(x2)	JPL	
	Believe this to be move in frequency and Round Slip for yet to be determined M89 family.				
6140	New Round Slip for this frequency	First heard 21 Jan	IW6S DE 5D6T V	F5JBR	
4043	New and previously unknown Round Slip	First heard 26 January	V L5S3 (x3) DE Z4Y6 (x2)	JPL	
4718//6140	New and previously unknown Round Slip	First heard 25 January	V L5S3 (x3) DE Z4Y6 (x2)	JPL	
4021	New frequency for this Round Slip	First heard 19 February	V 8RVF (x3) DE 7TEF (x2)	JPL	

Erroneous Round Slip

4043	Sending Z4Q6 vice Z4Y6	Logged 02 Feb – 24 Feb	V L5S3 (x3) DE Z4Y6 (x2)	JPL
6140	Sending Z4Q6 vice Z4Y6	Logged 24 February	V L5S3 (x3) DE Z4Y6 (x2)	JPL

Chart of M89 Freq & Call signs heard in Jan / Feb 2021 New Scheds shown in Bold Type From logs submitted from JPL & F5JBR

Freq in KHz	Call Slip
2984//NRH	V QWS1 (x3) DE 87DS (x2)
3565//NRH	**V BSA5 (x3) DE TP4C (x2)**
3565//4718	**V BSA5 (x3) DE TP4C (x2)**
3565//4718//6378	**V BSA5 (x3) DE TP4C (x2)**
3565//4718//6378/7045	**V BSA5 (x3) DE TP4C (x2)**
3565//5206	**V BSA5 (x3) DE TP4C (x2)**
3850//4860//5640	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
3850//4860//5640//6320//6840	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
3850//4860//5640//6320//6840//8360	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
4021	**V 8RVF (x3) DE 7TEF (x2)**
4043	**V IW6S (x3) DE 5D6T(x2)**
4043	**V L5S3 (x3) DE Z4Y6 (x2)**

Freq in kHz	Call Slip
4718	**V BSA5 (x3) DE TP4C (x2)**
4718//6140	**V L5S3 (x3) DE Z4Y6 (x2)**
4720//5150	V WNF(x3) DE FXM (x2) (R5) (Hand sent)
4898//NRH	V QWS1 (x3) DE 87DS (x2)
5640//6320//6840	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
5640//6320//6840//8360//10640	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
5640//6320//6840//8290//8360//10640	Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5)
5884	**V IW6S (x3) DE 5D6T(x2)**
6140	**IW6S DE 5D6T V**
6140	**V L5S3 (x3) DE Z4Y6 (x2)**
6378//7045	**V BSA5 (x3) DE TP4C (x2)**
8360//NRH	Q2M de NYZ VVV

3127		1832z (IP) 02 Jan	IEC BT 9606 AR K (Exercise related)	(Remote tuner Novosibirsk)	JPL	SAT
	0MIK	1842z (IP) 20 Jan	DE 0MIK R QSA IEC BT 6956 AR K	(Remote tuner Novosibirsk)	JPL	WED
3211	Y3BK	1409z (IP) 23 Jan	Y3BK (8PQD) Working 1WBZ (5QTK), 4HIA (CT4B), OQ2D (SNM1), SU7L (WB5E), LT9D (II1B), HE9D (QSO : calling, Exchanges QSA, Authentication: send Group 4 numbers, exchanges Number Op – For Net station is 055 Note : the Net station uses a series of call signs and the Outstations respond by using another series of call signs; Network already heard on January 29,	(Via remote Sweden)	F5JBR	SAT
3538		1006z (IP) 10 Feb	NR 0226 CK 80 24 0210 1800 RMKS CQ III K	(Remote tuner Taiwan)	JPL	WED
3705		1546z (IP) 05 Feb	IEC BT 5931 AR K (Exercise related) NR 019/EX CK 99 55 0205 2310 RMKS 4413 TO 1973 TO 1044 TO A323 K NR 019/EX CK 99 22 0205 2310 RMKS	(Remote tuner Novosibirsk)	JPL	FRI
		1944z (IP) 08 Feb	NR 023 CK 81 93 0209 0344 RMKS 8119 TO 9981 K	(Remote tuner Novosibirsk)	JPL	MON
3789	8PQD	1444z (IP) 29 Jan	Outstations : II1B, CT4D, WB5S, D6UE, CTV6, 3L1B, DCQ6, L4NR, 3.. Q, YQI3, 4QTW, SNM1, Working 8PQD (is Y3BK) (QSO & Repeat Groups MSG) In Duplex – Qsx on 4125 – End Traffic at 1501z	(Via remote Sweden)	F5JBR	FRI
4123		1222z (IP) 04 Feb	MSG NR 5210 CK 61 91 0204 2020 RMKS 1259 TO 1254 K MSG NR 0439 CK 61 91 0204 2020 RMKS 1254 TO 1259 K	(Remote tuner Novosibirsk)	JPL	THU
4221		1203z (IP) 25 Feb	NR 1023/EX 2003 BT V3TE5/HBGH AR	(Remote tuner Hong Kong)	JPL	THU
4263		1153z (IP) 25 Feb	NR 2034 CK 65 98 0225 1955 RMKS BT 3968 TO 8385 AR K	(Remote tuner Hong Kong)	JPL	THU
4314		1203z (IP) 24 Feb	MSG NR 5 NR 1263... 91 75 0224 1955 RMKS 9683 TO 337. K	(Remote tuner South Korea)	JPL	WED
4350		1209z (IP) 23 Feb	NR 0928/EX 2006 RMKS 9110 TO 9450 BT JW/PBL AR K NR 0929 CK 200 52 0223 2000 RMKS 9110 TO 9450 BT	(Remote tuner South Korea)	JPL	TUE
4364		1131z (IP) 23 Feb	NR 5449/EX 1910 RMKS 0419 TO 0479 BT A3M/O.G AR K	(Remote tuner Hong Kong)	JPL	TUE
4587		1837z (IP) 27 Jan	R QSA 2 IEC BT E545 AR K (IP – Exercise related) MSG NR 245/EX CK 91 87 0128 0200 RMKS 6890 TO 9477 BT	(Remote tuner Novosibirsk)	JPL	WED
4798		1927z (IP) 27 Jan	NR 6238/EX 0327 BT B3K/S9A AR	(Remote tuner Hong Kong)	JPL	WED
4950		1108z (IP) 05 Feb	NR 5167 CK 71 48 0205 1840 RMKS D091 TO D0 …	(Remote tuner Novosibirsk)	JPL	FRI
5139		1103z (IP) 01 Feb	NR 3018 CK 71 65 0201 1916 RMKS 7898 TO 7893 K	(Remote tuner Korea)	JPL	MON
5198		1630z (IP) 09 Jan	210/XZ689/7607/96/69/66/X289A/COMM/1129 AR	(Remote tuner Novosibirsk)	JPL	SAT
5241		1259z (IP) 25 Jan	MSG NR 01 CK 50 32 0125 2040 RMKS 5775 TO 5771 AR K MSG NR 04 CK 51 32 0125 2100 RMKS 5775 TO 5771 K	(Remote tuner Novosibirsk)	JPL	MON
5555		1225z (IP) 19 Jan	VV FF JKU5 JKU5 NR 6087/EX 0929 BT A1B2/D1C4 II NR 9087/EX 0924 BT A1B2/D1NC3 II NR 1534/EX 0354 BT E5D6/D2M6 II E5DD6/D0M6 QSQ5 EF5U EF5U EF5U NR 9254/EX 08924 BT 55N1/.2C4 II VVV MHFD MSFD MHFD NR 1570/EX 0823 BT F5D1/K1S5 II NR 8219/EX 2154 BT C3D8/E1N4 II NR 3764/EX 1034 BT J5.1/T3O4 III NR 549/EX 1536 K BT O0A AR NN B4 NR 2548/EX 1536 BT O0A2/D4S1 II NR 5387/EX 1428 BT S5D4/N5D6 II NR 9287/EX 094 BT A83/D.4 III NR 9215/EX 1034 G5S1/T3O4 III NR 8219/EX 54 BT TN3D8/E1N4 II NR 157 AR /EX 714 BT F9J/K1S5 WW KWW W III (Lost SDR – 1311Z) (Appears as if the operator is getting messages ready for an upcoming exercise or is simply practicing. In any case I wonder if he/she realizes that they are going out live on the air...)	(Remote tuner Hong Kong)	JPL	TUE
5714		1103z (IP) 05 Feb	RMKS 6970 TO 6668 K	(Remote tuner Novosibirsk)	JPL	FRI
6378	TP4C	0633z 30 Jan 0715z	TP4C Working (Only : BSA5 de TP4C V 660/1182/1343/73/17/3404/336/B AR (Repeat 2 times) in Broadcast	(Via remote Sweden)	F5JBR	SAT
6645		1022z (IP) 05 Feb	NR 003/EX 1823 RMKS 9910 TO 9580 BT ABC1/DEF2 NR 012 CK 199 71 0205 1	(Remote tuner Novosibirsk)	JPL	FRI
6668	NQU	1241z (IP) 18 Feb	PQX DE NQU QSA 2 K	(Remote tuner Taiwan)	JPL	THU
7045	TP4C	0020z 01 Jan	V BSA5 (x3) DE TP4C (x2) (IP - Cont'd) (// 6378) BT 660/3398/1343/73/73/7674/397/A AR BT 660/3398/1343/73/73/7674/397/A AR	Remote tuner Taiwan	JPL	FRI

M89 5241kHz 1259 (IP) - 1304z 25 January 2021

32 0125 2040 RMKS 5775 TO 5771 K (IP – 1259z)
MSG NR 01 CK 50 32 0125 2040 RMKS 5775 TO 5771 AR K (1300z)
R RPT K (1301z)
(Other station N/H on this frequency)
R 7G NR 04 CK 51 32 0125 EEEEE
MSG NR 04 CK 51 32 0125 2100 RMKS 5775 TO 5771 K (1302z)
R 1W GA EEEE 01W GA BT
4365 TD34 53AN 4UA7 U36A 7TD5 TN6U 7DNU ANT5
(Cont'd– 304z)

M89 4487kHz 1837 (IP) - 1842z 27 January 2021

R QSA 2 **IEC BT E545 AR K** (IP – Exercise related – 1837z)
R HR 7G GA K (1838z)
(Other station N/H on this frequency)
R **MSG NR 245/EX CK 91 87 0128 0200 RMKS 6890 TO 9477 BT**
UN36 N73A UN45 5AD7 7TUT DD5N AU4U 34AT TUT6 TT... (1839z)
R HR 1W BT UN36 N73A UN45 4AD7 7T3T DD5N AU4U 34AT TUT6
TTT3 K (1841z)
R HR 11W BT T5D3 ADD3 5TNT UNTN UTU4 7D63
(Cont'd – 1842z)

M89 4798kHz 1927z 27 January 2021

F **NR 6238/EX 0327 BT** (IP – 1927z)
B3K/S9A AR
B3K/S9A AR

Courtesy JPL

M89 3705kHz 1546- 1553z 05 February 2021

RPT K (IP – 1546z)
IEC BT 5931 AR K (IP – Exercise related – 1518z)
R **IEC BT 1628 AR K**
R 7G GA K
R HR 7G GA
NR 019/EX CK 99 2320 RPT
PLA EEE R RPT R EEEEE
R RPT PL BK
R HR RPT PBL BT
NR 019/EX CK 99 55 0205 2310 RMKS 4413 TO 1973 TO 1044 TO A323 K (1520z)
R RPT RMKS K
RKMS BT 4413 TO 197
R AS (1551z)
HR RPT PBL BT
NR 019/EX CK 99 22 0205 2310 RMKS
RPT
R RPT K (1553z)

M89 6645kHz 1022 (IP) - 1024z 05 February 2021
F **NR 003/EX 1823 RMKS 9910 TO 9580 BT** (IP – 1022z)
ABC1/DEF2 AR AGN
F **NR 003/EX 1823 RMKS 9910 TO 9580 BT**
ABC1/DEF2 AR QSL ? K (1023z)
R QSL 1826 K (Both stations on this frequency)
R OK
R HR MSG GA K
R GA K
R HR MSG GA MSG
NR 012 CK 199 71 0205 1 (Cont'd - 1024z)

Courtesy JPL

DP Stations

5725	0924 (IP) - 1641z	20 Jan	CQ (x3) DE DP91 (x2) V HR NIL SK GB (x4) (Last logged 27 Mar 2020)	(Remote tuner Hong Kong)	JPL	WED
4832//NRH	1632 (IP) – 1642z	05 Feb	CQ (x3) DE DP91	(Remote tuner Novosibirsk)	JPL	FRI
4832//5725	1636 (IP) - 1642z	02 Feb	CQ (x3) DE DP91 (x2) K	(Remote tuner Novosibirsk)	JPL	TUE
	1632 (IP) – 1642z	05 Feb	CQ (x3) DE DP91	(Remote tuner Novosibirsk)	JPL	FRI
	1632 (IP) - 1642z	10 Feb	CQ (x3) DE DP91 (x2) K HR NIL SK GB (x7)	(Remote tuner Novosibirsk)	JPL	WED
	Note: Although in // with 4832kHz, one Round Slip sends K at the end while the other sends V. Round Slip is also sent at different speeds. Ending of each Round Slip is also different. So not truly //.					
6212//7510	1005 (IP) - 1013z	05 Feb	CQ (x3) DE DP91 (x2) K HR NIL SK GB (x5)	(Remote tuner Novosibirsk)	JPL	FRI

M95 O XSV, XSV70, XSV85

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

3642//NRH	Call Sign 3A7D	(Active daily - only first marker log has been included)				
3642//7602	Call Sign 3A7D	(Active daily - only first marker log has been included)				
3968//NRH	Call Sign SAQC (Previously3A7D) Suspect change in frequency and Round Slip for DKG6 DE 3A7D					
	1801z	01 Jan	V YHXD (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	FRI
3968//6936	Call Sign SAQC (Previously3A7D) Suspect change in frequency and Round Slip for DKG6 DE 3A7D					
	1811z	05 Jan	V YHXD (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	TUE
	1628z	02 Feb	V YHXD (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	TUE
4243//NRH	Message number differs from current XSV70 and XSV85 message numbers.					
	1155 (IP) - 1204z	06 Jan	NR 047 CK 17 35 0106 1611 BT NR 48 CK 2235 01 06 1614 BT NR 12 CK 148 35 01 06 1631 BT	(Remote tuner Hong Kong)	JPL	WED
	1144 (IP) - 1158z	08 Jan	NR 066 CK 46 35 0108 1523 BT NR 16 CK 179 35 0108 1530 BT	(Remote tuner Japan)	JPL	FRI
	1152 (IP) - 1154z	09 Feb	NR 18 CK 137 35 0209 1555 BT	(Remote tuner Hong Kong)	JPL	TUE

	1144 (IP) - 1155z	10 Feb	NR 032 CK 17 35 0210 1522 BT NR 20 CK 120 35 0210 1609 BT	(Remote tuner Japan)	JPL	WED
	1144 (IP) - 1153z	12 Feb	NR 036 CK 21 35 0212 1507 BT NR 24 CK 146 35 0212 1547 BT	(Remote tuner Hong Kong)	JPL	FRI
	1146 (IP) - 1153z	15 Feb	NR 30 CK 227 35 0215 1530 BT	(Remote tuner Hong Kong)	JPL	MON
	1142 (IP) - 1201z	23 Feb	NR 058 CK 48 35 0223 1538 BT NR 020 CK 15 35 0223 1552 BT NR 46 CK 161 35 0223 1700 BT	(Remote tuner South Korea)	JPL	TUE
	1142 (IP) - 1201z	24 Feb	NR 060 CK 36 35 0224 1540 BT NR 48 CK 162 35 0224 1558 BT	(Remote tuner South Korea)	JPL	WED
	1149 (IP) - 1202z	25 Feb	NR 062 CK 37 35 0225 1526 BT NR 026 CK 15 35 0225 1552 BT NR 50 CK 184 35 0225 1600 BT	(Remote tuner Hong Kong)	JPL	THU
4243//9054	Message number differs from current XSV70 and XSV85 message numbers.					
	1146 (IP) - 1154z	01 Jan	NR 052 CK 47 35 0101 1515 BT NR 02 CK 144 35 0101 1600 BT	(Remote tuner Japan)	JPL	FRI
	1146 (IP) - 1209z	12 Jan	NR 074 CK 49 35 0112 1506 BT NR 070 CK 22 35 0112 1620 BT NR 24 CK 193 35 0112 1715 BT	(Remote tuner Japan)	JPL	TUE
	1145 (IP) - 1153z	18 Jan	NR 086 CK 52 35 0118 1527 BT	(Remote tuner Hong Kong)	JPL	MON
	1145 (IP) - 1201z	19 Jan	NR 088 CK 57 35 0119 1621 BT NR 38 CK 130 35 0119 1605 BT	(Remote tuner New Zealand)	JPL	TUE
	1142 (IP) - 1205z	25 Jan	NR 01 CK 49 49 0122 1500 BT NR 100 CK 28 35 0125 1536 BT NR 016 CK 2135 0125 1559 BT NR 50 CK 199 35 0125 1600 BT	(Remote tuner Hong Kong)	JPL	MON
	2340 (IP) - 2351z	25 Jan	NR 017 CK 18 35 0126 0618 BT NR 001 CK 40 35 0126 06,5 BT NR 51 CK 076 35 0126 0715 BT	(Remote tuner Hong Kong)	JPL	MON
	1145 (IP) – 1200z	26 Jan	NR 002 CK 39 35 0126 1542 BT NR 019 CK 16 35 0126 1556 BT NR 52 CK 213 35 0126 1600 BT	(Remote tuner Hong Kong)	JPL	TUE
	1148 (IP) - 1209z	27 Jan	NR 004 CK 55 35 0127 1523 BT NR 024 CK 26 35 0127 1612 BT NR 54 CK 261 35 0127 1613 BT	(Remote tuner Hong Kong)	JPL	WED
	2345 (IP) - 2356z	27 Jan	NR 026 CK 27 35 0128 0608 BT NR 027 CK 18 35 0128 0610 BT NR 005 CK 81 35 0128 0654 BT	(Remote tuner Hong Kong)	JPL	WED
	1146 (IP) - 1206z	01 Feb	NR 014 CK 49 35 0201 1556 BT NR 044 CK 16 35 0201 1600 BT NR 02 CK 228 35 0201 1600 BT	(Remote tuner Taiwan)	JPL	MON
	1142 (IP) - 1203z	03 Feb	NR 018 CK 73 35 0203 1522 BT NR 06 CK 189 35 0203 1532 BT	(Remote tuner Hong Kong)	JPL	WED
	1146 (IP) - 1159z	05 Feb	NR 022 CK 48 35 0205 1552 BT NR 056 CK 22 35 0205 1613 BT NR 10 CK 171 35 0205 1640 BT	(Remote tuner Hong Kong)	JPL	FRI
	2340 (IP) - 2359z	05 Feb	NR 057 CK 25 35 0206 0633 BT NR 023 CK 42 35 0206 0640 BT NR 11 CK 118 35 0206 0657 BT	(Remote tuner Hong Kong)	JPL	FRI
4364//8073	Call Sign XSV85					
	0002 - 0010z	01 Jan	NR 0001 CK 130 35 0101 0708 BT (Reverted back to Message Number 0001 for New Year)	(Remote tuner Hong Kong)	JPL	FRI
	1130 - 1145z	01 Jan	NR 0003 CK 381 35 0101 1553 BT	(Remote tuner Hong Kong)	JPL	FRI
	1131 - 1154z	06 Jan	NR 00U3 CK 3NA 35 0AT6 ADTU BT	(Remote tuner Hong Kong)	JPL	WED
	1130 - 1143z	08 Jan	NR 0031 CK 269 35 0108 16.. BT	(Remote tuner Hong Kong)	JPL	FRI
	1130 - 1143z	12 Jan	NR 0048 CK 276 35 0112 1603 BT	(Remote tuner Hong Kong)	JPL	TUE
	1134 (IP) - 1144z	18 Jan	NR 0070 CK 30A 35 0AAD A5DA BT	(Remote tuner Hong Kong)	JPL	MON
	1137 (IP) - 1144z	19 Jan	NR 0075 CK 330 35 0119 1614 BT	(Remote tuner Hong Kong)	JPL	TUE
	1138 (IP) - 1142z	25 Jan	NR 0090 CK 336 35 0125 1615 BT	(Remote tuner Hong Kong)	JPL	MON
	0000 (IP) - 0010z	26 Jan	NR 0091 CK 146 35 0126 0701 BT	(Remote tuner Hong Kong)	JPL	TUE
	1130 - 1144z	26 Jan	NR 0093 CK 36D 35 TUA6 A63T BT	(Remote tuner Hong Kong)	JPL	TUE
	1130 - 1147z	27 Jan	NR 0097 CK 455 35 0127 1632 BT	(Remote tuner Hong Kong)	JPL	WED
	1130 - 1145z	01 Feb	NR 0115 CK 342 35 0201 1608 BT	(Remote tuner Taiwan)	JPL	MON
	1130 - 1141z	03 Feb	NR 0119 CK 293 35 0203 1630 BT	(Remote tuner Hong Kong)	JPL	WED
	1130 - 1145z	05 Feb	NR 0123 CK 380 35 0205 1616 BT	(Remote tuner Hong Kong)	JPL	FRI
	1137 - 1146z	09 Feb	NR 0133 CK 441 35 0209 1631 BT	(Remote tuner Hong Kong)	JPL	TUE
	1130 - 1142z	10 Feb	NR 0137 CK 315 35 0210 1609 BT	(Remote tuner Hong Kong)	JPL	WED
	1132 - 1144z	12 Feb	NR 0143 CK 263 35 0212 1600 BT	(Remote tuner Hong Kong)	JPL	FRI
	1130 - 1145z	15 Feb	NR 0149 CK 431 35 0215 1607 BT	(Remote tuner Hong Kong)	JPL	MON

	1131 - 1146z	16 Feb	NR 0153 CK 516 35 0216 1638 BT	(Remote tuner Hong Kong)	JPL	TUE
	1130 - 1141z	23 Feb	NR 0181 CK 287 35 0223 1553 BT	(Remote tuner Hong Kong)	JPL	TUE
	1130 - 1139z	24 Feb	NR 0183 CK 238 35 0224 1657 BT	(Remote tuner Hong Kong)	JPL	WED
	1140 (IP) - 1142z	25 Feb	NR 0185 CK 328 35 0225 1621 BT	(Remote tuner Hong Kong)	JPL	THU

4917 **(Message format indicates M95 family)**

1437 (IP) - 1445z 03 Feb NR 003/EX 2236 RMKS 7864 TO 7516 BT AGM6/GTR5 AR (Remote Novosibirsk) JPL WED
NR 004/CCK CK 99 83 0203 2242 RMKS 7864 TO 7516 K

5479//NRH Call Sign SAQC (Active daily - only first marker log has been included)

1020z 09 Jan YHXD de SAQC V (Via SDR SWEDEN) F5JBR SAT

5479//10722 Call Sign SAQC (Active daily - only first marker log has been included)

0040z 01 Jan V YHXD (x3) DE SAQC (x2) (Remote tuner Novosibirsk) JPL FRI

1053z 01 Feb V YHXD (x3) DE SAQC (x2) (Remote tuner Novosibirsk) JPL MON

5555.5 (Format indicates M95 family)

1418 (IP) - 1415 03 Feb BT NR 052/CCK CK 19 .. 0203 .... RMKS (Remote tuner Novosibirsk) JPL WED

6830 Call sign GMQM

0739z 30 Jan GMQM Working ZLR2 (QSO and Authentication) (Via SDR Japan) F5JBR SAT
MSG NR 074/CCK CK 190601301540 RMKS 7546 TO 7263 K 3N6T A574 DUNR

7553//NRH Call sign XSV70

0959 (IP) - 0959z 10 Feb 4D3 75D 4DU 3D3 N3D 3D6 TAA 773 354 (Remote tuner Taiwan) JPL WED
AR ZNN SK (1000z)

9054 Call sign XSV85 All logged via Remote tuner Hong Kong unless stated
(See also 4243//9054kHz listing)

1147 (IP) - 1145z 16 Feb NR 32 CK 141 35 0216 1526 BT (Remote tuner Hong Kong) JPL TUE

10180 Call Sign 3A7D (Active daily - only first marker log has been included)

10722//NRH Call Sign 3A7D

1048z 01 Jan YHXD (x3) DE SAQC (x2) (Remote tuner Khabarovsk) JPL FRI

1021z 24 Feb V YHXD (x3) DE SAQC (x2) (Remote tuner Hong Kong) JPL WED

M95 4243//9054kHz 1142 (IP) – 1204z 25 Jan 2021

Chinese digital 4+4 QPSK 75/3000 LSB 1142z (In Progress)
Switched to CW. Hand sent. 1150z

V HR 7G TO YR PSE CY (1150z)
NR 01 CK 49 49 0122 1500 BT
TN6 AUD D5U N7N TU5 NUU N65 345 T3U UA3
7D3 3T6 64T 3N3 3TT 353 53U T7U 7A3 6A6
TAA 3N3 63T 353 5UU T4U 7U3 44U 54T 573
7U3 U3D TDU 573 7U3 U3N UN4 D46 D63 D4A
AA3 TAU 55U 573 7U3 A5T AUA 35D 733 AR 7G AGN
NR 01 CK 49 49 0122 1500 BT (Repeats msg – 1153z)
AR AH 7G GA
NR 100 CK 28 35 0125 1536 BT
5AA UTT TU5 3U6 3A4 5T7 5TD 5TN 5AA 75U
354 373 N3D 353 DN7 36T 4T7 344 N3D 4A5
445 34U N3U 446 3DA N3D 3DU 4DD AR 7G AGN
NR 100 CK 28 35 0125 1536 BT (Repeats msg – 1158z)
AR AH 7G GA
NR 016 CK 2135 0125 1559 BT
UT5 TU5 3U6 3A4 TTA TTU TT3 773 354 373
354 373 33U N3D 35U 36U 4AD 346 N3D 4A5
445 4D4 3DA AR 7G AGN
NR 016 CK2135 0125 1559 BT (Repeats msg – 1201z)
AR A HR 7G GA
NR 50 CK 199 35 0125 1600 BT
UTU TU5 3U6 3A4 TTU 773 354 373 N3D 353 (Cont'd – 1204z)

Courtesy JPL

M95 4917kHz 1437 (IP) - 1445z 03 Feb 2021

NR 003/EX 2236 RMKS 7864 TO 7516 BT (IP – 1437z)
AGM6/GTR5 AR AGN (1438z)
NR 003/EX 2236 RMKS 7864 TO 7516 BT
AGM6/GTR5 AR QSL ? K
R QSL 2239 K (1439z)
(Both stations on this frequency)
R OK U F GA K
R HR F GA F **NR 003/EX 2239 RMKS 7516 TO 7864 BT** (1440z)
KIM1/LGJ2 AR AGN
NR 003/EX 2239 RMKS 7516 TO 7864 BT
KIM1/LGJ2 AR K
R RPT 01W K
R RPT K
R RPT O1W K
R RPT 01W KIM1 KIM1 K (1442z)
R QSL 2242 HR MSG GA K
R GA K
R HR MSG GA
MSG NR 004/CCK CK 99 83 0203 2242 RMKS 7864 TO 7516 K (1443z)
(Message format indicates M95 family)
R OK GA K
R BT D.U5 NU53 U53U NTAU 53UA U33N UANU 4673 3UDN D756 U6U3
(Cont'd – 1445z)

Courtesy JPL

Marker Beacons (MX MXI)

3593.7	2121z	17 Feb	MXI CW Beacon "D" Sevastopol	Weak	BR	WED
3657	2122z	17 Feb	MX CW Beacon "V" Khiva		BR	WED
5153.7	2124z	17 Feb	MXI CW Beacon "D" Sevastopol		BR	WED
5154.1	2125	17 Feb	MXI CW Beacon "A" Astrakhan		BR	WED
5156.8	1249z	13 Feb	MX CW Beacon " L" St Petersburg		BR	SAT
7508.7	1247z	13 Feb	MXI CW Beacon "D" Sevastopol		BR	SAT
7508.8	1245z	13 Feb	MXI CW Beacon "P" Kaliningrad		BR	SAT
7508.9	2040z	13 Feb	MXI CW Beacon "S" Sevoromorsk		BR	SAT
8497.8	1244z	13 Feb	MX CW Beacon "L" St Petersburg		BR	SAT
10868.1	1556z	24 Jan	MX CW Beacon "A" Astrakhan	Fair	BR	SUN
10871.8	1134z	12 Jan	MXI CW Beacon "P" Kaliningrad	Fair	PLdn	SUN
10871.9	1241z	13 Feb	MXI CW Beacon "S" Sevoromorsk		BR	SAT
10872.1	1242z	13 Feb	MXI CW Beacon "A" Astrakhan		BR	SAT
13527.7	1240z	13 Feb	MXI CW Beacon "D" Sevastopol		BR	SAT
13527.9	1240z	13 Feb	MXI CW Beacon "S" Sevoromorsk		BR	SAT
13528	1239z	13 Feb	MXI CW Beacon "C" Moscow		BR	SAT
16331.7	1238z	13 Feb	MXI CW Beacon "D" Sevastopol		BR	SAT
16331.9	1238z	13 Feb	MXI CW Beacon "S" Sevoromorsk		BR	SAT

Oddities

S28 **'The Buzzer'**

4625	2315z	09 Jan	S28	'The Buzzer' Marker	USB		DanAR	SAT
	1558z	17 Jan	S28	'The Buzzer' Marker	USB	Signal strong, clear	Gary	SAT

XJT **'The Jet'**

A report & observations from Peter, (PoSW).

"XJT", also known as STANAG 4285, I think;- a large number of these things roaring away across the short wave spectrum, a recent scan at around 0730 UTC stopping at 10 MHz found over thirty really strong examples with the lowest frequency in use on 1680 kHz. Somewhat unusually, a very strong XJT showed up in the SSB portion of the 80 metre amateur band in late January and for a few days at the start of February:-

27-Jan-21, Wednesday:- 1602 UTC, very strong "XJT" centred on 3710 kHz, still on when checked at 2000 and 2100 UTC.

28-Jan-21, Thursday:- 0802 UTC, still on, very strong signal.

29-Jan-21, Friday:- 0713 UTC, still on but not continuous, being keyed at approx. 6 seconds on, 2 seconds off.

30-Jan-21, Saturday:- 0704 UTC, running in continuous mode.

31-Jan-21, Sunday:- 0707 UTC, continuous, very strong.

01-Feb-21, Monday:- 0710 UTC, very strong signal, continuous.

02-Feb-21, Tuesday:- 0717 UTC, intermittent mode, 6 seconds on, 2 seconds off, very strong.

Still on at various times on the 3rd and 4th but was not on 3710 on 05-Feb, Friday, when checked at around 1635 UTC and has not been heard since.

Unusual for one of these things to take root in an amateur band although a strong example has been a fixture in the evening close to 1900 kHz in the 160 metre band which does not have the level of amateur occupancy of 80 - unless there is a contest on, as was the case over the last weekend in February when the band was packed with stations from all over Europe calling "CQ contest" when monitored several times during the late evening.

Contributors: AB, BR, Brixmis, Daniel/AR, Danix, E.SMITH, F5JBR, Gary, Gert, HFD, JPL, PLdn, PoSW, RNGB *Thank you all for your logs.*

Voice, Polytone, Tones, Hybrids and FSK

E06
Jan/Feb log:

First /Third Thursday (repeats Friday) **0600z 13945kHz** **0700z 16350kHz**

07/01 ‘139’ 607 52 96873 22515 80770 96240 89313 32055 51403 95224 69105 34173 71831 16771 24919 09007 01700 28891 20808 71827 67341 88134 38909 05262 16634 82598 38246 72080 76685 89104 84339 81987 81535 80461 29300 10851 62066 43775 47106 95816 15311 95721 53734 54734 95335 05738 66847 03340 92901 63053 84721 68625 96078 48513 607 52 00000

21/01 ‘139’ 428 56 35650 49024 03507 96241 96170 84447 10636 11438 18864 68703 84596 38304 06779 17504 81275 17771 48051 61442 78212 35465 35449 62484 50843 71562 59853 00099 96877 91445 07340 75450 51018 88038 14575 07095 57195 11730 62188 16620 90510 48836 10832 27661 46067 34528 09591 26736 36898 11185 31453 59330 68146 68073 15517 59681 79715 23335 428 56 00000

0600z 17480kHz **0700z 20085kHz**

04/02 ‘702’ 936 51 87428 68390 69278 72146 80659 40633 71012 39129 04321 95724 16997 54812 77067 58742 66688 67196 13196 83370 74512 53458 98858 76718 32727 33455 01191 88693 37040 91569 46282 45616 73425 04513 26933 32757 49594 92265 26137 55486 19308 34362 67219 33728 73783 18683 26576 09398 97244 14965 69947 71521 11454 936 51 00000

18/02 ‘702’ 841 63 42368 65377 85869 19823 94392 46984 25455 96192 70818 18766 08309 08604 15664 17387 75633 27558 78249 50171 42643 97077 93420 39950 41532 43341 93109 26640 48125 01698 10192 30248 15661 79333 60553 04995 64142 95767 14332 39234 98688 68373 92243 80858 55332 35093 47952 92891 97688 31565 22409 68928 12950 64815 81099 63136 80627 50735 70146 14496 12485 07501 52186 69958 87108 841 63 00000

Friday **2130z 4760kHz**

19/02 ‘472’ 456 20 54796 65983 09609 42987 79558 94566 73283 85083 30412 35646 41598 30308 17235 74074 52414 94950 79321 27177 08443 01720 456 20 00000] 2138z

E07

PoSW offers his analysis and sums up the situation perfectly:

Not much in the way of traffic from E07 in the first two months of 2021, mostly a couple of minutes of “000 - no message”.

Sunday + Wednesday Schedule, 1800 UTC Start:-
3-Jan-21, Sunday:- 1800 UTC, 6963 kHz, “987 987 987 000”, S5 to S6.
1820 UTC, 5863 kHz, slightly weaker signal.

6-Jan-21, Wednesday:- 1800 UTC, 6963 kHz, “987 987 987 000”, weak but clear.
1820 UTC, 5863 kHz, stronger.

10-Jan-21, Sunday:- 1800 UTC, 6963 kHz, weak and 1820 UTC, 5863 kHz, much stronger,
“987 987 987 000”.

13-Jan-21, Wednesday:- 1800 UTC, 6963 kHz and 1820 UTC, 5863 kHz, both weak, “987 987 987 000”.

17-Jan-21, Sunday:- 1800 UTC, 6963 kHz, “987 987 987 000”, weak.
1820 UTC, 5863 kHz, also weak.

20-Jan-21, Wednesday:- 1800 UTC, 6963 kHz, “987 987 987 000”, S6 to S7.
1820 UTC, 5863 kHz, weaker.

24-Jan-21, Sunday:- 1800 UTC, 6963 kHz, “987 987 987 000”, S7.
1820 UTC, 5863 kHz, stronger.

31-Jan-21, Sunday:- 1800 UTC, 6963 kHz, “987 987 987 000”, peaking around S7.
1820 UTC, 5863 kHz, weak.

3-Feb-21, Wednesday:- 1800 UTC, 8144 kHz, “197 197 197 000”, S7.
1820 UTC, 6944 kHz, slightly weaker.

7-Feb-21, Sunday:- 1800 UTC, 8144 kHz and 1820 UTC, 6944 kHz, both weak, “197 197 197 000”.

10-Feb-21, Wednesday:- 1800 UTC, 8144 kHz, weak and 1820 UTC, 6944 kHz, much stronger, “197 197 197 000”.

17-Feb-21, Wednesday:- 1800 UTC, 8144 kHz and 1820 UTC, 6944 kHz, both S7 to S8, “197 197 197 000”.

21-Feb-21, Sunday:- 1800 UTC, 8144 kHz, “197 197 197 000”, very weak, only just readable.
1820 UTC, 6944 kHz, much stronger.

24-Feb-21, Wednesday:- 1800 UTC, 8144 kHz and 1820 UTC, 6944 kHz, both S6 to S7, “197 197 197 000”.

Monday + Wednesday Schedule, 2000 UTC Start:-
6-Jan-21, Wednesday:- 2000 UTC, 6776 kHz, "770 770 770 000", S6 to S7.
2020 UTC, 5767 kHz, stronger.

11-Jan-21, Monday:- 2000 UTC, 6776 kHz, "770 770 770 000", very strong signal.
2020 UTC, 5767 kHz, also very strong.

13-Jan-21, Wednesday:- 2000 UTC, 6776 kHz, "770 770 770 000", S7 with QSB.
2020 UTC, 5767 kHz, stronger.

18-Jan-21, Monday:- 2000 UTC, 6776 kHz, "770 770 770 1", first full message from an E07 heard this year, DK/GC "692 112" x 2, strong signal.
2020 UTC, 5767 kHz, slightly weaker.
2040 UTC, 5067 kHz, third sending, very strong, peaking well over S9.

20-Jan-21, Wednesday:- 2000 UTC, 6776 kHz, "770" and "692 112" again, strong signal.
2020 UTC, 5767 kHz and 2040 UTC, 5067 kHz, both strong.

25-Jan-21, Monday:- 2000 UTC, 6776 kHz, "770 770 770 000", back in the old routine.
2020 UTC, 5767 kHz, very strong signal.

27-Jan-21, Wednesday:- 2000 UTC, 6776 kHz and 2020 UTC, 5767 kHz, both S6 to S7, "770 770 770 000".

1-Feb-21, Monday:- 2000 UTC, 8157 kHz, "182 182 182 000", strong signal.
2020 UTC, 6857 kHz, slightly weaker.

3-Feb-21, Wednesday:- 2000 UTC, 8157 kHz and 2020 UTC, 6857 kHz, both strong, "182 182 182 000"..

8-Feb-21, Monday:- missed the 2000z sending, and unusually for E07 these days a full message:-
2020 UTC, 6857 kHz, "182 182 182 1", DK/GC "190 97" x 2, strong signal.
2040 UTC, 5257 kHz, third sending, also strong.

10-Feb-21, Wednesday:- 2000 UTC, 8157 kHz, "182" and "190 97" again, not too strong.
2020 UTC, 6857 kHz and 2040 UTC, 5257 kHz, repeats, both stronger.

15-Feb-21, Monday:- 2000 UTC 8157 kHz and 2020 UTC, 6857 kHz, both good signals, "182 182 182 000".

17-Feb-21, Wednesday:- 2000 UTC, 8157 kHz, weak, only just readable and 2020 UTC, 6857 kHz, by contrast very strong, "182 182 182 000".

22-Feb-21, Monday:- 2020 UTC, 6857 kHz - the 2000z sending on 8157 was so weak as to be unreadable – a full message, "182 182 182 1", DK/GC "115 89" x 2. Not too strong.
2040 UTC, 5257 kHz, strong signal.

24-Feb-21, Wednesday:- 2000 UTC, 8157 kHz, "182" and "115 89" again, much stronger than on Monday.
2020 UTC, 6857 kHz, good signal.
2040 UTC, 5257 kHz, strong, well over S9.

Saturday Schedule, 1400 UTC Start:-
2-Jan-21:- 1400 UTC, 10323 kHz, "310 310 310 000", weak.
1420 UTC, 9123 kHz, stronger. Same frequencies as used in November.

9-Jan-21:- 1400 UTC, 10323 kHz, "310 310 310 000", weak signal.
1420 UTC, 9123 kHz, stronger.

16-Jan-21:- 1400 UTC,, 10323 kHz, weak and 1420 UTC, 9123 kHz, stronger, "310 310 310 000".

23-Jan-21:- 1400 UTC, 10323 kHz, S7 and 1420 UTC, 9123 kHz, over S9, "310 310 310 000".

30-Jan-21:- 1400 UTC, 10323 kHz, "310 310 310 000", S7.
1420 UTC, 9123 kHz, also S7.

13-Feb-21:- 1400 UTC, 11464 kHz, "472 472 472 000", strong signal.
1420 UTC, 10764 kHz, also strong.

20-Feb-21:- 1400 UTC, 11464 kHz, a full message, most unusual for this schedule, "472 472 472 1", DK/GC "185 124" x 2, S7 with QSB.
1420 UTC, 10764 kHz, S7 with QSB.
1440 UTC, 9264 kHz, strong, S9.

27-Feb-21:- 1400 UTC, 11464 kHz and 1420 UTC, 10764 kHz, "472 472 472 000".

Sunday Schedule, 0700 UTC Start:-
3-Jan-21:- 0720 UTC, 10426 kHz, second sending, good signal, "345 345 345 000", 0700z transmission most likely on 9326, then.

10-Jan-21:- 0700 UTC, 9326 kHz – well there we are, then – very weak, could just hear "000".
0720 UTC, 10426 kHz, much stronger, "345 345 345 000".

17-Jan-21:- 0700 UTC, 9326 kHz, weak and 0720 UTC, 10426 kHz, much stronger, "345 345 345 000".

24-Jan-21:- 0700 UTC, 9326 kHz, much stronger than on previous occasions, peaking S9 and
0720 UTC, 10426 kHz, over S9, "345 345 345 000".

31-Jan-21:- 0700 UTC, 9326 kHz, “345 345 345 000”, peaking S7.
0720 UTC, 10426 kHz, stronger.

7-Feb-21:- 0700 UTC, 9326 kHz, “345 345 345 000”, weak signal.
0720 UTC, 10426 kHz, also weak.

14-Feb-21:- 0700 UTC, 9326 kHz and 0720 UTC, 10426 kHz, both S7 to S8, “345 345 345 000”.

21-Feb-21:- 0700 UTC, 9326 kHz, a full message, “345 345 345 1”, DK/GC “185 124” x 2, same message as heard on Saturday 20th at 1400z.
0720 UTC, 10426 kHz, weak signal.
0740 UTC, 11526 kHz, also weak.

28-Feb-21:- 0700 UTC, 9326 kHz and 0720 UTC, 10426 kHz, “345 345 345 000”.

Onto others’ logs with duplication in part:

Sunday/Wednesday

January 2021

1800z	**6963kHz**	**1820z**	**5863kHz**	**1840z**	**4793kHz**		
03/01	987 000						1800z Fair 1820z Weak
06/01	987 000					[1800z QRM2]	Weak
10/01	987 000						Weak
13/01	987 000						Weak
17/01	987 000						Weak
20/01	987 000						Weak
24/01	987 000						Weak
31/01	987 000					Poor conditions	Weak

February 2021

1800z	**8144kHz**	**1820z**	**6944kHz**	**1840z**	**5744kHz**		
03/02	197 000						Weak
07/02	197 000						Weak
10/02	197 000					[1800z Dutch SDR]	Weak
14/02	197 000						Weak
17/02	197 000						Weak
21/02	197 000						Weak
28/02	197 000						Weak

Sunday/ Saturday

January 2021

0700z	**9326kHz**	**0720z**	**10426kHz**	**0740z**	**11526kHz**		
09/02	345 1 988 279 88420 ... 03573 000 000 Note: Transmission times c30m exceeds schedule slot of 20m; mofified slots as 0735 and 0810z					[0810z Fair]	Weak
17/01	345 000						Weak
24/01	345 000						Weak

February 2021

0700z	**9326kHz**	**0720z**	**10426kHz**	**0740z**	**11526kHz**

Nil Reports

Monday/Wednesday

January 2021

2000z	**6776kHz**	**2020z**	**5767kHz**	**2040z**	**5067kHz**		
06/01	770 000						Weak
11/01	770 000						2000z Fair 2020z Strong
13/01	770 000						Weak
18/01	770 1 692 112 56253 ... 07216 000 000						Weak
20/01	770 1 692 112 56253 ... 07216 000 000						Weak
25/01	770/000						Weak

February 2021

2000z	**8157kHz**	**2020z**	**6857kHz**	**2040z**	**5257kHz**		
01/02	182 000						Weak
03/02	182 000						2000z Strong 2020z Weak
08/02	182 1 190 97 93809 ... 26382 000 000			[2000z Dutch SDR, rest fm EDD using Eschende SDR]			Weak
10/02	182 1 190 97 93809 ... 26382 000 000					[2020z Strong]	Weak
15/02	182 000						Weak
17/02	182 000						Weak
22/02	Unworkable, Difficult conditions in the East of England						

Tuesday/Friday

January 2021

0700z	**14472kHz**	**0720z**	**14972kHz**	**0740z**	**16272kHz**		
05/01	492 000						Weak
12/01	492 1 370 58 34157 ... 54383 000 000						Weak Dutch SDR
15/01	492 1 370 58 34157 ... 54353 000 000					[0740z only]	Weak
19/01	492 000						Weak
26/01	492 1 398 58 82323 ... 54062 000 000						Weak, Dutch SDR
30/01	492 1 398 58 82703 ... 54062 000 000						Weak

February 2021

0700z	**15823kHz**	**0720z**	**16323kHz**	**0740z**	**18623kHz**		
02/02	836 000					[0700z Dutch SDR]	Weak
09/02	836 1 292 112 28189 ... 19677 000 000						Weak, Dutch SDR
12/02	836 1 292 112 28189 ... 19677 000 000						Weak
16/02	836 000						Weak, Dutch SDR
23/02	NRH, poor condx						

Thursday/Saturday

January 2021

1410z	**11593kHz**	**1430z**	**10293kHz**	**1450z**	**9323kHz**		
07/01	916 000						Weak
09/01	916 000					[1430z Dutch SDR]	Weak
14/01	916 000						Weak

16/01	916 000		Weak
21/01	916 1 9664 35 84748 … 46867 000 000	[1410z Unworkable]	Weak
23/01	916 1 9664 35 84748 ... 46867 000 000	[1450z Dutch SDR]	Weak
30/01	916 000		Weak

February 2021

1410z	**13368kHz**	**1430z**	**12168kHz**	***1450z***	***8068kHz***		
04/02	745 1 3358 35 48465 ... 13111 000 000						Weak
06/02	745 1 3358 35 48465 ... 13111 000 000					[1450z Fair]	Weak
11/02	745 000					[V.strong via Twente]	Weak
13/02	745 000						Weak
18/02	745 1 341 35 86957 … 56809 000 000						

745 1
341 35
86957 75295 02055 92613 34924 88731 69610
61505 82165 93552 21253 91152 03615 58589
54747 09920 80795 20851 82756 46194 63456
30829 60644 54291 07417 15290 12515 50858
95606 98084 80206 85168 96612 06595 56809
000 000 *Courtesy dMHz*

18/02	745 1 341 35 86957 ... 56809 000 000		Weak
25/02	745 000		Weak
27/02	745 000		Weak

Saturday

January 2021

1400z	**10323kHz**	**1420z**	**9123kHz**	**1440z**	**8023kHz**		
02/01	310 000						Strong, Twente
09/01	310 000						Weak
16/01	310 000						Weak
23/01	310 000						1400z Weak, 1420z Strong
30/01	310 000						Strong

February 2021

1400z	**11464kHz**	**1420z**	**10764kHz**	**1440z**	**9264kHz**		
06/02	472 000						1400z Strong 1420z Fair
13/02	472 000						Weak
20/02	472 1 185 124 58610 ... 61875 000 000					[1440z Strong]	Fair
27/02	472 000						Weak

E07a

As with E07, the three best received E07a schedules were of the "no message" variety in January and most of February until the last days of that month.

Friday Schedule, 1610 UTC Start:-
1-Jan-21:- 1610 UTC, 7632 kHz, "688 688 688 000", peaking around S7.
1630 UTC, 6832 kHz, second sending, stronger.

8-Jan-21:- 1610 UTC, 7632 kHz and 1630 UTC, 6832 kHz, both S7 to S8, "688 688 688 000".

15-Jan-21:- 1610 UTC, 7632 kHz and 1630 UTC, 6832 kHz, both strong signals, "688 688 688 000".

22-Jan-21:- 1610 UTC, 7632 kHz and 1630 UTC, 6832 kHz, both weaker than on previous Fridays, "688 688 688 000".

29-Jan-21:- 1610 UTC, 7632 kHz and 1630 UTC, 6832 kHz, both strong, "688 688 688 000".

5-Feb-21:- 1610 UTC, 9347 kHz, “318 318 318 000”, weak signal.
1630 UTC, 8147 kHz, stronger.

12-Feb-21:- 1610 UTC, 9347 kHz, very weak signal, unreadable.
1630 UTC, 8147 kHz, much stronger, “318 318 318 000”

19-Feb-21:- 1610 UTC, 9347 kHz, “318 318 318 000”, S5.
1630 UTC, 8147 kHz, stronger.

26-Feb-21:- 1610 UTC, 9347 kHz – a full message for a change, the last such transmitted by this schedule appears to be on 30-Oct-20, with the usual proviso that not every single transmission has been monitored. “318 318 318 63699”, DK/GC “9360 96” x 2, peaking S9 but with deep fading.
1630 UTC, 8147 kHz, strong signal.
1650 UTC, 6847 kHz, third sending, also strong. Some “noises off” started at the same time that E07a got going, tuned slightly higher to find a strong E11 on 6849 with three minutes or so of, “926/00”.

Saturday Schedule, 0900 UTC Start:-
Always a repeat of the previous day's 1610z schedule so no surprises here:-
2-Jan-21:- 0900 UTC, 11123 kHz, “114 114 114 000”, weak signal.
0920 UTC, 12123 kHz, much stronger.

9-Jan-21:- 0900 UTC, 11123 kHz and 0920 UTC, 12123 kHz, both peaking S9, “114 114 114 000”.

16-Jan-21:- 0900 UTC, 11123 kHz, “114 114 114 000”, S7 with QSB.
0920 UTC, 12123 kHz, slightly weaker signal.

23-Jan-21:- 0920 UTC, 12123 kHz, missed 0900z sending, “114 114 114 000”, very strong signal.

30-Jan-21:- 0900 UTC, 11123 kHz, “114 114 114 000”, weak.
0920 UTC, 12123 kHz, much stronger.

6-Feb-21:- 0900 UTC, 11053 kHz, “015 015 015 000”, strong signal, peaking over S9.
0920 UTC, 12153 kHz, weaker.

13-Feb-21:- 0900 UTC, 11053 kHz, S7 and 0920 UTC, 12153 kHz, stronger, “015 015 015 000”.

20-Feb-21:- 0900 UTC, 11053 kHz, weak and 0920 UTC, 12153 kHz, much stronger, “015 015 015 000”.

27-Feb-21:- 0900 UTC, 11053 kHz, very weak signal, unreadable.
0920 UTC, 12153 kHz, much stronger, “015 015 015 1 63699”, DK/GC “9360 96”. As expected, a repeat of the message heard on yesterday's 1610z start schedule.
0940 UTC, 13553 kHz, good signal.

Wednesday Schedule, 2100 UTC Start:-
6-Jan-21:- 2100 UTC, 5877 kHz, “825 825 825 000”, very strong signal.
2120 UTC, 5277 kHz, also very strong.

13-Jan-21:- 2100 UTC, 5877 kHz, “825 825 825 000”, strong signal with QSB.
Missed 2120 UTC transmission.

20-Jan-21:- 2100 UTC, 5877 kHz and 2120 UTC, 5277 kHz, both very strong, “825 825 825 000”.

27-Jan-21:- 2100 UTC, 5877 kHz, “825 825 825 000”, strong.
2120 UTC, 5277 kHz, also strong.

3-Feb-21:- 2100 UTC, 5877 kHz, “825 825 825 000”, strong signal.
2120 UTC, 5277 kHz, also strong.

10-Feb-21:- 2100 UTC, 5877 kHz and 2120 UTC, 5277 kHz, both somewhat weaker than usual, “825 825 825 000”.

17-Feb-21:- 2120 UTC, 5277 kHz, missed the 2100z sending, “825 825 825 000”, strong.

24-Feb-21:- 2100 UTC, 5877 kHz, a “full message”, the first for some time, “825 825 825 1 62588”, DK/GC “338 87” x 2, very strong signal.
2120 UTC, 5277 kHz and 2140 UTC, 4577 kHz, repeats, both strong.

Others’ Logs with duplication; note variation in some signal strengths with Peter’s Saffron Waldron QTH

Wednesday

January 2021

2100z	**5877kHz**	**2120z**	**5277kHz**	**2140z**	**4577kHz**		
06/01	825 000						Very strong
13/01	825 000						Very strong
20/01	825 000						Very strong
27/01	825 000					[2120z QRM2]	Very strong

February 2021

03/02	825 000	Strong
10/02	825 000 [2100z QRM2]	Fair
17/02	825 000	Very strong
24/02	825 1 62588 338 87 21445 ... 82538 000 000 [2120, 2140z QRM2]	Very strong

Thursday

January 2021

0530z	**5111kHz**	**0550z**	**5811kHz**	**0610z**	**6911kHz**	
07/01	189 000					Very strong
14/01	189 000					Strong
21/01	189 000					Very strong
28/01	189 000				[0550z QRM2]	Very strong

February 2021

04/02	189 000	Very strong
11/02	189 000 [0520z Weak, QRM2]	Fair
18/02	189 000	Very strong
25/02	189 1 62588 338 87 21445 ... 82538 000 000 [0550z TTYQRM2]	Very strong 0610z MISSED

189 189 189 1
338 87
21445 79124 90119 85232 12169
25291 30435 39977 68339 11255
84622 09484 81872 26929 67831
13780 81391 35258 51602 07632
75284 26382 30538 89129 90021
39039 64801 40922 30189 36308
53581 90585 34998 29864 62093
94546 62627 39566 27459 73961
34558 09626 14094 86926 69606
33916 45345 36210 50490 21724
24483 85899 60978 61597 57229
16288 97382 04915 69780 58266
01088 25572 24168 95768 62696
24446 13072 17233 23795 25423
10381 52105 73592 16444 16255
27417 80669 18221 31071 84123
52830 15623 48184 44286 74879
59598 82538
000 000
Courtesy PLdn

Friday

January 2021

1610z	**7632kHz**	**1630z**	**6832kHz**	**1650z**	**5832kHz**	
01/01	688 000					1610z Weak 1630z Fair
08/01	688 000					Weak
15/01	688 000					Fair
22/01	688 000					Weak
29/01	688 000					1610z Fair 1630z Strong

February 2021

1610z	**9347kHz**	**1630z**	**8147kHz**	**1650z**	**6847kHz**	
05/03	318 000					Weak
12/03	318 000					Weak
19/03	318 000				[1630z QRM2]	Very strong
26/02	318 1 63699 9360 96 63740 ... 20501 000 000				[1610z Weak]	Fair

Saturday

January 2021

0900z	**11123kHz**	**0920z**	**12123kHz**	**0940z**	**13423kHz**	
02/01	114 000					0900z Weak 0920z Strong
09/01	114 000					Strong, QRM2
16/01	114 000					0900z Fair 0920z Weak, QRM3
23/01	114 000					Very strong
30/01	114 000					Fair QRM3

February 2021

0900z	**11053kHz**	**0920z**	**12153kHz**	**0940z**	**13553kHz**		
06/02	015 000						Weak
13/02	015 000						Fair QRM3
20/02	015 000						Weak
27/02	015 1 63699 9360 96 63740 ... 20501 000 000					[0900z Unworkable]	Weak

E11&E11a log Jan/Feb

4505kHz	1705z	02/01 [390/00] Out 1708z S5	Malc, Gary H	SAT
	0710z	03/01 [490/00] Out 0713z S6+QRM	Malc	SUN
	1705z	09/01 [395/00] Out 1708z S4	Malc, Brixmis	SAT
	0710z	10/01 [497/00]	Brixmis	SUN
	0710z	16/01 [491/00]	Brixmis	SAT
	1705z	16/01 [391/00] Out 1708z S5	Malc	SAT
	0710z	17/01 [492/00] Out 0713z S5	Malc	SUN
	1705z	20/01 [390/00] Out 1708z S9	Malc	WED
	1705z	27/01 [391/33 09739 04427 75653 87578 31177 05216 13184……52642 88487] Out 1715z S9	Malc	WED
	1705z	30/01 [391/33 09739…..etc} Repeat of Wednesday	Gary H, Malc	SAT
	1705z	03/02 [394/00] Out 1708z S5	Malc, Gary H	WED
	1705z	06/02 [394/00] Out 1708z S9	Malc	SAT
	0710z	07/02 [492/36 23532……etc]	HfD	SUN
	0710z	13/02 [495/00] Out 0713z S7	Malc	SAT
	1705z	13/02 [399/00] Out 1708z S6	Malc	SAT
	1705z	17/02 [394/00]	dMHz, Malc	WED
	0710z	20/02 [495/00]	E. Smith	SAT
	1705z	20/02 [399/00]	Gary H	SAT
	1705z	24/02 [396/31 37141 76618 74314 95554 63556 74661 04777 97257…….44208 77804] Out 1715z	Gary H, Malc	WED
4909kHz	0805z	02/01 [314/00] Out 0808z S2	Malc, RNGB	SAT
	1930z	02/01 [363/00] Out 1933z S9	Malc	SAT
	0805z	03/01 [312/00] Out 0808z S3	Malc	SUN
	1930z	03/01 [369/00] Out 1933z S6	Malc	SUN
	0805z	09/01 [315/00] Out 0808z S9	Malc	SAT
	1930z	09/01 [365/00] Out 1933z S2	Malc	SAT
	0805z	10/01 [316/00] Out 0808z S4	Malc, Brixmis	SUN
	1930z	10/01 [360/00] Out 1933z S5	Malc	SUN
	0805z	16/01 [312/00] Out 0808z	Brixmis, Malc	SAT
	1930z	16/01 [367/39 16172 25727……69993] Out 1940z	Brixmis, Malc	SAT
	0805z	17/01 [313/00] Out 0808z S4	Malc	SUN
	0805z	24/01 [316/39 64643……34583] Out 0816z S4	Malc	SUN
	1930z	24/01 [367/00] Out 1933z S5	Malc	SUN
	1930z	30/01 [364/00] Out 1933z S3	Malc	SAT
	0805z	31/01 [312/00] Out 0808z S3	Malc	SUN
	0805z	06/02 [312/00]	RNGB	SAT
	1930z	06/02 [364/00] Out 1933z S9	Malc	SAT
	0805z	07/02 [319/00] Out 0808z S3	Malc, HfD	SUN
	1930z	07/02 [366/00] Out 1933z S3	Malc	SUN
	0805z	13/02 [312/00] Out 0808z S5	Malc	SAT
	1930z	13/02 [360/00] Out 1933z S6	Malc	SAT
	0805z	14/02 [314/00] Out 0808z S3	Malc	SUN
	1930z	14/02 [364/00] Out 1933z S6	Malc	SUN
	0805z	20/02 [311/02]	E. Smith, Brixmis	SAT
	1930z	21/02 [368/00] Out 1933z S7	Malc	SUN

5082kHz	1530z	01/01 [525/00] Out 1533z S9	Malc, Gary H	FRI
	1625z	03/01 [974/00] Out 1628z S9	Malc	SUN
	1530z	04/01 [520/00] Out 1533z S7	Malc, Gary H	MON
	1530z	08/01 [525/00] Out 1628z S9	Malc	SUN
	1530z	11/01 [525/00] Out 1533z S5	Malc, Brixmis	MON
	1530z	15/01 [522/00] Out 1533z S6	Malc	FRI
	1625z	17/01 [978/00] Out 1628z S7	Malc, Brixmis	SUN
	1530z	18/01 [520/00] Out 1533z S4	Malc	MON
	1530z	22/01 [522/00]	Gary H	FRI
	1625z	24/01 [974/38 25102…….93770] Out 1636z S7	Malc	SUN
	1530z	25/01 [522/35 53010 21200 92436 87542 76682 89619 11019…….88945 62474] Out 1540z S7	Gary H, Malc, Brixmis	MON
	1625z	27/01 [976/00] Out 1628z S7	Malc	WED
	1530z	29/01 [522/31 94959…….93826] Out 1540z S3	Malc	FRI
	1625z	31/01 [974/00] Out 1628z S9	Malc	SUN
	1625z	03/02 [972/00] Out 1628z S5	Malc, dMHz, Gary H	WED
	1530z	05/02 [527/00] Out 1533z S3	Malc	FRI
	1625z	07/02 [975/00] Out 1628z S9	Malc	SUN
	1530z	08/02 [522/00] Out 1533z S3	Malc	MON
	1625z	14/02 [976/00] Out 1628z S4	Malc	SUN
	1625z	17/02 [974/00] Out 1628z S4	Malc	WED
	1530z	19/02 [520/00]Out 1533z S3	Malc	FRI
	1530z	22/02 [525/39 81539…….77920] Out 1541z S2	Malc	MON
	1625z	24/02 [974/34 43166…….19315] Out 1635z S7	Malc	WED
5149kHz	0820z	01/01 [438/00] Out 0823z S3	Malc	FRI
	0820z	08/01 [435/39 85883 75771 45534 93956 47299 61402 63616……82899] Out 0831z S5	RNGB, Malc	FRI
	0820z	14/01 [432/00] Out 0823z S4	Malc, RNGB	THU
	0820z	21/01 [436/00] Out 0823z S4	Malc, RNGB	THU
	0820z	22/01 [432/00] Out 0823z S3	Malc	FRI
	0820z	29/01 [432/00]	RNGB	FRI
	0820z	29/01 [432/00] Out 0823z S4	Malc	FRI
	0820z	04/02 [430/00] Out 0823z S2	Malc, RNGB	THU
	0820z	05/02 [432/00] Out 0823z S2	Malc, RNGB	FRI
	0820z	11/02 [431/00] Out 0823z S4	Malc, RNGB	THU
	0820z	12/02 [430/00] Out 0823z S3	Malc, RNGB	FRI
	0820z	18/02 [432/00] Out 0823z S4	Malc, RNGB	THU
	0820z	19/02 [430/00] Out 0823z S3	Malc	FRI
	0820z	25/02 [432/37 85350…….62719] Out 0830z S2	Malc	THU
	0820z	26/02 [432/37 85350……etc] Repeat of Thursday	Malc	FRI
5344kHz	1605z	03/01 [230/00] Out 1608z S4	Malc	SUN
	1605z	05/01 [235/00] Out 1608z S6	Malc	TUE
	1605z	10/01 [236/00]	dMHz, Brixmis, Malc	SUN
	1605z	12/01 [236/00] Out 1608z S7	Malc, Gary H	TUE
	1605z	17/01 [237/00] Out 1608z S6	Malc	SUN
	1605z	19/01 [232/00]	Brixmis, Gary H, Malc	TUE
	1605z	24/01 [230/00] Out 1608z S7	Malc	SUN
	1605z	26/01 [238/34 76701…….04205] Out 1615z S5	Malc	TUE
	1605z	31/01 [238/34 76701…..etc] Repeat of Tuesday	Malc	SUN
	1605z	07/02 [231/00] Out 1608z S7	Malc	SUN
	1605z	09/02 [232/32 60643 25384 99743 28382 36273 15752 22872 10259 ……71063 59486]	Ary, Gary H	TUE
	1605z	14/02 [232/32 60643……etc] Repeat of Tuesday	Malc	SUN
	1605z	21/02 [230/00] Out 1608z S5	Malc	SUN
	1605z	23/02 [230/00] Out 1608z S4	Malc	TUE
5409kHz	1530z	07/01 [264/00] Out 1533z S9	Malc, Gary H	THU
	1530z	14/01 [262/00] Out 1533z S4	Malc, Gary H	THU
	1530z	21/01 [260/39 83834…….42237] Out 1533z S5	Malc	THU
	1530z	04/02 [261/00] Out 1533z S3	Malc	THU
	1530z	11/02 [267/38 11168…….47958] Out 1541z S7	Malc	THU
	1530z	18/02 [260/00] Out 1533z S7	Malc	THU
	1530z	25/02 [260/00]	Gary H	THU
5779kHz	1730z	07/01 [412/39 79022…….20009] Out 1741z S3+QRM	Malc	THU
	1730z	14/01 [412/00] Out 1733z S3	Malc	THU
	1730z	21/01 [414/00] Out 1733z S4	Malc	THU
	1730z	04/02 [418/00] Out 1733z S3	Malc	THU
	1730z	11/02 [414/38 85095……. 94141] Out 1741z S6	Malc, HfD	THU
	1730z	18/02 [413/00] Out 1733z S6	Malc	THU
	1730z	25/02 [418/00] Out 1733z S6	Malc	THU

6280kHz	0435z	07/02 [359/00]	HfD	SUN
6433kHz	1205z	05/01 [469/31 03409 53295 64307 03111 90304 80928 52741 17121……09476] Out 1215z S3	RNGB, Malc	TUE
	1205z	12/01 [465/00] Out 1208z S3	Malc	TUE
	1205z	19/01 [465/00] Out 1208z S2	Malc	TUE
	1205z	20/01 [463/00] Out 1208z S3	Malc, RNGB	WED
	1205z	26/01 [464/00] Out 1208z S3	Malc	TUE
	1205z	27/01 [464/00] Out 1208z S2	Malc	WED
	1205z	02/02 [464/00]	RNGB	TUE
	1205z	03/02 [463/00] Out 1208z S3 (Dutch SDR)	Malc	WED
	1205z	09/02 [462/00] Out 1208z S2	Malc	TUE
	1205z	16/02 [463/00] Out 1208z S2	Malc, RNGB	TUE
	1205z	17/02 [465/00] Out 1208z S3	Malc	WED
	1205z	23/02 [469/31 19000 23919 49518 94246 55225 40583 40707 73547……90943 68096]	Daniel. Ary, Malc	TUE
	1205z	24/02 [469/31 19000……etc] Repeat of Tuesday	Malc	WED
6804kHz	0700z	05/01 [574/00]	RNGB	TUE
	0700z	12/01 [577/00]	RNGB	TUE
	0700z	19/01 [577/39 51153 91779 68686 77577 34353 10061 09741……75260 03576] Out 0711z S4	RNGB, Malc	TUE
	0700z	26/01 [575/00] Out 0703z S5	Malc	TUE
	0700z	02/02 [571/00]	RNGB	TUE
	0700z	16/02 [577/39 96198 80381 12631 71623 69098 04120 64027……47217 78351] Out 0711z S2	RNGB, Malc	TUE
	0700z	23/02 [574/00] Out 0703z S2	Malc	TUE
6849kHz	1650z	01/01 [927/00] Out 1653z S2	Malc	FRI
	1650z	03/01 [925/00] Out 1653z S4	Malc	SUN
	1900z	04/01 [644/33 01293…….61250] Out 1910z S2+QRM	Malc	MON
	1900z	07/01 [644/33 01293……etc] Repeat of Monday	Malc	THU
	1650z	08/01 [929/00] Out 1653z S2	Malc	FRI
	1650z	10/01 [922/00] Out 1653z S5	Malc	SUN
	1900z	11/01 [643/00] Out 1903z S2 (Dutch SDR)	Malc	MON
	1900z	14/01 [644/00] Out 1903z S3	Malc	THU
	1650z	15/01 [926/31 34962……..78996] Out 1700z S3	Malc	FRI
	1650z	17/01 [926/31 34962……etc] Repeat of Friday	Malc	SUN
	1900z	18/01 [647/00] Out 1903z S2	Malc	MON
	1650z	24/01 [927/00] Out 1653z S9	Malc	SUN
	1900z	21/01 [649/00] Out 1903z S4	Malc	THU
	1650z	22/01 [926/00] Out 1653z S3	Malc	FRI
	1900z	25/01 [649/00] Out 1903z S9	Malc	MON
	1650z	29/01 [921/00] Out 1653z S5	Malc	FRI
	1650z	31/01 [921/00]	Brixmis	SUN
	1650z	31/01 [921/00] Out 1653z S9	Malc	SUN
	1900z	01/02 [644/00] Out 1903z S5	Malc	MON
	1900z	04/02 [640/00] Out 1903z S6	Malc	THU
	1650z	05/02 [926/37 88512…….70329] Out 1701z S6	Malc	FRI
	1650z	07/02 [926/37 88512……etc] Repeat of Friday	Malc	SUN
	1900z	08/02 [640/36 97758…….49357] Out 1910z S3	Malc	MON
	1900z	11/02 [640/36 97758……etc] Repeat of Monday	Malc	THU
	1650z	12/02 [924/00] Out 1653z S3	Malc, Gary H	FRI
	1650z	14/02 [920/00] Out 1653z S3	Malc	SUN
	1900z	15/02 [646/00] Out 1903z S5	Malc	MON
	1900z	18/02 [648/00] Out 1903z S3	Malc	THU
	1650z	19/02 [927/00] Out 1653z S2 (Dutch SDR)	Malc	FRI
	1900z	22/02 [644/00]	RNGB, Malc	MON
	1900z	25/02 [641/00] Out 1903z S9	Malc	THU
	1650z	26/02 [926/00] Out 1653z S4	Malc	FRI
7469kHz	0930z	07/01 [278/00] Out 0933z S4	Malc, RNGB	THU
	0930z	14/01 [275/00] Out 0933z S3	Malc	THU
	0930z	20/01 [270/39 82756 59811 27453 06844 05620 73243 64274……13112 61732] Out 0941z S4	RNGB, Malc	WED
	0930z	21/01 [270/37 82756……etc] Repeat of Wednesday	Malc	THU
	0930z	27/01 [276/00] Out 0933z S3	Malc	WED
	0930z	28/01 [271/00]	RNGB	THU
	0930z	03/02 [273/00] Out 0933z S4	Malc	WED
	0930z	04/02 [270/00] Out 0933z S2	Malc	THU
	0930z	10/02 [273/00]	RNGB	WED
	0930z	11/02 [273/00] Out 0933z S3	Malc, RNGB	THU
	0930z	17/02 [273/00] Out 0933z S3	Malc, RNGB	WED
	0930z	18/02 [279/00] Out 0933z S4	Malc	THU
	0930z	24/02 [273/34 34291 40013 13125 09646 64548 11497 18204……04811 74840] Out 0940z S3	RNGB, Malc	WED

7840kHz	0645z	09/02 [510/00]	HfD	TUE
7984kHz	1045z	04/01 [698/00] Out 1048z S3	Malc	MON
	1045z	11/01 [690/35 24571……. 09358] Out 1055z S4	Malc	MON
	1045z	18/01 [693/00] Out 1048z S2	Malc	MON
	1045z	20/01 [697/00] Out 1048z S7	Malc	WED
	1045z	25/01 [696/00] Out 1048z S4	Malc	MON
	1045z	27/01 [690/00] Out 1048z S3	Malc	WED
	1045z	27/01 [690/00] Out 1048z S3	Malc	WED
	1045z	03/02 [693/00] Out 1048z S3	Malc	WED
	1045z	08/02 [693/00] Out 1048z S3	Malc, RNGB	MON
	1045z	15/02 [698/26 70445 06600 05519 81383 50354 56645 05364……14045 33562] Out 1053z S5	RNGB, Malc	MON
	1045z	17/02 [698/26 70445……etc] Repeat of Monday	Malc	WED
	1045z	22/02 [693/00] Out 1048z S2	Malc	MON
	1045z	24/02 [694/00] Out 1048z S2	Malc	WED
8597kHz	1000z	01/01 [308/00] Out 1003z S5	Malc	FRI
	0900z	04/01 [534/00] Out 0903z S4	Malc, RNGB	MON
	1000z	05/01 [306/32 95095…… 37574] Out 1011z S3	Malc	TUE
	1000z	08/01 [306/32 95095….etc] Repeat of Tuesday	Malc	FRI
	1000z	12/01 [305/00] Out 1003z S2	Malc	TUE
	1000z	15/01 [304/00] Out 1003z S3	Malc	FRI
	0900z	18/01 [536/00] Out 0903z S4	Malc, RNGB	MON
	0900z	20/01 [538/00]	Brixmis	WED
	1000z	19/01 [305/00] Out 1003z S3	Malc, RNGB	TUE
	0900z	20/01 [538/00] Out 0903z S3	Malc	WED
	1000z	22/01 [302/00]	dMHz, Malc	FRI
	0900z	25/01 [536/37 17098 62899 97191 20044 65088 29232 35708……40011 16558] Out 0911z S4	RNGB, Malc	MON
	1000z	26/01 [300/00] Out 1003z S4	Malc	TUE
	0900z	27/01 [536/37 17098……etc] Repeat of Monday	Malc	WED
	1000z	29/01 [302/00] Out 1003z S6	Malc	FRI
	0900z	01/02 [535/00] Out 0903z S3	Malc, RNGB	MON
	1000z	02/02 [308/00]	RNGB	TUE
	0900z	03/02 [535/00] Out 0903z S4	Malc, RNGB	WED
	1000z	05/02 [302/00] Out 1003z S4	Malc	FRI
	0900z	08/02 [532/00] Out 0903z S3	Malc	MON
	0900z	10/02 [536/00]	RNGB	WED
	1000z	12/02 [309/00] Out 1003z S5	Malc	FRI
	0900z	15/02 [535/00] Out 0903z S5	Malc	MON
	1000z	16/02 [308/21 06244…….74980] Out 1007z S3	Malc, RNGB	TUE
	0900z	17/02 [538/00] Out 0903z S3	Malc, RNGB	WED
	1000z	19/02 [308/21 06244…….74980] Out 1007z S5	Malc	FRI
	0900z	22/02 [532/32 69431……60442] Out 0910z S3	Malc	MON
	1000z	23/02 [309/00] Out 1003z S3	Malc	TUE
	0900z	24/02 [532/32 69431…….60442] Out 0910z S5	Malc	WED
9130kHz	0715z	05/01 [636/00] Out 0718z S5	Malc, RNGB	TUE
	0715z	12/01 [639/35 56972 66347 37730 78448 56434 16652 74256……14674 89159] Out 0725z S2	RNGB, Malc	TUE
	0715z	19/01 [631/00] Out 0718z S2	Malc, RNGB	TUE
	0715z	26/01 [636/00] Out 0718z S2	Malc	TUE
	0715z	02/02 [631/00]	RNGB	TUE
	0715z	09/02 [631/00] Out 0718z S4	Malc, RNGB	TUE
	0715z	16/02 [637/00] Out 0718z S2	Malc, RNGB	TUE
	0715z	23/02 [630/30 96320……..44409] Out 0725z S5	Malc	TUE
10213khz	0745z	04/01 [260/00] Out 0748z S9	Malc, RNGB	MON
	0745z	11/01 [264/00] Out 0748z S7	Malc	MON
	0745z	18/01 [260/39 83834…….42237] Out 0755z S4	Malc	MON
	0745z	25/01 [266/00] Out 0748z S9	Malc	MON
	0745z	01/02 [266/00] Out 0748z S8	Malc	MON
	0745z	08/02 [26?/?? 11168…….47958] Out 0756z S9	Malc	MON
	0745z	15/02 [261/00] Out 0748z S9	Malc	MON
	0745z	22/02 [261/00] Out 0748z S5	Malc	MON
10487kHz	1910z	01/01 [611/00] Out 1913z S2 (Dutch SDR)	Malc	FRI
	1910z	03/01 [613/00] Out 1913z S2 (Dutch SDR)	Malc	SUN
	1910z	15/01 [610/00] Out 1913z S2	Malc, RNGB	FRI
	1910z	24/01 [612/00] Out 1913z S2	Malc	SUN
	1910z	07/02 [614/35 56005…….19739] Out 1920z S3 (Dutch SDR)	Malc	SUN
	1910z	19/02 [616/00]	dMHz	FRI

11450kHz	0640z	04/01 [948/00]	RNGB	MON
	0640z	25/01 [946/00]	RNGB	MON
	0640z	08/02 [944/00]	HfD	MON
12067khz	0845z	04/01 [714/00] Out 0848z S7	Malc, RNGB	MON
	0845z	11/01 [713/00] Out 0848z S5	Malc	MON
	0845z	18/01 [711/00] Out 0848z S5	Malc	MON
	0845z	20/01 [718/00] Out 0848z S9	Malc	WED
	0845z	25/01 [713/32 17848…….17546] Out 0855z S7	Malc	MON
	0845z	27/01 [713/32 17848…..etc] Repeat of Monday	Malc	WED
	0845z	01/02 [710/00] Out 0848z S6	Malc, RNGB	MON
	0845z	03/02 [711/00] Out 0848z S3	Malc	WED
	0845z	08/02 [715/00] Out 0848z S9	Malc	MON
	0845z	15/02 [711/00] Out 0848z S9	Mal, RNGB	MON
	0845z	17/02 [718/00] Out 0848z S2	Malc, RNGB	WED
	0845z	22/02 [719/32 47917 34913 69040 67088 39734 06713 38398……61141 12778] Out 0855z S4	RNGB, Malc	MON
	0845z	24/02 [719/32 47917……etc] Repeat of Monday	Malc	WED
12089kHz	0845z	05/01 [156/24 45434 01779 71912 22692 70782 50505 06646……66921 79327] Out 0853z S6	RNGB, Malc	TUE
	0845z	07/01 [156/24 45434…..etc] Repeat of Tuesday	Malc	THU
	0845z	12/01 [156/00] Out 0848z S3	Malc	TUE
	0845z	14/01 [151/00] Out 0848z S2	Malc, RNGB	THU
	0845z	19/01 [157/00] Out 0848z S2	Malc, RNGB	TUE
	0845z	21/01 [156/00] Out 0848z S3	Malc, RNGB	THU
	0845z	26/01 [151/00] Out 0848z S3	Malc	TUE
	0845z	02/02 [150/00]	RNGB	TUE
	0845z	04/02 [154/00] Out 0848z S2	Malc, RNGB	THU
	0845z	09/02 [156/00] Out 0823z S3	Malc, RNGB	TUE
	0845z	11/02 [155/00] Out 0848z S3	Malc, RNGB	THU
	0845z	16/02 [154/00] Out 0848z S3	Malc, RNGB	TUE
	0845z	18/02 [154/00] Out 0848z S3	Malc, RNGB	THU
	0845z	23/02 [152/22 86784…….51740] Out 0853z S2 (Dutch SDR)	Malc	TUE
	0845z	25/02 [152/22 86784…..etc] Repeat of Tuesday	Malc	THU
12424kHz	0830z	04/01 [189/00] Out 0833z S5	Malc, RNGB	MON
	0830z	08/01 [188/00]	RNGB	FRI
	0830z	11/01 [185/00] Out 0833z S8	Malc	MON
	0830z	15/01 [180/00] Out 0833z S3	Malc, RNGB	FRI
	0830z	18/01 [184/00] Out 0833z S4	Malc	MON
	0830z	22/01 [182/00] Out 0833z S6	Malc, RNGB	FRI
	0830z	25/01 [183/39 33628 25769 21012 46846 88539 79250 21880……98089 63484] Out 0841z S7	RNGB, Malc	MON
	0830z	29/01 [183/39 33628…..etc] Repeat of Monday	Malc	FRI
	0830z	01/02 [182/00] Out 0833z S3	Malc, RNGB	MON
	0830z	05/02 [182/00] Out 0833z S2	Malc	FRI
	0830z	08/02 [188/00] Out 0833z S2	Malc	MON
	0830z	12/02 [188/00] Out 0833z S6	Malc, RNGB	FRI
	0830z	15/02 [189/00] Out 0833z S6	Malc	MON
	0830z	19/02 [189/00] Out 0833z S2	Malc	FRI
	0830z	22/02 [183/36 68994……91598] Out 0840z S5	Malc	MON
12924kHz	1745z	10/01 [245/00] Out 1748z S2	Malc	SUN
	1745z	11/01 [244/00] Out 1748z S2 (Dutch SDR)	Malc	MON
	1745z	18/01 [244/34 27993…….99263] Out 1755z S2 (Dutch SDR)	Malc	MON
	1745z	07/02 [249/00] Out 1748z S2 (Dutch SDR)	Malc	SUN
	1745z	14/02 [240/00] Out 1748z S1 (Dutch SDR)	Malc	SUN
	1745z	15/02 [244/39 68553 64744 97020 38176 10207 49968 49209 70730……71660 94264]	RNGB	MON
	1745z	22/02 [245/00]	RNGB	MON
13363kHz	1345z	02/01 [919/00] Out 1348z S2 (Dutch SDR)	Malc, RNGB	SAT
	1345z	05/01 [914/00] Out 1348z S2 (Dutch SDR)	Malc	TUE
	1345z	09/01 [915/00] Out 1348z S3	Malc	SAT
	1345z	12/01 [910/32 16242…….97272] Out 1355z S5	Malc	TUE
	1345z	16/01 [910/32 16242……etc] Repeat of Tuesday	Malc	SAT
	1345z	19/01 [917/00] Out 1348z S2	Malc	TUE
	1345z	26/01 [914/00] Out 1348z S6	Malc	TUE
	1345z	06/02 [917/00]	Brixmis	SAT
	1345z	09/02 [911/00] Out 1348z S2	Malc	TUE
	1345z	13/02 [911/00] Out 1348z S3	Malc	SAT
	1345z	20/02 [918/00] Out 1345z S3	Malc	SAT
	1345z	23/02 [910/32 01674 19138 45017 94802 31187 29237 65842……..66436] Out 1355z S2	RNGB, Malc	TUE

13908kHz	0745z	05/01 [223/34 30342 88250 18654 29147 43265 45750 76183……80706 51377] Out 0755z S6	RNGB, Malc	TUE
	0745z	07/01 [223/34 30342…..etc] Repeat of Tuesday	Malc	THU
	0745z	12/01 [224/00] Out 0748z S3 (Dutch SDR)	Malc	TUE
	0745z	14/01 [224/00] Out 0748z S2 (Dutch SDR)	Malc	THU
	0745z	19/01 [227/00] Out 0748z S2	Malc, RNGB	TUE
	0745z	21/01 [228/00] Out 0748z S2	Malc, RNGB	THU
	0745z	26/01 [227/00] Out 0748z S2+QRM	Malc	TUE
	0745z	02/02 [220/00]	RNGB	TUE
	0745z	04/02 [220/00] Out 0748z S2	Malc, RNGB	THU
	0745z	09/02 [220/37 42319 73945 01596 74476 56980 98502……72988 85597] Out 0755z S3	RNGB, Malc	TUE
	0745z	11/02 [220/37 42319…..etc] Repeat of Tuesday	Malc	THU
	0745z	16/02 [228/00] Out 0748z S2	Malc, RNGB	TUE
	0745z	18/02 [228/00] Out 0748z S2	Malc, RNGB	THU
	0745z	23/02 [220/00] Out 0748z S2 (Dutch SDR)	Malc	TUE
	0745z	25/02 [225/00] Out 0748z S2 (Dutch SDR)	Malc	THU
14611kHz	0820z	05/01 [133/34 76872 19643 52405 94950 12996 03382 12143……98469 96416] Out 0830z S9	RNGB, Malc	TUE
	0820z	12/01 [156/00] Out 0823z S2	Malc	TUE
	0820z	19/01 [132/00] Out 0823z S4	Malc, RNGB	TUE
	0820z	20/01 [135/00] Out 0823z S7	Malc, RNGB	WED
	0820z	26/01 [130/00] Out 0823z S2	Malc	TUE
	0820z	27/01 [131/00] Out 0823z S2	Malc, RNGB	WED
	0820z	02/02 [133/37 40412 39569 72647 90989 83365 36209 24289 07817……25003 29979]	RNGB	TUE
	0820z	03/02 [133/37 40412…….29979] Out 0831z S2 (Dutch SDR)	Malc	WED
	0820z	09/02 [133/00] Out 0823z S2	Malc	TUE
	0820z	10/02 [135/00]	RNGB	WED
	0820z	16/02 [138/00] Out 0823z S2 (Dutch SDR)	Malc, RNGB	TUE
	0820z	17/02 [134/00] Out 0823z S2 (Dutch SDR)	Malc, RNGB	WED
	0820z	24/02 [135/00] Out 0823z S2 (Dutch SDR)	Malc	WED
17378kHz	0745z	08/01 [348/00] Out 0748z S2 (Dutch SDR)	Malc, RNGB	FRI
	0745z	13/01 [344/34 72609 06086 53722 01165 32522 74680 16165 30786……41067]	RNGB	WED
	0745z	27/01 [347/00] Out 0748z	Malc	WED
	0745z	29/01 [348/00] Out 0748z S2	Malc	FRI
	0745z	03/02 [346/00] Out 0748z S2 (Dutch SDR)	Malc	WED
	0745z	10/02 [348/00]	RNGB	WED
	0745z	12/02 [349/00] Out 0748z S2 (Dutch SDR)	Malc	FRI
	0745z	24/02 [346/00] Out 0748z S2 (Dutch SDR)	Malc	WED

The crazy world of 121 **(**with many thanks to Daniel E)

4146kHz	1920z	25/01 [121/25 52154 86325 89012 40256 32011 47850 02369 85214 79520 36950 12478 52012 15963 02145 87565 23012 25489 65201 36547 89201 48756 30012 45896 35836 58742]
	2000z	26/01 [121/25 99475 36749 86739 39754 02110 34077 90977 29395 72957 20305 05763 02798 81965 81687 46586 39501 60011 01027 02738 64510 61674 56435 34997 65334 96903]
4242kHz	1940z	25/01 [121/25 25489 65213 65874 52301 20356 98745 20125 63201 45875 63201 25401 25889 63021 45621 04786 32012 54896 30124 58702 56032 01458 20156 98563 01254 85630]
	1940z	26/01 [121/25 00987 09870 63769 83756 09367 69837 79897 89173 42183 86982 50984 91063 59028 35928 59864 93634 34400 80101 81008 14741 04787 59235 73467 57648 93290]
4505kHz	2000z	25/01 [121/25 25489 63201 24875 22013 65874 59630 12458 70123 69850 01245 87965 23015 47896 54201 36520 14789 65203 21458 79652 01245 87965 20121 36548 79601 23501]
	1920z	26/01 [121/25 64599 16481 06160 16578 45676 34902 50659 25602 35623 49271 01607 50767 34856 83054 63782 80242 98924 72947 29092 82929 71143 24531 40933 08567 65606]

E17z

Thursday

January 2021

0800z 11170kHz 0810z 9820kHz

07/01	217 854 6 69856 82541 98423 79003 15452 13222 854 6 00000		Weak
14/01	217 854 6 69854 82541 98423 79003 15452 13222 854 6 00000		Weak
21/01	217 896 5 88620 17328 15636 47891 23227 896 5 00000	[0800z Dutch SDR]	Weak
28/01	217 896 5 88620 17228 15636 47891 23227 896 5 00000		Weak

February 2021

04/02	217 459 6 13621 62881 99183 60196 68094 21016 459 6 00000		Weak
11/02	217 459 6 13621 62881 99183 60196 68094 21016 459 6 00000		Weak
18/02	217 984 5 88569 89617 25757 77159 95225 984 5 00000		Weak Dutch SDR
25/02	217 984 5 88569 89617 25757 77159 95225 984 5 00000	[0800z Unworkable]	Weak, Dutch SDR

E25

Not heard

G06

Apparently missing through January re-appears in February ….

Thursday

January 2021

Nil Report

February 2021

1830z 4519kHz

11/02	271 745 20 67722 ... 60769 745 20 00000	Daniel	THU

271 745 20
67722 90238 75610 59390 17025 69758 92874 08623 41823 17448
76790 27992 01488 00885 14616 12567 33514 53175 37605 60769
745 20 00000 *Courtesy Daniel*

25/02	271 745 20 67722 ... 60769 745 20 0000	Weak, QRM	Dutch SDR

Friday

January 2021

1930z 4792kHz

Nil Report

February 2021

1930z 4792kHz

12/02	436 745 20 67722 ... 60769 745 20 00000	Weak
26/02	436 745 20 67722 ... 60769 745 20 00000	Weak via Dutch SDR

S06

S06 log January 2021

Thursdays (repeats Friday) 0830z 16243kHz 0930z 13469kHz

14/01 '842' 569 37 52193 62133 69916 52004 67108 34908 05168 87013 45192 86912 05034 45231 29062 61860 16284 76495 22861 30258 15341 57431 57248 58069 70386 95716 79478 00880 30905 71557 29520 28229 68104 33553 88142 07809 14661 91149 07918 569 37 00000

21/01 '842' 710 34 78378 29224 16607 43758 77875 01236 11703 06435 87294 28804 53377 41283 30554 73294 32316 96051 92953 68988 33873 42209 30345 62705 04907 52891 77625 49998 03532 95401 29980 75124 67714 17949 95315 86975 710 34 00000

28/01 '842' 675 39 22935 23473 65110 72173 47495 77277 82798 72206 46925 77295 29939 06734 31553 49749 85569 85565 98549 96099 09989 50215 30558 79924 47927 33489 12386 04141 83374 77374 39199 45735 82000 88919 14667 40207 82123 38783 62473 32908 20138 675 39 000000

Fridays (1st & 3rd) 2000z 7553khz 2100z 5329kHz

01/01 '768' 00000
15/01 '768' 00000

Saturday 1300z 7377kHz 1330z 5410kHz repeats Sunday 0930z 9946kHz 1000z 8095kHz

02/01 ‘480’ 672 40 60191 55235 55110 92008 10140 45365 59541 89197 92539 64453 29592 99312 05121 16999 77299 80729 51842 18973 30942 57563 18917 65670 07835 69607 17737 44924 20307 49406 37855 77934 68300 25052 97700 01827 19382 93471 31816 00691 33721 03136 672 40 00000 (Thanks to Daniel E)

09/10 ‘480’ 391 40 25259 82385 32074 31883 76448 05336 74694 70217 45945 94752 96209 52956 46195 69442 67819 76785 19672 16034 48159 48597 34507 52090 24544 08172 34242 12897 44405 90742 88350 16349 13982 31355 28220 76863 98143 60279 90337 71635 06269 35975 391 40 00000

16/01 ‘480’ 576 44 78430 31192 49124 23068 95405 58261 82515 27048 56151 54890 39941 74423 34229 30007 61753 67546 19795 69197 29868 40529 18027 92425 68208 21206 48133 98220 41359 58310 86475 50996 73201 71458 72797 15128 28810 62853 29344 45434 04714 58814 36804 26660 57159 43347 576 44 00000

23/01 ‘480’ 321 45 26968 41395 63128 96786 40981 20337 35927 48027 34648 30416 98984 84605 62433 92695 18405 48811 46057 69549 98345 46084 51275 56631 32823 01662 61147 39116 81816 88102 52005 49441 82278 69397 10380 76271 14863 88731 73774 73536 63766 95243 28064 45881 72465 94685 14422 321 45 00000

30/01 ‘480’ 675 41 37428 93523 64082 66656 82322 41345 47287 45244 79990 55125 53932 84261 81065 15116 11647 59750 38171 67320 81254 14907 93502 03509 36186 95310 79960 07326 52160 18011 51109 63456 71343 84626 12319 77855 15874 69732 20702 50068 21427 56804 68700 675 41 00000

S06s January log:

Monday

4th/11th	0630/0640z	13470/16515	‘462’ 590 7 46062 68672 97478 39685 20475 86633 52537
18th/25th			‘462’ 901 5 17613 74220 56381 16458 39354
4th/11th	0830/0840z	8057/8530	‘764’ 801 5 69865 82541 98423 79033 15452
18th/25th			‘764’ 238 5 26634 14588 85589 69375 93998
4th/11th	0900/0910z	14675/12830	‘232’ 802 5 08631 58082 35270 08982 92738
18th/25th			‘232’ 469 5 39534 17228 15636 47891 23247
4th/11th	1200/1210z	8420/10635	‘149’ 802 5 08631 58082 35270 08982 92738
18th/25th			‘149’ 875 6 11171 74385 82707 06123 22536 88280

Tuesday

5th/12th	0600/0610z	16145/14240	‘438’ 206 5 11169 03439 43548 19152 23063
19th/26th			‘438’ 267 5 52401 63919 92699 14600 74248
5th/12th	0700/0710z	5250/6320	‘452’ 807 6 32314 34896 82738 36376 35685 64821
19th/26th			‘452’ 978 6 46062 68672 97478 39685 30485 96632
5th/12th	0730/0740z	7410/11532	‘427’ 836 5 10597 23512 47660 87654 19709
19th/26th			‘427’ 835 6 52401 62919 92699 14600 74248 65125
5th/12th	0800/0810z	11945/13195	‘127’ 806 5 39534 17228 15636 47891 23247
19th/26th			‘127’ 468 5 33796 13577 74526 46647 79403
5th/12th	1000/1010z	6440/5660	‘427’ 931 5 32314 34896 82738 36376 35685
19th/26th			‘427’ 503 6 05899 50387 45847 81022 36903 41412
5th/12th	1100/1110z	5035/5975	‘265’ 419 7 96882 30034 19804 96845 22444 08374 98662
19th/26th			‘265’ 431 7 96320 36793 53038 76342 15009 34140 78386

Wednesday

6th/13th	0830/0840z	7062/10532	‘464’ 987 5 69856 82541 98423 79033 15452
20th/27th			‘464’ 203 5 11171 64385 82707 06123 22536
6th/13th	1000/1010z	12365/14280	‘276’ 938 5 73687 04565 39895 91670 29257
20th/27th			‘276’ 809 5 01405 15003 24357 60583 54545

Thursday

7th/14th (E17z)	0800/0810z	11170/9820	‘217’ 854 6 69856 82541 98423 79003 15452 13222
21st/28th			‘217’ 896 5 88620 17228 15636 47891 23227
7th/14th	0830/0840	11535/11830	‘172’ 985 6 72687 04565 39895 91670 29257 69816
21st/28th			‘172’ 804 5 40614 64385 82707 06123 22536
7th/14th	0930/0940z	8812/9540	‘698’ 410 5 81155 15870 20136 51533 28142
21st/28th			‘698’ 421 5 11749 70552 56936 57989 15371
7th/14th	1200/1210z	12155/10920	‘175’ 904 6 08621 58082 26270 08982 92738 26090
21st/28th			‘175’ 283 6 15009 34170 78386 91497 82963 24162

Friday

1st/8th	0830/0840z	11040/12153	‘156’ 408 7 30982 57442 93845 87709 48840 06625 28524
15th/22nd			‘156’ 283 7 13621 26252 92057 44817 89106 37937 16393
1st/8th	0900/0910z	5765/6315	‘239’ 804 5 95537 99805 65236 67496 82928
15th/22nd			‘239’ 507 6 00125 89675 23491 50034 23178 00423

Saturday

2nd	0800/0810z	8680/8260	‘132’ 478 5 62554 30112 37065 65600 71259

S06 log February 2021

Thursdays (Repeats Friday) 0830z 17440kHz 0930z 15614kHz

11/02 '842' 750 41 27693 96805 14289 29588 11939 10094 43661 04291 90561 58349 08588 86918 92416 04867 95636 35787 11404 05740 93262 08075 82998 61271 92597 82569 91741 22166 62182 52046 26871 36450 26302 33708 28290 48047 01628 71137 90050 82958 71841 26180 13549 750 41 00000

18/02 '842' 136 42 59995 22152 67796 69098 59764 52757 35380 58611 59355 81046 79594 48891 33643 51203 45355 59507 30447 27199 51907 58632 25380 35804 51633 75834 79534 23759 59663 68863 67182 65047 33969 42885 65693 79196 10635 45592 24832 46552 24000 86631 57650 31476 136 42 00000

25/02 '842' 759 43 28708 65770 87127 51691 76218 96490 56465 26576 39193 91923 25387 74803 22529 40201 27792 07046 60521 92461 92682 09895 69004 17308 85223 94897 09313 14357 43214 24657 37493 54048 44902 95653 37206 35914 69083 82511 59761 82497 33427 73362 19719 11099 21963 759 43 00000

Fridays (1st & 3rd) 1900z 7553khz 2000z 5329kHz

05/02 '768' 00000

19/02 '768' 00000

Saturday 1300z 8116kHz 1330z 5410kHz repeats Sunday 0930z 10423kHz 1000z 8167kHz

06/02 '480' 912 45 13303 85017 16590 36384 51092 13958 39941 74423 34229 30007 67546 19795 69197 29868 40529 18027 92425 68208 21206 48133 41359 58310 86475 50996 72436 47109 34818 96901 58261 82515 56151 54890 61483 28452 43208 78646 87173 43262 04309 72604 93390 46472 76509 47464 91755 912 45 00000

13/02 '480' 367 42 84676 22763 63948 35769 95824 79412 98651 94441 68080 27822 77305 23843 95883 08867 73626 67677 92924 75241 15470 32175 64478 75710 14096 73995 85328 87650 23576 55716 55206 60429 13963 73321 22894 94543 02359 17202 33903 47724 14863 70931 67461 66089 367 42 00000

20/02 '480' 192 44 25052 97700 01827 19382 93471 31816 00691 33721 03136 60191 55235 55110 92008 10140 45365 59541 89197 92539 64453 29592 99312 05121 16999 77299 80729 51842 18973 30942 57563 17214 63791 24926 19009 37644 43254 57917 06973 93248 07056 26795 68612 38242 46045 16619 192 44 00000

27/02 '480' 365 40 56799 23172 12538 90406 07709 11939 47843 07747 55616 13621 64722 61188 95389 50048 29275 46166 33523 55941 82452 21222 19101 18485 00621 22894 94543 02359 17202 33903 47724 14863 70931 67461 66089 57923 15689 38290 64137 99288 71561 84703 365 40 000000

S06s February log:

Monday

1st/8th	0630/0640z	13470/16515	'462' 905 7 77821 98420 51532 56440 10597 17099 70767
15th/22nd			'462' Too weak to copy
1st/8th	0830/0840z	8057/8530	'764' 901 5 10597 23521 47660 92883 69901
15th/22nd			'764' 298 5 33796 13577 74526 46647 79302
1st/8th	0900/0910z	14675/12830	'232' 908 5 39534 17228 15636 47891 23247
15th/22nd			'232' 918 5 88620 58069 61732 74537 57440
1st/8th	1300/1310z	8420/10635	'149' 820 5 26634 14690 95590 60386 03009
15th/22nd			'149' 528 6 39544 17228 15636 47891 23247 17099

Tuesday

2nd/9th	0600/0610z	16145/14240	'438' 910 5 13621 26252 82056 44817 89106
16th/23rd			'438' 961 5 05899 50387 45847 23013 89758
2nd/9th	0700/0710z	5250/6320	'452' 903 6 88728 34956 99271 37454 11876 22192
16th/23rd			'452' 831 6 96320 46793 53038 76342 15009 34140
2nd/9th	0730/0740z	7410/11532	'427' 813 5 37937 16393 56723 71383 94742
16th/23rd			'427' 936 5 51736 25910 56281 63156 05371
2nd/9th	0800/0810z	11945/13195	'127' 493 5 96941 56667 92632 50605 70255
16th/23rd			'127' 860 5 42036 01653 15521 53006 61135
2nd/9th	1000/1010z	6440/5660	'427' 869 5 42997 94184 47374 74154 08531
16th/23rd			'427' 508 6 69901 77233 61736 08531 34694 78927
2nd/9th	1100/1110z	5035/5975	'265' 490 7 88164 57856 98835 46186 16945 80744 86200
16th/23rd			'265' 913 7 14600 92918 83981 68090 77169 46647 16070

Wednesday

3rd/10th	0830/0840z	7062/10532	'464' 978 5 06376 48057 13361 19474 34978
17th/24th			'464' 910 5 53516 25616 26509 96813 14199
3rd/10th	1000/1010z	12365/14280	'276' NRH
17th/24th			'276' NRH

Thursday

4th/11th	(E17z)	0800/0810z	11170/9820	'217' 459 6 13621 62881 99183 60196 68094 21016
18th/25th				'217' 984 5 88569 89617 25757 77159 95225
4th/11th		0830/0840	11535/11830	'172' 938 5 15512 82057 56499 75604 59162
18th/25th				'172' 935 6 16945 80744 86292 84706 74154 08531
4th/11th		0930/0940z	8812/9540	'698' 253 7 54936 73943 22191 09721 27448 22174 96941
18th/25th				'698' 254 7 01405 15003 24357 60583 54545 50128 99477
4th/11th		1200/1210z	12155/10920	'175' 280 6 03861 26252 60151 39237 68094 82225
18th/25th				'175' 902 6 11536 88280 84116 53718 78927 34698

Friday

5th/12th	0830/0840z	11040/12153	'156' 284 7 04537 87875 47152 23486 80331 17613
19th/26th			'156' 894 7 33796 13577 74526 46647 79325 53516 25616
5th/12th	0900/0910z	5765/6315	'239' 478 5 06376 48057 13361 19747 34978
19th/26th			'239' 870 6 46062 68672 97478 39685 30485 96632

Saturday

6th	0800/0810z	8680/8260	'132' 476 5 73943 36679 05666 60982 08338

Wednesday 3rd S06s test transmission:
0830/0840/0850/0900/0910/0920z 9390/9940/10380/11570/12130/13540 kHz: 172 172 172 00000 (thanks Daniel)

PoSW offers his analysis:

S06, OM Voice:-

First + Third Fridays in the Month Schedule:-
1-Jan-21:- 2002 UTC, 7553 kHz, found in progress about two minutes in, "768 768 768 00000", good signal, strong "XJT" noise-maker on close frequency.
2100 UTC, 5329 kHz, second sending, strong signal.

Still losing track of the days and forgot to listen for this one on the third Friday in January, the 15th.

In keeping with previously observed behaviour, moved by one hour in February:-
5-Feb-21:- 1900 UTC, 7553 kHz, "768 768 768 00000".
2000 UTC, 5329 kHz, both transmissions good signals.

19-Feb-21:- 1900 UTC, 7553 kHz, "768 768 768 00000", over-riding strong "XJT" not noticed on the 5th.
2000 UTC, 5329 kHz, strong.

Other S06:-

A Saturday schedule:-
9-Jan-21:- 1302 UTC, 7377 kHz, S06 OM calling "480" for a full message, DK/GC "391 391 40 40", fair signal. S06 with 480 call has been heard before on Saturdays at 1300z with a repeat half an hour later, not one hour. A search for the second sending at 1330z took some time:-
1338 UTC, 5410 kHz, S06 in progress, strong signal, well over S9, surprisingly strong considering the distance from the presumed source in daylight on a relatively low frequency. Confirmed as being the second sending of the transmission heard earlier when it ended after 1341z with, "391 391 40 40 00000".
This second sending was nowhere near as strong on subsequent Saturdays in January.

16-Jan-21:- 1300 UTC, 7377 kHz, reasonable signal at first although with deep fading, DK/GC "576 576 44 44", appeared to go off air or fault causing speech to drop out, became difficult to copy.
1330 UTC:- Nothing identifiable as S06 on 5410, very weak signal of some kind but unable to confirm as S06.

23-Jan-21:- 1300 UTC, 7377 kHz, DK/GC "321 321 42 42", weak signal, difficult copy.
1330 UTC, 5410 kHz, weak, way down in the noise.

30-Jan-21:- 1300 UTC, 7377 kHz, DK/GC "675 675 41 41", strong signal, appeared to be transmitted in carrier suppressed mode, no sign of a heterodyne when tuning with the RX in USB.
1330 UTC, 5410 kHz, weak, also appeared to be with carrier suppressed.

6-Feb-21:- 1302 UTC, 8116 kHz, "480" found in progress, weak signal, difficult copy, DK/GC sounded like, "912 912 45 45". Unable to find a repeat at 1330z.
Update:- noticed this one shown in the prediction list in En122, second sending shown as still 5410.

13-Feb-21:- 1300 UTC, 8116 kHz, DK/GC "367 367 42 42", reasonable signal, ended just before 1312 UTC.
1330 UTC, 5410 kHz, very weak signal of some kind, unable to confirm as S06.

20-Feb-21:- 1300 UTC, 8116 kHz, good signal, DK/GC "192 192 44 44".
1330 UTC, 5410 kHz, very weak.

S06s, YL Voice:-
Some of the stronger S06s transmissions heard in the first months of the New Year:-

Monday 0830 + 0840 UTC Schedule, Call "764":-
4-Jan-21:- 0830 UTC, 8057 kHz, DK/GC "801 801 5 5", strong signal, "69865 82541 98423 79033 15452".
0840 UTC, 8530 kHz, second sending also strong with QSB.

11-Jan-21:- 0830 UTC, 8057 kHz, "801 801 5 5" and 5fs as on the 4th, S5 at best.
0840 UTC, 8530 kHz, stronger.

18-Jan-21:- 0830 UTC, 8057 kHz, DK/GC “238 238 5 5”, “26634 14588 85589 69375 93998”, peaking around S7.
0840 UTC, 8530 kHz, weaker.

1-Feb-21:- 0830 UTC, 8057 kHz, DK/GC “901 901 5 5”, “10597 23521 47660 92883 69901”, peaking around S8.
0840 UTC, 8530 kHz, also S8.

8-Feb-21:- 0830 UTC, 8057 kHz, “901 901 5 5” and 5Fs as on the 1st, S7 to S8.
0840 UTC, 8530 kHz, similar signal strength.

15-Feb-21:- 0830 UTC, 8057 kHz, weak signal, DK/GC “298 298 5 5”, “33796 13577 74526 46647 79302”.
0840 UTC, 8530 kHz, slightly stronger.

Monday 0900 + 0910 UTC Schedule, Call “232”:-
4-Jan-21:- 0900 UTC, 14675 kHz, weak signal, difficult copy, sank into noise. Second sending much stronger:-
0910 UTC, 12830 kHz, DK/GC “804 804 5 5”, “47154 25660 69885 96882 30034”.

11-Jan-21:- 0900 UTC, 14675 kHz, again weak signal, difficult copy and again second sending much stronger:-
0920 UTC, 12830 kHz, peaking well over S9, “804 804 5 5” and 5Fs as on 4-Jan.

18-Jan-21:- 900 UTC, 14675 kHz, reasonable signal for a change, DK/GC “469 469 5 5”,
“39534 17228 15636 47891 23247”.
0910 UTC, 12830 kHz, strong.

Tuesday 0730 + 0740 UTC Schedule, Call “427”:-
5-Jan-21:- 0730 UTC, 7410 kHz, DK/GC “836 836 5 5”, weak at first then became stronger, “10597 23512 47660 87654 19709”.
0740 UTC, 11532 kHz, very weak.

12-Jan-21:- 0730 UTC, 7410 kHz, “836 836 5 5” and 5Fs as on the 5th.
0740 UTC, 11532 kHz, in contrast with last Tuesday a strong signal.

19-Jan-21:- 0730 UTC, 7410 kHz, fair signal, DK/GC “835 835 6 6”, “52401 62919 92699 14600 74248 65125”.
0740 UTC, 11532 kHz, back to being a very weak signal.

2-Feb-21:- 0730 UTC, 7410 kHz, DK/GC “813 813 5 5”, weak, “37937 16393 56723 71383 94742”.
0740 UTC, 11532 kHz, much stronger.

9-Feb-21:- 0730 UTC, 7410 kHz, “813 813 5 5” and 5Fs as on the 2nd, very strong signal this morning.
0740 UTC, 11532 kHz, also very strong.

16-Feb-21:- 0730 UTC, 7410 kHz, DK/GC “936 936 5 5”, “51736 25910 56281 63156 05371”
0740 UTC, 11532 kHz, weak at first, became stronger over the space of a couple of minutes.

Tuesday 0800 + 0810 UTC Schedule, Call “127”:-
5-Jan-21:- 0800 UTC, 11945 kHz, DK/GC “806 806 5 5”, strong signal, “39534 17228 15636 47891 23247”.
0810 UTC, 13195 kHz, slightly weaker.

19-Jan-21:- 0800 UTC, 11945 kHz, DK/GC “468 468 5 5”, S8 with QSB, “33796 13577 74526 46647 79302”
0810 UTC, 13195 kHz, weaker.

2-Feb-21:- 0800 UTC, 11945 kHz, DK/GC “493 493 5 5”, good signal, became very strong towards the end, “96941 56667 92632 50605 70255”.
0810 UTC, 13195 kHz, weaker.

9-Feb-21:- 0800 UTC, 11945 kHz, “493 493 5 5” and 5Fs as on the 2nd, good signal.
0810 UTC, 13195 kHz, also a good signal.

16-Feb-21:- 0800 UTC, 11945 kHz, DK/GC “860 860 5 5”, good signal, “42036 01653 15521 53006 61135”.
0810 UTC, 13195 kHz, strong.

Friday 0830 + 0840 UTC Schedule, Call “156”:-
15-Jan-21:- 0830 UTC, 11040 kHz, very weak signal, unreadable, second sending much better:-
0840 UTC, 12153 kHz, DK/GC “283 283 7 7”, strong signal, “13621 26252 92057 44817 89106 37937 16393”, a distinct pause after 5F group no. 5.

22-Jan-21:- 0830 UTC, 11040 kHz, good signal this morning, 7 to 8 on the S-meter, same message as on the 15th.
0840 UTC, 12153 kHz, very strong.

29-Jan-21:- 0830 UTC, 11040 kHz, fifth Friday in this month, “156 156 156 00000”, strong signal.
0839 UTC, just after, 12153 kHz, very strong.

5-Feb-21:- 0830 UTC, 11040 kHz, very strong signal, DK/GC “284 284 7 7”, “04537 87875 47152 23486 80331 17613 74220”.
0840 UTC, 12153 kHz, also very strong.

12-Feb-21:- 0830 UTC, 11040 kHz, very strong, “284 84 7 7” and 5Fs as on 5-Feb.

0840 UTC, 12153 kHz, also very strong.

19-Feb-21:- 0830 UTC, 11040 kHz, strong signal, DK/GC “894 894 7 7”, “33796 13577 74526 46647 79325 53516 25616”.
0840 UTC, 12153 kHz, very strong.

Friday 0900 + 0910 UTC Schedule, Call “239”:-
8-Jan-21:- 0900 UTC, 5765 kHz, DK/GC “804 804 5 5”, “95537 99805 65236 67496 82928”, fair signal.
0910 UTC, 6315 kHz, weak at first, came up stronger.

15-Jan-21:- 0900 UTC, 5765 kHz, very weak, unreadable, second sending much stronger:-
0910 UTC, 6315 kHz, DK/GC “507 507 6 6”, “00125 89675 23491 50034 23178 00423”.

29-Jan-21:- 0900 UTC, 5765 kHz, S6, “239 239 239 00000”.
0909 and 20 seconds approx UTC, 6315 kHz, stronger signal.

19-Feb-21:- 0900 UTC, 5765 kHz, much stronger signal than the last couple of weeks, peaking S7-8 with QSB, DK/GC “870 870 6 6”, “46062 68672 97478 39685 30485 96632”.
0910 UTC, 6315 kHz, slightly weaker.

First Saturday in the Month 0800 + 0810 UTC Schedule, Call “132”:-
2-Jan-21:- 0800 UTC, 8680 kHz, weak signal, way down in the noise, unreadable, second sending much stronger:-
0810 UTC, 8260 kHz, DK/GC “478 478 5 5”, “62554 30112 37065 65600 71259”.

6-Feb-21:- 0800 UTC, 8680 kHz, good signal, much stronger than in January, DK/GC “476 476 5 5”, “73943 36679 05666 60982 08338”.
0810 UTC, 8260 kHz, S6 to S7.

S11a log Jan/Feb

4242kHz	0915z	01/01 [480/00] Konyetz 0918z S3 (Dutch SDR)	Malc	FRI
	0915z	04/01 [483/00] Konyetz 0918z S3	Malc, RNGB	MON
	0915z	08/01 [483/00] Konyetz 0918z S5	Malc, RNGB	FRI
	0915z	11/01 [487/00] Konyetz 0918z S2	Malc	MON
	0915z	15/01 [481/00] Konyetz 0918z S2	Malc, RNGB	FRI
	0915z	18/01 [484/00] Konyetz 0918z S2	Malc, RNGB	MON
	0915z	22/01 [480/00] Konyetz 0918z S2	Malc	FRI
	0915z	25/01 [481/36 36201…….59070] Konyetz 0931z S3	Malc	MON
	0915z	29/01 [481/36 36201…..etc] Repeat of Monday	Malc	FRI
5371kHz	1135z	01/01 [379/00] Konyetz 1138z S3 (Dutch SDR)	Malc	FRI
	1135z	08/01 [370/00] Konyetz 1138z S4	Malc, RNGB	FRI
	1135z	15/01 [373/00] Konyetz 1138z S2	Malc	FRI
	1135z	20/01 [379/00] Konyetz 1138z S3	Malc	WED
	1135z	22/01 [376/00] Konyetz 1138z S3	Malc	FRI
	1135z	27/01 [379/31 94959…….93826] Konyetz 1145z S3	Malc	WED
	1135z	29/01 [379/31 94959…..etc] Repeat of Wednesday	Malc	FRI
	1135z	03/02 [378/00] Konyetz 1138z S2	Malc, RNGB	WED
	1135z	05/02 [377/00] Konyetz 1138z S2	Malc	FRI
	1135z	12/02 [370/00] Konyetz 1138z S3	Malc	FRI
	1135z	17/02 [379/00] Konyetz 1138z S2	Malc	WED
	1135z	19/02 [373/00] Konyetz 1138z S2	Malc	FRI
	1135z	24/02 [373/34 61490 66503 28267 59937 68317 04236 55777……93772 03921] Konyetz 1146z	RNGB, Malc	WED
	1135z	26/02 [373/34 61490…..etc] Repeat of Wednesday	Malc	FRI
6252kHz	0915z	01/02 [484/00]	RNGB	MON
	0915z	05/02 [481/00] Konyetz 0918z S3	MalC, RNGB	FRI
	0915z	08/02 [484/00] Konyetz 0918z S3	Malc, HfD	MON
	0915z	12/02 [483/00]	RNGB	FRI
	0915z	15/02 [486/33 99315 87953 63813 61616 84743 56518 58977……61297 05349] Konyetz 0926z S3	RNGB, Malc	MON
	0915z	19/02 [486/33 99315…..etc] Repeat of Monday	Malc	FRI
	0915z	22/02 [485/00] Konyetz 0918z S3	Malc	MON
	0915z	26/02 [486/00] Konyetz 0918z S2	Malc	FRI
8102kHz	1020z	01/01 [426/00] Konyetz 1023z S3	Malc	FRI
	1020z	05/01 [421/00] Konyetz 1023z S4	Malc	TUE
	1020z	08/01 [427/00] Konyetz 1023z S4	Malc, RNGB	FRI
	1020z	12/01 [420/00] Konyetz 1023z S3	Malc	TUE
	1020z	15/01 [427/00] Konyetz 1023z S4	Malc	FRI
	1020z	19/01 [424/36 65332……. 62670] Konyetz 1031z S3	Malc	TUE
	1020z	22/01 [424/36 65332……etc] Repeat of Tuesday	Malc	FRI

	1020z	26/01 [421/00] Konyetz 1023z S2	Malc	TUE
	1020z	29/01 [421/00] Konyetz 1023z S2	Malc	FRI
	1020z	02/02 [420/32 98960 88232 59734 91942 13198 13396 73662 17341……43619]	RNGB	TUE
	1020z	05/02 [420/32 98960…….43619] Konyetz 1031z S2	Malc	FRI
	1020z	09/02 [424/00]	RNGB, Malc	TUE
	1020z	12/02 [420/00] Konyetz 1023z S6	Malc	FRI
	1020z	16/02 [425/00] Konyetz 1023z S2	Malc, RNGB	TUE
	1020z	19/02 [425/00] Konyetz 1023z S3	Malc, RNGB	FRI
	1020z	23/02 [429/00] Konyetz 1023z S2	Malc	TUE
	1020z	26/02 [422/00] Konyetz 1023z S2	Malc	FRI
9050kHz	0700z	07/01 [471/00]	RNGB	THU
	0700z	21/01 [475/35 59005 83967 61600 21916……27333 00513]	RNGB	THU
	0700z	04/02 [479/40 19336 63838 94895 69131 75552 85753…….23910 42864]	RNGB	THU
	0700z	18/02 [479/00]	RNGB	THU
	0700z	22/02 [472/00]	Ary, Andre	MON
11486kHz	1850z	02/01 [280/00] Konyetz 1853z S4	Malc, RNGB	SAT
	1850z	16/01 [286/00] Konyetz 1853z S2 (Dutch SDR)	Malc	SAT
	1850z	27/01 [284/00] Konyetz 1853z S2 (Dutch SDR)	Malc	WED
	1850z	06/02 [281/00] Konyetz 1853z S2 (Dutch SDR]	Malc	SAT
	1850z	17/02 [285/35 23796…….68531] Konyetz 1900z S2 (Dutch SDR)	Malc	WED
	1850z	20/02 [285/35 23796…..etc] Repeat of Wednesday	Malc	SAT
	1850z	24/02 [281/00] Konyetz 1853z S2	Malc	WED
12153kHz	0715z	04/01 [381/33 04431 80298 98717 01983 87613 83205 16212……55435] Konyetz 0726z S4	RNGB, Malc	MON
	0715z	11/01 [389/00] Konyetz 0718z S2	Malc	MON
	0715z	18/01 [383/00] Konyetz 0718z S2 (Dutch SDR)	Malc	MON
	0715z	20/01 [383/00] Konyetz 0718z S3 (Dutch SDR)	Malc	WED
	0715z	25/01 [381/00] Konyetz 0718z S4	Malc	MON
	0715z	27/01 [382/00] Konyetz 0718z S3	Malc	WED
13873kHz	0920z	23/02 [383/32 41690 01979 32533 87310 82721 44987 92852 00587……22210 77176]	Daniel	TUE
	0920z	25/02 [383/32 41690……etc] Repeat of Tuesday	Malc	THU

V02 a

Nil Reports

V06

Nil Reports

V07

Sunday

January 2021

0100z	**15893kHz**	**0120z**	**14963kHz**	**0140z**	**13893kHz**	
03/01	868 000					Weak
10/01	868 000					Weak
17/01	868 1 520 118 71615 ... 12495 000 000					Weak

868 868 868 1
520 118
71615 31648 25750 22031 47269
77310 83170 64251 40122 65811
46406 66382 06969 45598 89178
62216 74405 14689 73083 61594
64990 32815 52340 55486 49144
53235 68811 41284 49388 63901
85855 38493 32082 80387 71870
21218 12390 61552 03532 00563
83740 96314 48177 59165 88421
56557 27745 87763 09346 09854
63990 86946 07183 18535 49849
02305 57400 64985 19687 18304
97250 11945 43682 23183 66659
92869 07278 80473 51948 60188
22622 23061 44220 46236 51970
77940 30945 07965 34057 01825
10511 86546 80942 05173 53590
36027 76181 81461 55703 33118

45936 60021 18376 02096 95130
45104 56032 37683 19551 77340
17280 29227 76925 08883 22261
18053 74278 28080 97502 88280
17167 02463 31498 81542 88730
31117 75904 12495 000 000
Courtesy DanAR

24/01 868 1 879 120 03073 ... 63085 000 000 Weak

868 868 868 1
879 120
03073 45919 95749 14425 23096
84508 86695 22140 94916 76369
61362 82128 43647 13380 25777
50394 29209 34579 16163 93691
59397 43110 51758 12632 95326
01895 80527 55951 58641 60508
56157 02900 46182 68742 82911
18743 01556 56273 71348 83523
36501 67246 98481 12881 15281
75526 02648 91399 70186 00058
36387 69689 70976 88215 81820
24220 12012 74044 77370 85101
04661 14268 21146 29576 04357
03966 45696 21212 90300 81989
14459 37332 80685 66532 96113
99032 63979 27661 07238 92192
40822 92330 55674 31089 30761
64447 94745 70122 28624 50998
68457 81900 59854 08052 54530
63264 25659 35696 18566 27050
54957 56119 87998 70997 89357
08334 24798 73890 68231 66846
96290 92921 40585 28221 76211
31713 32014 13205 84057 63085
000 000 *Courtesy DanAR*

31/01 868 1 155 98 78926 ... 53961 000 000 Weak

868 868 868 1
155 98
78926 75608 45067 82946 04107
02282 03328 61790 56097 73323
51843 92135 01314 20682 70102
21602 83848 56871 05334 78703
25347 27090 06073 29984 84457
06925 27432 18356 23288 12839
80301 12604 69599 26721 54659
21211 56164 69779 98119 42714
35790 61275 74352 16330 82590
52961 44283 46042 72961 34398
04979 10044 12041 44891 99970
23334 86606 89659 14405 05016
82798 38018 70138 55851 21888
58472 29712 09788 15439 85630
75450 76512 82860 33102 97945
29390 17053 46275 90617 96190
43450 43545 53869 30642 81816
02765 96553 10917 37929 99165
24941 32964 22408 59220 81511
12603 08570 53961 000 000
Courtesy DanAR

February 2021

0100z 15874kHz 0120z 14774kHz 0140z 13874kHz

07/02 878 1 272 102 66127 ... 13767 000 000 Weak
0140z Only 45 groups were sent , after 7 minutes transmission turn off

878 878 878 1
272 102
66127 60123 91209 50464 37002
17429 27956 77385 62712 29738
96282 70857 27209 32944 88222
02714 75922 00816 39640 82711
73330 86288 45294 21121 55157
21870 84390 39955 37266 34291
11961 58422 63372 90984 69966
51104 16327 16769 80791 89309
24570 63190 29554 67922 07609
77241 85123 13969 64837 83148
73177 33440 23165 58845 02017
76239 39194 92024 88551 55456
64782 36024 86455 60370 99818
00669 47461 02443 04690 76714
49420 12700 45118 83308 13452
36702 07806 51438 71208 02213
13093 68560 04715 07915 50974
16018 73732 34621 43563 41131
44669 69438 79110 15138 97650
82814 64220 47709 50524 36722
24778 13767 000 000
Courtesy DanAR

14/02 878 1 342 104 57856 ... 21347 000 000 Weak

878 878 878 1
342 104
57856 97379 12267 80919 36235
06827 05809 27993 06913 06766
13034 90342 29058 64189 95278
76199 87634 37606 64850 76531
18442 76098 92698 54289 24769
51363 27326 02549 40021 23662
04502 42006 67683 38424 28273
07080 21821 81077 34371 06284
01284 94656 99351 31621 37932
87008 27121 01725 45273 45795
27918 73854 05149 57933 40249
26076 49926 64553 19571 91899
31894 94531 28137 76829 71992
44347 82736 92954 59578 61855
92645 01739 69072 45066 32224
46750 02461 92775 87782 25953
25213 03542 50834 34854 07889
38081 76282 99478 51611 50609
29379 10587 24355 62351 95092
78847 79771 38732 11551 67145
20714 37319 66970 21347
000 000 *Courtesy DanAR*

21/02 878 1 7692 128 43536 ... 71456 000 000 Weak

878 878 878 1
7692 128
43536 22362 57941 65379 99089
27177 64302 12232 02512 99032
45315 35051 77136 13766 64210
45922 59215 30814 13356 88605
96522 32317 70665 27125 06169
41198 47543 58729 21224 71174
62615 60509 39409 79215 76523
04625 05804 62230 51569 03633
37894 29809 27816 46618 02515
71184 03181 36143 05746 79228
29112 27226 27822 35945 96240
71308 91664 18529 61682 67823
44256 32613 06039 42962 05496
41521 45567 13266 04207 23745
33185 82613 29077 85207 04113
46034 86843 31661 54046 25410
89986 29159 58412 26960 59611
51367 12547 02760 20409 59412
68230 02367 60017 52047 44762
62642 25177 23162 77666 98181
23742 35585 88237 73996 52520
66181 51161 81910 67487 92455
12389 05648 17384 44193 36622
06402 85539 32552 11213 78135
57101 18361 24458 13027 59816
51272 72799 71456 000 000
Courtesy DanAR

28/02 878 1 3349 126 97748 ... 82424 000 000 Weak

878 878 878 1
3349 126
97748 61986 70379 68537 12037
50363 19774 20036 51305 65614
46300 26823 10156 80925 50155
57062 19093 85081 45624 26068
68472 47958 22692 50512 47887
71934 38316 02525 50543 20786
68225 76841 11411 54240 34357
36181 96493 91365 84582 18860
77286 48965 72089 73388 29775
93865 24150 04605 77393 49406
64146 99680 39863 27566 76771
77916 23056 09840 38899 99916
06352 06655 90911 02235 58023
87272 41376 28649 30050 31166
59056 24025 09609 27073 56708
65375 04602 06750 78857 35046
44218 66551 16253 55600 09353
62512 59783 29510 52046 05925
45602 27927 27681 59657 35970
19594 18886 23821 02847 30863
22765 03117 15741 82471 80876
82981 15552 53028 02857 97188
70903 30994 60230 08316 99637
10610 87131 54828 08772 63276
51880 83259 88687 31147 41501
82424 000 000 *Courtesy DanAR*

V15 North Korean Intelligence via Radio Pyongyang

657, 3250, 3320, 6400kHz **Listed in DATE ORDER**

Nil Reports

V24 South Korean intelligence

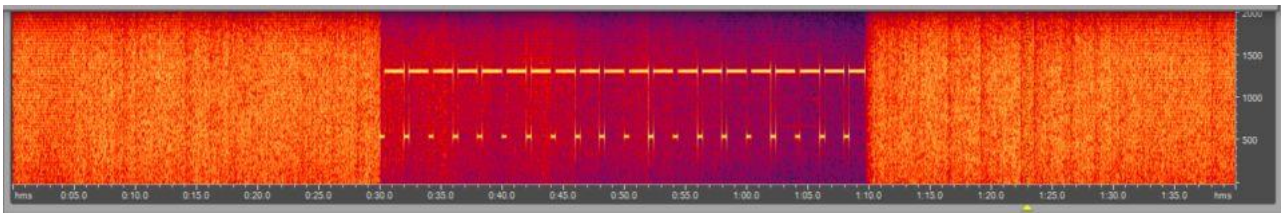
Nil Reports

V26

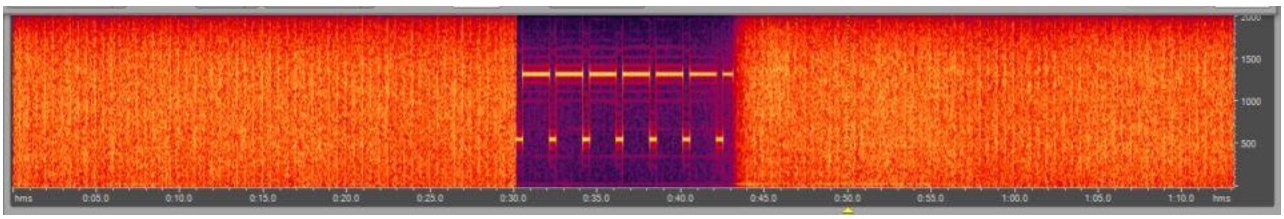
Nil Reports

Polytones

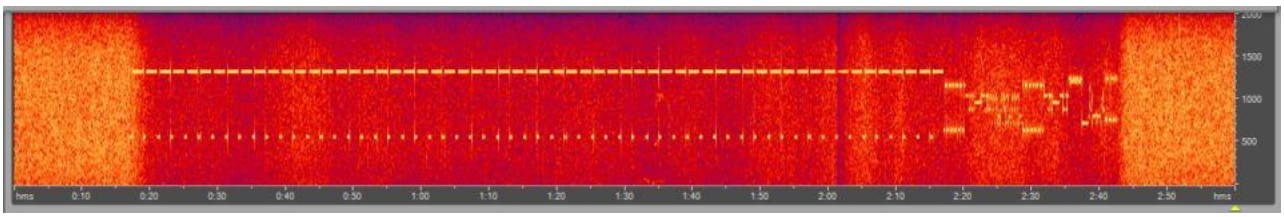
XPA1 c



40s intro only 0810z 05/01/2021



13s intro only 0830z 05/01/2021



Full transmission 0850z 05/01/2021

Tuesday/Thursday

January 2021

0810z	**12157kHz**	**0830z**	**13462kHz**	**0850z**	**14374kHz**	
05/01	265 000 08325 00001 00000 … 35262	[0810z 40s intro only, 0830z 13s intro only – as above]				Strong
07/01	265 000 08022 00001 00000 ... 32662			[0830z Strong]		Very strong
12/01	265 000 06488 00001 00000 ... 37266			[0810z Fair, QRM3]		Strong
14/01	265 000 05180 00001 00000 ... 31665			[0810z Fair, QRM3]		Fair
19/01	265 1 00602 00116 49970 ... 05173					Very strong

265 265 265 1 265 265 265 1 265 265 265 1

00602 00116 49970 84775 91142 81331 59271 10401 58517 62226
28924 80632 86366 01419 77462 78354 66780 52524 32931 41601
48010 24979 88572 31867 16920 32554 49005 18339 56711 71016
20574 11204 66432 40980 64963 04376 12656 74065 52623 77934
31704 37252 09369 47260 50847 14503 81539 34550 55089 35911
30634 88122 28177 94821 32028 23689 22763 08612 91014 01956
90694 19142 54448 05566

00157 93259 00241 07659 52631 27253 32570 37622 83060 84351
57391 80779 62850 79503 28994 85274 27548 79638 94730 83449
56341 25498 26966 83985 12949 30314 87756 48651 02411 99961
84841 74767 61742 52054 80323 90539 76788 73717 91139 47703
39810 75768 55794 61774 19802 76301 09602 59992 03998 42475
19417 36259 12669 58875 05713 *Courtesy PLdn*

21/01	265 1 00602 00116 49970 ... 05173			[0850z Strong]		Very strong

26/01	265 1 00602 00116 49970 ... 05173	[0810z Fair]	Strong
28/01	265 1 00602 00116 49970 ... 05173	[0810z Fair]	Strong

February 2021

0810z	**13397kHz**	**0830z**	**14413kHz**	**0850z**	**15972kHz**		
02/02	143 1 06450 00098 42817 ... 16164					[0810z Only, rest NRH]	Very weak [unsure of figs]
04/02	143 1 06450 00098 42817 ... 16164					[0830z Unworkable]	Weak
09/02	Signals across schedule unworkable					3m24s lg msg	
11/02	143 1 06450 00098 42817 ... 16164					[0850z QRM3]	Fair

143 143 143 1 143 143 143 1 143 143 143 1

06450 00098 42817 48789 51770 63153 07033 70095 64493 11722
02151 33890 35676 90969 07635 69966 53188 05475 28304 36733
08457 51652 80537 33112 99620 62414 27246 27046 27689 14586
59701 58631 70678 97564 10165 21858 85202 11390 85719 11365
92395 91434 51000 15179 98068 72988 91626 82669 92834 49685
12558 37365 61186 80886 63511 78853 41284 61152 96162 03440
40388 72159 65236 48495

61688 28200 76516 67492 43621 05830 89439 39016 77444 72628
19264 77459 36603 19954 29217 07842 66391 70233 30972 35664
79735 07766 90159 68640 26944 55500 89164 97454 84249 84615
73985 90529 52460 29702 34332 49467 16164 *Courtesy PLdn*

16/02	143 000 08734 00001 00000 ... 36663	[0810z Fair]	Weak
18/02	143 000 08287 00001 00000 ... 35670	[0830z Weak QRM2]	Fair
23/02	Unworkable, poor condx		
25/02	Unworkable, poor condx		

XPA1 Wed/Fri

Wednesday/Friday **[*Very difficult freqs to receive in Southern England*]**

January 2021 **[***These freqs courtesy of Daniel Ekman***]**

1310z	**14852kHz**	**1330z**	**13952kHz**	**1350z**	**11552kHz**		
01/01	895 000 03952 00001 00000 36660					Daniel	FRI
06/01	895 000 08004 00001 00000 ... 33260					[1310z Unworkable]	Weak
08/01	895 000 06661 00001 00000 ... 34664						Weak
13/01	Weak unworkable						
15/01	895 000 09600 00001 00000 ... 34261						Weak
20/01	Weak unworkable						
22/01	895 1 08658 00112 07876 ... 17610					[1310z Unworkable]	Weak
27/01	895 1 08658 00112 07876 ... 17610					[1310z QRM3/4]	Weak
29/01	Unworkable across schedule, weak sigs for all slots plus QRM5 1330z						

February 2021

1310z	**14374kHz**	**1330z**	**13374kHz**	**1350z**	**11474kHz**		
03/03	334 1 00511 00096 21847 ... 70227					[1310z Weak]	Fair

334 334 334 1 334 334 334 1 334 334 334 1

00511 00096 21847 02562 96548 58904 44207 36033 43053 74451
78374 78877 77684 82266 02768 39359 77834 58097 31302 38865
52783 26638 70724 07809 81146 68820 15825 10495 64140 21070
10396 13799 49939 02887 54054 83422 68265 86538 85647 92756
00948 13485 07092 44930 74516 13809 92893 04953 69617 37635
84372 59519 62963 32886 62935 32665 64341 68710 26783 56108
01192 92744 54670 69486

22301 81674 61163 56017 00315 07105 79743 62818 53301 56554
21947 56602 66569 53178 11149 23775 58465 77270 84827 57867
54060 64860 89105 42254 41094 94245 39124 19199 78440 73476
67266 77903 17290 56809 70227 *Courtesy PLdn*

05/03	334 1 00511 00096 21847 ... 70227		Weak

10/02	334 1 00511 00096 21847 ... 70227	[1330,1350z Unworkable]	Weak
12/02	334 1 00511 00096 21847 ... 70227	[1350z QRM2/3]	Fair
17/02	334 1 07392 00128 31158 ... 06713	[1350z Unworkable QRM5]	Weak
19/02	334 1 07392 00128 31158 ... 06713	[1350z Fair]	Weak QRM3

334 334 334 1 334 334 334 1 334 334 334 1

07392 00128 31158 17734 59070 89878 77289 85005 13357 75734
85769 81012 19960 16777 47327 78711 55859 83100 96140 95479
82123 22432 93968 66094 86241 30062 46518 08416 94255 75420
90246 47461 87164 49916 77930 27146 87124 39276 60543 09188
81740 14101 53395 50357 11231 61549 61337 34643 60313 81053
06118 90436 17854 09558 47428 32575 13705 48169 05866 41715
39749 83538 42162 07719

53232 99995 76200 27227 32348 83363 71950 54292 13783 78993
59582 34078 45895 62414 91853 66997 26234 87776 72730 25293
93063 12333 37798 13751 10576 21196 16678 45712 33307 59873
38870 28002 33356 46590 22131 45941 64200 11148 00895 78160
94070 67752 23755 49723 65034 78814 84036 13553 03899 92051
24746 39099 17061 76845 76575 98911 91692 96192 39816 40625
74469 51633 11863 93822

91707 88593 06713 *Courtesy PLdn*

24/02	334 1 07392 00128 31158 ... 06713	[1350z Unworkable]	Fair, QRM3
26/02	334 1 07392 00128 31158 ... 06713	[1350z Unworkable]	Fair

XPA2 m

Sunday/Tuesday

January 2021

1200z 10921kHz 1220z 12221kHz 1240z 13521kHz

03/01	03729 00001 00000 … 41255	[1240z Strong QRM3]	Strong
05/01	06614 00001 00000 … 36257	[1240z FairQRM3]	Very strong
10/01	05038 00001 00000 … 35260	[1200z Very strong]	Very strong QRM2
12/01	09447 00204 13726 ... 54004	[1240z Fair]	Strong

09447 00204 13726 99902 70855 22784 33899 33724 25875 19602
40530 56171 52935 72913 94482 74308 71425 36249 44640 27991
63962 99695 14467 37996 93493 88549 34978 04910 53162 76506
52318 54118 54666 43961 36322 85730 40008 57329 08269 84612
35017 61946 88889 61086 93297 58358 65099 13839 34217 78213
69138 60868 88325 23148 59707 06089 50324 98004 56570 84609
71327 31017 53003 72836 11227 18422 68824 92253 88258 24641
58723 95907 76926 61488 88378 98743 98735 15352 69981 57565
15605 42831 57342 57341 10126 88716 27144 90015 09701 67378
77453 68424 93812 76710 84981 25889 24997 76625 54035 50790
74162 70049 95218 44775 47075 72337 66778 03019 72416 50339
81725 77582 96544 56705 21013 74983 91648 48513 62543 47662
25992 27695 80170 42543 87977 38721 81300 79294 62116 85108
05835 55271 28390 56185 55881 86120 58967 68484 63162 94098
59645 66444 79506 19645 87411 45259 43383 98762 87916 26543
73838 32565 70844 30329 10706 54166 56332 31730 33234 66488
94120 25438 13607 91350 61171 14516 23421 34092 80094 15869
76674 88501 56614 02275 15954 40690 80863 04238 22199 06027
75546 21498 86217 49632 47874 45191 43543 53643 39246 04734
62691 67443 85088 54169 86051 67314 84191 02367 27482 88121
41467 21189 95736 73702 61200 17267 54004 *Courtesy PLdn*

17/01	09447 00204 13726 ... 54004	[1220z Very strong]	Fair, QRM3
19/01	00192 00220 83237 ... 57613	[1240z Fair]	Strong QRM2

00192 00220 83237 02412 09600 19382 65037 39585 21828 17445
59033 06614 43445 16429 61907 24404 79290 53893 70302 26750
31531 66877 03914 26837 31517 81320 75078 83203 19271 90467
72435 45281 23315 37359 17352 14492 42303 62659 91943 51386
50543 68005 21230 92758 76346 45873 99807 04037 33056 92603
05774 77060 08793 88506 70242 34375 74153 57043 24852 63317
58210 33517 53345 76363 01391 57256 18466 35816 49683 45846
15434 38665 22949 53644 27917 54728 99195 13754 39367 50932
99121 10521 71527 19229 33592 29424 77170 54645 91858 75551
20347 90920 84075 77045 53478 60728 87804 20451 04127 03991
87306 49996 85871 39770 17050 33695 82655 70853 45054 40306
55598 95528 32212 79758 88502 20000 59370 69108 58746 95886
17552 40695 53770 74273 21211 80340 88208 84177 05648 33266
79607 79557 87121 91669 18687 47976 48606 81979 36977 00389
03274 26443 05038 83176 58349 66040 02933 14528 53068 89463
73535 74229 59569 59448 15697 89102 35655 90253 17776 46487
33043 96571 22726 23731 48582 31886 39762 75041 70090 71758
59317 59903 45727 20739 32990 92969 57726 59678 21371 21353
39348 62147 78470 27065 08311 35802 09267 47846 61912 04778
43933 54620 98343 51676 36579 96117 30187 08758 59575 35269
30230 14045 72057 18738 69112 64888 30102 82192 06964 10942
92529 47808 30619 55323 45706 15741 11341 72890 50771 85054
53772 90958 57613 *Courtesy PLdn*

24/01	00192 00220 83237 ... 57613		Very strong
26/01	06301 00198 37678 ... 26701		Very strong
31/01	06301 00198 37678 ... 26701	[1220z Very strong]	Strong QRM3

06301 00198 37678 37126 64218 30616 59433 57665 97702 87890
19581 87429 14386 20127 87277 29816 49231 48225 25629 68375
58100 17661 38711 46176 37469 14884 94841 67464 99007 28716
18538 48413 01800 56164 35054 71115 63099 71522 58013 30904
39133 86310 60348 87541 95009 51404 95706 47497 22530 24748
96623 89155 01379 22271 45906 22094 71056 15153 08369 92351
67611 10872 07600 42557 08938 82077 28828 39350 20870 43366
19123 80631 90633 94663 40954 78023 43273 28766 70313 75455
00549 97567 13970 58086 71275 43236 98384 70929 09867 43987
63623 73543 87332 48061 12257 94811 10929 29985 22496 73919
64824 96121 63188 50725 92979 18886 57447 32546 09177 08055
43607 71232 73001 33588 09733 42687 48876 34648 80109 50276
75033 97209 43173 26721 31833 65305 35216 55218 79306 62751
67758 68006 65696 08473 05634 65921 20379 46768 16313 84028
92230 49042 09087 60650 71740 50220 55538 06454 91418 83177
03544 75194 35030 53890 10204 68165 17912 83193 32297 58943
60314 30624 80133 32800 77356 51938 21763 03494 73530 17716
46111 97461 88863 94900 39771 66492 39043 67203 13394 43527
06250 81329 49342 90350 30663 48189 90650 89066 98874 18956
51421 37965 15713 34882 04572 15029 57882 91203 87244 07122
26701

Courtesy PLdn

February 2021

1200z 11163kHz 1220z 13363kHz 1240z 14563kHz

02/02	00373 00164 82141 ... 20205		Fair
07/02	00373 00164 82141 ... 20205	[1220z Fair]	Weak
09/02	07572 00206 39301 ... 01455	[1240z Fair]	Strong
14/02	07572 00206 39301 ... 01455	[1240z Strong]	Very strong

07572 00206 39301 88976 82401 05543 29648 69236 08807 70432
72826 86718 95344 33620 10801 30969 33958 50385 85195 99047
01702 80772 16059 01734 33431 70201 62596 01411 64581 34817
38737 40875 99277 03608 79964 06800 50402 39137 00116 96200
67944 53793 02436 33713 08257 38106 34669 48634 24349 67818
76938 86432 55783 23738 64385 93227 69176 82372 76392 01822
65057 92652 27345 70412 06689 66515 49532 99188 55527 57133
13949 83200 99418 55123 88027 43841 01206 12706 44375 81463
26130 57933 43909 57057 66883 12842 64779 80656 06800 41590
90835 04971 56291 94778 00350 87837 78563 86457 22545 07738
36542 63426 09315 52655 63079 16934 50614 07187 27883 55750
73237 89367 02400 53676 74785 38011 41854 77056 11636 27259
81009 06143 25817 74064 98565 53976 73970 29499 61477 95200
81556 10206 31851 10879 63816 80579 24251 89430 13207 77971
81274 83493 98504 51559 07892 77118 27593 32188 46261 96323
50767 29089 70984 87862 87538 95542 98407 18108 96971 44817
79480 98852 29422 38963 72616 17685 35739 60912 39931 80581
36286 12205 80492 32563 53474 38819 75211 59021 34485 95683
33938 23218 73149 26723 21786 43557 82584 56841 79053 49035
14728 14988 08085 72259 10538 77053 16351 63263 21806 60880
40280 30863 55027 35711 77407 31775 51742 67743 01455

Courtesy PLdn

16/02	05586 00186 24543 ... 41210	[1200z Strong]	Fair

05586 00186 24543 17231 58972 52968 85213 44988 42654 80919
34524 21963 87116 76852 59336 07280 40898 74490 82889 94123
50374 61241 54254 39113 29600 90363 66581 22383 77427 53881
35640 61560 76153 71176 52523 81325 62277 10357 48494 98159
65950 47292 89850 02095 07935 07880 26572 14613 33125 93027
66786 14581 49938 48701 78896 06300 03929 37177 47292 56296
71536 28055 25386 23079 91580 38855 86829 51549 22291 58533
75950 10446 02986 66083 58406 18130 40799 50577 94907 81566
54108 83489 68068 33476 41320 11100 33450 24116 64216 18933
04293 64780 56929 85102 06258 67157 89882 26531 11563 40579
53885 11377 46819 63890 24714 42409 52148 21412 93440 35594
01305 62806 23141 45053 28866 21246 76916 81950 41025 41539
48695 53769 37968 57572 30595 76642 06885 42280 53378 06693
83186 31837 52288 55230 35623 49604 07119 92721 63645 66583
40986 48258 11497 80804 04669 80403 09424 01415 92838 91872
50021 39902 99173 48774 06131 54362 66668 19428 17178 66871
47852 70126 17250 47001 95747 14897 06887 26877 27814 03812
48576 31140 94234 49470 44633 14110 20124 51116 76378 17147
52825 22866 76837 53061 25482 61239 63811 89649 41210

Courtesy PLdn

21/02	05586 00186 24543 ... 41210	[1240z NRH]	Fair
23/02	00267 00140 52694 ... 31045		Weak

28/02 00267 00140 52694 ... 31045 [1220z QRM3, QSB3] Fair

00267 00140 52694 50721 73521 43570 60951 89552 92711 03102
50551 41066 32670 29175 36025 95582 54243 35093 60122 45042
49032 84369 21154 92742 57414 22286 49503 61930 58463 81626
74671 16494 96573 86439 38528 91862 12124 04114 66633 61903
35215 28119 63598 33357 49170 37868 54573 24542 68778 50931
09435 76004 33591 44957 20644 64770 96436 13943 51684 36454
68524 80737 63688 13389 59991 34328 49872 57593 74809 20405
73566 93919 66063 66707 96878 12886 76719 90683 57919 53040
47282 82681 09045 05339 39066 66041 17530 60728 72265 16166
56202 76581 45217 55170 92630 42716 49303 51878 99843 78804
36250 54125 02182 32688 63530 61208 66266 72368 87504 74681
94056 07367 05946 33553 11120 31272 99809 22080 49715 70982
07457 40674 10207 00410 82308 20847 80128 74509 99253 29988
10753 45807 49389 11057 95210 24901 79422 15686 35640 48527
44893 13607 31045 *Courtesy PLdn*

XPA2 p

Monday/Wednesday

January 2021

0800z 11493kHz 0820z 13393kHz 0840z 13993kHz

04/01 02760 00001 00000 ... 34660 [1200z QRM3] Strong

06/01 02004 00001 00000 ... 33252 [0800z Strong] Very strong

11/01 07425 00001 00000 ... 35661 Very strong

13/01 07424 00180 37389 ... 35300 Very strong

18/01 00347 00126 66137 ... 01375 [0840z QRM3] Strong

00347 00126 66137 42378 28861 22111 43825 51222 87894 96170
32302 28551 39964 81640 11707 02084 08410 61284 19506 65807
26348 54835 71396 53283 44401 23797 77417 98137 59679 13978
84424 38942 65068 47952 34843 26292 48788 73862 86356 60275
91499 43873 88731 69773 66060 98841 15362 00649 65278 11555
18415 58174 69004 46412 77120 97021 44355 56486 12350 33000
34271 36732 47391 72046 12497 85907 71397 77856 96319 60940
45622 07780 11586 69655 67483 43409 54930 71493 20076 05384
98930 98758 88897 27955 60546 84014 42945 62678 44777 92698
68613 18483 67759 43463 64340 29317 85458 31167 71576 89225
32881 82527 52042 71687 07294 74440 75236 99331 69762 37603
13053 51119 44622 13088 41522 44591 92861 77285 69697 37168
77930 06069 72053 78302 30708 87981 12236 56717 01375
Courtesy PLdn

20/01 00347 00126 66137 ... 01375 [0840z QRM2] Very strong

25/01 00347 00126 66137 ... 01375 Very strong

27/01 00347 00126 66137 ... 01375 [0800z QRM2] Strong

February 2021

0800z 13387kHz 0820z 13887kHz 0840z 14787kHz

01/02 00498 00168 17801 ... 26617 [0840z Fair] Strong

00498 00168 17801 43718 21637 74187 74001 17562 83139 18581
08111 38185 56182 20764 65993 74302 46074 98287 37561 44470
11705 32270 95023 52495 13506 17756 45305 63242 41323 86986
27292 53273 49312 69504 29813 65088 66533 06970 53318 60175
10753 18699 50035 69067 70217 08004 90788 40015 20881 35197
62198 97973 51860 65170 86731 84674 92438 21142 74664 76236
03573 74636 73371 94961 83567 90774 22671 10048 78890 49998
10706 61524 64647 99991 61892 27578 05825 10531 86318 17677
16073 26748 16461 08449 58984 98013 33340 45697 16827 71240
24331 07726 38530 23915 89226 69685 86356 43886 07822 90984
09390 93428 81419 21519 68156 60381 88563 98565 96315 05866
27316 90832 08832 24219 32304 18895 88014 59609 61627 29615
76854 91618 76900 45706 40062 98491 82383 66622 43873 92853
25857 47653 18930 16965 00286 04537 74812 80712 28701 59094
99099 81821 85140 42627 44539 71229 65152 78588 87444 08260
51681 89066 94627 62926 22869 99715 40404 20924 37729 78500
66922 68798 32951 21974 24858 24554 87858 19776 83339 22151
26617 *Courtesy PLdn*

03/02 00498 00168 17801 ... 26617 [0800z QRM2] Strong

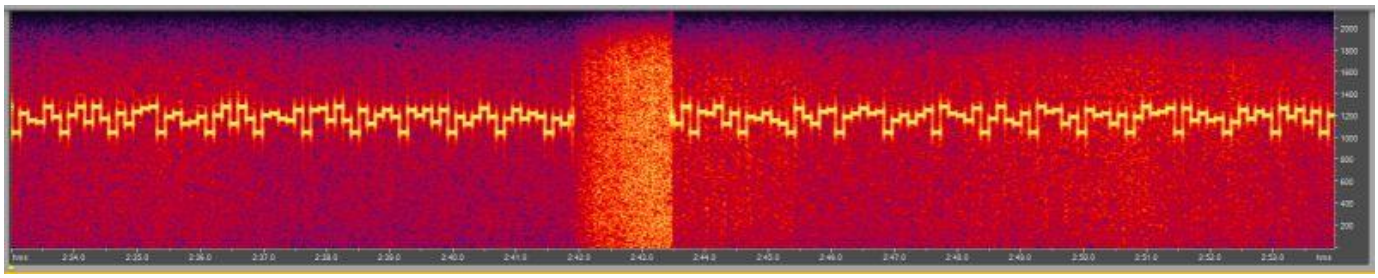
08/02 00498 00168 17801 ... 26617 [0800z QRM2] Very strong

10/02 00498 00168 17801 ... 26617 Strong QRM3

15/02	00588 00182 32185 ... 67272	[0840z QRM3]	Fair

00588 00182 32185 72239 60998 21879 50021 14902 68756 12710
40779 20641 26961 35484 89187 18347 54669 57496 34748 72706
65745 05332 13356 46899 13709 34016 64953 26355 97140 13924
00422 00215 42063 53577 03660 43689 51093 49092 55689 35503
49992 45217 78191 77473 74707 33383 27253 22364 28647 18339
65995 32511 83367 35856 14047 95418 29115 96773 74554 39568
81512 07264 83706 40401 46573 22074 82741 71878 78915 24371
52665 20161 61926 70354 43811 20939 14993 91646 68496 45057
88138 26582 80409 85215 42534 56591 62942 70351 95854 41406
13963 59837 96541 58146 76587 71056 46555 75618 12938 15321
37586 31228 28681 96809 37675 67535 50069 95761 71575 49158
10934 28405 60337 57561 47625 48005 39881 67151 20733 73660
62578 13355 46268 12418 39550 34491 28594 24230 64925 27429
12181 82793 38056 53499 67578 85032 71936 56690 66847 53570
09189 98024 17410 40790 59292 66290 17224 68829 44683 78544
84036 67746 53238 39660 57915 06835 89756 55606 48624 45540
59070 07947 74104 14194 11067 26557 54082 94087 66332 73122
89544 03050 59196 86130 69067 49329 30396 59259 91945 89197
44790 86441 97192 28705 67272 *Courtesy PLdn*

17/02	00588 00182 32185 ... 67272	[0840z Unworkable]	Fair



1.55s loss of carrier, 2m42s into transmission 13887kHz 0820z 24/02

24/02	00588 00182 32185 ... 67272	[0820z 1.55s Loss of Carrier 2m42s into tx. 0840z QRM3]	Strong

XPA 2 Wed/Fri

Wednesday/Friday

January 2021

1200z	**10726kHz**	**1220z**	**11426kHz**	**1240z**	**12226kHz**		
01/01		09913 00001 00000 ... 37262					Very strong
06/01		07093 00001 00000 ... 32670					Very strong
08/01		02498 00001 00000 ... 37263					Very strong
13/01		02517 00001 00000 ... 37253					Very strong
15/01		07424 00180 37389 ... 35300					Very strong
20/01		09823 00220 27442 ... 60237				[1240z QRM3]	Very strong
22/01		09823 00220 27442 ... 60237				[1240z QRM3]	Very strong
27/01		07696 00152 25454 ... 14360				[1200z Fair]	Strong
29/01		07696 00152 25454 ... 14360					Very strong

07696 00152 25454 47810 81524 95730 88433 61510 96143 82248
95378 77317 05041 41282 13171 40665 89008 38095 92940 20259
25276 90825 59599 51666 87566 19495 16803 31068 39637 72963
35497 29785 73419 81787 81872 33812 79453 65713 54040 79120
97754 46120 05193 55882 72594 81075 33434 89870 16009 85826
79064 54125 66191 72588 03071 53845 19261 39755 90561 03407
08270 94076 12742 68048 20466 92988 54885 15454 97275 25661
12785 43136 80976 17905 60802 41139 19892 95216 31063 69700
30524 99919 07365 69037 54059 76463 63667 75504 42020 37763
05172 58531 17473 56649 25536 80781 70805 32509 72760 79666
72570 04013 38242 90830 13802 89207 10263 66787 58404 49397
89788 82889 29372 53460 24566 19677 37855 79373 66418 46139
44082 59890 39589 06779 93400 32350 68612 49860 01147 62788
58147 23618 07687 14257 03597 68529 79298 93113 56904 89933
18377 59000 87001 87864 79952 13849 61479 61975 58678 20871
69196 29589 37543 60591 14360 *Courtesy PLdn*

February 2021

1200z	**11575kHz**	**1220z**	**13375kHz**	**1240z**	**13975kHz**		
03/02	07091 00188 57678 ... 53315						Fair [High noise level]
05/02	07091 00188 57678 ... 53315						Strong
10/02	08510 00064 28995 ... 62031					[1200z Very strong]	Fair
12/02	08510 00064 28995 ... 62031					[1220z Strong, QRM2]	Very strong

08510 00064 28995 30588 34372 19048 93787 87411 22826 13916
27947 12597 34639 60611 87101 53626 26253 79268 98207 52041
07086 29458 78603 84988 74245 63092 96075 93578 08225 56690
43783 56465 95659 82949 92063 41847 01295 58283 93769 99668
76020 41805 23613 08169 18683 97067 50005 74997 03658 00575
37848 80225 88383 13607 17407 21723 10211 93064 44404 92969
40301 93255 74036 46073 64115 54721 62031 *Courtesy PLdn*

17/02 01539 00182 40416 ... 30705 Fair

01539 00182 40416 10463 22058 34100 28878 27235 61377 41850
68508 85588 34456 61597 33687 55808 38808 83406 63307 66657
36053 64684 85158 68702 70236 84605 38236 22235 00008 23877
26800 00880 03308 06742 07883 33083 60068 63806 82838 66824
70030 64441 66662 88725 55408 48823 22782 20405 05032 50200
80530 06382 73644 80688 36512 06845 01585 23136 83316 60353
08363 30536 82039 80370 11021 83323 57362 30058 88765 26373
58008 07288 33288 65638 47082 87113 28805 65084 70486 48732
28833 00322 56603 44450 42772 33560 03803 47714 94460 40634
00303 49846 97857 58889 36300 52563 20387 52887 64690 24400
58725 82458 89903 03637 87565 47091 24580 59481 78683 76561
55203 64062 27421 60878 03518 48354 53814 73622 30505 75847
29522 30364 25794 81627 70658 30003 79808 69826 32888 28343
68551 83563 80962 57482 90843 01065 85846 55880 08007 75212
73778 85848 84048 73986 26096 23368 63888 64059 04763 46006
20018 02999 74547 77535 63978 78485 52358 65898 41832 45236
38521 54933 28447 29902 60830 35536 25495 02540 60512 36537
50010 30909 58236 89023 08697 00309 06523 03554 78388 25876
02482 26308 93130 80693 30705 *Courtesy PLdn*

19/02	01539 00182 40416 ... 30705					[1220z Weak, QRM3]	Fair
26/02	05879 00090 84378 ... 04036					1200z Unworkable, 1220z Fair, 1240z Very strong	

Other uncatalogued XPA2 schedules

1100z	**13384kHz**	**1120z**	**12184kHz**	**1140z**	**10984kHz**		
06/01	08709 00001 00000 41260					Ary	WED
14977kHz0910z	06/01[04217 00001 00000 35655]					Gert	MON

1100z	**12147kHz**	**1120z**	**10347kHz**	**1140z**	**9247kHz**		
02/02	05490 00161 45678 ... 22750					Ary	TUE

05490 00161 45678 46493 41403 44612 61702 85567 30270 92068
79690 67623 60524 94939 50308 91321 22861 82189 93935 89177
19769 82179 70526 54436 23196 13921 03672 07388 53829 23267
38446 37418 22771 73267 36401 24229 16700 76182 78999 55588
68347 88348 73507 45158 90606 18523 29513 26626 77727 39038
61531 32125 16454 19663 79850 73204 35966 95882 61379 70999
59611 87048 47076 12865 27664 73532 18841 28550 03570 32981
16153 16992 86251 03975 13888 87323 55430 00657 43687 24564
60779 40967 21007 62342 63420 68676 46363 04316 28622 20516
62927 48805 21673 94022 82866 18852 11083 14094 99495 52893
64711 10068 30929 52738 23683 35103 23777 70195 33313 24576
69569 68606 88877 55183 94750 15592 87675 59182 39883 68261
26415 90441 68797 24752 44542 66115 02008 90032 49885 52059
33989 89049 85467 74213 58761 48214 34196 18119 49440 84636
62370 84473 83483 46663 03890 95835 19552 72990 88235 00769
47255 87640 97640 03362 96337 22911 92127 95478 24244 57027
50999 35029 02921 22750 *Courtesy Ary*

1100z	**13967kHz**	**1120z**	**13367kHz**	**1140z**	**11567kHz**		
03/02	00488 00086 88340 ... 44434					Ary	TUE

00488 00086 88340 28719 80386 79822 38234 33106 43159 51285
57643 59718 38105 70918 63246 20719 29382 19088 55851 34069
81884 32504 40764 52326 78662 06088 66157 52564 37922 14796
34569 90330 91708 53644 23044 09727 29311 00443 57588 47092
85332 11157 46370 63573 46640 75735 79927 17272 46829 99250
70408 63430 00013 88821 83754 46808 08437 36578 82824 94128
30811 49581 30313 36762 75423 30592 22044 05506 91907 49156
75741 54456 11283 54469 55478 29323 69422 95452 46960 38975
94600 44651 67235 88780 53701 92055 05464 01803 44434
Courtesy Ary

January 2021 [HF-D]

Fri 01.01.2021 1100Z 10231 msg
Fri 01.01.2021 1120Z 9331 msg
Fri 01.01.2021 1140Z 8131 msg

Sat 02.01.2021 0910Z 14794 msg
Sat 02.01.2021 0930Z 13994 msg
Sat 02.01.2021 0950Z 12194 msg

Mon 04.01.2021 0910Z 14977 msg
Mon 04.01.2021 0930Z 13971 msg
Mon 04.01.2021 0950Z 13371 msg

Tue 05.01.2021 1600Z 10465 msg
Tue 05.01.2021 1620Z 9165 msg
Tue 05.01.2021 1640Z 8065 msg

Wed 06.01.2021 1100Z 13384 msg
Wed 06.01.2021 1120Z 12184 msg
Wed 06.01.2021 1140Z 10984 msg

Sat 09.01.2021 1600Z 9317 msg
Sat 09.01.2021 1620Z 8117 msg
Sat 09.01.2021 1640Z 7517 msg

February 2021

Mon 01.02.2021 0910Z 16102 msg
Mon 01.02.2021 0930Z 14951 msg
Mon 01.02.2021 0950Z 13991 msg

Mon 01.02.2021 1600Z 11461 msg
Mon 01.02.2021 1620Z 10261 msg
Mon 01.02.2021 1640Z 9161 msg

Tue 02.02.2021 1100Z 12147 msg
Tue 02.02.2021 1120Z 10347 msg
Tue 02.02.2021 1140Z 9247 msg

Thu 04.02.2021 0910Z 16146 msg via KiwiSDR RUS
Thu 04.02.2021 0930Z 15846 msg via KiwiSDR RUS
Thu 04.02.2021 0950Z 14446 msg via KiwiSDR RUS

XPB

XPB1

Sun/Tue

January 2021

7771kHz 2000z	03/01	V. strong	4m28s		PLdn	SUN
7471kHz 2010z	03/01	V. strong	4m28s	BCQRM3	PLdn	SUN
6771kHz 2020z	03/01	V. strong	4m28s		PLdn	SUN
5771kHz 2030z	03/01	V. strong	4m28s		PLdn	SUN
5171kHz 2040z	03/01	V. strong	4m28s		PLdn	SUN
4771kHz 2050z	03/01	V. strong	4m28s		PLdn	SUN
7771kHz 2000z	05/01	V. strong	4m28s		PLdn	TUE
7471kHz 2010z	05/01	V. strong	4m28s		PLdn	TUE
6771kHz 2020z	05/01	V. strong	4m28s		PLdn	TUE
5771kHz 2030z	05/01	V. strong	4m28s		PLdn	TUE
5171kHz 2040z	05/01	V. strong	4m28s		PLdn	TUE
4771kHz 2050z	05/01	V. strong	4m28s		PLdn	TUE
7771kHz 2000z	10/01	NRH			PLdn	SUN
7471kHz 2010z	10/01	BCQRM5			PLdn	SUN
6771kHz 2020z	10/01	V. strong	4m28s		PLdn	SUN
5771kHz 2030z	10/01	V. strong	4m28s		PLdn	SUN
5171kHz 2040z	10/01	V. strong	4m28s		PLdn	SUN
4771kHz 2050z	10/01	V. strong	4m28s		PLdn	SUN
7771kHz 2000z	12/01	NRH QRM5			PLdn	TUE
7471kHz 2010z	12/01	NRH QRM5			PLdn	TUE
6771kHz 2020z	12/01	V. weak Unworkable			PLdn	TUE
5771kHz 2030z	12/01	V. weak Unworkable			PLdn	TUE
5171kHz 2040z	12/01	Weak	2m15s		PLdn	TUE
4771kHz 2050z	12/01	Weak	2m15s		PLdn	TUE

7771kHz 2000z	17/01	Strong	2m15s		PLdn	SUN
7471kHz 2010z	17/01	V. strong	2m15s	BCQRM3	PLdn	SUN
6771kHz 2020z	17/01	V. strong	2m15s		PLdn	SUN
5771kHz 2030z	17/01	V. strong	2m15s		PLdn	SUN
5171kHz 2040z	17/01	V. strong	2m15s		PLdn	SUN
4771kHz 2050z	17/01	V. strong	2m15s		PLdn	SUN
7771kHz 2000z	19/01	Fair	2m15s		PLdn	TUE
7471kHz 2010z	19/01	Fair	2m15s	BCQRM3	PLdn	TUE
6771kHz 2020z	19/01	Fair	2m15s		PLdn	TUE
5771kHz 2030z	19/01	Fair	2m15s		PLdn	TUE
5171kHz 2040z	19/01	Fair	2m15s		PLdn	TUE
4771kHz 2050z	19/01	Fair	2m15s		PLdn	TUE
7771kHz 2000z	24/01	Weak	2m15s		PLdn	SUN
7471kHz 2010z	24/01	Fair	2m15s	BCQRM3	PLdn	SUN
6771kHz 2020z	24/01	V. strong	2m15s		PLdn	SUN
5771kHz 2030z	24/01	V. strong	2m15s		PLdn	SUN
5171kHz 2040z	24/01	V. strong	2m15s		PLdn	SUN
4771kHz 2050z	24/01	V. strong	2m15s		PLdn	SUN
7771kHz 2000z	26/01	NRH			PLdn	TUE
7471kHz 2010z	26/01	Fair	4m28s	BCQRM3	PLdn	TUE
6771kHz 2020z	26/01	Strong	4m28s		PLdn	TUE
5771kHz 2030z	26/01	Strong	4m28s		PLdn	TUE
5171kHz 2040z	26/01	Strong	4m28s		PLdn	TUE
4771kHz 2050z	26/01	Strong	4m28s		PLdn	TUE
7771kHz 2000z	31/01	V.strong	4m28s		PLdn	SUN
7471kHz 2010z	31/01	V.strong	4m28s	BCQRM3	PLdn	SUN
6771kHz 2020z	31/01	V.strong	4m28s		PLdn	SUN
5771kHz 2030z	31/01	Strong	4m28s	BCQRM3	PLdn	SUN
5171kHz 2040z	31/01	Strong	4m28s		PLdn	SUN
4771kHz 2050z	31/01	Fair	4m28s	BCQRM3	PLdn	SUN

February 2021

8064kHz 2000z	02/01	Unworkable			PLdn	TUE
7964kHz 2010z	02/01	Weak	2m15s	QRM3	PLdn	TUE
6964kHz 2020z	02/01	Strong	2m15s		PLdn	TUE
5864kHz 2030z	02/01	Strong	2m15s		PLdn	TUE
5364kHz 2040z	02/01	Strong	2m15s		PLdn	TUE
4464kHz 2050z	02/01	Fair	2m15s	QRM2	PLdn	TUE
8064kHz 2000z	07/01	Weak	2m15s	QRM3	PLdn	SUN
7964kHz 2010z	07/01	Weak	2m15s		PLdn	SUN
6964kHz 2020z	07/01	Weak	2m15s		PLdn	SUN
5864kHz 2030z	07/01	Fair	2m15s		PLdn	SUN
5364kHz 2040z	07/01	Fair	2m15s		PLdn	SUN
4464kHz 2050z	07/01	Fair	2m15s		PLdn	SUN
8064kHz 2000z	09/01	Strong	4m28s		PLdn	TUE
7964kHz 2010z	09/01	Strong	4m28s		PLdn	TUE
6964kHz 2020z	09/01	Weak	4m28s	QRM3	PLdn	TUE
5864kHz 2030z	09/01	Strong	4m28s		PLdn	TUE
5364kHz 2040z	09/01	Fair	4m28s	QRM3	PLdn	TUE
4464kHz 2050z	09/01	Strong	4m28s		PLdn	TUE
8064kHz 2000z	14/02	Fair	4m28s		PLdn	SUN
7964kHz 2010z	14/02	Fair	4m28s		PLdn	SUN
6964kHz 2020z	14/02	Strong	4m28s		PLdn	SUN
5864kHz 2030z	14/02	Strong	4m28s		PLdn	SUN
5364kHz 2040z	14/02	V.Strong	4m28s		PLdn	SUN
4464kHz 2050z	14/02	Strong	4m28s	QRM4	PLdn	SUN
8064kHz 2000z	16/02	Fair	2m15s	QRM2	PLdn	TUE
7964kHz 2010z	16/02	Fair	2m15s	QRM2	PLdn	TUE
6964kHz 2020z	16/02	Strong	2m15s		PLdn	TUE
5864kHz 2030z	16/02	V.Strong	2m15s		PLdn	TUE
5364kHz 2040z	16/02	V.Strong	2m15s		PLdn	TUE
4464kHz 2050z	16/02	V.Strong	2m15s	QRM3	PLdn	TUE
8064kHz 2000z	21/02	NRH			PLdn	SUN
7964kHz 2010z	21/02	NRH			PLdn	SUN
6964kHz 2020z	21/02	NRH			PLdn	SUN
5864kHz 2030z	21/02	NRH			PLdn	SUN
5364kHz 2040z	21/02	Unworkable			PLdn	SUN
4464kHz 2050z	21/02	Unworkable			PLdn	SUN
8064kHz 2000z	23/02	Unworkable			PLdn	TUE
7964kHz 2010z	23/02	Unworkable			PLdn	TUE
6964kHz 2020z	23/02	Fair	2m15s		PLdn	TUE

5864kHz 2030z	23/02	Strong	2m15s		PLdn	TUE
5364kHz 2040z	23/02	Fair	2m15s	QRM3	PLdn	TUE
4464kHz 2050z	23/02	Strong	2m15s	QRM2	PLdn	TUE
8064kHz 2000z	28/02	Weak	2m15s		PLdn	SUN
7964kHz 2010z	28/02	Strong	2m15s		PLdn	SUN
6964kHz 2020z	28/02	Strong	2m15s		PLdn	SUN
5864kHz 2030z	28/02	Fair	2m15s		PLdn	SUN
5364kHz 2040z	28/02	Strong	2m15s		PLdn	SUN
4464kHz 2050z	28/02	Strong	2m15s	QRM2	PLdn	SUN

Mon/Sat

January 2021

14769kHz 1100z	02/01	Weak	4m28s	QRM3	PLdn	SAT
14369kHz 1110z	02/01	Weak	4m28s	QRM3	PLdn	SAT
13969kHz 1120z	02/01	Weak	4m28s	QRM3	PLdn	SAT
13369kHz 1130z	02/01	Fair	4m28s	QRM3	PLdn	SAT
12169kHz 1140z	02/01	Under high noise level			PLdn	SAT
11169kHz 1150z	02/01	NRH			PLdn	SAT
14769kHz 1100z	04/01	Weak	4m28s	QRM3	PLdn	MON
14369kHz 1110z	04/01	Weak	4m28s	QRM3	PLdn	MON
13969kHz 1120z	04/01	Unworkable		QRM5	PLdn	MON
13369kHz 1130z	04/01	Fair	4m28s	QRM3	PLdn	MON
12169kHz 1140z	04/01	Fair	4m28s		PLdn	MON
11169kHz 1150z	04/01	Fair	4m28s		PLdn	MON
14769kHz 1100z	09/01	Strong	4m28s	QRM3	PLdn	SAT
14369kHz 1110z	09/01	Weak	4m28s	QRM4	PLdn	SAT
13969kHz 1120z	09/01	Strong	4m28s	QRM3	PLdn	SAT
13369kHz 1130z	09/01	Fair	4m28s	QRM3/4	PLdn	SAT
12169kHz 1140z	09/01	V.Strong	4m28s		PLdn	SAT
11169kHz 1150z	09/01	Strong	4m28s	QRM3	PLdn	SAT
14769kHz 1100z	12/01	Fair	4m28s		PLdn	MON
14369kHz 1110z	12/01	Fair	4m28s		PLdn	MON
13969kHz 1120z	12/01	Fair	4m28s		PLdn	MON
13369kHz 1130z	12/01	Strong	4m28s		PLdn	MON
12169kHz 1140z	12/01	Strong	4m28s		PLdn	MON
11169kHz 1150z	12/01	Strong	4m28s	QRM2	PLdn	MON
14769kHz 1100z	16/01	Strong	4m28s		PLdn	SAT
14369kHz 1110z	16/01	Fair	4m28s		PLdn	SAT
13969kHz 1120z	16/01	Strong	4m28s		PLdn	SAT
13369kHz 1130z	16/01	Fair	4m28s		PLdn	SAT
12169kHz 1140z	16/01	Weak, under high noise level [S6/7]			PLdn	SAT
11169kHz 1150z	16/01	Strong	4m28s		PLdn	SAT
14769kHz 1100z	18/01	Weak	1m40s	QRM3	PLdn	MON
14369kHz 1110z	18/01	Weak	1m40s	QRM3	PLdn	MON
13969kHz 1120z	18/01	Weak	1m40s	QRM3	PLdn	MON
13369kHz 1130z	18/01	Weak	1m40s	QRM3	PLdn	MON
12169kHz 1140z	18/01	Weak	1m40s	QRM3	PLdn	MON
11169kHz 1150z	18/01	Weak	1m40s	QRM3	PLdn	MON
14769kHz 1100z	23/01	Fair	1m40s		PLdn	SAT
14369kHz 1110z	23/01	Weak	1m40s		PLdn	SAT
13969kHz 1120z	23/01	Fair	1m40s		PLdn	SAT
13369kHz 1130z	23/01	Fair	1m40s		PLdn	SAT
12169kHz 1140z	23/01	Fair	1m40s		PLdn	SAT
11169kHz 1150z	23/01	Fair	1m40s	BCQRM3	PLdn	SAT
14769kHz 1100z	25/01	Fair	4m28s		PLdn	MON
14369kHz 1110z	25/01	Strong	4m28s	BCQRM3	PLdn	MON
13969kHz 1120z	25/01	Strong	4m28s		PLdn	MON
13369kHz 1130z	25/01	Strong	4m28s		PLdn	MON
12169kHz 1140z	25/01	Strong	4m28s	QRM2	PLdn	MON
11169kHz 1150z	25/01	Strong	4m28s	QRM2	PLdn	MON
14769kHz 1100z	30/01	Fair	4m28s	QRM3	PLdn	SAT
14369kHz 1110z	30/01	Fair	4m28s	QRM3	PLdn	SAT
13969kHz 1120z	30/01	Fair	4m28s	QRM3	PLdn	SAT
13369kHz 1130z	30/01	Fair	4m28s	QRM3	PLdn	SAT
12169kHz 1140z	30/01	Fair	4m28s		PLdn	SAT
11169kHz 1150z	30/01	Fair	4m28s	QRM3	PLdn	SAT

February 2021

15814kHz 1100z	01/02	Weak	1m40s	QRM3	PLdn	MON
14814kHz 1110z	01/02	Weak	1m40s	QRM3	PLdn	MON
14414kHz 1120z	01/02	Weak	1m40s	QRM3	PLdn	MON
13914kHz 1130z	01/02	Weak	1m40s	QRM3/4 Pulse, probably Broadband distribution	PLdn	MON
13414kHz 1140z	01/02	Strong	1m40s	QRM3	PLdn	MON
12214kHz 1150z	01/02	Weak	1m40s	QRM3	PLdn	MON
15814kHz 1100z	06/02	Weak	1m40s		PLdn	SAT
14814kHz 1110z	06/02	Weak	1m40s		PLdn	SAT
14414kHz 1120z	06/02	Weak	1m40s		PLdn	SAT
13914kHz 1130z	06/02	Fair	1m40s		PLdn	SAT
13414kHz 1140z	06/02	Fair	1m40s	QRM3	PLdn	SAT
12214kHz 1150z	06/02	Fair	1m40s		PLdn	SAT
15814kHz 1100z	08/02	Weak	4m28s	QRM3	PLdn	MON
14814kHz 1110z	08/02	Weak	4m28s	QRM3	PLdn	MON
14414kHz 1120z	08/02	Weak	4m28s	QRM3	PLdn	MON
13914kHz 1130z	08/02	Weak	4m28s	QRM2	PLdn	MON
13414kHz 1140z	08/02	Weak	4m28s	QRM3/4	PLdn	MON
12214kHz 1150z	08/02	Weak	4m28s	QRM3/4	PLdn	MON
15814kHz 1100z	13/02	Weak	4m28s		PLdn	SAT
14814kHz 1110z	13/02	Fair	4m28s	QSB4	PLdn	SAT
14414kHz 1120z	13/02	Fair	4m28s	QSB2	PLdn	SAT
13914kHz 1130z	13/02	Fair	4m28s		PLdn	SAT
13414kHz 1140z	13/02	Fair	4m28s		PLdn	SAT
12214kHz 1150z	13/02	Fair	4m28s		PLdn	SAT
15814kHz 1100z	15/02	Weak	1m40s		PLdn	MON
14814kHz 1110z	15/02	Weak	1m40s		PLdn	MON
14414kHz 1120z	15/02	Weak	1m40s		PLdn	MON
13914kHz 1130z	15/02	Weak	1m40s	QRM3	PLdn	MON
13414kHz 1140z	15/02	Weak	1m40s	QRM3	PLdn	MON
12214kHz 1150z	15/02	Weak	1m40s	QRM3	PLdn	MON
15814kHz 1100z	20/02	Weak	1m40s		PLdn	SAT
14814kHz 1110z	20/02	Weak	1m40s		PLdn	SAT
14414kHz 1120z	20/02	Weak	1m40s		PLdn	SAT
13914kHz 1130z	20/02	Weak	1m40s		PLdn	SAT
13414kHz 1140z	20/02	Weak	1m40s		PLdn	SAT
12214kHz 1150z	20/02	Weak	1m40s		PLdn	SAT
15814kHz 1100z	22/02	Unworkable			PLdn	MON
14814kHz 1110z	22/02	Weak	4m28s	QRM3	PLdn	MON
14414kHz 1120z	22/02	Fair	4m28s		PLdn	MON
13914kHz 1130z	22/02	Fair	4m28s		PLdn	MON
13414kHz 1140z	22/02	Weak	4m28s	QRM3	PLdn	MON
12214kHz 1150z	22/02	Unworkable		QRM5	PLdn	MON
15814kHz 1100z	27/02	Fair	4m28s		PLdn	SAT
14814kHz 1110z	27/02	Fair	4m28s		PLdn	SAT
14414kHz 1120z	27/02	Fair	4m28s	QRM3	PLdn	SAT
13914kHz 1130z	27/02	Unworkable			PLdn	SAT
13414kHz 1140z	27/02	Fair	4m28s	QRM3	PLdn	SAT
12214kHz 1150z	27/02	Unworkable			PLdn	SAT

Tones and Hybrids

X06 Mazielka (1c) logs section

X06 Mazielka (1c) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20210113	Wed	1145-1158	10850	6--1--	Schorschi	X06b with S9
20210115	Fri	1001-1002	9158	361245	Ary/NL	TX to Copenhagen, G190
20210119	Tue	0920-0922	8830	154632	Dave/AU	G427 (new group) (SDR)
20210119	Tue	0910	12157	165423	Dave	TX to Brussels, G151 (SDR)
20210119	Tue	0932	13401	154263	Dave	TX to Rome, G148 (SDR)
20210120	Wed	1232-1259	18245	231654	Dave	TX to Abuja, G423(3) (SDR)
20210120	Wed	1210	10249	666666	Schorschi	X06b single tone variant with S9(1)
20210121	Thu	0742-0852	10550	1--6--	Dave	X06b
20210121	Thu	0931	16103	645321	Dave	TX to Ho Chi Minh City, G417 (SDR)
20210122	Wed	1015-1017	8100	654321	Schorschi	X06c with S9(2)
20210125	Mon	0903	17475	156234	Dave	Alert2 (TX to Kampala,G203)1 (SDR)
20210125	Mon	0917-0930	20690	156234	Dave	2.2(4)
20210125	Mon	0944-0957	16117	463125	Dave	TX to Rabat, G222 (SDR)
20210125	Mon	0956-1000	10372	431625	Dave	TX to Warsaw, G221(5) (SDR)
20210126	Tue	1003-1012	13510	612534	Dave	TX to Ashgabat, G234 (SDR)
20210126	Tue	0855-1020	15430	1-----	Dave	X06b single tone variant (SDR)
20210126	Tue	1036-1045	17470	216354	Dave	TX to Chennai, G228 (SDR)
20210126	Tue	1154-1310	11250	1--6--	Dave	X06b (SDR)
20210127	Wed	1158	11250	1--6--	Dave	X06b (SDR)
20210127	Wed	1157	14852	1--6--	Dave	X06b (SDR)
20210128	Thu	0936-0947	11411	164532	Dave	Alert2 (TX to Dublin,G252)1 (SDR)
20210128	Thu	0949-0955	10193	164532	Dave	2.2 (SDR)
20210201	Mon	0830-0837	11562	432516	Dave	TX to bern, G6 (SDR)
20210201	Mon	0913-0919	14392	532614	Dave	TX to Paris, G4 (SDR)
20210202	Tue	0853-0858	12157	165423	Dave	TX to Brussels, G12(6) (SDR)
20210202	Tue	0918-0922	18206	246531	Dave	TX to Accra, G16 (SDR)
20210202	Tue	0935-0938	13401	154263	Dave	TX to Rome, G7 (SDR)
20210202	Tue	1153-1158	16188	325614	Dave	TX to Nairobi, G392 (SDR)
20210204	Thu	0930-0933	16103	645321	Dave	TX to Ho Chi Minh City, G410 (SDR)
20210205	Fri	1000-1006	12215	361245	Dave	TX to Copenhagen, G53 (SDR)
20210205	Fri	1019-1021	13547	625413	Dave	TX to Tel Aviv, G56 (SDR)
20210208	Mon	1003-1010	11424	421635	Dave	TX to Oslo, G74 (SDR)
20210208	Mon	0932-0938	12223	164253	Dave	TX to Addis Ababa, R (SDR)
20210208	Mon	0950-0953	10372	431625	Dave	TX to Warsaw, G75 (SDR)
20210209	Tue	1012-1016	12100	612534	Dave	TX to Ashgabat, G89 (SDR)
20210209	Tue	1017-1024	17470	216354	Dave	TX to Chennai, G388 (SDR)
20210210	Wed	0732-0735	18591	4355621	Dave	TX to Maputo, G98 (SDR)
20210210	Wed	0758-0805	18177	164253	Dave	TX to Addis Ababa, G395 (SDR)
20210210	Wed	0831-0833	13369	412356	Schorschi	TX to Budapest, S9, G97
20210210	Wed	1008-1010	10214	263145	Dave	TX to Prague, R (SDR)
20210227	Sat	1012-1016	13985	134265	Ary	TX to Tunis, R

1) Separated, no dash

2) Weak X06c on same freq with “reverse” (usual) scale “123456”

3) Started as “1--6-- “

4) Link on the same freq at the same time

5) Started “463125” and changed soon after start

6) Link on 13411 kHz before sequence

Wow, what a huge amount of logs as usual. Many thanks to all contributors.

Till next time I say good-bye, and stay well and healthy!

Jochen Numbers-, X06 Database and Teamkopf

HM01 MIXED MODE

January 2021

CHANGE OF MESSAGE:

Heard at 0458z 11/01 10860kHz Ary writes 'Finally new groups on Cuban HM01's transmissions, replacing the message of 9 Oct.' See below:

9330kHz0658z	11/01 61125 13135 42084 70219 17101 63414 starting at 0707z two of the same transmissions mixing	Ary	MON
10345kHz0558z	11/01 61125 13135 42084 70219 17101 63414	Ary	MON

Files sent:
74676112.TXT
11211313.TXT
22374208.TXT
88227021.TXT
36601710.F1G
67546341.TXT

Ary went on to write [with no frequency detail, but read entries]:

New groups on January 23rd
Groups: 43282 22652 16549 22175 16846 87271
Files: 75574328.TXT 44512265.TXT 36201654.F1G 76302217.TXT
62021684.TXT 36178727.F1G

New groups on January 24th
Groups: 43283 22653 32841 22176 16847 87271
Files: 75574328.TXT 44512265.TXT 14003284.TXT 76302217.TXT
62021684.TXT 36178727.F1G

New groups on January 25th
Groups: 43284 22654 32841 22177 16848 87272
Files: 75574328.TXT 44512265.TXT 14003284.TXT 76302217.TXT
62021684.TXT 36178727.F1G

10715kHz2200z	08/01 (66012 17241 10803 16171 10125 67090) QSA2	DanAR	FRI
10715kHz2200z	10/01 (61125 13135 42084 70219 17101 63414) QSA2 QRN2	DanAR	SUN
10715kHz2200z	13/01 (61128 13138 42087 74262 17104 63417) QSA2	DanAR	WED
10715kHz2200z	25/01 (43284 22654 32841 22177 16848 87272) QSA2	DanAR	MON
10860kHz0458z	11/01 61125 13135 428084 70219 17101 63414. The signal was too weak to decode the files	Ary	MON
11435kHz1614z	21/01 43281 22651 16547 22173 16844 20388	Ary	THU

Files
75574328.TXT
44512265.TXT
36201654.F1G
76302217.TXT
62021684.TXT
32712038.TXT

11435kHz1628z	29/01 30511 22658 32845 82631 50212 87276	Ary	FRI

Files
63433051.TXT
44512265.TXT
14003284.TXT
53408263.TXT
00835021.TXT
36178727.F1G

11435kHz1703z	14/02 61687 33565 71643 46051 44651 42676	Ary	SUN

Files
61336168.TXT
32533356.TXT
36257164.F1G
27864605.TXT
35664465.TXT
67284267.TXT

11462kHz0858z	07/01 66012 17241 10803 16171 10125 67090 (repeat of 9 Oct)	Ary	THU

Files
50416601.F1C
20511724.TXT
46251080.TXT
01041617.TXT
74061012.TXT
57856709.TXT

11530kHz1710z 11/01 61127 13137 42086 54261 17103 63416 Ary MON

11530kHz1700z 17/01 24244 78525 16543 54268 16841 20384 [new] Ary SUN
Files
38032424.TXT
62247852.TXT
36201654.F1G
32055426.TXT
62021684.TXT
32712038.TXT

11530kHz1716z 18/01 24245 78526 16544 22171 16841 20385 ip [New grps] Ary MON
Files
38032424.TXT
62247852.TXT
36201654.F1G
76302217.TXT
62021684.TXT
32712038.TXT

11530kHz1658z 19/01 24246 78527 16545 22171 16842 20386 [New grps] Ary TUE
Files
38032424.TXT
62247852.TXT
36201654.F1G
76302217.TXT
62021684.TXT
32712038.TXT

11530kHz1658z 20/01 24247 78528 16546 22172 16843 20387 Ary WED
Files
38032424.TXT
62247852.TXT
36201654.F1G
76302217.TXT
62021684.TXT
32712038.TXT

11530kHz1658z 22/01 43281 22651 16548 22174 16845 20389 Ary FRI
Files
75574328.TXT
44512265.TXT
36201654.F1G
76302217.TXT
62021684.TXT
32712038.TXT

11530kHz1658z 26/01 43285 22655 32842 22178 16849 87273 Ary TUE
Files:
75574328.TXT
44512265.TXT
14003284.TXT
76302217.TXT
62021684.TXT
36178727.F1G

11530kHz1658z 27/01 43286 22656 32843 22179 50211 87274 Ary WED
Files
75574328.TXT
44512265.TXT
14003284.TXT
76302217.TXT
00835021.TXT
36178727.F1G

11530kHz 1700z 28/01 43287 22657 32844 82631 50211 87275 Ary THU
Files
75574328.TXT
44512265.TXT
14003284.TXT
53408263.TXT
00835021.TXT
36178727.F1G

11530kHz1658z 30/01 30511 46021 32846 82632 50213 87277 Ary SAT
Files
63433051.TXT
50084602.F1C
14003284.TXT
53408263.TXT
00835021.TXT
36178727.F1G

11530kHz1728z 13/02 61686 33564 71642 13068 44651 42675 Ary SAT
Files
61336168.TXT
32533356.TXT
36257164.F1G
50351306.TXT
35664465.TXT
67284267.TXT

11530kHz1758z 14/02 61687 33565 71643 46051 44651 42676 Ary SUN

11530kHz1658z 17/02 51511 33568 71646 46053 44654 31541 Ary WED
Files
10655151.TXT
32533356.TXT
36257164.F1G
27864605.TXT
35664465.TXT
58183154.TXT

11530kHz1658z 22/02 51514 44183 62432 46057 44658 31544 Ary MON
Files
10655151.TXT
63204418.TXT
31026243.TXT
27864605.TXT
35664465.TXT
58183154.TXT

11635kHz1758z 11/01 Ary's remark - its a mess - see below Ary MON

1758 Loud noise with Radio Habana in the background. Then on top of the noise again new groups 61128 13138 42087 54362 17104 63417

1803 61127 13137 42086 54261 17103 63416 (repeat of 10 Jan)

1806 61127 13138 42087 54262 17104 63417

1807 noise is gone

1808 61128 13138 42087 54362 17104 63417
74676112.TXT
11211313.TXT
22374208.TXT
32055426.TXT
36601710.F1G
67546341.TXT

1813 signal on and off, groups 17103 634
1814 abruptly off
1822 carrier back on, no transmission

1831 61127 13137 42086 54261 17103 63416 (repeat of 10 Jan)

11635kHz1858z 14/02 61687 33565 71643 46051 44651 42676 Ary SUN

16180kHz2100z 15/01 (61128 13138 42087 74262 17104 63417) QSA2 DanAR FRI

February 2021

9065kHz0758z 05/02 30516 46025 40303 82637 43211 07054 Ary FRI
Files
63433051.TXT
50084602.F1C
60774030.TXT
53408263.TXT
22564321.TXT
82700705.TXT

11435kHz1628z	10/02 61683 33561 40309 13065 43216 42672	Ary	WED
11435kHz1558z	12/02 61685 33563 71641 13067 43218 42674	Ary	FRI

Files
61336168.TXT
32533356.TXT
36257164.F1G
50351306.TXT
22564321.TXT
67284267.TXT

11435kHz1628z	15/02 61687 33566 71644 46051 44652 42677	Ary	MON

Files
61336168.TXT
32533356.TXT
36257164.F1G
27864605.TXT
35664465.TXT
67284267.TXT

11435kHz1558z	18/02 51511 44181 71647 46054 44655 31541	Ary	THU

Files
10655151.TXT
63204418.TXT
36257164.F1G
27864605.TXT
35664465.TXT
58183154.TXT

11435kHz1558z	19/02 51512 44181 62431 46055 44656 31542	Ary	FRI

10655151.TXT
63204418.TXT
31026243.TXT
27864605.TXT
35664465.TXT
58183154.TXT

11435kHz1658z	19/02 51512 44181 62431 46055 44656 31542 Should be on 11530 kHz. Moved at 1701 UTC	Ary	FRI

11435kHz1558z	21/02 51514 44183 62432 46057 44658 31544	Ary	SUN

Files
10655151.TXT
63204418.TXT
31026243.TXT
27864605.TXT
35664465.TXT
58183154.TXT

11530kHz1600z	05/02 30517 46026 40304 13061 43211 07055	Ary	FRI

Files
63433051.TXT
50084602.F1C
60774030.TXT
50351306.TXT
22564321.TXT
82700705.TXT

11530kHz1728z	06/02 30518 46027 40305 13061 43212 07056	Ary	SAT

Files
63433051.TXT
50084602.F1C
60774030.TXT
50351306.TXT
22564321.TXT
82700705.TXT

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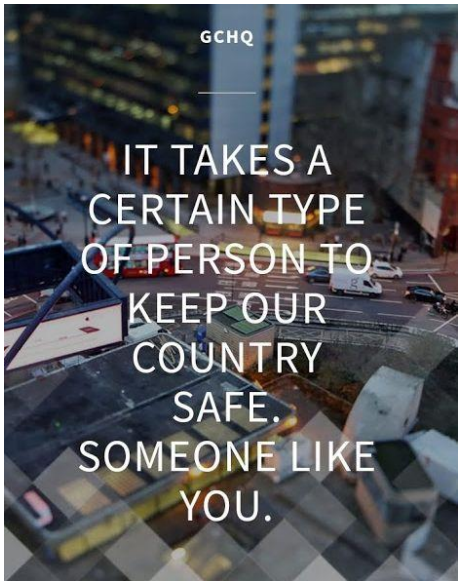
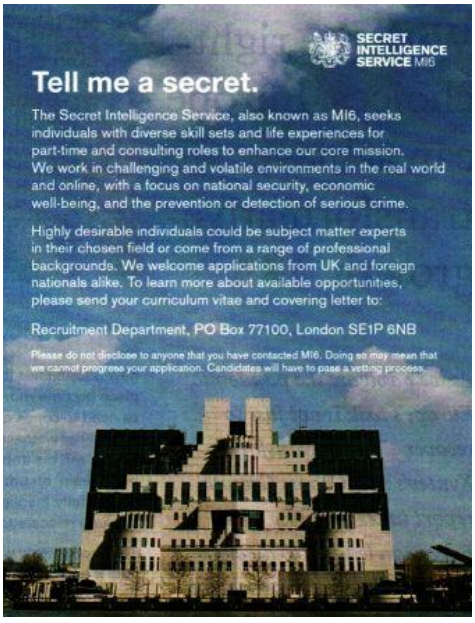
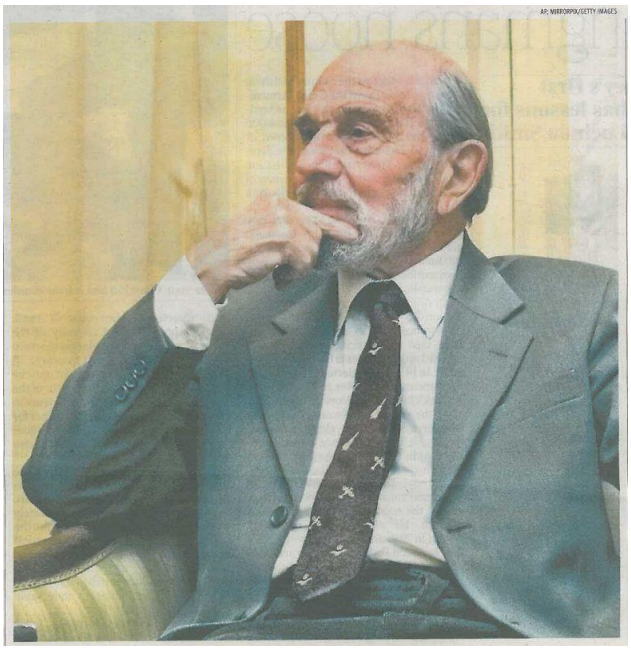
Gizza Job …….





[Tnx E]

Interesting image poses a question – anybody?



The image, left was that used in the 30thJanuary 2021 copy of 'The Times' newspaper.
Spotted and sent in my member RusMaleAnon it was part of the excellent obituary of George Blake and written by Ben Macintyre.

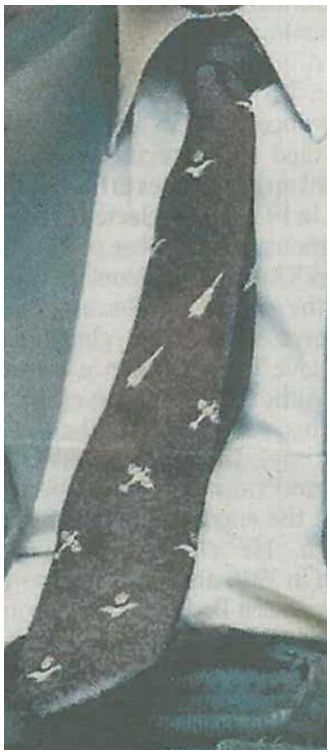
If you want read the obituary you'll need to sort that out yourselves though.

However, as our correspondent rightly points out there's motifs on Blake's tie. Notably, at the tail end there's wings with a crown above [RAF?] but also aircraft and rockets.

So, we ask of our readership if anyone has any idea about the tie?

The thoughts here are that Blake would probably enjoy rubbing HMG's noses in it at the first opportunity; silently and via a photograph probably his style.

So, any reader with any idea please feel free to email and let us know!



Still trying to avoid the mainstream media as much as possible but I did give way to temptation when I was in the supermarket, suitably masked of course, on 17-February and purchased a copy of The Times - well we needed something to wrap kitchen waste in and the local weekly free papers have not been delivered for some months.

One article with an espionage-related theme appeared, headlined “Moscow dangles jailed US 'spy' to free Lord of War”, written by Marc Bennetts in Moscow, which says:- “A former US marine jailed in Moscow on spying charges could become part of a prisoner swap involving a convicted Russian arms dealer known as 'the Lord of War', his lawyer has said.
Paul Whelan, 51, was arrested by FSB state security officers at a hotel near Red Square in 2018 as he was preparing to attend a wedding. Investigators said he was caught with a computer flash drive containing a list of FSB agents. He was jailed for 16 years in June.
Whelan, who has American, British, Canadian and Irish passports, alleges he was set up by an FSB employee, Ilya Yatsenko , whom he had known for ten years. Yatsenko has not commented. Whelan has denied wrongdoing.
Vladimir Zherebenkov, Whelan's lawyer, said Russian security sources had told him the exchange was imminent. 'According to my information, negotiations are under way and the question of a handover will be resolved in the coming two or three months,' Zherebenkov said.

He added that the talks had begun after President Biden took office. Antony Blinken, the US secretary of state, discussed Whelan's plight with his family on February 2. He said Whelan was being held hostage by Russia.
Zherebenkov named Viktor Bout, a gunrunner who inspired the 2005 film Lord of War as a candidate for a swap. Bout, 54, was arrested in Bangkok in 2008 by US agents posing as Colombian left-wing guerillas and sentenced to 25 years in prison in America.”

On the subject of Russia it appears you can still get into trouble for bad-mouthing old Joe Stalin according to a short piece in the same edition of The Times with the headline, “Man jailed for 13 years after he exposed Stalin”, which says, “A court rejected an appeal by Yuri Dmitriev, who exposed Stalin-era crimes, ordering to serve a 13-year sentence that his supporters say was based on fabricated charges. Dmitriev, 65, was convicted of sexually abusing his daughter. Supporters say the case was brought because the historian exposed Stalin's Great Terror, in which nearly 700,000 were killed.

Another sonic boom:- what is getting to be a regular event, a very loud bang caused by a jet aircraft travelling at some considerable speed occurred a bit after 1 pm on 12 January.
It was a fair bet that this was something to do with a flight into Stansted Airport – and thus it turned out to be. The Essex Line local news website reported it thus:- “A plane has been escorted into Stansted Airport after reports that the aircraft had 'failed to communicate with air traffic controllers.' An RAF Typhoon was deployed to escort the plane to the airport at around 1 pm.
The Typhoon caused a sonic boom which residents across the East of England heard.
Residents said that their homes and windows shook and they heard a very loud bang.
It has been reported that the RAF Typhoon was deployed due to a non-responsive aircraft which took an erratic flight path. The Typhoon had reportedly been sent to fly alongside and escort the aircraft into London Stansted Airport.

An RAF spokesperson said, “QRA Typhoon aircraft were launched this afternoon from RAF Coningsby to intercept an aircraft that had lost communications. Consequently, communications were re-established. The aircraft was intercepted and safely escorted to Stansted Airport. The Typhoon aircraft were authorised to transit at supersonic speed for operational reasons.”

Point to ponder:- “The past is history. The future is a mystery. Today is a gift, which is why it is called the present” - seen on the internet.

Thanks Peter

GCHQ and NSA Celebrate 75 Years of Partnership

FORT MEADE, Md., Feb. 5, 2021 —

https://www.nsa.gov/News-Features/Feature-Stories/Article-View/Article/2494453/gchq-and-nsa-celebrate-75-years-of-partnership/

The United Kingdom Government Communications Headquarters (GCHQ) and the United States National Security Agency (NSA) commemorate their partnership to share intelligence. These intelligence agencies have worked together for nearly a century to strengthen national security. March 5, 2021 marks the 75th anniversary of the formalized agreement to share information between the two agencies as much as possible, with minimal restrictions.

The British USA (BRUSA) Communications Intelligence (COMINT) Agreement, signed on March 5, 1946, was the original document that formalized the relationship. The agreement emerged from U.K. and U.S. specialists recognizing the beneficial results of intelligence sharing during World War II. The BRUSA Agreement was updated and expanded to become the UKUSA Agreement in 1955. This groundbreaking document created the policies and procedures for U.K. and U.S. intelligence professionals for sharing communication, translation, analysis, and code breaking information.

GCHQ and NSA personnel have worked together to address threats across all domains. The diversity of our experts provides better outcomes in analysis and innovative approaches to form solutions.

The UKUSA Agreement became the foundation for our intelligence alliances with Australia, Canada, and New Zealand. When the challenge is global, working with partners around the world is essential. This extraordinary trust and collaboration brings a strategic advantage in our nations' safety.

The 75th anniversary of the UKUSA Agreement marks the passage of a historic and lasting relationship which enhances the resilience of our nations' defenses and security of our future.

https://www.nsa.gov/News-Features/Feature-Stories/Article-View/Article/2494453/gchq-and-nsa-celebrate-75-years-of-partnership/

[*Heard on BBC1's Spooks concerning Britian's intelligence input, "When we're wanted, we are here; when we are not, we're in the way!"*]

Snatched from a beach to train North Korea's spies

By Rebecca Seales and Hideharu Tamura
BBC News, in Tokyo

Published 07February 2021

https://www.bbc.co.uk/news/world-asia-55651578

It was after sunset on a crisp November evening when Megumi Yokota left her last badminton practice. Sharp winds chilled the fishing port of Niigata, and the grey sea rumbled at its brink.

The lights of home were seven minutes' walk away.

Megumi, 13, with her book-bag and badminton racquet, said goodbye to two friends 800ft from her parents' front door. But she never reached it.

As six o'clock became seven and the quiet street failed to produce her daughter, Sakie Yokota began to panic. She ran to the gym at Yorii Middle School, expecting to meet her en route.

"They left a long time ago," the school's night watchman said.

Police, tracker dogs, torches splitting the darkness. They scoured a nearby pine forest calling Megumi's name. Sakie sped down the road to the beach, frantically scanning every car parked nearby.

It made sense to search the shoreline. But perhaps something stronger and more ineffable drove the mother to the water's edge that night.

Out on the Sea of Japan, out of Sakie's sight, a boat manned by North Korean agents was speeding towards the Korean Peninsula with a terrified schoolgirl locked in the hold.

They left no evidence, and not a single witness.

The crime was so brazen and bizarre that few would even imagine it, let alone solve it. But over the years, it became clear that Megumi was not the only victim.

The Japanese government says that from 1977 until at least 1983, North Korean agents abducted 17 Japanese citizens. Some analysts believe the true figure could be more than 100.

Short presentational grey line
In the year that followed Megumi's disappearance, police poured 3,000 staff days into the search. A kidnapping unit occupied the Yokota house. Patrol boats cross-hatched the sea.

The investigation drew an agonising blank.

Megumi's father Shigeru paced the sand every morning. At night, he cried in the bath. Sakie cried when she was alone, hoping Megumi's brothers, twins aged nine, wouldn't hear her.

A dark sand-timer had turned over for the Yokota family. For years, they tried simply to endure the void.

But missing Megumi was alive.

A North Korean spy who defected to the South in 1993 told Seoul in detail about an abducted Japanese woman who matched her description. "I remember her very clearly," said Ahn Myong-jin. "I was young, and she was beautiful."

He said one of her kidnappers - a senior spy-master - had told him her story in 1988:

The abduction was an unplanned blunder, he said. No-one had meant to take a kid. Two agents finishing up a spy mission to Niigata had been waiting on the beach for a pick-up boat, when they realised they'd been spotted from the road. Fearing discovery, they grabbed the figure. Megumi was tall for her age, and in the darkness they couldn't tell she was a child.

She arrived in North Korea after 40 hours locked in a pitch-black storage room, Ahn said, her fingernails torn and bloody from trying to claw her way out. The agents who took her were chastised for their poor judgement. She was too young; what use did they have for a little girl?

Megumi cried for her mother and refused to eat, unnerving her state minders. To soothe her, they promised that if she worked hard and learned fluent Korean, she would be allowed to go home.

It was a lie to fool a devastated child. Her captors had no such intention. Instead, North Korea would force Megumi to work as a spy trainer, teaching Japanese language and behaviour at an elite school for espionage.

Short presentational grey line
For this to happen once would be extraordinary. But the bungled abduction set a kind of precedent in North Korea.

The country's future leader Kim Jong-il, then head of its intelligence services, wanted to expand his spy programme. Kidnapped foreigners weren't just useful as teachers. They could be spies themselves, or Pyongyang could steal their identities for false passports. They could marry other foreigners (something forbidden to North Koreans), and their children, too, could serve the regime.

The beaches of Japan were full of ordinary people, ripe for abduction, who would stand no chance against highly-trained agents.

Short presentational grey line
"People think I don't remember much about my sister... but I do clearly remember her, even though I was third or fourth grade in elementary school."

When Megumi's younger brother, Takuya Yokota, and his twin Tetsuya were nine, the police hunting for Megumi showed them martial arts videos, urging them - "don't get beaten - be strong."

Every day for 43 years, he has tried to heed that advice. Now 52, he sits in a business suit holding a copy of a postcard his sister sent before her kidnapping. At the end she wrote, "I'll be home soon!! Please wait."

Takuya Yokota, in a black suit, holds up a copy of a postcard featuring a colourful animal
image captionTakuya Yokota, one of Megumi's younger brothers, holds a copy of a new year postcard she sent as a child
1px transparent line
"She was very chatty, very active and bright," he says. "She was like a sunflower for our family.

"Without her at the dining table, conversation was limited. The atmosphere got very dark.

"I was very worried, but somehow I went to bed and got up in the morning - every day, to find that she was missing. I got up, and I still couldn't find her."

For the first two decades after Megumi disappeared, the Yokotas had nothing but a cold case and their own desperate need to understand what had happened.

They tried to guess how she might be ageing. She had been tall at 13; was she still? Had she kept her childhood dimples? A shadow hung over every question. They had no clue if she had survived that last November night.

Short presentational grey line
In coastal towns in the late 1970s, rumours hovered like sea gulls. Locals spoke of strange radio signals and lights from unknown ships, or Korean cigarette packets discarded by the shore. In August 1978, a couple on a beach date in Toyama prefecture were gagged, hooded and handcuffed by four men who spoke oddly formal, accented Japanese. They were hastily abandoned when a dog-walker came by and the dog barked, spooking their attackers.

Others were less lucky.

On 7 January 1980, Japan's Sankei Shimbun newspaper ran a front-page story: "Three couples on dates evaporate mysteriously along the coasts of Fukui, Niigata, and Kagoshima - is a foreign intelligence agency involved?"

But it took a convicted terrorist to finally firm up the link to North Korea.

Kim Hyun-hui had killed 115 people by helping to smuggle a bomb onto a South Korean passenger plane in 1987. Staring down a death sentence in Seoul, she testified that she was a North Korean agent acting on state orders. She said she had learned Japanese language and behaviour so she could work undercover. Her teacher, she said, was an abducted Japanese woman whom she lived with for almost two years.

Kim Hyun-hui holds a handkerchief to her nose as she is led from a courtroom in Seoul by a woman investigator, on 25 April 1989

The testimony was compelling. But Japan's government wouldn't officially acknowledge that North Korea was stealing people. The two countries had a hostile history and no diplomatic relations. It was easier to ignore the evidence.

When Japanese negotiators tried to raise the issue privately, the North angrily denied any abductees existed and terminated talks.

It was 1997 - 20 years after Megumi went missing - when Pyongyang finally agreed to investigate.

21 January 1997

"We have information that your daughter is alive in North Korea."

Shigeru was stunned. A Japanese official named Tatsukichi Hyomoto, the personal secretary to an MP, had contacted the Yokotas out of the blue. He had been probing abductions by Pyongyang for a decade, and wanted to meet them as soon as possible.

Along with deep shock, a mad hope sprang back into the family's hearts. The government believed Megumi was alive. So the question at once became: How do we get her back?

The Yokotas went public with their kidnap story. They were terrified North Korea would kill Megumi to cover up what had happened, but her father argued the case would be treated as hearsay unless her name was revealed. They had to spread the news across Japan, and beg the country for help.

The family appeared on primetime TV. Questions were raised in parliament. In May, the government publicly confirmed that Megumi was not an isolated case: There were more like the Yokotas, aching for stolen daughters, sons, sisters, brothers and mothers.

Seven of these families formed a support group to demand the rescue of their loved ones: the Association of Families of Victims Kidnapped by North Korea.

They talked at length, pooling what little they knew. The abductions appeared opportunistic, but patterns soon emerged. Most victims were young lovers in their twenties. Beaches across Japan had been recast as crime scenes.

On 12 August 1978, nine months after Megumi disappeared, 24-year-old office clerk Rumiko Masumoto went to watch the sunset with her boyfriend, Shuichi Ishikawa, 23, at a beach in Kagoshima Prefecture. Just a day earlier, she had shyly told her family about their relationship over dinner.

Their car was found locked at the scene, with Rumiko's wallet and sunglasses in the passenger seat. Her camera was there too - filled with pictures the couple took of each other the day they disappeared. Police picked up one of Shuichi's sandals not far from the water's edge.

Rumiko Masumoto's driver's licence, in a cover with kittens on it, which was found in her car when she was kidnapped
image captionWhen Rumiko Masumoto disappeared, police found her car locked near the beach. Her wallet and driver's licence were still inside
Every kidnapping was a private tragedy. A loved one who fell out of the world without notice. Some of those left bereft were driven to the edge of madness by their loss.

The press and the public weren't always sympathetic. News reports referred to the abductions as "alleged". Several Japanese politicians believed the claims were South Korean disinformation spread to discredit the North.

But as the families drew up petitions, filled the airwaves, and lobbied the government, the truth was gathering weight like a rolling snowball.

Five years later, in North Korea, it would stop at the feet of Kim Jong-il himself.
17 September 2002

"As the host, I regret that we had to make the prime minister of Japan come to Pyongyang so early in the morning," said North Korea's leader.

But his companion's anger had nothing to do with the time.

Prime Minister Junichiro Koizumi had flown in to discuss normalising Japan's relations with North Korea, hoping the step would boost his flagging opinion rating. Instead, he had walked into a diplomatic ambush.

Japanese Prime Minister Junichiro Koizumi walks with North Korean leader Kim Jong-Il before their talks in Pyongyang on 17 September 2002.

After a brutal 1990s famine believed to have killed more than two million North Koreans, Kim Jong-il wanted food aid and investment, and an apology for Japan's 35-year colonisation of Korea. Japan wanted - and had refused to proceed without - details of every citizen abducted by Pyongyang's spies.

Half an hour before the historic meeting, the list of names appeared: North Korea admitted to kidnapping 13 Japanese citizens. But just five were said to be alive.

The causes of death given for the other eight included drowning, choking on the fumes from a broken coal heater, a heart attack in a woman of 27, and two car accidents in a country where private citizens rarely own cars. Pyongyang claimed it could not provide their remains, as floods had washed away almost all their graves.

Koizumi was aghast.

"I was utterly distressed by the information that was provided," he told Kim Jong-il, "and as the prime minister, who is ultimately responsible for the interests and security of the Japanese people, I must strongly protest. I cannot bear to imagine how the remaining family members will take the news."

Kim listened in silence, taking notes on a memo pad, then enquired: "Shall we take a break now?"

Debating their predicament in an anteroom, deputy Cabinet spokesman Shinzo Abe - who would become Japan's longest-serving prime minister - urged Koizumi not to sign the declaration committing to normalisation talks unless Pyongyang formally apologised for the kidnappings.

When the delegates reconvened, Kim picked up a memo and read: "We have thoroughly investigated this matter, including by examining our government's role in it. Decades of adversarial relations between our two countries provided the background of this incident. It was, nevertheless, an appalling incident.

"It is my understanding that this incident was initiated by special mission organizations in the 1970s and 1980s, driven by blindly motivated patriotism and misguided heroism.

"[…] As soon as their scheme and deeds were brought to my attention, those who were responsible were punished. This kind of thing will never be repeated."

The dictator of Pyongyang said the abductions were designed to provide its spies with native-Japanese teachers, and false identities for missions in South Korea. Some victims were snatched from beaches, yes - and others lured from studies or travels in Europe.

He spoke of Megumi, the youngest named abductee by many years, saying her kidnappers had been tried and found guilty in 1998. One was executed, and the other died during a 15-year sentence, he said.

"I would like to take this opportunity to apologise straightforwardly for the regrettable conduct of those people. I will not allow that to happen again."

Koizumi signed the Pyongyang Declaration.

Five alive, eight declared dead.

Back in Japan, at a Tokyo guesthouse owned by the Ministry of Foreign Affairs, the abductees' families were waiting anxiously for news.

Megumi's parents sat down with the Deputy Foreign Affairs Minister, Shigeo Uetake. He took a breath.

"I regret to inform you..."

Short presentational grey line
North Korea says Megumi Yokota hanged herself in a pine forest on 13 April 1994, on the grounds of a Pyongyang mental hospital where she was being treated for depression.

This is her second death date. The North initially claimed she had died on 13 March 1993, before declaring that an error.

As evidence, Pyongyang produced what it said was a hospital "death registry". It was a form with the words "Registry of Patient Entering and Leaving the Hospital," on the back of it. But "Entering and Leaving the Hospital," had been crossed out several times and the word "Death," written instead. Japan told North Korea it found the document highly suspect.

Another kidnapped Japanese woman, Fukie Chimura, later said that Megumi had moved in next-door to her and her husband in North Korea in June 1994, two months after Megumi's supposed death, and lived there for several months.

The Yokota family don't believe Megumi killed herself. Still, Sakie finds the details of Pyongyang's story chilling.

"In Niigata, we had pine forests," she told the Washington Post in 2002. "I'm sure she missed them. I'm sure she was very lonely. For a minute, I thought maybe she longed so much for us and she couldn't come back that, in an instant, she [took her own life.]

"I cried. But in the next minute, I said no, that could not have happened. I do not want it to have happened. I don't want her to have gone through that."

Two years after declaring Megumi dead, Pyongyang handed over what it said were her ashes. They arrived on the 27th anniversary of her kidnapping. Her parents had kept their daughter's umbilical cord when she was born - a Japanese tradition - and DNA tests were performed.

The samples didn't match.

The scientist who tested the ashes would later say they could have been contaminated, making the result inconclusive. But North Korea had form for providing dubious remains. It had already sent bones it claimed were those of abductee Kaoru Matsuki, a man it said had died aged 42. They included a jawbone fragment which a dental expert said belonged to a woman in her sixties.

Short presentational grey line
On 15 October 2002, the five abductees who North Korea said were alive landed at Tokyo's Haneda Airport.

They stepped off the plane to Japanese flags and homemade "Welcome home" banners, and sobbed on the runway in the arms of their families.

Pyongyang had agreed the five could visit Japan for a week to 10 days.

They would never set foot in North Korea again.

Five Japanese nationals, abducted to North Korea in the 1970s and 80s, arrive at Tokyo's Haneda Airport on October 15, 2002

How do you rescue someone whose captor insists they are dead? Of course, the Yokotas weren't the only family facing this nightmarish question.

Rumiko Masumoto, the young office clerk who disappeared with her new boyfriend, was also on the list of deceased.

North Korea says Rumiko died of a heart attack in her twenties. Her family don't accept that. "There's no one in my family with heart failure," her brother says simply.

Teruaki Masumoto was 22 and studying fishery in Hokkaido at the time of his sister's 1978 abduction. He is 65 now, retired from a job grading tuna at Tokyo's main fish market.

He and Megumi Yokota share a birthday - 5 October - though they are nine years apart. Megumi would be 56 now, and his sister Rumiko 66.

Rumiko doted on her brother, the youngest of four Masumoto siblings.

"She was very kind to me," he says. "Since our family wasn't so affluent, we lived in one room with a family of six. Rumiko and I slept on the same futon until I was about 12 years old. She loved me so much. When I got scolded by my father, she cried and defended me."

Teruaki has charted four decades of lost time on a precious gift from Rumiko: a watch she gave him when he got into university.

In recent years, the war of missing seconds has grown to feel ever more urgent.

Rumiko and Teruaki's father, Shoichi, died of lung cancer in 2002. Their mother Nobuko made it to 90 before passing away in 2017.

For four decades she waited for her daughter to come home. But in her later years, she acknowledged that death might reach her first.

The search for a stolen child, dead or hidden in a pariah state, is a brutal legacy to leave. But it's an issue many abductees' families have been forced to address. With the parents' generation now gone or in their twilight years, should they tell their present, living children to fight on with everything they have? Is it even a choice?

There was no formal handover, but Teruaki tends the dark sand-timer now.

"My father, when he was still alive back in around 2000, became unable to come to Tokyo," he says. "At the time he said to me - 'I'm sorry.' And I felt sort of puzzled and uncomfortable, because I was doing this not because of my father but because of my missing sister.

"My mother sometimes told me that she wondered if Rumiko would ever come back to Japan. So I think my mother half doubted that she would see her alive. But they didn't say things like, 'this is your time' or 'I want you to keep doing this rescue mission.' No, they didn't say that to me."

They didn't need to.

"Yes."

Teruaki Masumoto, in a short-sleeved shirt, holds up his wrist to show a gold watch given to him by his sister before her abduction
image captionTeruaki Masumoto still wears the watch his missing sister gave him more than four decades ago
1px transparent line
Megumi's brother, Takuya Yokota, was still in his thirties when he felt the mantle settling on his shoulders.

"When I went to the United States to see President Bush in 2006, I found my ageing parents had trouble spending a long time on a plane," he says. "And in Japan too, if we went somewhere far from Tokyo, they would also have trouble travelling. At that time, I understood that my parents would not be able to go to far-away places any more."

Only two of the victims' parents remain alive. Sakie, the youngest, will turn 85 in February.

Megumi's father Shigeru, softly-spoken but steely, died on 5 June 2020. He went into hospital in April 2018, and fought every day that followed to stay alive a little longer, with his treasured daughter's picture by his bed.

In Japan, where everyone knows about "The Abduction Issue", it's not possible to protect a child with personal ties for long. Both Teruaki Masumoto and Takuya Yokota are fathers: Teruaki to a young daughter, and Takuya to a son in his early twenties.

Takuya believes his son was in infant school when they told him what had happened to Aunt Megumi. "Probably when he was six or seven years old. I'm sure I had talked to him at the age of nine, the age I was when my sister got abducted."

Teruaki's daughter was younger still.

"My daughter knows about Rumiko," he says. "My wife told her before she entered kindergarten. There's this festival in Japan in summer, in July, when we think a couple separated by the Milky Way meet once a year up in the sky. We write our wish on a short piece of paper and put it onto a tree. On that paper, my four-year-old daughter wrote, 'I want to see my aunt.'

Not every abductee's family has the luxury of insulating children from the burdens of loss and duty, as Teruaki knows.

Since 2004 he has campaigned alongside Koichiro Iizuka. The person stolen from Koichiro was his mother. He was 16 months old at the time.

Aged 22, Yaeko Taguchi was a nightclub hostess, and single mother to a baby son and three-year-old daughter. When she disappeared with no explanation in June 1978, her children were left abandoned in their Tokyo nursery.

Yaeko's baby son was adopted by her brother, Shigeo Iizuka, and raised as his fourth child. Her daughter was cared for by an aunt.

Now 43, Koichiro Iizuka remembers nothing about his birth mother. He's notably polite, calling her "Yaeko-san" - "Ms Yaeko".

"Mum" and "Dad" are Shigeo and his wife Eiko. And until he reached 22, he had no idea his life was more complex than that.

A 2020 picture of Koichiro Iizuka sitting in a conference room in Tokyo
image captionKoichiro Iizuka grew up unaware that his uncle and aunt had adopted him
"When I got a job I had the chance to go abroad for training, and I needed to apply for my passport," he explains. "In order to do that I needed to get a family registration paper. And I took it and looked at it, and found that I was adopted by Mr Iizuka.

"First I couldn't imagine why they had kept this secret for so long; I just couldn't imagine, so I needed some time. It took me a week before I went to my parents.

"When I came home, my mother was out of the house but my father was there. So I told him I had looked at the family registration paper and had found out I was adopted. And I asked him - what happened to me?"

Shigeo took him to lunch and told him the truth. "He told me, as the paper says you're not my biological child. And I have this youngest sister - whose name is Yaeko - and you are a child of hers."

He held back the darkest part until they were home.

"He told me, there is this person Kim Hyun-hui - the North Korean agent, the bomber of the KAL plane in 1987, and she said she was taught by a Japanese teacher. Kim Hyun-hui was shown several pictures twice [by Japanese police] - and she picked Yaeko-san, saying 'this is my teacher.' From that it was clear that she was one of the abductees in North Korea."

The claim was corroborated by Fukie Chimura, one of the abductees returned to Japan, who said she had shared accommodation with Yaeko.

In 2004, two years after the five Japanese made it home from North Korea, Koichiro decided to reveal publicly that he was Yaeko Taguchi's son. He was frustrated by the diplomatic impasse on rescuing the others, keen to do all he could to push the issue.

"This person Yaeko-san wasn't real in my memory - she was like someone in a story," he says. "But this woman in the story gave birth to me, so it was shocking to me that I wouldn't be able to see her.

"My father was given a lecture by a foreign ministry official who said there was no proof to support North Korea saying that she was dead. And my father said he just couldn't believe it - he couldn't take the word of North Korea.

"So we thought - I thought - that I wanted to rescue her, help her."

The plane bomber Kim Hyun-hui had been sentenced to death for her crimes, but was ultimately pardoned by South Korea's then president. In 2009, Koichiro and Shigeo Iizuka travelled to Busan, South Korea to meet her, and learn what they could about her time with Yaeko.

"She said, I feel that Yaeko-san is my sister, and I'm very happy to see my sister's son today," recalls Koichiro. "And I hope someday that the four of us can meet at one time."

Officially, North Korea says Yaeko Taguchi died in a car accident in 1986. But Ms Kim disputes that, saying she spoke to a driver who reported seeing her alive the following year. She would now be 65.

Koichiro knows he may ultimately be left searching for his mother, the missing stranger, without the backing of those who knew and loved her.

"Of course I feel time is very important. Especially because Yaeko-san has two siblings who have already died. My father is ageing. I want him to see her again very much. Not only my family, but the other abductees' families… I can easily see they're getting older. People who used to be very active - some of them are gone already, and some are very frail."

North Korea has never admitted it was behind the bombing of Korean Air Flight 858, and maintains there is no such person as Kim Hyun-hui.

Yaeko Taguchi's family fear that after tutoring Kim and spending her days surrounded by spies, Yaeko may simply know too much ever to be released.

Short presentational grey line
All those caught up in this struggle share a common dread: That passing time will make a mockery of it, as the abductees age beyond reasonable hope of survival.

Would they have died of old age in North Korea by now? At time of writing - no. But it will fall to the current generation to address the question.

"Time passes equally for both sides," says Takuya Yokota. "Yes, they are getting older too. And I think spending a year or 20 years in Japan or in England or the US has a different meaning to spending the same amount of time in North Korea. In North Korea, it's very hard not only to stay alive until tomorrow, but to keep alive today."

For Teruaki Masumoto, not even their loved ones' deaths would justify giving up.

"If their deaths were proven then we would want their bones to be back with us. That's the Japanese mentality. We would also continue to hold the Japanese government accountable for not being able to rescue the abductees. Even though there are 17 abductees 'approved' by the government, I think many, many more are in North Korea - more than a hundred. If there are other abductees, we should be able to establish what happened to them. So we're not going to stop working any time soon."

In 2014, North Korea agreed to open an investigation into the fates of the eight acknowledged abductees it has not returned, despite having declared them dead. It was dragged out until 2016, then cancelled in a spat over nuclear test sanctions.

Megumi's father dreamed of walking her through the lights and liveliness of Roppongi, Tokyo's entertainment district. But in her mother's prayers, they go to a field together where they can lie down looking at the sky, without anybody around, and just quietly and peacefully spend time.

Sakie writes open letters to her daughter, in the hope the words may somehow reach her.

Part of one, published by JAPAN forward last year before the loss of her husband, reads as follows:

"Dear Megumi,

"I know it might seem a bit strange that I am just casually reaching out to you. Are you well?

"[...] I have been trying my best to live a full life, but I feel my body weakening, and every day gets a little bit harder. When I see your father at the hospital desperately doing his rehabilitation exercises, I am overcome with an urgency to find a way for him to see you.

"This is the reality of ageing. It's not just your father and me. We may be dealing with ageing, sickness, and weariness, but the families of all the victims in North Korea still go on yearning to see their loved ones back on native soil and hold them in their arms.

"We don't have much time left. We've fought long and hard with our hearts and souls, but we cannot hold out much longer.

"[...]I want to celebrate my next birthday with you. Only the nation of Japan - the government - can make that happen. But sometimes I'm overcome with a sense of unease and am concerned that our efforts are futile when I see what's going on in our government. I doubt they have the will to solve this problem and figure out a way to bring the victims home.

"[…] Somehow, I have managed to survive this raging storm. I am thankful that you also have survived, supported by a greater power. We are not alone. And so I pray again today as I think of all of you.

"It will take more effort than ever before to bring all the victims back to Japan. Of course, Japan must stand up for itself, but we also need courage, love, and righteousness from around the world. (Those of you who read my letter, please take a moment to remember in your heart the abductees still trapped in North Korea. Please speak out for them.)

"Dearest Megumi, I will keep up the fight to bring you back home to me, your father, and your brothers Takuya and Tatsuya. My resolve remains unshaken, even at age 84. So please take care of yourself and never lose hope."

READ THE ARTICLE ON BBC WEBSITE TO APPRECIATE IT FULLY [Tnx RNGB]

https://www.bbc.co.uk/news/world-asia-55651578

US Embassy did NOT mention Harry Dunn's 'killer' was spy: Court papers reveal hit and run suspect's intelligence role did not appear in notes to UK government stating her diplomatic immunity

Anne Sacoolas, 43, 'fled' the UK after the death of Harry Dunn in August 2019
Motorcyclist, Mr Dunn, 19, died after crash near to RAF Croughton, Northants
She flew back to the US claiming diplomatic immunity two weeks after crash
Now a court in the US has heard she was working for the US intelligence agency
Court heard how US Embassy told Foreign Office she was 'spouse of employee'
By JAMES ROBINSON FOR MAILONLINE

US Embassy did NOT mention Anne Sacoolas was a spy following the death of Harry Dunn | Daily Mail Online

PUBLISHED: 09:45, 7 February 2021 | UPDATED: 09:27, 8 February 2021

Foreign Office officials were not told that Anne Sacoolas was a spy in notes sent by the US Embassy in the wake of Harry Dunn's death, court documents have today revealed.

Officials instead labelled the US intelligence worker as a spouse of an embassy employee when they sent the Foreign Office a note asserting her diplomatic immunity, the court was told.

Sacoolas was made a suspect in the death of Mr Dunn, 19, who was killed in a road crash outside US military base RAF Croughton, in Northamptonshire, in August 2019.

The 43-year-old later flew back to America while claiming diplomatic immunity.

After she had returned to America, Northamptonshire Police charged Sacoolas with causing death by dangerous driving. However the US has rejected the UK's extradition request.

Now an American court, which is assessing a civil claim by Mr Dunn's family against Sacoolas, has heard how the UK's Foreign Office were not told about her intelligence role in official notes from the US Embassy.

The court in Virginia heard that one note, penned by the US Embassy three days after the crash, only labelled Sacoolas as 'the spouse of a member of administrative and technical staff of the Embassy'.

Foreign Office chiefs were not told that Anne Sacoolas was a spy in officials notes sent by the US Embassy in the wake of Harry Dunn's (pictured) death, court documents have revealed

The court heard that the intelligence worker was told she was a suspect in the teenager's death following a crash outside RAF Croughton (pictured) in Northamptonshire in August 2019

It comes after the court was earlier told that both Sacoolas and her husband Jonathan worked for the US State Department at the time of the crash and 'fled' the UK due to 'issues of security'.

The Foreign Office (FCDO) and Number 10 have both previously said the Foreign Secretary and the Prime Minister were unaware of the case until after Sacoolas had left the UK.

The court heard that the intelligence worker was told she was a suspect in Mr Dunn's death by Northamptonshire Police on August 28 - the day after the fatal crash.

The US Embassy's first note was then sent to the Foreign Office on August 30.

The letter shows how diplomatic immunity was asserted on behalf of Sacoolas - eventually leading to her departure 16 days later on September 15.

Sacoolas was eventually charged with causing Mr Dunn's death by dangerous driving.

But an extradition request, submitted by the Home Office, was rejected by the US State Department in January last year.

The High Court previously ruled Sacoolas had diplomatic immunity at the time of the crash due to a loophole which meant dependants of US Embassy employees were entitled to immunity but the employees themselves were not.

The 'anomaly' was closed by the FCDO in July last year.

The US Embassy referenced the loophole in its first note to the FCDO - telling UK officials 'waivers of immunity must always be express' in accordance with the Vienna Convention on Diplomatic Relations.

FCDO officials were requested in the Embassy's note 'to remind appropriate authorities' not to arrest or detain Sacoolas.

The US formally declined the UK Government's request for a waiver of immunity on September 13, two days before the suspect's departure.

The FCDO responded to the waiver refusal by expressing its 'grave disappointment' at the US's decision on September 24 - nine days after Sacoolas had returned home.

The latest revelations have led the family to raise questions about Sacoolas's immunity - including: 'When did the British Government become aware of her real employment status?'

Their spokesman Radd Seiger said: 'We are all still catching our breath after this astonishing revelation, having believed all this time that Mrs Sacoolas was just a dependant.
Mr Dunn's mother, Charlotte Charles, said she and Tim Dunn, Harry's father, (pictured together) wanted to sit down with Sacoolas once the prosecution was over to 'rebuild our shattered lives'

'The starting point of course is that this is not what diplomatic immunity was intended to be used for.

'But this note reveals that rather than asking itself what the right thing to do was following the tragedy, the US State Department set about looking for a way to do the wrong thing.'

Mr Seiger continued: 'This note now raises some serious questions.

'Why were the US authorities less than candid with the FCO about Mrs Sacoolas' real role whilst in the UK?

'When did the British Government become aware of her real employment status?

'Did Dominic Raab know on 28 January 2020 when Harry's father Tim asked him point blank whether Mrs Sacoolas was working as an intelligence officer at the time of the crash, to which the response was 'She used to work for the State Department'.'

In a hearing in which the alleged killer attempted to dismiss the Dunn family's civil claim, her barrister John McGavin told the court he could not 'completely candidly' explain why the Sacoolas family left the UK, adding: 'I know the answer, but I cannot disclose it.'

US State Department spokesman Ned Price reiterated their position again on Sunday, saying: 'At the time the accident occurred, and for the duration of her stay in the UK, the US citizen driver in this case had immunity from criminal jurisdiction.

'As we have said previously, the driver had diplomatic immunity because she was the spouse of an accredited staff member of the US Embassy office.'

A US official said they do not comment on diplomatic correspondence.

An FCDO spokeswoman said: 'Anne Sacoolas was notified to the UK as a spouse with no official role, and the High Court determined she had diplomatic immunity while in the UK under the Vienna Convention on Diplomatic Relations.'

US Embassy did NOT mention Anne Sacoolas was a spy following the death of Harry Dunn | Daily Mail Online

One should note the US do not seem to extradite their nationals at all; do they expect a one way service – and remember its part of Tony Blair's so called special relationship!

Finally! We're all aware of the utter nonsense related to COVID-19 that is appearing in the British press. It seems the Journos [term used very loosely] seem to be writing some of the rubbish when they are at their lowest ebb of intelligence.

But, the BREXIT stuff curried along with the 'This vaccine won't work nonsense' from the EU doesn't seem to be just on this side of the Channel [or British Sea as it was called before WW1 ended].

I recently received from a member, who shall for this remain anonymous, two comparative headlines. One from the German Bild, the other from the UK Sun.

Before you lot harp on discussing whether the Sun is a newspaper rather than a comic and all the rest of that its worth noting that whilst the Sun took the topless page 3 idea from the Times Newspaper I saw my first copy of Bild, complete with a rather undressed pic of Nancy Sinatra on its page 3, when I was in Heidelberg in 1964. I might add the US Base there does some splendid nosh and the PX is good too. It cost just 10 pfennigs [remember them?] from the market square to the base on a tram. Excellent, along with the drink I had with an ex-German PoW in a Russian camp who lauded his bad treatment and the brain damage he received having a chair broken over his head. He had a deep ridge over his left temple that he was almost proud to display. The bar was called 'The Purple Heart' I recall and was next to the 'Bubba Loo' where we both got slung out because of a rather stupid remark concerning the date [20th April] and what it represented. My German companion and I didn't bother with such a paltry remark but all hell broke out and the barman and his henchman cleared the place out. I often reflect on whether my German companion ever reflected on that day; somehow, I hope he did. Little did I realise that I soon would be sporting my own like deep reidge ober my left temple, not because some Russian decided to use my bonce to modify a chair but because I wasn't wearing a crash helmet when some piss artist at the wheel of his brand spanking new Ford Cortina VRM EDY409E decided to 'Not see me' and drive into me from behind as I was turning right across a main road. Anyway, such a digression and here's the headlines:

The translations are Bild: 'We envy you' and for the Sun 'We don't envy you.'

I've since been told of the accompanying journalism from the Sun and I personally think it's typically Sun. If you want to know more then take a read here but be warned its very funny at then end:

https://www.thesun.co.uk/news/14167255/message-friends-germany-dont-envy-eu-vaccine-shambles/

The sender wrote 'I've read the answer of The Sun only in German translations and in excerpts. Absolutely awesome piece of journalism by Colin Robertson about the German word "Schadenfreude". And the climax of this text is the advice "There is a way out" (of the EC). Absolutely hilarious!

Schadenfreude from my dictionary was 'Malicious Joy' and that it is in Mr Robertson's pice.

Chart Section Index

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2. M01 Schedule

3. Family III

4. XPA1 schedule c XPA2 schedules m and p

March 2021

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					x		1500		M01	14	6260 463	6260 463
x	x						1500/1510		S06S	01A	6464/ 7242 914	6464/ 7242 914
					x		1500/1520/1540		XPA2	01B		15881/14481/13381
x				x			1510/1530/1550		E07A	01B		12174/11074/10274 102
				x			1530		E11	03	5737 52#	5737 52#
x			x				1530		E11	03	10330 26#	10330 26#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Mar kHz, ID, ...	Apr kHz, ID, ...
	x	x	x	x	x	**x**	1555		HM01	18	11435	11435
x		x				**x**	1600/1620/1640		M12	01B		16321/15821/14721 387
					x		1600/1620/1640		XPA2	01B	12163/10863/ 9363	
	x		x				1600/1620/1640		XPA2	01B	13994/13494/12194	15819/14919/13919
	x					x	1605		E11	03	5082 23#	5082 23#
				x			1610/1630/1650		E07A	01B	11473/10173/ 9373 413	
		x				x	1625		E11	03	6923 97#	6923 97#
x				x		x	1650		E11	03	11116 92#	11116 92#
	x	x	x	x	x	**x**	1655		HM01	18	11530	11530
		x				x	1700/1720/1740		E07	01B		13417/12117/10717 417
			x				1700/1720/1740		M12	01B	12162/11566/1ß711 546	12162/11566/1ß711 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
x			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				x	1800/1820/1840		E07	01B	10321/ 9121/ 7821 318	
			x				1800/1820/1840		M12	01B	12162/11566/10711 546	12162/11566/10711 546
		x					1810/1830/1850		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
	x			x			1840/1850/1900	1	F01	01A		12194/10581/ 8112
		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		13447/12147/11547 10447/ 9347/ 8147 **check**
x		x					1900/1920/1940		E07	01B		15819/14419/12219 842
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
				x			1900/2000	1/3	S06	01A		**search** ??? x8171/5876
				x		x	1910		E11	03	8530 61#	8530 61#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Mar kHz, ID, ...	Apr kHz, ID, ...
					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

XPA1 Sched c and XPA2[Sched m & p] Russian Intelligence and/or Diplomatic Multitone Systems [Radiogramma] Transmission Schedules.

Zulu > / Month v	XPA1 Sched c Tuesday/Thursday H+10 H+30 H+50 0710 / 0810z			XPA2 Sched m Sunday/Tuesday H 00 H+20 H+40 1200/2100			XPA2 Sched p Monday/Wednesday H 00 H+20 H+40 0700 / 0800z		
Jan	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:
Ary,BFPO1 Edd, BR, CC, Danix, DanAr, E, F5, HH, HJH, JkC, Jochen, KW, Malc, MaleAnon, PoSW, PLdn, RNGB, RusMaleAnon,
Apologies to anyone missed.

MESSAGES:

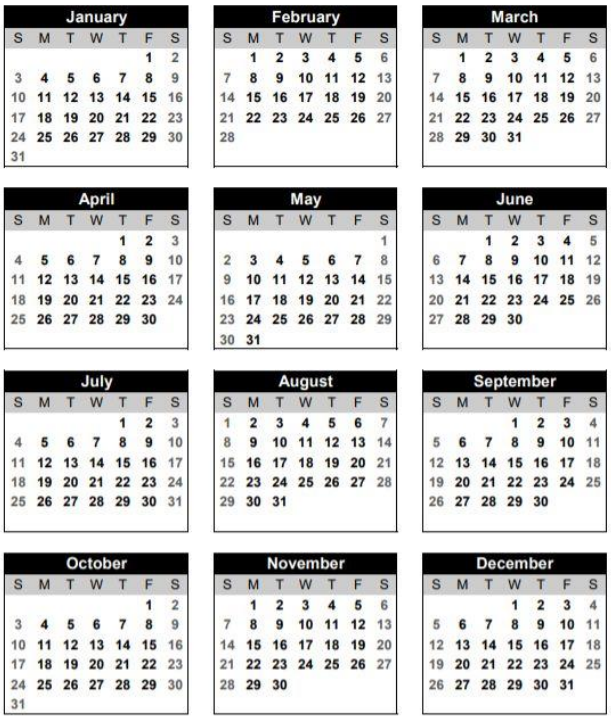
E: Thanks your input – stay safe.

Na památku Zdeny ze Zlína, která pomohla na dotaz. Dobře odpočívejte

RELEVANT WEBSITES

ENIGMA 2000 Website:	http://www.enigma2000.org.uk
Frequency Details can be downloaded from:	http://www.cvni.net/radio/
More Info on 'oddities' can be found on Brian of Sussex' excellent web pages:	http://www.brogers.dsl.pipex.com/page2.html
Time zone information:	http://www.timeanddate.com/library/abbreviations/timezones/
Encyclopedia of Espionage, Intelligence, and Security	http://www.espionageinfo.com/
EyeSpyMag!	http://www.eyespymag.com

2021



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