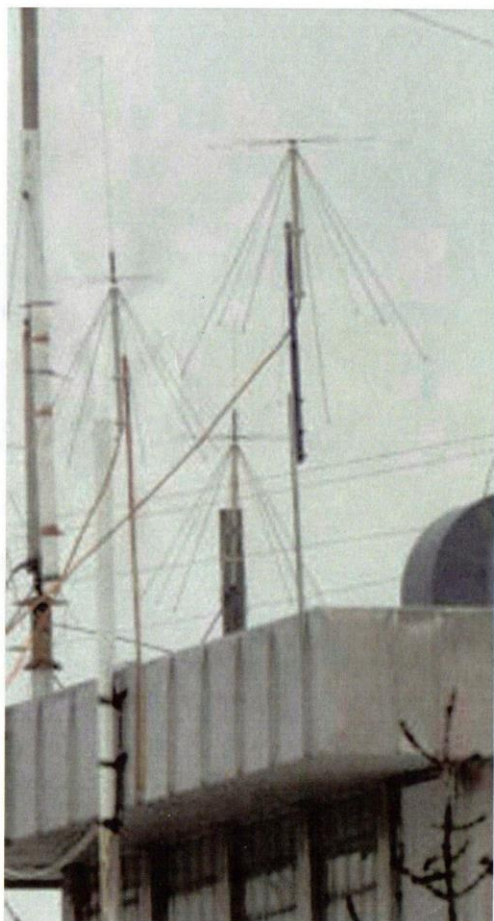


ENIGMA 2000 NEWSLETTER



<http://www.enigma2000.org>



Copyright remains with originator

Russian Embassy Roof, Stockholm

Number Stations in a world turning upside down, by Jose Martinez
a Geopolitical offering on Page:

ISSUE 149

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<http://www.enigma2000.org>

**A REMINDER: ENIGMA2000 WILL NOT DISCUSS THE RUSSIAN/UKRAINE
OR GAZA/IRAN/ ISRAELI MATTERS BEYOND TECHNICAL MATTERS**

**WE WILL NOT BE ANSWERING E MAILS SENT FROM THE PARTICIPATING COUNTRIES
CONCERNING OUR SUBJECT MATTER OR USING MATERIAL THEREOF.**

Editorial

As if the poor conditions we have experienced were not enough to contend with on Sunday 18th May I opened the draft copy of this newsletter to find, Shock! Horror, nothing inside.

The reason was poor backing up after a very long day away at Bletchley Park. Bed at 2330 16/05 and up at 0400 the day after is not perhaps a good thing to do at my age. Add to that being made to watch four hours of that drivelous Eurovision Song Contest [*quite how Australia and Israel are part of Europe is a true mystery here*], outrageous acts and sadly poor ones to make you doze in your seat.

So, at midnight I enter the radio shack to update to newsletter. I rip through the update in reverse! Luckily all is available off saved logs. I must apologise for the loss of three images though.

On 22nd May from 1930 to 2100, myself and another E2k member sat through a Guardian Newspaper presentation given by Shaun Walker and two others discussing Russian actions, using illegals, why and well as contracting the work out. It was notable that the Russian Journalist there was under a death threat and was spirited in as quickly as he was spirited out. Also enjoyable was heaving in a Wetherspoons, meeting with four ex-colleagues of my wife, having a decently cooked burger and a couple of pints apiece of wifebeater. After the talk we made our separate ways home. I missed the train at my station but with half an hour to wait for the next I enjoyed a top up pint. An excellent evening. Shaun Walker [on left] is the author of *Illegals*



A week later the pair of us attended the MI5 exhibition at the National Archive, Kew.



The day started well, but on the way to the station yours truly took a tumble deeply bruising my shoulder and hip; thankfully my implant wasn't damaged but the bruising is still making itself known as I type this.

The exhibition was good and definitely worth a visit. The trip to the Archive being easy. Simply go to Richmond by rail or underground, cross the road and catch R68 bus. Terminates at the archive which is just a few minutes walk away [or limp in my case].

The exhibits were good and more than adequately plotted MI5 from the early days, past 1950s and almost to the present day. Much was made of surveillance [Watchers] as well as the Portland spy ring. The exhibit of the Kroger's transmitter/receiver looked as though it had seen better days. I suggested it might have been dug up from the garden at 45 Cranley Gdns but revised that view, suggesting it fell out of a skip somewhere.

It's a pity because a much cleaner version, and with the fast Morse keyer, was available at the GCHQ: Top Secret Exhibition at the London science museum.



Robot 36 Camera



Kroger's Transmitter/Receiver

Propagation

Moving into June the propagation has been absolutely poor with major solar storms. QRN has dominated quite a few monitors although lightning too has appeared on the scene.

During my nightly round up on 5th June I was glad to note many more stations visible across 2 to 18MHz and a forecast of the magnetic field as 'Quiet.'

Other days sported Minor, Major and Strong descriptors of the almost continual storms us radio users have had to suffer.

Log strengths have been varied across the month and as one member said to me 'things can only get better!'

Finally:

It has become very hot. I get the local weather from Stansted Air Traffic Information on an old VHF air band radio and the highest temperature heard so far was 31C on the 21st. Just remembered, there is an espionage themed film called "Hot Enough For June", a phrase which a British agent, played by Dirk Bogarde, uses to identify his contact when he is sent on a mission to Czechoslovakia. Mustn't grumble, winter will be here soon enough, sun not up until 8 in the morning and down again before 4 in the afternoon. I've been expecting power cuts for the past few winters but so far it hasn't happened, largely because a considerable part of our - increasingly expensive - electricity comes from Europe by the under-sea cables but I think the electricity grid is becoming more vulnerable due to the ever increasing demand due to charging electric vehicles and the use of air-source heat pumps.

Much speculation in some quarters at the moment as to the likelihood of a forthcoming "false flag" event, such as a bomb outrage or a cyber attack causing a collapse of the grid which could be blamed on Russia/Iran/North Korea/China or any combination of the forgoing to give the Political Class a reason to put the country on a full "war footing and war economy" which they make no secret of wanting. Presumably that not only means conscription but also rationing of commodities such as food and motor fuel. That'll go down well with the Great British Public. The last time there was preparation for fuel rationing was in 1973 when supplies of oil from were threatened by yet another Middle East war;

I've still got a booklet of ration coupons somewhere from that era for "motor cycle not exceeding 250cc", you had to take your vehicle registration documents to a post office to receive your coupons which in the event were never required to be used. No doubt the regime for the coming rationing will be based on an "app" on your smart-phone.

[Please read 'New 'Home Guard' to protect UK from attacks' in the newsrounds]

As regards the number station scene, perhaps the most noteworthy observation was some activity from M23 CW, with much repetition of content on three different frequencies at various times in May and early June.

Also, the Friday evening, UK time, S06 sent a message – which doesn't happen very frequently - on the fourth Friday in May.[PoSW]

Lost and Found Department [H-FD]

From Hans-Friedrich Dumrese

May 15, 06:43

New May frequencies for the following skeds:

* the E07 thu/sat 1000z (ex 1410z) sked: 17468, 16292, and 14876 kHz.

ID 428

* the M12 mon/fri 0800z (ex 0210z) sked: 13961, 12201, and 10597 kHz.

ID 925

* the XPA2 tue/thu 1700z (ex 1600z) sked: 19561, 18365, and 17468 kHz.

* the XPB1 mon/tue 0500z sked: 19554, 19054, 18054,

17454, 16354, and 15854 kHz.

The following E11 skeds have changed their frequencies for May-Aug season:

- * 0315z mon/wed ID 25# from 16125 to 18511 kHz
- * 0600z mon/wed ID 94# from 20170 to 21906 kHz
- * 0645z tue/thu ID 51# from 8091 to 11092 kHz
- * 0645z mon ID 41# from 7469 to 10508 kHz
- * 0720z thu/fri ID 43# from 6252 to 7984 kHz

The M12 sked fri/sat at 2100z (2200z in winter) had changed its April sked 7575/ 8175/ 9175 kHz ID 511 on 26. April to 10431/11075/? ID 401. The May sked, formerly on 10843/10243/ 9243 ID 822 hasn't been heard.

A new M12 sked has been found on Mon 1230/1250/1310z. First in April on 14377/13461/12114 kHz, now on 13386/12189/11491 kHz ID 725.

The S06 1./3. fri 1900/2000/2100z sked has maintained the 2024 sked in the summer season, too and has appeared 1900/2000z on 11149/9205 kHz with ID 842.

New June frequencies for the following skeds:

- * E07 thu/sat 1000z (ex 1410z): 17453/16137/14759 kHz. ID 417
- * M12 mon/fri 0800z (ex 0210z): 14382/13423/12194 kHz. ID 341
- * XPA2 tue/thu 1700z (ex 1600z): 18691/17452/16267 kHz.
- * XPB1 mon/tue 0500z : 19357/18357/17457/15957/14457/13457kHz.

The E11 sked tue/thu 0745z ID 22# has changed its frequency on May 20th for May-Aug season from 14940 to 20640 kHz.

The M12 sked at Mon 1230/1250/1310z on 13386/12189/11491 kHz ID 725 has been heard in June, too. Seems to be a fixed frequency sked throughout the year.

The M12 sked at mon/wed 1900/1920/1940z on 12162/11566/10711 kHz ID 546 has been heard in Mai and June only at Wednesdays. Seems to be a fixed frequency sked throughout the year.

The M12 sked fri/sat at 2100z (2200z in winter) had changed its April sked 7575/ 8175/ 9175 kHz ID 511 on 26. April to 10431/11075/? ID 401.

The May sked, formerly on 10843/10243/ 9243 kHz ID 822, hasn't been heard.

The sked was found in June on 17421/16141/15928 kHz ID 419 (ex 11144/10544/ 9344 kHz). Priyom reports the new May frequencies as 17458/16234/15814 kHz ID 428.

The sporadic S06 sked tue-thu 1325/1425z ID 583 hasn't been heard in October 2024 on 15674/12203 kHz, in March 2025 on 15643/12176 kHz, and now in June on 14768/11444 kHz. I think this sked is dead.

The 2nd sporadic S06 sked tue-thu 1500/1600z ID 387 hasn't been heard in November 2024 on 13397/ 9194 kHz, in March 2025 on 14913/10387 kHz, and now in June on 13944/11496 kHz. Last chance in September!

The XPA2 sked mon/wed 0910z has begun to change the frequencies. In June on 19489/18038/17453 kHz (x17417/15812/14504 kHz)

The XPA2 sked thu/sat 0910z has changed on May 17th to 0900z with new frequencies. In May the new frequencies were 20158/19246/18759 kHz (ex 14794/13994/12194 kHz), now in June 18182/17428/16321 kHz (ex 13527/12227/11427 kHz).

Thanks H-FD

Recommended Reading

War in the Smartphone Age; you'll never look at your smartphone in the same light again



War is never pretty! With RUSvsUKR an almost new facet of warfare was released to an interested public. The use of the drone; not the multi-million dollar Reapers adequately used in Afghanistan and other Middle Eastern theatres utilising satellite guidance, but a cheaper version providing First Person View.

This cheaper version, also used as a weapon delivery platform or to provide surveillance, controlled by and sometimes using the smartphone as a direct controller is technically advanced. I wondered if a SIM card like subscription was used? A MESH system, such as stated as a difficult choice to replace the UK's Airwave system and already being adequately used by certain private town security companies is already running, as is a highly integrated system in Ukraine.

In his book Matthew Ford more than adequately takes us across a mythical battlefield involving Russian and Ukraine troops whilst explaining 'news' release impacts with online/smartphone media vs that of an 'on the scene' reporter. Ford explains the need for clean signals (difficult to achieve in normal day to day environments) and their provision by cellular networks.

The hacking of Iraqi cellular systems is described and with the exploding pagers and walkie talkies, an Israeli innovation, one has to ask what's next or rather, whose system is next?

The tracking of a stealth jet using near field signal variation is an example; then we encounter control via the enemy 5G system.

Not missed is Israeli Unit 8200 along with their AI useage. Throughout the book Matthew Ford explains and demonstrates the smartphone, its supporting technology and peripherals as a major component of the eventual 'use' of the kill chain.

The content is not over technical; the title adequately describes the content but does not give a hint of the wide knowledge that will be imparted. An in-depth read will ensure the reader will never look at their Smartphone in the same fashion, the use of the 'internet of things' may well make them tremble more than the Tumble drier being programmed for the latest wash.

An excellent book, expertly written.

PB 30062025

News round up

Great Britain

Frederick Forsyth dies aged 86

Best-selling thriller novelist has died after a brief illness, his agent announced

India McTaggart

09 June 2025 5:41pm BST

<https://www.telegraph.co.uk/news/2025/06/09/frederick-forsyth-dies-age-86/>

A statement released by Curtis Brown, his literary agency, said that he died at home surrounded by his family after a brief illness.

The British author, who was one of the youngest ever RAF pilots and a former journalist, published more than 25 books.

His novels, which include *The Day of the Jackal*, have sold over 75 million copies.

Jonathan Lloyd, his agent, said: "We mourn the passing of one of the world's greatest thriller writers.

"Only a few weeks ago I sat with him as we watched a new and moving documentary of his life – *In My Own Words*, to be released later this year on BBC1 – and was reminded of an extraordinary life, well lived."

Mr Lloyd described how the author had used "his gift for languages in German, French and Russian" to become a foreign correspondent in Biafra.

"Appalled at what he saw and using his experience during a stint as a Secret Service agent, he wrote his first and perhaps most famous novel," the agent added.

That novel, *The Day of the Jackal*, was published in 1972 and propelled Forsyth to the status of a global bestselling author.

It has since been adapted into a film and more recently, a TV series starring Eddie Redmayne.

The popular novel remains the first and most enduring of his 16 thrillers and follows a hired assassin who targets Charles de Gaulle, the French president.

The TV adaptation marked the third to reach the screen, following one fronted by Edward Fox in 1973, and another that Forsyth disowns, with Bruce Willis in 1997.

Mr Lloyd said: "He will be greatly missed by his family, his friends, all of us at Curtis Brown and of course his millions of fans around the world - though his books will of course live on forever."

The acclaimed writer was only 17 years old when he joined the RAF and later, when he was a journalist, worked in Paris and East Berlin at the height of the Cold War.

He previously told The Telegraph that he had “good luck to be able to turn lots of that [experience] into books” but that he had “no lust to be 90”.

The Buckinghamshire-based author was also a regular letter writer to The Telegraph.

He wrote in the newspaper six years ago, when he was aged 80: “So, unless I go completely crazy, which I don’t intend to do, the rest of my days should be comfortable.

“As for the future, I may survive the next decade but I’ve no lust to be 90. I don’t know what I’d do, beyond what I’m doing nowadays, which is getting up in the morning, reading The Telegraph and the Mail and having all my prejudices reconfirmed, brewing up a cup of char and then going down the pub for lunch.”

Forsyth once said he had been lucky in life, but had ‘no lust to live to 90’ Credit: Geoff Pugh
Lee Child, a fellow thriller writer, previously described The Day of the Jackal as “the book that broke the mould”.

Mr Forsyth was long known – alongside his books – for his outspokenness on political matters as a Conservative, a supporter of Brexit and a defender of traditional values.

He disliked the “woke” agenda and cancel culture, saying in 2023 that he would be “horrificed” if they tried to make the TV adaptation of The Day of the Jackal “woke”.

“Touch wood, no one has yet called me out, saying my books are un-woke,” he told The Telegraph two years ago, adding: “Woke is stupid rather than sinful, but plain stupid.”

He also expressed disdain that JK Rowling was being attacked for her gender-critical views by the three former Harry Potter child stars that she was once close to.

He said he felt “particular anger on her behalf at the three young stars of the Harry Potter films – Daniel Radcliffe, Rupert Grint and Emma Watson – for disowning Rowling when she was attacked by trans activists”.

“These idiots were brought from nowhere to star in the films of her work and now they are against her. But without her, they’d be nowhere,” he added.

For two decades, until his 85th birthday, Forsyth shared his views through a weekly column in the Daily Express. He retired from writing thrillers in 2018.

His wife of 30 years, Sandy, died last year after a four-year decline in her health. She was his second wife after Carrie, the mother of his two sons, Stuart and Shane, who are both now in their 40s.

In 2023, he said: “Among the sadnesses in my life is that my two sons emigrated. One lives in Sweden with his wife and three children, and the other in Ibiza with his wife and my fourth grandchild.”

Forsyth’s other bestsellers include The Odessa File, The Dogs of War, Icon and The Negotiator.

‘Legacy will entertain for years to come’

Bill Scott-Kerr, Forsyth’s publisher, wrote: “Transworld’s long relationship with Frederick Forsyth began in 1972 with the Corgi paperback publication of The Day of the Jackal.

“With its never-before-read ice-cool writing, iconic jacket and a protagonist for the ages, The Day of the Jackal was an instant bestseller across the world and immediately propelled Freddie into a globally successful career which would span the next fifty years across books, films and most recently television.”

Mr Scott-Kerr continued: “Having long held The Day of the Jackal as the blueprint of the modern thriller, I was honoured to become his editor for Avenger in 2002 and have remained so ever since.

“Working with Freddie has been one of the great pleasures of my professional life, perhaps never more so when he pulled back the curtain on his eventful life in his autobiography, The Outsider, one of the most entertaining and fascinating non-fiction books you could hope to read.”

He added that Forsyth’s journalistic background “brought a rigour and a metronomic efficiency to his working practice and his nose for and understanding of a great story kept his novels both thrillingly contemporary and fresh”.

“It was a joy and an education to watch him at work,” he continued. “Still read by millions across the world, Freddie’s thrillers define the genre and are still the benchmark to which contemporary writers aspire.

“He leaves behind a peerless legacy which will continue to excite and entertain for years to come.”

<https://www.telegraph.co.uk/news/2025/06/09/frederick-forsyth-dies-age-86/>

Simon Mann, mercenary who was jailed for leading an attempted coup in Equatorial Guinea Old schoolmates recalled that at Eton he was always planning African coups at the back of the class

Telegraph Obituaries

Obituary, Equatorial Guinea, Special Air Service (SAS)

09 May 2025 2:14pm BST

<https://www.telegraph.co.uk/obituaries/2025/05/09/simon-mann-mercenary-coup-equatorial-guinea-died-obituary/>

Simon Mann, who has died aged 72, was an Old Etonian, former SAS officer and soldier of fortune who made millions from providing mercenaries to protect diamond mines and oil refineries in Africa; in 2004, however, he bit off more than he could chew when he became involved in an alleged plot to overthrow the government of Equatorial Guinea.

The plot went disastrously wrong when Mann and 67 fellow mercenaries – mostly old sweats from Apartheid-era South Africa’s bush wars – were arrested by Zimbabwean security forces at Harare airport, where they had touched down in order to take on a consignment of arms. Mann claimed that they were on their way to protect diamond interests in the neighbouring Democratic Republic of Congo. But they were accused of setting out to overthrow Equatorial Guinea’s tyrannical president Teodoro Obiang Nguema.

The story of the alleged coup contained more implausible characters and plot twists than an airport paperback thriller. There was an African dictator who allegedly enjoyed feasting on human testicles, there was the promise of liquid gold – offshore oil reserves that promised to make millions for those daring enough to seize them; there were walk-on roles for mercenaries, business tycoons, the disgraced peer Jeffrey Archer, exiled politicians and Baroness Thatcher’s son, Mark.

At the centre of everything was Mann, maverick scion of the Watney’s brewing empire who seemed to be a throwback to the days of Cecil Rhodes, when white buccaneers toppled governments and ran private fiefdoms. The adventures on which Mann embarked would lead him, eventually, to a foetid cell in Harare’s notorious Chikurubi prison, from which he was extradited in secret in February 2008 to Equatorial Guinea, where he was incarcerated in the infamous Black Beach jail.

In November 2009 President Obiang granted Mann a complete pardon on humanitarian grounds.

Simon Mann was born on June 26 1952. His father, George Mann, was a former Guards officer who captained the England cricket team on their 1948-49 tour of the Cape (Simon’s grandfather had also been England cricket captain). Described by the cricketer’s bible Wisden as a “forceful batsman, prone to hitting hard”, he later became chairman of Watney’s.

Simon followed his father and grandfather to Eton, where he bucked the family trend by preferring rowing to cricket and, according to one friend, was always planning African coups at the back of the class; he was always known as “Maps Mann” because he always had maps in his hand.

Lacking academic ability, he sought an outlet for his daredevil instincts in the Army. After training as an officer at Sandhurst he took a commission in the Scots Guards and did a three-year stint as a troop commander in G Squadron of 22 SAS. Returning to the regular Army, he completed a tour of Northern Ireland and had postings in Cyprus, Germany, Norway, Canada and central America.

In the mid-1980s Mann left the Army to go into “business”, the precise nature of which remained a mystery even to some of his closest relatives. After a stint selling computer software he moved into the security business, providing bodyguards to wealthy Arabs to protect their Scottish estates from poachers, before briefly getting back into uniform in 1990 to serve on British Gulf war com

In 1993 he set up Executive Outcomes with the entrepreneur Tony Buckingham. A mercenary outfit, it made a fortune protecting oil installations from rebels in Angola’s civil war and training Angolan government troops. Two years later he established an offshoot, Sandline International, with a fellow former Guardsman, Lt-Col Tim Spicer, and shipped arms to Sierra Leone in apparent contravention of a UN embargo.

With an estimated £10 million in the bank, Mann bought Inchmery, a former residence of the Rothschild family on the banks of the river Beaulieu in Hampshire, together with a Cape Dutch gabled house in Constantia, a secluded suburb of Cape Town whose inhabitants at one time included Earl Spencer and Sir Mark Thatcher.

There, he and his third wife, Amanda, became well-known figures on the Cape social scene. As well as meeting Baroness Thatcher at a party thrown by Mark, in a rare foray into the public domain Mann agreed to play the part of Colonel Derek Wilford, commander of the paratroopers who fired on marchers in Derry, in a 2001 television reconstruction of Bloody Sunday.

The story of the alleged coup plot emerged from “confessions” made in prison by Mann and his alleged co-conspirator Nick du Toit, a former South African special officer and member of Executive Outcomes, who had been arrested a day after Mann in the Equatorial Guinea capital Malabo.

In his testimony Mann said that he had been approached in 2003 by the Chelsea-based Lebanese oil tycoon, Ely Calil, who had made his fortune trading oil in Nigeria and was a friend of Severo Moto Nsá, self-styled president of the Equatorial Guinean government-in-exile. Moto had long sought the overthrow of President Obiang, and at a subsequent secret meeting in Spain the three men allegedly hatched a plot to bring about the tyrant’s downfall.

It was claimed that the three men struck a deal under which Calil and Mann would arrange to put Moto in power in return for a lump-sum payment of \$16 million. Mann would also get the rights to supply Guinea’s future security needs and Calil would become the country’s chief oil broker.

With the deal concluded, Mann and Calil were alleged to have set about raising the money needed to pay for the operation. The basic deal was that 10 investors would each contribute £100,000. In return they would share £15 million between them on the coup’s completion, with the hope of further dividends as the oil began to flow.

Du Toit was tasked with recruiting the 80 or so mercenaries needed and, from these, he would take a small advance guard to Guinea in the guise of being involved in a tourist business. Once they were installed, Mann would fly in under cover of darkness with the rest of the men. The president would be seized in his bed and Moto installed.

All began according to the alleged plan, and on March 7, with du Toit in Malabo, 64 mercenaries boarded an old Boeing 727 which Mann had bought for \$400,000, and took off for Harare from Wonderboom airport near Pretoria.

When the aircraft touched down at Harare airport, it taxied to the military sector, where those on board were expecting to link up with Mann and pick up their weaponry. Instead, Mann, the three flight crew and all 64 mercenaries on board were arrested and their weapons seized. The next day, du Toit and his 14-strong group were arrested in Malabo.

All those named by Mann and du Toit in their testimonies denied any involvement in the plot and claimed that the men had been tortured to make false statements, and Mann later claimed that his initial statements had been made under duress. Relatives of those arrested in Harare maintained that they had been on their way to Congo to guard diamond mines. It was noted that the small-scale and rather amateurish nature of the operation hardly suggested planning for a military coup.

But other evidence seemed to lend weight to the coup-plot theory. A South African telecoms tycoon, Gianfranco Cicogna, recalled being approached by Mann to invest \$120,000 in a “project” in Equatorial Guinea (he declined). Documentary evidence from one of Mann’s offshore companies, Logo Logistics, showed that a person by the name of JH Archer transferred £74,000 to the company just four days before the alleged coup attempt. “JH” are the initials of Lord Archer, a friend of Ely Calil. Archer’s lawyers denied that he had sent money and both he and Calil denied knowing of any coup plot.

The biggest fish to become entangled in the scandal was Baroness Thatcher’s son, Mark, who was alleged to have paid for a helicopter to fly Moto into Guinea on the night of the coup. His name entered the fray after an explosive but hilarious letter from Mann to his wife was intercepted by prison guards.

In the letter, written shortly after his arrest, Mann asked her to elicit the help of chums on the alleged plot's "wonga list" of financial supporters: "Our situation is not good and it is very URGENT," Mann wrote. "They [the lawyers] get no reply from Smelly [thought to be Ely Calil] and Scratcher [the nickname Mann used for Thatcher, on account of the acne he suffered while at school]..."

But Mann then went on to suggest that Scratcher's involvement amounted to more than using his contacts to lobby for their release. "It may be that getting us out comes down to a large splodge of wonga!" he wrote. "Of course investors did not think this would happen. Do they think they can be part of something like this with only upside potential – no hardship or risk of this going wrong? Anyone and everyone in this is in it – good times or bad. Now it's bad times and everyone has to f---ing well pull their full weight... Once we get into a real trial scenario we are f---ed."

He ended the letter with the words: "Anyway [another contact] was expecting project funds inwards to Logo from Scratcher... If there is not enough, then present investors must come up with more."

On July 22 2004 Mann was convicted in Zimbabwe on two counts of attempting to buy firearms illegally. He was sentenced to seven years, later reduced to four. Sir Mark Thatcher was arrested in August 2004 and given a four-year suspended prison term and a hefty fine after pleading guilty to breaking anti-mercenary legislation in South Africa by agreeing to finance the chartering of a helicopter, though he denied knowledge of the coup plot and maintained that his involvement had been unwitting.

Kept in solitary confinement at his own request, Mann was said to have endured torture and privation. In April 2007 he was said to be suffering multiple organ failure and had a life-threatening intestinal condition caused by poor diet. Hopes that the Zimbabwean courts would turn down any request for his extradition to Equatorial Guinea were dashed in May 2007 when, shortly after his release from jail, he was rearrested following a decision by a Harare court to reject defence arguments that he would not be given a fair trial in Guinea and was likely to be tortured.

After his extradition, in March 2008 he was allowed, or possibly encouraged, to give an interview to Channel 4 News in which he again fingered Ely Calil as the mastermind behind the "f***-up", said that Sir Mark Thatcher was "part of the team", but dismissed suggestions that Lord Archer or Peter Mandelson were involved.

Urbane, charming and apparently relaxed, despite the shackles and years of solitary confinement, Mann claimed not to have been put under pressure by the Equatorial Guinean authorities, though there were suspicions that he might have agreed to "spill the beans" in return for being spared the death penalty.

Simon Mann was married three times. His first two marriages were dissolved and he married thirdly, in 1995, Amanda Freedman, with whom he had four children. They survive him with three children of his earlier marriages.

Simon Mann, born June 26 1952, death announced May 9 2025

<https://www.telegraph.co.uk/obituaries/2025/05/09/simon-mann-mercenary-coup-equatorial-guinea-died-obituary/>

New 'Home Guard' to protect UK from attacks

Volunteer-led unit will be created to protect vital infrastructure from foreign threats as part of an extensive defence review

Tony Diver
Associate Political Editor
Related Topics
Ministry of Defence, Labour Party, British Army, Vladimir Putin, Russia
18 May 2025 11:42am BST

<https://www.telegraph.co.uk/politics/2025/05/18/new-home-guard-protect-uk-from-attacks/>

A new Second World War-style "Home Guard" will protect Britain's key infrastructure from foreign threats and terror attacks, under government plans.

A major defence review is expected to recommend that power plants, airports and telecoms hubs are defended by thousands of volunteers.

The new unit will be modelled on the Home Guard of the 1940s, which was formed of men too old or young to serve in the military. Their task was to defend Britain against the Nazis in case of a land invasion.

The new service is a central part of Labour's strategic defence review (SDR), the Sunday Times reported, and will seek to soothe Government concerns about the vulnerability of Britain's critical national infrastructure.

The Telegraph previously revealed that the Cabinet Office is drawing up contingency plans for a direct Russian attack on the UK, after it was discovered that an existing plan had not been updated for 20 years.

Officials fear that in case of a war with a hostile foreign state, Britain could be brought to its knees within weeks through attacks on power plants, transport sites, undersea cables and airports.

The Home Guard would be drawn from volunteers, and would see local hubs established around the country. The same system was famously satirised in the BBC comedy series Dad's Army.

A number of countries including Denmark, Germany and Sweden still operate a form of Home Guard.

Britain's plans are reportedly at an early stage, although some of the unit's volunteer troops may work with the Civil Nuclear Constabulary, which protects nuclear power plants.

Labour's SDR is the Government's first big reset of defence policy since last year's election. It is expected to set out the threats the UK faces and the capability that may be required to meet them.

John Healey, the Defence Secretary, is thought to have made the case for higher troop numbers, after staffing in the armed services fell to a historic low.

Address cyber and drone warfare
It will also address threats that have become more significant since the Conservative government's review in 2023, such as the rise in cyber and drone warfare amongst Britain's adversaries.

Sir Keir Starmer has pledged to bring defence spending to at least 2.5 per cent of GDP by 2027, although other Nato allies have gone further.

At a Nato summit in the Netherlands next month, Donald Trump is expected to make the case for even higher spending, possibly up to five per cent of GDP.

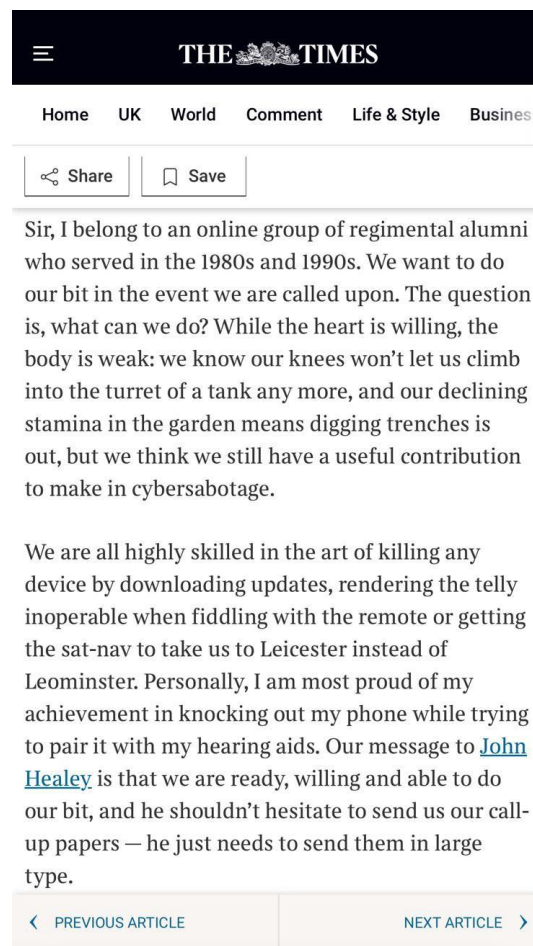
A Ministry of Defence spokesman said: "We will not be drawn into commenting on claims regarding the Strategic Defence Review ahead of publication.

"The UK's Strategic Defence Review sets out a path for the next decade to transform the armed forces to ensure we're prepared for emerging threats - making Britain secure at home and strong abroad while transforming defence to drive innovation and economic growth as part of our Plan for Change.

"We have also announced the biggest sustained increase in defence spending since the end of the Cold War, boosting funding to 2.5 per cent of GDP by 2027, an increase of £13.4 billion in cash terms, with an ambition to reach three per cent in the next parliament."

<https://www.telegraph.co.uk/politics/2025/05/18/new-home-guard-protect-uk-from-attacks/>

Now read the letter to 'The Times.' Probably an E2k member as well, describes most of us!:



Only 1980's & 90's? Some of us served earlier than that. The rise of the VI's again! [499 & 613 please note; plus, of course, those RAF types who can still do Chinese/Russian Morse at 35/40wpm]! Remember, if you're not sure of the character put down what you hear.

Alleged Iranian spies charged with targeting UK-based journalists

Daniel De Simone
BBC investigations correspondent
Kathryn Armstrong
BBC News
Published
17 May 2025

<https://www.bbc.co.uk/news/articles/c04eze3wv5go>

Three alleged Iranian spies have appeared in court charged with targeting UK-based journalists so that "serious violence" could be inflicted on them.

Mostafa Sepahvand, 39, Farhad Javadi Manesh, 44, and Shapoor Qalehali Khani Noori, 55, all from London, appeared in custody at Westminster Magistrates' Court.

They are accused of targeting individual journalists working for Iran International, an independent media organisation based in London.

The three defendants were granted temporary leave to remain in the UK after claiming asylum. They arrived in the UK between 2016 and 2022. Mr Sepahvand arrived in 2016 concealed in a lorry. The other two arrived in small boats.

The three men are charged with committing offences under the National Security Act between 2024 and this year. They were arrested two weeks ago.

They are charged with engaging in conduct likely to assist a foreign intelligence service, namely that of Iran, in carrying out UK-related activities and knew or ought to have reasonably known their conduct was likely to assist a foreign intelligence service.

"Iran must be held to account for its actions," Home Secretary Yvette Cooper said in a statement following Saturday's charges.

She added: "We must also strengthen our powers to protect our national security as we will not tolerate growing state threats on our soil."

Mr Sepahvand, of St John's Wood, London is also charged with engaging in surveillance, reconnaissance and open-source research with the intention of committing serious violence against a person in the UK.

Mr Manesh, of Kensal Rise, London and Mr Noori, of Ealing, London are also charged with engaging in surveillance and reconnaissance with the intention that serious violence against a person in the UK would be committed by others.

A fourth man, 31, was arrested on 9 May as part of the investigation but was released without charge on Thursday, police said.

It is alleged the three men carried out surveillance with a view to locating journalists associated with Iran International.

Iran International produces coverage that is critical of the current regime in Iran and has been proscribed in Iran as a terrorist organisation.

The three defendants appeared in the dock wearing grey tracksuits flanked by eight guards. Mr Sepahvand was in a wheelchair.

No pleas were indicated by the men. District Judge Annabel Pilling remanded them in custody to appear the Old Bailey on 6 June.

Cdr Dominic Murphy, from the Metropolitan Police's Counter Terrorism Command, said the "extremely serious" charges made on Saturday come follow "a very complex and fast-moving investigation".

He said detectives had been "working around the clock" since the men were arrested, and added that officers had been "in contact with the individuals directly affected".

Frank Ferguson, head of the CPS special crime and counter terrorism division, said: "It is extremely important that there should be no reporting, commentary or sharing of information online which could in any way prejudice these proceedings."

The arrest of the three men on 3 May came on the same day that five other Iranian men were detained in London, Swindon, Stockport, Rochdale and Manchester by police as part of a separate counter-terrorism investigation.

Four were released from custody on Saturday, with the fifth previously released on bail until an unspecified date in May. Cdr Murphy said "our investigation remains active and ongoing".

The police stressed that they were not treating the two investigations as linked.

<https://www.bbc.co.uk/news/articles/c04eze3wv5go>

Sky News published a headline suggesting these three came of a rubber boat! In 1939 HMG requested investigations into all refugees to find the Nazi spies they suspected were embedded in the refuges. !00% success without a computer in sight. Surely easier to track now?

The covert war waged against Iran on British streets: How MI5 are battling threat from rogue state in UK... and why Tehran is asserting more of its influence abroad

By RORY TINGLE, HOME AFFAIRS CORRESPONDENT and TOM COTTERILL and DAVID PATRIKARAKOS

Published: 14:26, 6 May 2025 | Updated: 14:49, 6 May 2025

<https://www.dailymail.co.uk/news/article-14682781/covert-war-waged-against-Iran-British-streets.html>

The arrests of seven Iranians in two major anti-terror operations over the weekend coincide with growing concern about the rogue state's activities on British soil.

A covert war is currently being waged by UK security forces to try to prevent Iran from targeting its enemies on our streets.

The shocking scale of this threat was made clear last year by MI5 director general Ken McCallum, who said spies and police had identified 20 credible Iranian plots to kill or kidnap people in the UK since 2022.

He suggested that Iran was trying to assert its influence further abroad in response to recent events in the Middle East, where Israeli attacks have decimated its proxies Hamas and Hezbollah.

His warning was echoed just weeks ago in Parliament by security minister Dan Jarvis, who said the Islamic Republic had become 'increasingly emboldened' to 'assert itself more aggressively' overseas as well as at home.

The SAS is believed to have joined counter-terror cops and MI5 on Saturday for a string of raids that led to the arrests of eight men, seven of whom were Iranian nationals.

Daniel Khalife, a former British soldier, was jailed for more than 14 years for spying for Iran. He is pictured after his arrest on a canal towpath in London on September 9, 2023

Five of the arrests in Rochdale and Swindon were part of a 'pre-planned' probe into an alleged plot to 'target a specific premises', according to the Met Police.

Meanwhile, a separate investigation by the Met's Counter Terrorism Command (CTC) saw three Iranian men arrested in London on the same day.

It's not clear who was behind the alleged terror plot foiled over the weekend, which insiders say was just hours away from being launched.

However, experts suggest it bears the hallmark of the Islamic Revolutionary Guard Corps (IRGC), Iran's international brigade of terror – specifically, the branch tasked with its foreign operations, the Quds Force.

The IRGC is a violent, Islamist-extremist organisation that was founded by acolytes of former Supreme Leader Ayatollah Khomeini to defend the Islamic Republic of Iran's core values.

It uses a mix of terror, extreme violence and ideological warfare to safeguard the Islamic Republic's revolution and target its enemies. It's been linked to kidnaps, assassinations and terror attacks.

Back in his November 2022 annual threat update, Mr McCallum was referring to the IRGC when he described a severe threat from Iran's 'aggressive intelligence services' to kidnap or kill UK-based people.

Just a few months later, in January 2023, the House of Commons unanimously passed a motion calling on the UK government to finally proscribe the IRGC as a terrorist organisation.

Yet that Commons motion was not binding and so the IRGC remains unproscribed, not only in the UK but, staggeringly, across Europe.

Ali Ansari, professor in modern history at the University of St Andrews, told the Mail: 'Saturday's arrests are a very worrying development and a clear sign that Iran's threat to UK citizens is more than rhetorical.'

In March of last year, Iranian-British journalist Pouria Zeraati was stabbed four times outside his Wimbledon home.

The attack was allegedly carried out by Eastern European gangsters hired by the Iranians - who were able to flee the country just hours later.

It came shortly after Britain imposed new sanctions on members of an IRGC unit that had tried to assassinate two presenters of Iran International, a UK-based TV channel that is critical of the Tehran regime.

Iran International TV said it had 'reluctantly' decided to close its London studios in response to advice from the Met Police.

The Islamic Republic is ideologically geared to oppose the West and to export its Shia Revolution – with the IRGC expected to wage both military and political warfare.

Last November, sources revealed to the Mail how the German-Iranian leader of a Hells Angels biker gang had allegedly been recruited by Iran to carry out terror attacks.

Ramin Yektaparast, a brutal thug and unashamed anti-Semite with a tattoo of Adolf Hitler on his arm, is suspected of numerous crimes, including planning attacks on synagogues in Germany in November 2022.

The raids reportedly saw shots being fired and a Molotov cocktail thrown at synagogues in the cities of Essen and Bochum.

Western intelligence sources have reportedly grilled Yektaparast in Iran over his alleged links to the Iranian regime.

During his covert interrogation with intelligence officers, he described the history of his ties with Quds Force - the foreign operations branch of Iran's Revolutionary Guard.

He provided details of his handlers and of the targets. The accurate information he relayed facilitated the disruption of several terror attacks in Europe.'

Yektaparast was the brain and brawn behind two terror attacks mounted by the Quds Force in Germany in 2022, as well as dozens of other foiled attacks in Europe.

He fled to Iran before he was due to stand trial in 2021 for the murder and dismemberment of another biker gang member in 2014.

He was later assassinated by Israel's elite Mossad special operations group last year.

However, before his death, the Quds Force had approached him due to 'his reputation as a cruel gang leader with an extensive network of ties in Europe'.

The Iranians liked this thug's willingness to 'mount any type of terror attack that Quds Force asked of him'. He was passed onto Quds Force Unit 840, described to me as the regime's 'terror export' unit.

Yektaparast knew criminals in about 50 countries, many of them Mafia members. In 2023, he had begun working with gangs in Morocco and Poland as well as bringing members of these gangs to Iran. Most Mafia members have no ideology beyond making money, Yektaparast explained to his questioners in Iran. But the German and Polish mafia are different: they're raised to hate Jews.

He knew the Quds Force had flagged him as a good candidate for recruitment due to his openly anti-Semitic beliefs. His handlers were keen to exploit those ugly convictions and 'presented their anti-Semitic stances to him, noting that the Jews are the cause of all his troubles'.

From there, it was a rapid immersion into the world of the Quds Force, which quickly began to shower him with money. On several occasions, Yektaparast was paid with dollar-stuffed suitcases: for the German synagogue attacks he received \$5 million.

Contact was regular, and in multiple locations, including at the Quds Force's HQ in the Afsariyeh neighbourhood of south-east Tehran, as well as in restaurants, cars and elsewhere.

He began working with their operatives – these ranged from soldiers and killers of ruthless efficacy to Hamid, a 'short fat bully' responsible for arranging the entry and exit of assets to and from Iran.

Police are now questioning four men 'on suspicion of preparation of a terrorist act' after co-ordinated raids on addresses in west London, Rochdale, Swindon, Manchester and Stockport on Saturday evening. Pictured: Police in Rochdale following the counter terrorism raid

Among Yektaparast's key contacts was a man named 'Sayeed' (in reality Mohsen Bozorgi from Unit 840). Through him, Yektaparast began to understand how the Quds Force worked.

Yektaparast was not always impressed with the Quds Force. He believed most of the terror activities abroad were carried out not by Quds Force operatives but by paid agents like him.

As well as being linked to alleged terror plots, Iranian forces have also tried to recruit spies in the British military.

Among them includes Daniel Khalife - a 'hapless' young soldier who was jailed in February for 14 years and three months for espionage.

The 23-year-old was caught spying for Iran before then fleeing prison by clinging to the bottom of a food truck - before again being caught by the authorities.

He claimed to have been on a one-man 'double agent' mission but was labelled an 'attention seeker' by a judge when he was sentenced at Woolwich Crown Court in London.

Judge Mrs Justice Cheema-Grubb said Khalife - who was ignored when he contacted MI6 and MI5 in his attempts to become a double agent - had been motivated by 'a selfish desire to show off' and described him as 'a dangerous fool'.

While acting as a spy, Khalife 'exposed military personnel to serious harm' by collecting sensitive information and passing it to agents of Iran. He was paid in cash and told handlers he would stay in the military for 25-plus years for them.

Former soldier Daniel Khalife was jailed for spying for Iran and escaping from prison

In September 2023, Khalife escaped from category B prison HMP Wandsworth in South West London by clinging to the underside of a food delivery truck. He was caught on a canal towpath by a plainclothes detective days later after a major search.

Prosecutors in his trial said Khalife played 'a cynical game', claiming he wanted a career as a double agent to help the British intelligence services, when in fact he gathered 'a very large body of restricted and classified material'.

Khalife was sentenced to six years for committing an act prejudicial to the safety or interests of the state, and another six years - consisting of five years in prison and one on licence - for eliciting information about members of the armed forces. The judge also passed a sentence of two years and three months for the jail break.

Last November, jurors at Woolwich Crown Court found that Khalife had breached the Official Secrets Act and the Terrorism Act. He was cleared of carrying out a bomb hoax and had already admitted during his trial to escaping from Wandsworth prison.

But it's not just military personnel allegedly in the sights of Iranian spies - British Muslims and Jewish civilians are also being recruited, intelligence sources have claimed.

Recruiters from the feared IRGC approach British Shias visiting religious sites in Iran and Iraq.

They are told to return to the UK and gather information on prominent British Jews or targets such as synagogues, Israeli and British officials have separately told the Mail.

Some spy on British-based Iranian dissidents, whom the Tehran regime accuses of fomenting unrest back home.

Last year, an Israeli official said that since Hamas's October 7 massacre, they had given a higher-than-usual number of warnings to the UK, alerting this country to potential attacks by Iranians or their proxies.

A source said: 'We do not know the scale of Iranian agents inside Europe and the UK , but all it takes is for one to slip through the net.'

Experts have also warned that some Iranians who come to study at British universities as international students on state scholarships are also spies.

Kasra Aarabi, of the United Against Nuclear Iran think-tank, said IRGC recruiters did not focus on hiring British Iranians, who are usually secular and oppose the Ayatollah regime. But British Shias who originated from Pakistan, Iraq and Lebanon were targeted at the Arbreen festival in the holy Iraqi city of Karbala, which attracts up to 20 million pilgrims a year.

Most British Muslims belong to the Sunni sect of Islam. But it is estimated there are up to 400,000 Muslims who belong to the Shia sect, which is the state religion of Iran and sees itself as the protector of Shias across the world.

A Whitehall source said when the IRGC wanted to assassinate or kidnap anyone on UK soil, it often used British-based organised criminal networks.

But information gathered by British spies may be used to carry out the attacks, one source said, adding: 'The reason why the IRGC uses organised criminal networks to carry out the work here is because thankfully it is very difficult for Iranian spies to operate on British soil.'

The IRGC is a violent, Islamist-extremist organisation that was founded by acolytes of former Supreme Leader Ayatollah Khomeini (pictured) to defend the Islamic Republic of Iran's core values

The regime has targeted Iran International – a Farsi-language channel based in Chiswick, west London – accusing it of fomenting protests and demonstrations at home, especially after the death of student Mahsa Amini in September 2022.

Ms Amini was violently assaulted by the country's morality police for not wearing her headscarf correctly, and later died in hospital, sparking protests across the globe.

A British-based people smuggler-turned-informant was paid almost £200,000 by the IRGC to assassinate two British journalists who worked for the channel.

The Government has sanctioned five individuals linked to the attempted assassinations.

In December, Chechen criminal Magomed-Husejn Dovtaev, 31, was jailed for three years after being found guilty of spying on the headquarters of Iran International in order to carry out a terror attack.

Counter-terrorism police said Dovtaev belonged to a European organised criminal network which was hired to carry out the attack..

MI5 and counter-terror police say that since the start of 2022, the Iranian regime has tried to kill or harm at least 15 British-based Iranian dissidents, sometimes publicly calling for their murders.

And the IRGC has also been accused of sending an Iranian couple to Sweden in 2015, using the cover of Afghan asylum seekers.

MI5 Director General Ken McCallum said that there was a severe threat from Iran's aggressive intelligence services to kidnap or kill UK-based people

The couple lived in the country as a 'sleeper cell' until 2021 when they were activated to apparently assassinate three prominent Jews. But they were arrested by security services.

Last year, it was reported that the Islamic College, a Shia educational institution based in Willesden Green, north-west London, had strong links to the Al-Mustafa University in Iran and sent students to its campus in the country.

Islamic College principal Dr Isa Jahangir was reported as the 'representative' of Al-Mustafa in the UK on pro-Iranian news websites. Al-Mustafa was sanctioned by the US Treasury for being a recruiting ground for the IRGC.

The college said at the time that claims of its links and that of Dr Jahangir to Al-Mustafa were 'unfounded'.

Terrorism expert Professor Anthony Glees said: 'This is a serious threat that needs to be addressed. IRGC is behind Hamas and the Houthis, and it is also running these spying networks here. British Iranians need to be very careful when they go back to Iran.'

The Home Office has previously said: 'The UK will always stand up to threats from foreign nations. We continually assess potential threats.'

<https://www.dailymail.co.uk/news/article-14682781/covert-war-waged-against-Iran-British-streets.html>

Man spends 50 years recreating The Thing spy bug

BBC News, Buckinghamshire

Published

17 May 2025

<https://www.bbc.co.uk/news/articles/cx2jnz9xenjo>

A specialist in counter surveillance who spent 50 years recreating a "totally unique" 1940s covert listening device has had a documentary made about his life's work.

It was in the 1970s that John Little first learnt about The Thing - a gadget that had been hidden in a hand-carved ceremonial seal that the then-USSR had given to the US in 1945.

The 79-year-old said he was so "fascinated" by it that he became determined to make a new version of the bug, which had no wires or batteries and had passed unnoticed in the office of the US ambassador in Moscow.

The documentary, called The Thing, will preview at the National Museum of Computing, at Bletchley Park, Buckinghamshire, on Saturday.

Mr Little used to be a telephone engineer from Lowestoft in Suffolk before he moved to Bletchley Park and he still lives in the Milton Keynes area.

He said he had his 56 years of experience in technical surveillance counter measures (TSCM), said he was first introduced to The Thing in 1975 when he worked for the British Foreign Office, and was on a radio monitoring course.

In 1945, a large wooden seal was presented to the US ambassador, Averell Harriman, and it stayed on his embassy office in the Russian capital for seven years, listening to his conversations.

"I was fascinated. It's totally unique and I was determined I was going to make one of those and make it work, and I did... but it took a long while," Mr Little said.

"It was like no other surveillance device and even today it's looked at as a work of absolute genius."

The original was made by the Russian inventor, Leon Theremin, who also created the musical instrument the theremin, which could be played without being touched - creating an eerie sound.

Emily Barnard, a partner of St Albans based Omph Creative, who made the film with Ben Killner, said Mr Little's work was "mind blowing".

"It was going to be a short video to put on YouTube, but we just realised how momentous this was and a documentary story needed to be told."

She said the device was called The Thing because no-one knew what it was, how it worked and it led to "scandal, espionage and political wrangling on a global scale".

"John is very humble, but he's also a genius like Leon Theremin," she said.

"Sometimes technology doesn't need to be complex; it needs to be simple and clever and go under the radar and not be noticed."

John Little said he was so fascinated by The Thing, he had to work out how to make one of his own

Mr Little said that after working on The Thing recreation, he started on "the 2024 version".

"This one incorporates internet, 4G, sat-phone technology, which gives us the ability to remote control the system so now it has a range of 12,500 miles - half way round the Earth," he said.

"I'm sure if Leon was still alive he would do that."

He said his work was only possible due to a team of about 10 people, including Greg Williams and John Carter.

"You can't retire from this," he added.

The film's premiere sold out within 48 hours and another screening was being planned for 27 September, Ms Barnard added.

<https://www.bbc.co.uk/news/articles/cx2jnz9xenjo>

Interesting YouTube vdo : [The "Thing" The Great Seal Bug.](#)

Russian honeytrap spy 'did it for love' Bulgarian beautician 'slipped into criminality' under the influence of her agent lover

Neil Johnston

Related Topics

Espionage, Russia, Court cases

12 May 2025 5:44pm BST

<https://www.telegraph.co.uk/news/2025/05/12/russian-spy-ringleader-jailed-for-nearly-11-years/>

A Russian honeytrap spy was "besotted" with a fellow agent and would never have been involved in the plot were it not for him, a court has heard.

Vanya Gaberova, a 30-year-old Bulgarian beautician, was part of a spy ring that targeted people and places of interest to the Russian state over three years.

Giving her mitigation ahead of sentencing, her barrister said how she "slipped into criminality" under the influence of Biser Dzhambazov, her spy lover.

Orlin Roussev, 47, who led the spy ring from a rundown guest house on the east coast of England, was sentenced to 10 years and eight months on Monday.

He had admitted his role along with Dzhambazov, 44, the second-in-command who was jailed for 10 years and two months and Ivan Stoyanov, 33, who was handed five years and three weeks in prison.

Mr Justice Hilliard jailed Ivanova, of Harrow, north-west London, for nine years and eight months, saying she had "thrown in" her lot with her partner Dzhambazov and become an "enthusiastic" participant.

Ivanchev, of Acton, west London, was sentenced to eight years in prison.

Gaberova, of Euston, north London, was jailed for six years, eight months and three weeks, having found spying for Russia to be "exciting and glamorous", the judge said.

Anthony Metzer KC said Gaberova case was "tragic" as she would never have got involved but for her infatuation with Dzhambazov, who had falsely claimed to have cancer and be working for Interpol while retaining his relationship with partner Ivanova.

He told the court: "We say she was controlled, coerced into this conspiracy by Mr Dzhambazov.

"She fell in love with him and continued on her evidence to have feelings for him, not only on the date of her arrest but continued to have feelings for him even as she gave evidence, even though she was shocked, appalled and manipulated by him."

In a televised sentencing, Mr Justice Hilliard commended officers for their "extremely thorough and determined investigative work".

He noted the defendants were "motivated by money" and lived "very comfortably" on the substantial sums they were paid.

Victims targeted by the spy ring were forced to enhance their security, the judge said.

He said the risk to them was obvious and Roussev would have been aware of the "extreme actions" Russia had taken against those it regarded as an "enemy" of the state.

Using the UK as a base to plan spy operations against the safety and interests of the nation was a "very serious offence", Mr Justice Hilliard added.

The court had heard that the spies were directed by alleged Russian agent Jan Marsalek, 44, an Austrian businessman wanted by Interpol after the collapse of German payment processing firm Wirecard.

Marsalek acted as a go-between for Russian intelligence and Roussev, who led the operation from a former guest house in Great Yarmouth, Norfolk.

When police moved to arrest the spies in February 2023, they found Dzhambazov naked in bed with his lover Gaberova in Euston, rather than at home with his partner Ivanova.

Police pieced together six operations dating back to August 2020 from more than 100,000 Telegram messages on Roussev's phone in which he and Marsalek made light of their dangerous plans.

In the chat, Roussev was referred to as Jackie Chan, Dzhambazov went by Mad Max and Jean-Claude Van Damme, and referred to his spies as The Minions.

The spy ring is believed to have been one of the "largest and most complex" enemy operations to be uncovered on UK soil.

The network engaged in a series of surveillance and intelligence operations targeting people and places of interest to the Russian state.

The defendants' spy activities ranged between the UK, Austria, Spain, Germany and Montenegro.

They discussed deploying "lashes queen" Gaberova as a honeytrap to snare a high-profile journalist, dropped 100 litres of pigs' blood on the Kazakhstan embassy in London by drone, and kidnapped a man in the UK.

Kit to make and test counterfeit identity documents was recovered from Roussev's address, with a stash of fake passports also found at the one-bedroom flat in Harrow that Ivanova and Dzhambazov shared.

After his arrest, Roussev initially denied spying for Russia, telling police: "No James Bond activity on my end, I guarantee you."

Mr Justice Hilliard made a confiscation order for Roussev to pay £180,768 in ill-gotten gains.

Commander Dominic Murphy, the head of Scotland Yard's Counter Terrorism Command, said: "The investigation team worked incredibly hard to piece together a complex and wide-ranging conspiracy that I would describe as espionage on an industrial scale.

"The significant jail sentences handed to the group reflect the serious threat they posed to the safety and interests of the UK, as well as targets across Europe.

"This case is a clear example of the increasing amount of state threat casework we are dealing with in the UK. It also highlights a relatively new phenomenon whereby espionage is being 'outsourced' by certain states.

"Regardless of the form the threat takes, this investigation shows that we will take action to identify and disrupt any such activity that puts UK national security and the safety of the public at risk."

On Monday Dan Jarvis, the security minister, called the jailing of the spies "a clear warning" to anyone seeking to threaten the UK.

"These substantial sentences should send a clear warning to anyone seeking to threaten our security, harm the UK and compromise the safety of the public," he said.

"This case is a stark reminder of the increasingly complex threat we face from hostile states who wish to undermine us and why national security is a foundation of our plan for change.

"We will use the full range of tools and powers available to us to detect, disrupt and deter malicious acts from hostile states and protect the public.

"I am especially grateful for the work of our world-leading law enforcement partners and the Crown Prosecution Service for disrupting this threat and bringing these individuals to justice."

<https://www.telegraph.co.uk/news/2025/05/12/russian-spy-ringleader-jailed-for-nearly-11-years/>

"I'm easily led, drunk at the time and didn't know what I was doing!"

Ireland

Government awards contract to French company to develop sonar system

Updated / Sunday, 15 Jun 2025 12:10

By Jackie Fox

<https://www.rte.ie/news/ireland/2025/0615/1518526-sonar-system-defence/>

A Government contract worth tens of millions of euro has been awarded to a French defence technology company to develop a new sonar system for Ireland.

The towed sonar capability, when attached to an Irish naval vessel, will assist the Defence Forces with monitoring subsea areas in Ireland's Exclusive Economic Zone.

It will help efforts to protect undersea communication cables and energy infrastructure, and also could assist in detecting illegal fishing, drug trafficking, terrorism and espionage in the future.

The system is part of a wider project to boost maritime surveillance due to growing threats.

The exclusive contract is with Thales DMS France, a company which specialises in advanced technologies in defence and security.

The new sonar system is set to be operational in 2027.

Tánaiste and Minister for Defence Simon Harris said the investment will provide the Naval Service with a "state-of-the-art system, which will enable it to build a picture of our subsea".

"It will serve as an important first step in creating a 'pattern of life' in the subsea domain, with future projects further enhancing this capability," he said.

Thales DMS France is currently leading a major European defence initiative that aims to strengthen the continent's capabilities in anti-submarine and seabed warfare.

The SEACURE project is utilising a combination of air, surface, and underwater drones to detect and track underwater threats in challenging environments.

However, there are worries about who will operate the new capabilities due to recruitment and retention problems within the Defence Forces, including the Irish Navy.

Just one, or two, of the six vessel fleet can be out at sea due to staffing shortages.

"Given the enhanced development of the blue economy and the exclusive economic zone that Ireland has, there's huge opportunity for delivery in terms of enhanced maritime security awareness. So the people are absolutely crucial, we don't want a stranded asset," said Marie Gleeson, Retired Lieutenant Commander with the Irish Navy.

She said it is a really "positive step forward" in terms of enhancing the navy's ability to patrol Ireland's maritime domain.

"When I was a ship's captain, you patrolled very regularly, you want to maintain a presence in this really important area and not having the ability to see what was happening underneath the surface of the ocean was a restraint in some respects. I think it is hugely important from a strategic defence capability that we have the capacity to deploy towed sonar," she added.

Ireland has one of the largest maritime Exclusive Economic Zones (EEZ) in the European Union.

There are extensive undersea cables, sea fishing and energy production capacity and infrastructure in the waters.

One of the biggest concerns is the safeguarding of these undersea cables, which keep everything from banking systems to TikTok operating.

Marine expert and consultant John Paul Kearns said the introduction of the new sonar system is a long time coming.

"Once we develop our offshore wind we will have lots of pipelines and cables coming ashore and that infrastructure needs to be protected, monitored and surveyed all the time. Using this sonar, and companies like Thales, and hopefully bringing it back in-house into Ireland, we can actually manage and monitor all of that," he said.

"The reason we need to monitor it is we need to ensure that for one it's not being damaged in a mischievous or malevolent way. We have to make sure it's not damaged through storm damage. We have to make sure we can survey it ... because if you think of it... ten times the size of Ireland, underwater, is most of where the threat lies for the future," he said.

In October 2024, then tánaiste Micheál Martin said there was a "risk" of sea cables being sabotaged following increased activity by the Russian navy and associated Russian merchant ships off the south and west coast of Ireland over the past number of years.

The location of these vessels has raised concerns that undersea cables are being mapped.

RTÉ News also reported in April that Minister for the Environment Darragh O'Brien was warned that damage to Ireland's subsea gas interconnectors would have a catastrophic impact on the country's energy supply.

Briefing papers and studies on energy security to the minister said that Ireland is highly vulnerable to the impact of gas supply disruptions and notes that a Russian naval vessel loitered over the Gas Networks Ireland subsea interconnector last November.

Russia has denied that the presence of its military ships off the south, southwest and west coast of Ireland represents a threat.

It comes as a public consultation on Ireland's first ever maritime security strategy was launched last week.

The new strategy plans to map out Ireland's approach to maritime security and intends to look at how to deal and address emerging threats, vulnerabilities and protecting subsea infrastructure.

A new maritime security unit was set up last year at the Department of Defence to look at ways to address maritime threats and risks to Ireland.

Dr Margaret Stanley, who previously led the Office of Emergency Planning in the Defence Department and worked on peacekeeping matters at the United Nations in New York, was appointed to head the unit.

Ireland's first maritime security strategy is expected to be published before the end of the year.

<https://www.rte.ie/news/ireland/2025/0615/1518526-sonar-system-defence/>

Thanks AnonNI

Russia

Russian vessel attacked off Mozambique coast: What we know so far

Author: Bohdan Babaiev

<https://newsukraine.rbc.ua/news/russian-vessel-attacked-off-mozambique-coast-1748093560.html>

The Government of Mozambique announced the start of an investigation into a possible attack on the Russian oceanographic vessel Atlantis. The incident occurred on May 10 near the country's northern coast, informs the Club of Mozambique.

"At this moment, the investigations are ongoing and as soon as there are concrete results and we confirm what happened, the government will, with full transparency, provide clarifications to the public and the international community," said government spokesman Inocêncio Impissa.

The attack reportedly targeted the Russian vessel, a fact confirmed on May 16 by an official source at the Russian Embassy in Maputo.

According to the source, the 62-meter ship was conducting marine research and was returning to Maputo when the attack occurred around 3 PM local time on May 10. The assault happened more than three miles off the coast of Tambuzi Island in the Quirimbas archipelago.

"It was attacked by two unknown vessels, which did not make contact with the ship, but opened fire on it," the source explained.

Impissa told journalists that the government has not yet received an official report from the Russian Embassy about the incident. However, he added that Mozambique is already investigating the possibility of an attack. He stressed the government's commitment to security in its territorial waters.

"The Defence and Security Forces are already closely monitoring the information released and broadcast through the media and have opened an investigation process to determine with the utmost rigor the veracity of the facts of the attack and the circumstances," Impissa said.

He also emphasized that Mozambique is treating this matter seriously and cautiously.

Local sources are already linking the incident to attacks by terrorist groups operating in the region. If confirmed, this would be the first case of this kind.

Earlier, Polish Prime Minister Donald Tusk reported that a Russian ship from the shadow fleet was conducting suspicious maneuvers near an electric cable connecting Poland and Sweden.

Additionally, Ukraine's Defense Intelligence reported that the Russian shadow fleet now numbers up to 1,000 vessels, mostly outdated. Their total deadweight exceeds 100 million tons. These ships are involved in exporting oil and oil products.

<https://newsukraine.rbc.ua/news/russian-vessel-attacked-off-mozambique-coast-1748093560.html>

Russian research vessel attacked by unidentified gunmen off African coast in early May

No one onboard was hurt

<https://tass.com/politics/1962833>

HARARE, May 23. /TASS/. Russian research vessel Atlantida was attacked by unidentified gunmen in the Indian Ocean off the coast of Mozambique on May 10, Polina Zhukova, a spokesperson for the Russian embassy in Mozambique, told TASS.

"Unidentified persons opened fire at the Russian research vessel Atlantida off the coast of Mozambique in the Indian Ocean," she said. "No one onboard was hurt. The ship itself sustained minor damage. Following the incident, the vessel called at the port of Maputo and then proceeded to South Africa's Durban."

Mozambique's government spokesman Innocencio Impissa said on Friday that the government was investigating the attack on the Russian ship Atlantida off the Cabo Delgado province in the northeast of the country. "We are conducting a probe," the Lusa agency quoted him as saying. "As soon as we receive concrete results, we will inform you what happened. The government will give transparent explanations to the public and international community."

The ship's research team of Russian and Mozambique specialists conducted joint marine biomass research in Mozambique's waters as part of large-scale research in economic zones of Northwest African countries and the western part of the Indian Ocean in 2024-2026.

<https://tass.com/politics/1962833>

Sweden

Swedish senior diplomat arrested on suspicion of spying, say reports Security service investigating if there is a link with sudden resignation of national security adviser

Miranda Bryant Nordic correspondent, and agencies
Tue 13 May 2025 19.25 BST

https://www.theguardian.com/world/2025/may/13/swedish-senior-diplomat-arrested-on-suspicion-of-spying-say-reports?CMP=Share_AndroidApp_Other

A senior Swedish diplomat has been arrested on suspicion of espionage, as the security services investigate a potential link to the sudden resignation last week of the government's national security adviser, local media have reported.

Sweden's security service (Säpo) said on Tuesday it had arrested a person, identified in media reports as a high-ranking diplomat who had been stationed at several embassies around the world, on suspicion of spying.

According to the Swedish national broadcaster SVT, Säpo is investigating whether there is a connection between the diplomat and the resignation of Tobias Thyberg, a former ambassador to Ukraine. Thyberg was forced to quit as national security adviser on Thursday just hours after being appointed when intimate photos of him from the dating site Grindr were sent to the government.

In a statement, the prosecutor said the unnamed diplomat was suspected of carrying out espionage during the same period that Thyberg was forced out. Thyberg is not suspected of any crime, SVT reported.

He was, very briefly, the replacement for Henrik Landerholm, the former national security adviser who was also forced to resign in January over mislaying classified documents.

Swedish authorities have raised concerns in recent years about increasing threats from foreign powers such as Russia, China and Iran and groups engaging in actions ranging from violent attacks and hybrid warfare to corporate espionage.

In March, Säpo warned that foreign powers were operating in ways that threatened security, using hybrid activities to destabilise Sweden and Europe.

The justice minister, Gunnar Strömmer, told SVT on Tuesday the government had been informed of Säpo's operation and that the person in custody was suspected "on reasonable grounds" of espionage. Reasonable grounds is the lower of two grades of suspicion in Sweden.

"The investigation has to be carried out and I don't want to pre-empt it," Strömmer said in a statement to SVT.

Anton Strand, the lawyer appointed to defend the person in custody, declined to comment.

Säpo said that one person had been arrested after an operation in the Stockholm area and that they were unable to provide further information owing to secrecy.

Karin Lutz, a spokesperson for Säpo, said that while she understood the questions about potential links between the two incidents, she could not comment. "I've seen the news and I understand it raises a lot of questions but what we can say is there is one person who has been arrested," she said.

The prosecutor's office did not immediately respond to a request for comment.

https://www.theguardian.com/world/2025/may/13/swedish-senior-diplomat-arrested-on-suspicion-of-spying-say-reports?CMP=Share_AndroidApp_Other

Sweden probes suspected spy reportedly linked to resignation of security adviser

<https://www.euronews.com/my-europe/2025/05/14/sweden-probes-suspected-spy-reportedly-linked-to-resignation-of-security-adviser>

The suspect under investigation has reportedly served as a senior Swedish diplomat and been stationed at several embassies around the world. Sweden's security services (Säpo) are reportedly investigating a potential link between a diplomat arrested over suspected espionage and the abrupt resignation of the government's national security adviser in embarrassing circumstances last week.

Säpo said on Tuesday it had arrested an individual in the Stockholm area on suspicion of spying. Local media has identified the person as a high-ranking Swedish diplomat who has been posted to a number of embassies around the world.

In a statement, the prosecutor in the case said the unnamed individual was released from custody on Wednesday, but remained a suspect in a crime which occurred between the 1 and 11 May.

According to the Swedish national broadcaster SVT, Säpo is investigating whether the individual is connected to the sudden resignation of Tobias Thyberg as the country's national security adviser.

Thyberg took up the job on Thursday but resigned on Friday morning after sensitive photos of him on the dating app Grindr were sent anonymously to the government.

Thyberg — who previously served as an ambassador in Ukraine and Afghanistan — is not suspected of any crime, SVT reported.

Public radio station Ekot reported that Säpo had recently raided the home of a diplomat who worked at the foreign ministry for several years.

A Säpo spokesperson told Euronews that an investigation was ongoing and that it was unable to provide "any further details or comment on the media reports at this point".

Thyberg's predecessor as national security adviser, Henrik Landerholm, resigned in January after he allegedly left classified documents at a conference hotel in 2023. Landerholm has since been charged with negligent handling of classified information.

<https://www.euronews.com/my-europe/2025/05/14/sweden-probes-suspected-spy-reportedly-linked-to-resignation-of-security-adviser>

[Thanks to 'Barry' who alerted us to this fast moving story].. It appears the suspect was released with no charge but found dead, by his own hand, later

United States of America

INVESTIGATION: Uncovering Chinese Academic Espionage at Stanford
Garret Molloy and Elsa Johnson
May 7, 2025 . 9:45 AM 9 min read

<https://stanfordreview.org/investigation-uncovering-chinese-academic-espionage-at-stanford/>

This summer, a CCP agent impersonated a Stanford student. Under the alias Charles Chen, he approached several students through social media. Anna*, a Stanford student conducting sensitive research on China, began receiving unexpected messages from Charles Chen. At first, Charles's outreach seemed benign: he asked about networking opportunities. But soon, his messages took a strange turn.

Charles inquired whether Anna spoke Mandarin, then grew increasingly persistent and personal. He sent videos of Americans who had gained fame in China, encouraged Anna to visit Beijing, and offered to cover her travel expenses. He would send screenshots of a bank account balance to prove he could buy the plane tickets. Alarming, he referenced details about her that Anna had never disclosed to him.

He advised her to enter China for only 24 to 144 hours, short enough, he said, to avoid visa scrutiny by authorities, and urged her to communicate exclusively via the Chinese version of WeChat, a platform heavily monitored by the CCP. When Charles commented on one of her social media posts, asking her to delete screenshots of their conversations, she knew this was serious.

Under the guidance of experts familiar with espionage tactics, Anna contacted authorities. Their investigation revealed that Charles Chen had no affiliation with Stanford. Instead, he had posed as a Stanford student for years, slightly altering his name and persona online, targeting multiple students, nearly all of them women researching China-related topics. According to the experts on China who assisted Anna, Charles Chen was likely an agent of the Chinese Ministry of State Security (MSS), tasked with identifying sympathetic Stanford students and gathering intelligence.

A Culture of Silence and Fear

This March, Stanford's President, Dr. Jonathan Levin, received a letter from the Select Committee on the CCP detailing the security risks China poses to STEM research. For years, concerns about Chinese espionage have quietly persisted at Stanford. Throughout our investigation, professors, students, and researchers readily recounted their experiences of Chinese spying, yet they declined to speak publicly. One student who experienced espionage firsthand was too fearful to recount their story, even via encrypted messaging. "The risk is too high," they explained. Transnational repression, \$64 million in Chinese funding, and allegations of racial profiling have contributed to a pervasive culture of silence at Stanford and beyond.

It is this pervasive silence that has compelled us to write. After interviewing multiple anonymous Stanford faculty, students, and China experts, we can confirm that the CCP is orchestrating a widespread intelligence-gathering campaign at Stanford. In short, there are Chinese spies at Stanford.

To investigate these concerns, we interviewed over a dozen individuals, including Stanford professors, current students, and China experts specializing in technology transfer and espionage. The majority of interviewees spoke under the condition of anonymity, citing fears of retaliation from both the Chinese Communist Party (CCP) and Stanford's academic community. Their accounts, cross-referenced where possible, form the basis of our findings.

Under its Made in China 2025 plan, China aims to unseat the US as the dominant force in frontier technologies. Such a plan necessitates substantial technology transfers from America's research institutions. Given its dominance in AI, Stanford is academic target number one.

Speaking at a China Town Hall event, the former U.S. National Security Council's Director for China, Matthew Turpin, characterized the threat of Chinese espionage at Stanford:

"The Chinese state incentivizes students to violate conflicts of commitment and interest, ensuring they bring back technology otherwise restricted by export controls."

Former FBI Director Christopher Wray has called this theft of academic research "one of the largest transfers of wealth in human history."

The CCP's Strategy: Non-Traditional Collection

According to Stanford experts on Chinese intelligence-gathering efforts who wished to remain anonymous, the Chinese Communist Party (CCP) has employed a 'crowdsourced approach' to gathering information at Stanford. Dubbed 'non-traditional collection,' the Chinese Ministry for State Security (MSS) uses civilians unaffiliated with the intelligence community to acquire and report sensitive information. The aim of non-traditional collectors isn't necessarily to steal classified documents but rather to quietly extract the know-how behind American innovation.

This includes conclusions from Stanford research projects, methodologies, software, lab workflows, collaborative structures, and even communication channels. Stanford faculty speaking anonymously stated that this non-traditional collection of sensitive technology is extensively practiced at Stanford, particularly in AI and robotics.

A China expert, familiar with Stanford, who wished to remain anonymous, confirmed that of the approximately 1,129 Chinese International students on campus, a select number are actively reporting to the Chinese Communist Party (CCP). China's 2017 National Intelligence Law mandates that all Chinese citizens support and cooperate with state intelligence work regardless of location.

Article 7 of this law enforces compliance: "Any organization or citizen shall support, assist, and cooperate with state intelligence work in accordance with the law, and keep the secrets of the national intelligence work from becoming known to the public." These laws leave Chinese students no option but to accept the demands of the CCP. Students engaged in sensitive scientific research, especially in fields like AI and robotics, are those most often targeted.

One Chinese national at Stanford spoke to us on this very issue under conditions of anonymity:

"Many Chinese [nationals] have handlers; they [CCP] want to know everything that's going on at Stanford. This is a very normal thing. They just relay the information they have."

Another Stanford student shared an incident involving their professor's encounter with suspected Chinese espionage. According to the student, the professor recounted needing to schedule a meeting with a Chinese student. When the student declined, citing a mysterious reason, the Professor asked why. The student replied, "You know why." The professor continued to inquire, only to receive the cryptic response, "I cannot tell you that." Finally, the professor revealed that the student admitted to meeting a CCP handler.

This issue has been under discussion at Stanford since 2019, as highlighted by a Stanford Daily article that featured interviews with anonymous Chinese nationals. One Chinese student remarked, "Whether peer monitoring exists at Stanford is moot; it's the possibility that keeps people cautious about what they say. If it exists, I'm not going to be surprised."

A China expert at Stanford further explained that Chinese students comply with information requests in one of three ways. Some resist by providing only the bare minimum of sensitive research information. Others comply out of a desire to maintain their CCP scholarship funds. Lastly, some fully cooperate and act opportunistically to maximize their collected data.

State Control Through Scholarships and Surveillance

The Chinese Scholarship Council (CSC), which funds an estimated 15% of Chinese students at American universities, is regarded as a primary avenue of information gathering. China experts speaking anonymously confirmed that it requires students to regularly submit "Situation Reports" to Chinese diplomatic missions about their research. These experts also confirmed that the CCP uses these reports to identify and acquire sensitive technological information.

A former Edinburgh University student, Alyssa Fong, claimed that CSC recipients were monitored by "Chinese handlers" who required them to report on dissent at events covering sensitive topics. An anonymous Stanford faculty member added, "If Chinese students have handlers at Edinburgh University, you can be assured they have handlers at Stanford." Stanford Professor Larry Diamond went further, citing anonymous examples of peer surveillance where students "say things favorable to the Dalai Lama or criticize the posture of the People's Republic of China on something or condemn authoritarianism in China" and are told that their family could get in trouble.

One Stanford student conducting research in China relayed a discussion with a CCP member who was educated at Stanford. This former student disclosed that the Chinese Scholarship Council (CSC) directs students' research priorities to align with state-sponsored research activities at Stanford. A 2020 report from Georgetown's Center for Security and Emerging Technology (CSET) verifies this. With access to translated CSC agreements, CSET found that students must adhere to state-defined objectives when applying for research positions.

The Stanford-educated CCP member further said students are chosen for CSC grants based on party loyalty tests. Radio Free Asia corroborates this claim, reporting that Chinese students funded by the CSC were required to sign loyalty pledges to the Chinese Communist Party (CCP), with guarantors (often family members) facing financial penalties if students violated these pledges.

In an exclusive interview with the Review, Matthew Turpin echoed the claims of the CCP member:

"The Chinese government spends a lot of time collecting data on its overseas students; it has a pretty good understanding of who is doing what and if someone is working in an area of interest [frontier technology]. If students have access to things the government would like access to, it is relatively easy to reach out to an individual. They use carrots and sticks. If you turn over information, you may get a reward; if you don't, there is a punishment."

Chinese nationals with family members in China are coerced into sharing sensitive information with the most harrowing of punishments on their families if they refuse to do so. "They are often told that it is in the best interest of both them and their families to provide research data that would not typically be disclosed." Turpin described how Chinese authorities have had "Parents and relatives brought in for a talk with the police, to encourage [Chinese nationals] to turn over information. "These are the kinds of tactics we've seen before," he noted.

The case of Stanford student Chen Song illustrates this very point: the CCP demands total compliance and directs individuals toward sensitive information. In July 2020, Song was indicted for lying about her affiliation with the Chinese military, formally known as the People's Liberation Army (PLA). In the charging documents, prosecutors accused Song of concealing her involvement in the PLA to obtain a J-1 visa to conduct research at Stanford.

DOJ documents allege that Song sent multiple updates to a Chinese government entity detailing the "nature, results, and value of her research work at Stanford." Assistant Director Alan E. Kohler Jr. of the FBI's Counterintelligence Division stated, "Time and again, the Chinese government prioritizes stealing U.S. research and taking advantage of our universities over obeying international norms."

The case of Stanford student Chen Song is the only well-known espionage incident publicly acknowledged by Stanford. However, according to Stanford insiders, espionage cases are only disclosed to the public in extraordinary circumstances. Claims of racial profiling have the potential to derail investigations, leading to strong institutional pushback against investigating these issues. Therefore, it is Stanford's policy and that of investigative authorities to maintain privacy, choosing instead to cancel student visas without public notice.

Ending the Silence

After collating our interviews, a clearer picture emerges. The CCP has designed a full-stack approach to information collection at Stanford and beyond. It mandates student compliance, directs them to sensitive research areas, and requires reports on their research.

By presenting the cases of Charles Chen and Chen Song, alongside experts and students familiar with China's information-gathering operations at Stanford, we are not hoping to indict all Chinese students and researchers; many have made immense contributions to Stanford.

Make no mistake, these students are victims of their own government. Rather, our goal is to present firsthand accounts of an issue that has been silenced due to widespread accusations of racism and academic repression.

Those same accusations of racial profiling were used to disband the China Initiative in 2022, a project designed to prevent Chinese espionage. Asian American Congresswoman Michelle Steel, in an exclusive interview with the Review, labeled claims of racial profiling "a deliberate effort to prevent Beijing's profiling and harassment of their citizens from coming to light."

According to one China expert, who spoke on the condition of anonymity, "a whole community of professors and administrators" weaponized these claims to block action. When the Asian American Scholars Forum and the CCP's propaganda arm, China Daily, can hardly be distinguished in their condemnation of these espionage investigations, the academic consensus must be questioned. Ethnicity should not be used as a basis for investigation, nor should fears of racism enable the flourishing of a CCP-sponsored effort to harvest critical technology.

Drawing on anonymous testimony from faculty, students, and China specialists, our investigation confirms that the CCP runs an extensive intelligence-gathering network at Stanford. The existential question is straightforward: how should we respond? First and foremost, the status quo of branding those who discuss this issue as racist must end. We wrote this article not to advance a policy position but to highlight a silenced reality. Sound policy depends on evidence, not repression.

The nation that develops superior technologies will gain a critical military edge over its adversaries. China cannot be that nation. Working together, U.S. universities and the federal government need to take serious steps to defend the integrity of our nation's mission-critical research. The future of freedom depends on it.

Updates

1) Charles Chen does not refer to any current or former Stanford student; rather it refers to the name of a fictitious social media profile used to contact Stanford students. 2) Stanford has released a statement on the Review's reporting, linked here.

This article is the first in a series covering Chinese Communist Party influence on campus. If you want to stay tuned as details come out, subscribe to the Stanford Review. If you have any relevant information about this topic, send it to eic@stanfordreview.org. And to support the work we do, make a donation.

Authors' Note

This investigation draws on over a dozen interviews conducted between July 2024 and April 2025, involving Stanford faculty members, current and former students, and independent experts specializing in Chinese intelligence operations and technology transfer.

In cases where anonymity was granted, corroborating evidence was sought through public records, secondary interviews, or expert verification.

We use the term spying as defined by "work for a government or other organization by secretly collecting information about enemies or competitors," not in any legal capacity.

<https://stanfordreview.org/investigation-uncovering-chinese-academic-espionage-at-stanford/>

Russian Spy Ring Reveals the Reality of Radio Frequency Espionage

By
Luke Whiting
June 4, 2025

<https://www.hstoday.us/featured/russian-spy-ring-reveals-the-reality-of-radio-frequency-espionage/>

In an age where nation-states wage information warfare not just online, but in the invisible spectrum around us, wireless signals have become a vital domain of espionage. A recently uncovered case involving Russian intelligence operatives reveals the scale and sophistication of modern RF (radio frequency) surveillance efforts. It serves as a wake-up call for enterprises and federal defense agencies alike.

The Espionage Arsenal: A Look Into RF-Based Threats

The operation centered around a covert spy ring allegedly targeting Ukrainian and U.S. personnel. What set this case apart wasn't just the human intelligence but the spy ring's use of a diverse and specialized wireless arsenal. Among the tools recovered from the group were software-defined radios (SDRs), cellular data modems, directional antennas, and rogue access point devices that, when deployed skillfully, can quietly capture sensitive communications, track personnel movement, and exfiltrate data without ever touching a wired network.

The group was reported to have used IMSI catchers to fingerprint the cellphones of Ukrainian soldiers at a US military base, to identify the locations of missile defense systems when the soldiers returned to the front lines in Ukraine. In addition to their IMSI catchers, the group appeared to accomplish most of their operations using commercially available devices, repurposed as advanced surveillance equipment. The barriers to RF surveillance are lower than ever. This democratization of espionage-grade technology means organizations, including military bases, defense contractors, and federal buildings, must rethink what physical and digital security really means.

Adding to the sophistication of the operation was the discovery of 495 SIM cards, which the group likely used for both burner communications devices and for cellular data links for the myriad of audio-visual recording equipment and hacking tools the group possessed. Recent reporting on hidden communications equipment embedded in Chinese-manufactured solar panel inverters and battery systems has reignited concerns among US security experts about the rampant proliferation of cellular uplink capabilities within modern electronics. These embedded modems, now smaller and cheaper than ever, can allow remote access to devices over channels that are invisible to traditional network monitoring and intrusion prevention tools. Cellular connectivity has forced the convergence of cyber and physical security, as the risks of new network channels being physically introduced into facilities have scaled massively. In the case of the spy ring, these capabilities serve the perfect use-case for their surveillance operations, and the sheer number of SIM cards they possessed suggests they likely were leveraging this in some of their operations.

The Threat Within the Airspace

Unlike traditional cybersecurity breaches, RF attacks often go undetected because they operate outside standard monitoring infrastructure. These attacks don't exploit software vulnerabilities; they exploit proximity, signal leakage and blind spots in physical security.

For instance, wireless keyboards and mice, BLE gateways, and even certain industrial IoT sensors used in government installations can serve as silent attack surfaces. These devices continuously emit signals that can be intercepted or spoofed. Cellular radios can allow remote access to devices often without triggering any alerts on the network layer. In military and high-security government environments, that silent surveillance can compromise communications, troop movements, mission readiness, and even strategic posture.

Lessons for Government, Defense, and Critical Infrastructure

This case offers critical takeaways for defense and public sector leaders:

RF Situational Awareness: Agencies need real-time visibility into their radio frequency environment, just as they monitor endpoints, networks, and cloud infrastructure. Agencies must treat RF emissions as a diagnostic tool and a potential threat vector.

Cyber-Physical Convergence: Defense agencies should break down silos between cybersecurity, physical security, and facilities management. An attacker standing outside a secure compound with a high-gain antenna can pose as much risk as one exploiting zero-day vulnerabilities.

Red Team Integration: Tabletop exercises and red team scenarios must evolve to include RF-based intrusion simulations. Without such exercises, personnel remain unaware of how easily unauthorized signals can penetrate supposedly secure zones.

Procurement Standards: Federal procurement policy must address RF emissions during acquisition. Agencies must evaluate devices with Bluetooth, Wi-Fi, Zigbee, or other RF capabilities for FIPS compliance, operational RF signature, susceptibility to spoofing, and capability for remote data exfiltration.

Threat Intelligence Sharing: Inter-agency coordination is essential. Agencies must rapidly escalate incidents of RF surveillance (whether successful or attempted) across intelligence, defense, and civilian agencies to improve detection and response nationwide.

National Security Implications

The exposure of this spy ring underscores an uncomfortable truth: RF surveillance is no longer a theoretical threat. The radio spectrum has become a contested space from forward operating bases to Capitol Hill. Adversaries increasingly exploit gaps in our awareness, whether through wireless peripherals in sensitive buildings or hidden SDRs left behind after physical breaches.

The consequences extend beyond data theft. Real-time location tracking, audio interception, and spoofing of wireless control systems can disrupt operations, endanger personnel, and compromise national security objectives.

Moreover, the proliferation of consumer-grade tools with advanced signal analysis capabilities challenges traditional notions of threat modeling. Intelligence actors no longer need deep pockets or nation-state budgets to launch RF surveillance campaigns.

Looking Ahead

As wireless communication continues to underpin everything from smart buildings to battlefield systems, defending the airspace must become an urgent priority. RF security cannot remain the domain of a few specialists; it must be an integral part of doctrine, policy, and practice.

Being blind to radio frequencies is no longer acceptable. If an attacker can see the signals around your facility and you cannot, your perimeter is already compromised.

The message for government and defense leaders is clear: secure the spectrum, or risk being outmaneuvered in the shadows.

<https://www.hstoday.us/featured/russian-spy-ring-reveals-the-reality-of-radio-frequency-espionage/>

Morse Stations

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

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

UNID CW

More Cyrillic Morse Transmissions

The odd Cyrillic Morse transmissions, first reported in April & reported in our last newsletter, reappeared on 31 May on a previously unused frequency of 16650kHz.

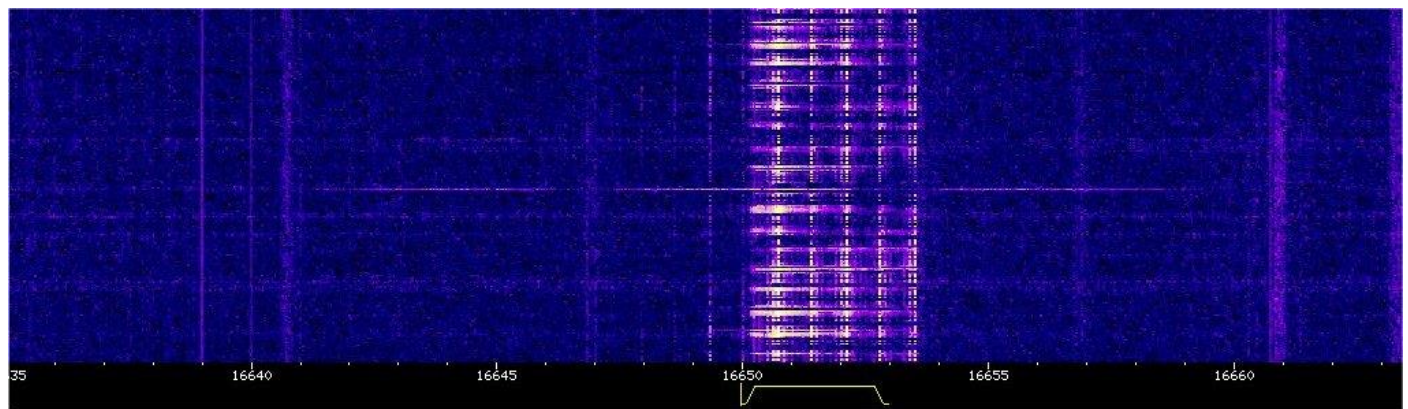
The transmissions consist of five bands of CW spaced within an upper side band transmission, (USB), mode, sending continuous 5-letter Cyrillic groups.

Morse is machine sent at a brisk speed. The origin of these signals is unknown.

16650	1500 (IP) – 1715z	31 May	Endless Cyrillic 5-Letter groups in USB	Strong	BR	SAT
16650	0757 (IP) – 1900z	02 Jun	Endless Cyrillic 5-Letter groups in USB	Strong fading to very weak by 1800z	BR	MON

Gert found this one in progress on Tuesday, 03 June. Sending in CW Mode;_

10560	1830 (IP) – 1850z	03 Jun	Endless Cyrillic 5-Letter groups – Now in CW Mode	Very Strong	Gert	TUE
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Morse - Number Stations

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

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

May 2025:

4903	2000z	01 May	'025' 930 30 == 82736 47828 ... 92874 28374 ==	Good, fast. Excellent Morse. Corrected error grp11	BR/HFD	THU
	2000z	06 May	'025' 593 30 == 49100 94311 ... 85934 82908	Good, fast. Excellent Morse. == missing. 31 grps sent	AB/BR	TUE
	2000z	08 May	'025' 101 30 == 73827 39043 ... 69512 46533 ==	Good, fast. Excellent Morse. No errors. Perfect sending	BR	THU
	2000z	13 May	'025' 369 30 == 59101 84420 ... 82754 82755	Fair, fast. Excellent Morse. == Missing	BR	TUE
	2000z	15 May	'025' 274 30 == 48481 59017 ... 58473 58 50 ==	Fair, fast. First 15 grps good, then number strings etc.	BR	THU
	2000z	20 May	'025' 378 30 == 56748 18594 ... 56473 47890 ==	Good, fast. Excellent Morse. Perfect with no errors	BR	TUE
	2000z	22 May	'025' 725 30 == 12034 09843 ... 38475 73643	Fair, fast. Excellent Morse with no errors. == missing	BR	THU
	2000z	27 May	'025' 154 30 == 17283 74637 ... 65748 326473	Fair, fast. Excellent Morse. Some errors inc.last two grps	BR	TUE
	2000z	29 May	'025' 134 30 == 64536 64736 ==	Fair, fast. Excellent Morse. One corrected error grp12	BR	THU
5280	1800z	01 May	'025' 241 30 == 72890 39487 ... 28374 19283 ==	Fair, fast. Excellent Morse. Corrected error grp21	BR/HFD	THU
	1800z	06 May	'025' 309 30 == 50590 49383 ... 01854 81900	Weak, noisy. Fast delivery. Excellent Morse. Poor copy	AB/BR	TUE
	1800z	08 May	'025' 581 30 == 38172 39049 ... 57482 47390 ==	Weak, fast. Numerous errors - 3 corrected. Hesitant start	BR	THU
	1800z	15 May	'025' 465 30 == 36584 86948 ... 36176 64739 ==	Weak, fast. Errors in call-up. Odd 'staccato' style Morse	BR	THU
	1800z	20 May	'025' 891 30 == 78392 2.917 ... 58103 89043 ==	Weak, Noisy with QSB. Very poor copy.	BR	TUE
	1800z	22 May	'025' 564 30 == 2.83.	Very weak, fast. Unusable – very poor copy	BR	THU
	1800z	27 May	'025' 821 30 == 27364 72634 ... 29384 93483	Weak, fast. Excellent Morse. Jumbled from grp23 to end	BR	TUE
	1800z	29 May	'025' 721 30 == 15267 64738 ... 73737 73847 ==	Weak, fast. Excellent Morse. One corrected error grp27	BR	THU
5435	1500z	03 May	'025' 543 30 == 23412 .314 464 32415 ==	Weak, noisy. Fast delivery. == missing. Poor copy	BR	SAT
	1500z	10 May	'025' 880 30 == 60978....		HFD	SAT
	1500z	31 May	'025' 212 30 == 56745 54756 ... 32413 ==	Weak with QSB. Fast delivery. Very poor copy	BR	SAT
6780	0700z	18 May	'025' 512 30 == 73847 28374 ... 19287 8390 .	Weak with QSB. Fast. Excellent Morse. Poor copy	BR	SUN
	0700z	25 May	'025' 312 30 == 59978 12346 ==	V.weak with QSB. Fast delivery. Very poor copy	BR	SUN

AM /SSB M01 Transmission (This one caught by HFD – A difficult & rarely heard schedule – Thanks HFD!)

9736 0715z 04 May '475' 206 50 = 22382.... Weak. (Via SDR S) HFD SUN

Jun 2025:

4903 **2001z** 03 Jun '025' 711 30 == 82887 83948 ... 39440 49283 == Fair, fast. Excellent Morse. No errors BR TUE
 2000z 05 Jun '025' 724 30 == 82736 72878 ... 18234 29380 == Fair, fast. Excellent Morse. No errors. Perfect sending BR THU
 2000z 10 Jun '025' 265 30 == 84769 85749 ... 73845 18045 == Fair, fast. Single DK/GC at start. Single GC at end. BR TUE
 2000z 17 Jun '025' 371 30 == 74839 27 ... 48372 19057 == Good, fast. Numerous errors. Muddled from grps20 – 25 BR TUE
 2000z 19 Jun '025' 453 30 == 16253 53625 ... 65745 64746 == Fair, fast. DK GC = sent twice at start & end of msg. BR THU
 2000z 24 Jun '025' 911 30 83016 84050 ... 58106 28893 Fair, fast. == missing. Errors noted grps 25, 25 & 27 BR TUE
 2000z 26 Jun '025' 359 30 == 47382 57490 ... 38594 53076 == Fair, noisy. Fast, hesitant delivery. No errors BR THU

5280 1800z 03 Jun '025' 536 30 == Extremely weak. Mostly unreadable BR TUE
 1800z 10 Jun Extremely weak. Short or no call-up? grps heard IP at 1801z – No useable copy BR TUE
 1800z 17 Jun '025' 808 30 == . 9 00 . . 2 Very weak. Very poor copy BR TUE
 1800z 19 Jun '025' 132 30 == Extremely weak. Mostly unreadable BR THU
 1800z 26 Jun '025' 769 30 == 74393 35903 ... 75839 84930 == Weak, noisy. Fast but hesitant with numerous pauses BR THU

6435 **1506z** 07 Jun '025' 091 30 == 89432 90854 ... 37543 31947 == Weak, fast. Hesitant in places. Two noted errors BR SAT
 1500z 14 Jun '025' 775 30 == 82016 89543 ... 73017 57455 == Weak with QSB. Excellent Morse. Poor copy in places BR SAT

6780 0700z 01 Jun '025' 541 30 == 54312 12003 ... Weak with QSB. Mostly unreadable. Very poor copy BR SUN
 0700z 29 Jun '025' 998 30 == 87678... Digital QRM, QSB (via Russian SDR HFD SUN

AM /SSB M01 Transmission

9736 0715z 29 Jun Carrier only from 0715-0729z HFD SUN

M01/3	4903kHz	2000z	08 May 2025	M01/3	4903Hz	2001z	19 June 2025
025 (R4m)	101	101	30 30 = =	025 (R4m)	453	30 = =	453 30 = =
73827	39043	17263	47901 27394 51902 38018 39012 47381 90805	16253	53625	54637	65746 63526 64736 63726 64736 64736 74387
48190	40984	28781	39095 78912 47290 07891 39027 58920 47365	74837	74837	73485	75847 74837 73847 75847 17432 64736 63746
80937	67814	37561	68501 47389 78960 67394 90083 69512 46533	76756	64736	65746	65746 65746 654746 64746
= =	101	101	30 30 000	= =	453	30	= = 453 30 0 0 0
Courtesy BR				Note the repetition of some groups – Particularly at end Courtesy BR			

M01a

This transmission was logged during the monitoring of daily scheduled transmissions on 4951kHz from M23, as part of a large military exercise carried out by the French military.

Was this Russia's way of showing a presence, or a mocked up message as part of the exercise?

4951 2052 – 2055z 10 Jun 111 999 475 10 = [Hand-sent Short zero] Strong AB/BR TUE
 74102 22154 85631 22154 85631
 75361 12109 45240 09855 24561 = 475 10
 111 999 475 10 111 000

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.

Changes & observations Some notes from HFD:-

New June frequencies for the Mon/Fri 0800z sked, (ex 0210z): 14382/13423/12194 kHz. ID 341

The Mon 1230/1250/1310z sked on 13386/12189/11491 kHz, ID 725, has been heard in June, too. Seems to be a fixed frequency sked throughout the year.

The Mon/Wed 1900/1920/1940z sked on 12162/11566/10711 kHz, ID 546, has been heard in May and June only on Wednesdays. Seems to be a fixed frequency sked throughout the year.

The Fri/Sat sked at 2100z (2200z in winter) had changed its April sked 7575/ 8175/ 9175 kHz ID 511 on 26. April to 10431/11075/? ID 401. The May sked, formerly on 10843/10243/ 9243 kHz ID 822, hasn't been heard. The sked was found in June on 17421/16141/15928 kHz ID 419 (ex 11144/10544/ 9344 kHz). Priyom reports the new May frequencies as 17458/16234/15814 kHz ID 428.

Thanks HFD

Asiatic M12 Logs

13961/12201/10597 **0800/20/40z** **02 May** **925 1** (Via SDR Japan) HFD FRI
 0800/20/40z 16 May 925 1 (3060 153) 94818 32326 ... 95347 88444 (Via SDR Japan) Gert FRI
 0800/20/40z 30 May 925 1 (8980 161) 76957 84356.... (Via SDR Japan) BR FRI

16272/14972/13972 0300/20/40z 22 May 299 1 (Via SDR Japan) HFD THU

14382/13423/12194	0800/20/40z	02 Jun	341 1		(Via SDR Japan)	HFD	MON
	0800/20/40z	09 Jun	341 1 (3316 .04)	265.4 6 ..		BR	MON
	0800/20/40z	13 Jun	341 1 (3316 104)	26520 61180....05718 93584		Gert	FRI
	0800/20/40z	20 Jun	341 1 (2474 194)	34119 74958....	(Via SDR Japan)	BR	FRI
	0800/20/40z	27 Jun	341 1 (1449 121)	67156 64620....	(Via SDR Japan)	BR	FRI
	0800/20/40z	30 Jun	31 1 (8602 95)	11028 92803....	(Via SDR Japan)	BR	MON
14975/13875/13475	0300/20/40z	03 Jun	984 1		(Via SDR Japan)	HFD	TUE

M12 13961/12201/10597kHz 0800/0820/0840z 16 May 2025										M12 14382/13423/12194kHz 0800/0820/0840z 13 June 2025									
925	925	925	1 (R2m)	3060	153	3060	153			341	341	341	1 (R2m)	3316	104	3316	104		
94818	32326	73450	42253	04827	53198	25098	44857	09876	82457	26520	61180	80625	22829	85894	31941	66344	45604	60829	17351
96011	24650	75779	13857	14562	04781	73053	91013	29237	56471	90648	01598	11192	86671	41388	85921	63179	38494	89739	57365
14170	81291	10860	44943	67256	73246	91599	23437	40999	16305	85053	64326	89268	80967	91683	68934	88606	94094	99668	98888
44971	94387	16584	69162	37211	73088	74787	69141	82441	36513	59243	26633	25477	80749	74416	00156	42304	08753	73099	11230
95518	61060	33458	00766	95053	34318	07147	46632	82223	29930	07889	34039	32809	85995	08749	58714	95077	12314	26195	10596
19194	47772	85378	39499	53997	49634	48748	48068	79629	39372	00298	37511	89670	59952	47429	38178	81144	18917	79491	92131
39654	37873	86657	43435	23615	56849	82665	19448	58705	12713	20386	84594	10873	40329	60584	16022	05003	84708	27697	93501
01107	62811	51155	20517	57667	62742	45499	49988	54068	28429	34120	61308	72368	63110	51122	88960	82010	75486	12868	13309
33171	93126	05023	61965	62072	04367	84708	63200	92541	58562	15458	86941	21120	76181	54420	45377	17921	14161	20299	98020
45999	51278	58199	49283	96170	00812	20159	55577	20794	55355	12245	52122	99062	37369	17777	74230	09180	52033	60425	21685
54282	61397	53746	75068	41104	21261	54690	26953	65328	66874	59929	18286	05718	93584	000 000					
72503	93605	32117	48124	29608	65624	53663	19929	87445	49063										
40235	09150	71090	04680	79471	63823	77108	14378	79442	17826										
80768	39794	71518	45413	25361	69374	37846	68998	77314	15206										
36342	26117	63108	02137	69464	59934	63011	86997	24908	07018										
56279	95347	88444	000 000																
Courtesy Gert										Courtesy Gert									

European M12 Logs

May 2025:

New scheds in bold type

11435/10598/9327	1800/20/40z	01 May	938 1 (2406 82)	66414 63203....		BR/HFD	THU
	1800/20/40z	08 May	938 1 (1792 80)	63408 26059....		BR	THU
	1800/20/40z	15 May	938 1 (7161 81)	53364 88096....		BR	THU
	1800/20/40z	22 May	938 1 (4285 76)	49256 04855 92770 53311 000 000		Gert	THU
	1800/20/40z	29 May	938 1 (3264 74)	20503 71383....		BR	THU
11519/12194/13407	1100/20/40z	06 May	289 1 (1653 55)	81336 71596 12763 ... 12708 08820 80515 000 000		AB/HFD	TUE
	1100/20/40z	13 May	289 1 (9089 63)	07523 96490....		BR	TUE
	1100/20/40z	20 May	289 1 (8814 55)	16663 79442....		BR	TUE
	1100/20/40z	27 May	289 1 (4824 58)	93908 31199....		BR	TUE
12162/11566/10711	1900/20/40z	07 May	546 1 (8516 59)	04640 61477....		BR	WED
	1900/20/40z	14 May	546 1 (8503 56)	17639 30016....		BR	WED
	1900/20/40z	17 May	546 1 (1524 55)	73068 96292....		BR	SAT
	1900/20/40z	21 May	546 1 (8416 59)	99963 79345....		BR	WED
	1900/20/40z	24 May	546 1 (5096 59)	80837 55765....		BR	SAT
	1900/20/40z	28 May	546 1 (3117 59)	90369 28636....		BR	WED
	1900/20/40z	31 May	546 1 (1004 57)	43948 95450....		BR	SAT
13386/12189/11491	1230/1250/1310z	12 May	725 1 (832 133)	21550 12628 75788 ... 69542 01343 16967 000 000		AB	MON
	1230/1250/1310z	26 May	725 1			HFD	MON
13386/12189/11491	1330/1350/1410z	12 May	725 1 (3761 143)	89031 54691 16354 ... 77422 07403 80552 000 000		AB	MON
13926/13426/11526	2000/20/40z	01 May	573 1 (587 43)	31051 77777....		BR/HFD	THU
	2000/20/40z	05 May	573 000			BR	MON
	2000/20/40z	08 May	573 000			Gert	THU
	2000/20/40z	12 May	573 000			Gert	MON
	2000/20/40z	15 May	573 000			BR	THU
	2000/20/40z	19 May	573 1 (3295 207)	05901 04394....		BR	MON
	2000/20/40z	22 May	573 1 (3295 207)	05901 04394....		BR	THU
	2000/20/40z	26 May	573 1 (3295 207)	05901 04394 ... 66955 93970 000 000		Gert	MON
	2000/20/40z	29 May	573 1 (3295 207)	05901 04394 ...		BR	THU
15892/14892/13992	2310/30/50z	04 May	889 1			HFD	SUN
	2310/30/50z	07 May	889 1 (404 102)	30310 85831....		BR	WED
	2310/30/50z	11 May	889 1 (404 102)	30310 85831....	Weak	BR	SUN
	2310/30/50z	21 May	889 1 (365 64)	97164 84788....		BR	WED
15936/14736/13536	1900/20/40z	02 May	975 1 (3360 108)	69989 55282....		BR/HFD	FRI
	1900/20/40z	07 May	975 000			BR	WED
	1900/20/40z	09 May	975 000			BR	FRI
	1900/20/40z	14 May	975 000			BR	WED

	1900/20/40z	16 May	975 000			BR	FRI
	1900/20/40z	21 May	975 1 (778 91)	47388 99296....		BR	WED
	1900/20/40z	23 May	975 1 (778 91)	47388 99296 ... 38993 54233 000 000		Gert	FRI
	1900/20/40z	28 May	975 1 (778 91)	47388 99296....		BR	WED
	1900/20/40z	30 May	975 1 (778 91)	47388 99296....		BR	FRI
17458/16234/15814	2100/20/40z	31 May	428 1 (3822 84)	22585 56796....		BR	SAT
<u>Jun 2025:</u>							
11435/10598/9327	1800/20/40z	05 Jun	938 1 (9551 78)	12746 07621....		BR	THU
	1800/20/40z	19 Jun	938 1 (7098 78)	81451 36634....		BR	THU
	1800/20/40z	26 Jun	938 1 5963 81)	21195 113 ...		BR	THU
11519/12194/13407	1100/20/40z	03 Jun	289 1 (7670 64)	45884 58518....		BR	TUE
	1100/20/40z	10 Jun	289 1 (8391 63)	23143 58027....		BR	TUE
	1100/20/40z	17 Jun	289 1 (3958 58)	20487 42363....		BR	TUE
	1100/20/40z	24 Jun	289 1 (3864 62)	22966 50854....		BR	TUE
12162/11566/10711	1900/20/40z	04 Jun	546 1 (2180 57)	91734 16397....18392 01861 000 000		Gert/HFD	WED
	1900/20/40z	07 Jun	546 1 (4110 58)	05410 10948....		BR	SAT
	1900/20/40z	11 Jun	546 1 (8678 56)	52591 32819....		BR	WED
	1900/20/40z	15 Jun	546 1 (8096 56)	39739 63378....		BR	SAT
	1900/20/40z	18 Jun	546 1 (5026 59)	32501 40568....		BR	WED
	1900/20/40z	21 Jun	546 1 (9636 57)	37636 98976....		BR	SAT
	1900/20/40z	25 Jun	546 1 (1834 55)	97894 51475....		BR	WED
	1900/20/40z	28 Jun	546 1(2621 56)	37602 07158....		BR	SAT
13386/12189/11491	1230/1250/1310z	02 Jun	725 1			HFD	MON
	1230/1250/1310z	09 Jun	725 1 (5340 123)	99610 70997....46162 27351 000 000 (3 rd freq NRH)		Gert	MON
	1230/1250/1310z	16 Jun	725 1 (8314 144)	88361 04898....		BR	MON
	1230/1250/1310z	30 Jun	725 1 (6478 124)	00060 23587....		BR	MON
13892/13392/11592	2000/20/40z	02 Jun	119 1 (5578 201)	78902 08598....		BR/HFD	MON
	2000/20/40z	05 Jun	119 1 (5578 201)	78902 08598....		BR	THU
	2000/20/40z	09 Jun	119 1 (5578 201)	78902 08598....		BR	MON
	2000/20/40z	12 Jun	119 1 (5578 201)	78902 08598....		BR	THU
	2000/20/40z	16 Jun	119 1 (784 84)	85727 95926....		BR	MON
	2000/20/40z	19 Jun	119 1 (784 84)	85727 95926....		BR	THU
	2000/20/40z	23 Jun	119 1 (784 84)	85727 95926....		BR	MON
	2000/20/40z	26 Jun	119 1 (784 84)	85727 95926....		BR	THU
	2000/20/40z	30 Jun	119 000			BR	MON
15823/14823/13923	1900/20/40z	04 Jun	889 1 (9828 78)	14612 61988....41958 26160 000 000		Gert/HFD	WED
	1900/20/40z	06 Jun	889 1 (9828 78)	14612 61988....		BR	FRI
	1900/20/40z	11 Jun	889 000			BR	WED
	1900/20/40z	13 Jun	889 000			BR	FRI
	1900/20/40z	18 Jun	889 1 (9275 132)	54165 01394....		BR	WED
	1900/20/40z	20 Jun	889 1 (9275 132)	54165 01394....		BR	FRI
	1900/20/40z	25 Jun	889 000			BR	WED
	1900/20/40z	27 Jun	889 000			BR	FRI
16342/15842/14942	2310/30/50z	01 Jun	389 1 (811 249)	93940 17011....		BR/HFD	SUN
	2310/30/50z	04 Jun	Extremely weak – No useful copy			BR	WED
	2310/30/50z	29 Jun	389 1 (616 191)	19567 72285....		BR	SUN
.... /16141/15928	2100/20/40z	06 Jun	419 1 (6513 171)	65726 62680....62707 42656 000 000	Strong	Gert/HFD	FRI
17421/1614/15928	2100/20/40z	07 Jun	419 1 (6513 ...)		V.Weak	BR	SAT
	2100/20/40z	13 Jun	419 1 (6513 171)	6 . 726 6268. ...	V.Weak	BR	FRI
	2100/20/40z	20 Jun	419 1 (1578 192)	38420 42624....		BR	FRI
	2100/20/40z	21 Jun	419 1 (1578 192)	38420 42624....		BR	SAT
	2100/20/40z	27 Jun	419 1 (1506 86)	09568 05727....		BR	FRI
	2100/20/40z	28 Jun	419 1 (1506 86)	09568 05727....		BR	SAT

M12 12162/11566/10711kHz 1900/20/40z 10 May 2025			
546	546	546	1 (R2m) 4907 57 4907 57
32333	18955	96859	10412 44166 06918 52275 16868 97419 84672
10630	54367	00861	93888 50476 56125 87235 04553 35569 88572
92190	01191	87471	59228 36001 22377 12538 15845 53491 55880
46939	05477	89878	31244 89337 91731 86367 64388 57416 80493
10022	77987	29880	47114 85590 49659 72988 99098 96229 02057
51308	03313	44477	10714 67627 31142 31482 000 000
Courtesy Gert			

M12 11435/10598/9327kHz 1800/1820/1840z 22 May 2025			
938	938	938	1 (R2m) 4285 76 4285 76
49256	04855	98979	58715 63154 95439 23243 88459 87008 58100
42242	60489	37046	83725 75217 62729 77405 09198 53995 49036
95618	17607	57397	47595 01778 25399 11551 88277 67039 46773
29362	35271	23747	45257 66145 79062 65312 45268 10079 55142
56264	42307	46084	22078 67265 69522 17056 60838 26419 06013
10964	57647	89407	08431 40960 31649 47456 51383 56936 37754
83888	34964	21420	40234 28737 06971 36741 91788 17579 96154
97416	32137	99117	98852 92770 53311 000 000
Courtesy Gert			

M12 13386/12189/11491kHz 1230/1250/1310z 12 May 2025														
725	725	725	1 (R2m)	832	133	8832	133							
21550	12628	75788	18225	47828	04574	79189	73076	72117	92501					
44542	93276	15524	51181	60842	36686	86898	65046	32605	23976					
78912	03938	68801	41530	40190	08882	82991	50877	65302	41711					
70606	73535	56228	33906	46355	21430	36094	64023	39384	90317					
89404	58571	16500	86863	72305	84648	82434	19966	47050	88843					
28796	09566	62333	19342	66671	17611	43825	34257	78033	38946					
21582	28311	07774	30405	21894	71006	37048	81617	04825	39412					
00591	22874	25662	42286	34571	20340	87437	81936	69224	55540					
26446	63025	03826	76458	12915	61040	11202	36885	67233	28744					
77604	01837	85988	00437	68735	61092	50797	86093	64969	01298					
47600	00817	15140	07638	88251	05921	83903	20047	84770	46330					
30173	61887	65031	22493	12500	58555	24484	31314	17490	60852					
59804	00162	14383	76080	61806	98753	36885	25224	73549	73477					
69542	01343	16967	000 000											
Courtesy AB														

M12 13386/12189/11491kHz 1230/1250/1310z 12 May 2025														
725	725	725	1 (R2m)	3761	143	3761	143							
89031	54691	16354	75289	97284	77243	03553	21227	08845	32642					
26070	87594	54699	37483	52820	28508	71317	95069	93226	44968					
64848	74863	15288	47511	16197	67098	02318	15666	40986	41333					
78372	46501	95103	43164	87513	27747	28829	64930	08244	14599					
67496	79959	87629	60477	14646	31352	05734	84913	33179	40478					
13516	43887	58862	46010	65825	14167	39403	68841	59091	30185					
74925	87886	80239	67510	54269	79567	92490	11534	49968	25073					
99678	06386	86824	78626	77470	84888	87233	54809	32865	84844					
61364	17403	82485	00507	27817	34484	87638	49093	77338	73345					
88343	59986	05838	78058	39673	79609	99718	20118	06207	35077					
38860	94198	34944	08106	40799	07129	57061	80234	68539	80935					
26933	84592	35976	74246	68819	57521	05401	79731	39693	19785					
91927	43396	34195	76622	36728	39691	00547	08766	38952	97860					
85168	67114	48602	97786	45983	67164	82457	74378	59706	20687					
77422	07403	80552	000 000											
Courtesy AB														

M14 IA MCW / ICW Short 0

May 2025:

12211	0500z	06 May	925 (403 57) = 53818 29463 36756 ... 31381 54948 83243 00000	AB/HFD	TUE
10243	0520z	06 May	925 (403 57) = 53818 29463 36756 ... 31381 54948 83243 00000	AB/HFD	TUE

Jun 2025:

12211	0500z	02 Jun	952 (380 54) = 92622 03168 ... 31018 03311 00000	(Via SDR Japan)	Gert	MON
10243	0520z	02 Jun	952 (380 54) = 92622 03168 ... 31018 03311 00000	(Via SDR Japan)	Gert	MON

M14 12211 / 10243kHz 0500 / 0520z 02 June 2025														
952	952	952	(R4m)	380	380	54	54	=	=					
92622	03168	84134	91316	69771	53703	51281	52042	61543	69182					
91383	64048	68777	90117	63526	80346	19506	46481	41661	66184					
92378	68608	37895	59217	36289	79066	30558	53606	09624	82655					
82994	37738	87582	96759	64020	40232	11000	89195	05970	63948					
75109	15791	61283	12665	81681	74835	43564	40118	02991	20634					
64049	76095	31018	03311	=	=									
380	380	54	54	00000										
Courtesy Gert														

M23 O ICW

Transmissions Continue

Following on from the activity that began in mid-March & continued throughout April, the schedules continued into May, although with some schedule & content changes. Signal strengths were quite poor so it took a day or two before the content of the messages could be confirmed.

The following period, from mid-May to mid-June, turned into the largest, most extensive series of transmissions we have seen from the M23 station, the reason for which became clear as an internet search revealed that France's largest naval exercise, Polaris 25, was under way, details of which can be found at the end of the logs.

This is a long series of logs, some of you may wish to scroll to the end. The full logs are included as a record, & for those with an interest in following the full details of the transmissions.

Due to the number of schedules & changes output by this station, details & logs are likely to be incomplete & may contain errors.

Changes to Schedules & Content

As we started May, the 10755kHz, 1430z transmission ceased & two new schedules appeared on 9427kHz at 0700z & 10916kHz at 0800z.

The 10222z transmission started with a new text 'GOOD MORNING FRIENDS 55555 05050 55005 05555 00000' etc. 9427kHz sending an extract from 'Alice in Wonderland', the children's book by Lewis Carroll, in French, followed by a continuous stream of 15081769 – with no gaps, & 10916kHz sending, first, the 5-figure sequence followed by what was later identified as text from 'The Hare & the Tortoise' from Aesop's fables.

Monday 12 May - Two Schedules End – One Changes Content

These schedules were transmitted daily from Thursday 01 May with the 9427kHz & 10916kHz transmissions at 0700z & 0800z, respectively, ceasing from Monday, 12 May. At the same time, the 6937kHz transmission content changed to the English 'Alice in Wonderland' text, but without the repeated number string

Before we move on to the full table of logs, we hear from PoSW who has followed M23 and has sent us his logs covering this unusual period of activity:-

Report & Logs 20 May – 18 June from POSW

M23 Morse has been logged on three frequencies in May and June:- 6961, 7442 and 6937 kHz. Noticed that 6937 is mentioned on page 20 of the last newsletter. Also saw that M23 has been heard on 10755 kHz; I think this frequency has been used by the likes of E06, S06 and M14 in the distant past.

6961 kHz:-

- 20-May-25, Tue:- 1402 UTC, Slow CW in progress, “55005 50005” repeated, long zero.
 21-May-25, Wed:- 0659 UTC approx starting up, “LO48636017LA1511114LO48...” - realised this was a group of nineteen characters being sent over and over, similar shown in the last newsletter. I did not notice a break or pause to indicate beginning and end.
 0859 UTC, starting up again as earlier, stopped at 0924:30s UTC approx.
 1159 UTC, starting up with “55555 55005”, repeated over and over, stopped at 1224:30s UTC.
 1259 UTC, starting up, “55555 50505”.
 1359 UTC, starting up with, “50505 00000”, stopped at 1424:29s UTC.
 1446 UTC, heard CW starting up with, “55555 00550”, stopped after a couple of minutes, a couple of quick “blips” followed by a steady carrier at approx 1450z, went off after about one minute.
 23-May-25, Fri:- No CW heard when monitored at 0659 UTC, a quick “blip” at 0700:20s. Checked the frequency a few times throughout the day, nothing heard.
 24-May-25, Sat:- 1504 UTC, in progress with, “55555 00550”, stopped at 1525:50s followed by a single key-down “blip”.
 1600:20s :- starting up, “55555 55005”, a pre-transmission “blip” heard just after 1557z
 1704 UTC, transmission in progress, “55555 50505”.
 Nothing further heard except a quick “blip” at about twenty seconds after 1800, 1900 and 2000 UTC.
 25-May-25, Sun:- 1700:20s UTC, starting up, “55555 50505”.
 1800:20s, “00550 50005”.
 26-May-25, Mon:- “Blips” heard about fifteen seconds after 0700, 0800 and 0900 UTC.
 1514 UTC, transmission in progress, “05550 50505”.
 1606 UTC, in progress with “55005 05550”.
 1712 UTC, “55555 00550”.
 M23 CW was heard on 7442 kHz later in the evening
 27-May-25, Tue:- 1523 UTC, in progress with, “55055 50505”, ended at 1525:41s followed by the usual “blip”.
 1600:10s UTC, starting up with “55555 00550”.
 1709 UTC, in progress with “55555 55005”.
 28-May-25, Wed:- 1006 UTC, in progress, “55555 00550”.
 1100 UTC, “00000 55005”.
 1400 UTC “00000 50505”.

Activity on this frequency appeared to cease in the last days of May. There was some hand keyed CW on 6961 in the French language noted in early June:-

- 04-June-25, Fri:- 1814 UTC, weak CW, seemed like the end of a QSO, all I got was, “MARCHE BIEN MEILLEUR ANTENNE AR AR”, either ended or faded into the noise.

7442 kHz

- 26-May-25, Mon:- 0709 UTC, transmission in progress, sending the nineteen character group noted on 21-May on 6961, see above. Stopped before 0726z followed by single “dash”.
 0904 UTC, in progress with content as earlier, stopped at 0925:50s.
 1906 UTC, still on in the evening, nineteen character group as before.
 27-May-25, Tue:- 0720 UTC, same long group, stopped at 0725 UTC followed by long “dash”.
 28-May-25, Wed:- 0700 UTC approx, starting up with the long group, stopped at 0725:45s UTC.
 0900 UTC, starting up again.

As with 6961 kHz, this frequency appears to have ceased activity at the end of May.

6937 kHz:-

- 08-Jun-25, Sun:- more apparent M23 activity on another frequency, sending numbers in ones, twos or threes, “3 5 8 1 20 34 14 7 10...”
 09-Jun-25, Mon:- 1516 UTC, transmission in progress, “15081769150817691...”, realised this was a group of eight being sent over and over, no obvious break.
 1603 UTC, in progress with “15081769...”, stopped at approx 1625:20s UTC with long “dash” afterwards.
 1700 UTC approx, starting up with numbers, “...24 21 18 14 12...”, stopped at 1725:25s.
 10-Jun-25, Tue:- 1403 UTC, in progress with the 8F group.
 1500 UTC, just before, 8F group, ended at 1525:23 UTC.
 1607 UTC, in progress with the 8F group.
 11-Jun-25, Wed:- 1404 UTC, in progress with the 8F heard on previous days.
 Also started again at 1500 and 1600 UTC.
 1703 UTC, in progress with numbers, “...24 21 18 14...”.
 12-Jun-25, Thu:- 1716UTC, in progress with numbers “...25 3 8 12 24 48...”.

Same content when monitored at similar times on the following days, was last heard on 16-June, Monday, didn't listen on the 17th. Nothing heard on 18-June, Wednesday, when monitored at 1500, 1600 and 1700 UTC, or on following days, seems to have gone.

END

[Thank you Peter for your excellent & detailed report]

The following logs have been compiled over this period of activity from our online group reports.

Full Schedules & Logs

10222	0600 – 0620z	01 May	GOOD MORNING FRIENDS 55555 05050 55005 05555 00000 etc.	AB	THU
9427	0700 – 0725z	01 – 11 May	Long Text followed by 15081769 Rptd (Figures continuous – No gaps) Text later identified as the beginning of 'Alice in Wonderland' by Lewis Carroll in English	AB/BR	THU
10916	0700 – 0825z	01 - 11 May	55550 05550 05500 55005 50505 (Rpt) Into long text. Moderate speed, then slowed. QSB giving poor copy. Text later identified as 'The Hare & the Tortoise' fable in French	AB/BR	THU

The later schedules reverted to sending 5-figure groups followed by a series of French words. Note that, again, there is no use of accented letters.

7668	1600 – 1625z	01 – 16 May	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc	AB/BR/HFD	THU
			PORTE POINT SORTE ARBRE SUITE GARDE CIEN SIGNE LIGNE MIEN etc.		
6937	1800 – 1825z	01 May	55555 00000 55555 00000 55555 55555 55555 55555 55555 00000 00000 555555 etc	AB/BR	THU
			PORTE POINT SORTE ARBRE SUITE GARDE CIEN SIGNE LIGNE MIEN etc		

Transcript of transmission 9427kHz 0659 - 0724z Thursday 01 May 2025

Alice was beginning to get very tired of sitting by her sister on the bank and of having nothing to do once or twice she had peeped into the book her sister was reading but it had no pictures or conversations in it and what is the use of a book thought Alice without pictures or conversation so she was considering in her own mind as well as she could for the hot day made her feel very sleepy and stupid whether the pleasure of making a daisy-chain would be worth the trouble of getting up and picking the daisies when suddenly a white rabbit with pink eyes ran close by her (*Sent once*) 15081769 (*Numbers repeated as string without pause*)

Courtesy AB

Transcript of transmission 10916kHz 0659 - 0824z Thursday 01 May 2025

50505 55550 05500 05500 55050 55550 05550 etc. followed by part of Le lièvre et la tortue (the hare and the tortoise)

Rien ne sert de courir il faut partir a point
Le lievre et la tortue en sont un temoignage
Gageons dit celle ci que vous n atteindrez point
Sitot que moi ce but sitot etes vous sage
Repartit l animal leger
Ma commere il vous faut purger
Avec quatre grains d ellebore
Sage ou non je parie encore
Ainsi fut fait et de tous deux
On mit pres du but les enjeux
Savoir quoi ce n est pas l affaire
Ni de quel juge l on convint.
Notre lievre n avait que quatre pas a faire
J entends de ceux qu il fait (off)

Courtesy AB

Transcript of transmission 7668kHz 1600 – 1625z Thursday 01 May 2025

55555 05050 55005 05555 00000 55550 00005 05500 55555 55005 00550 50505 (Repeated)
PORCE POINT SORTE ARBRE SUITE GARDE CIEN SIGNE LIGNE MIEN PARMISACRE MONDE TIEDE GUIDE METRE
POUCE POULE REVER STADE TRAIN NOTRE VOTRE ENTRE CONTRE DESIR AIDES CONTER RENTE VOTER TENOR
RIANT DATES VERRE LOUPE COUPE TERME DIUE DIETE DEMON CASER PRIMA MINE LINGE SIGNE CHIEN NICHE
GRADE SITUE

Courtesy AB

Hourly Transmissions Around the Clock – Sunday 18 May to Tuesday 20 May

The lead-up the weekend of Saturday 18 & Sunday 19 May is not totally clear. What we do know is that from around Wednesday 14 May a number of new transmissions appeared on several frequencies throughout the day. These transmissions were approximately 25 minutes long & consisted simply of five 5-figure groups repeated over & over for the duration of the transmission.

Because several frequencies were used, it took time to find & collate the various pieces of the puzzle. But Ary worked to find the complete list of schedules, that covered the 24 hour period.

Logs that Ary had managed to retrieve show schedules ranging from 0500z to 1900z over 14 – 18 May, but that may not be the full extent of the transmissions.

What is certain & confirmed is that the transmissions were being sent hourly over the 24 hours from 1700z on Sunday, 18 May & these continued until midday on Tuesday, 20 May..

This is the full 24 hour schedule from Ary's logs & recovered recordings:-

8030	1700 – 1725z	18 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	SUN
6961	1800 – 1825z	18 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	SUN
6961	1900 – 1925z	18 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	SUN
5921	2000 – 2025z	18 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	SUN
5921	2100 – 2125z	18 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	SUN
5921	2200 – 2225z	18 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	SUN
5921	2300 – 2325z	18 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	SUN
5921	0000 – 0025z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
5921	0100 – 0125z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
5921	0200 – 0225z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
6961	0300 – 0325z	19 May	55550 05550 05500 55005 50505 ... (Rptd)	AB	MON
6961	0400 – 0425z	19 May	55550 05550 05500 55005 50505 ... (Rptd)	AB	MON
6961	0500 – 0525z	19 May	55550 05550 05500 55005 50505 ... (Rptd)	AB	MON
6961	0600 – 0625z	19 May	55550 05550 05500 55005 50505 ... (Rptd)	AB	MON
8030	0700 – 0725z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
8030	0800 – 0825z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
8030	0900 – 0925z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
8030	1000 – 1025z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
10300	1100 – 1125z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
10300	1200 – 1225z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
10300	1300 – 1325z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
10300	1400 – 1425z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
8030	1500 – 1525z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON
8030	1600 – 1625z	19 May	50505 55550 05550 05500 55005 ... (Rptd)	AB	MON

An Interesting Note

Over the course of these transmissions, it was noted, that as well as the 5-figure groups, a single sending of 'OK' had been inserted into the sequence. Further analysis by Ary showed that this was in all the transmissions & occurred around nine minutes into the transmissions.

The hourly schedules continued throughout Sunday 18, Monday 19 through the morning of Tuesday 20 May. The last hourly transmission was sent at 1200z on Tuesday 20 May. This was followed by a final transmission, out of sequence, from 1325 – 1415z on 6961kHz. Nothing further was heard that day.

Wednesday 21 May

Activity continued on Wednesday, 21 May, starting with a return to the coordinates sent during April's transmissions. The remainder of the transmissions consisted of various combinations of 5-figure groups made up of 5 & 0.

6961	0700 – 0725z	21 May	LO48636017 LA1511114 (Rptd)	AB	TUE
6961	0800 – 0825z	21 May	LO48636017 LA1511114 (Rptd)	AB	TUE
6361	0900 – 0925z	21 May	LO48636017 LA1511114 (Rptd)	AB/BR	TUE
6361	1000 – 1025z	21 May	00000 00550 (Rptd)	AB/BR	TUE
6361	1100 – 1125z	21 May	00000 55005 (Rptd)	AB/BR	TUE
6361	1200 – 1225z	21 May	55005 55555 (Rptd)	AB/BR	TUE
6361	1300 – 1325z	21 May	50505 55555 (Rptd)	AB/BR	TUE
6961	1400 – 1425z	21 May	50505 00000 50505 55555 (Then last two grps repeated)	AB/BR	TUE
6961	1445 – 1448z	21 May	00000 00000 00550 55555 (Then last two grps repeated)	AB/BR	TUE

To finish the day the following sequences were sent. All output shown as sent, once only – no ongoing repeated groups.

6961	1633z	21 May	05500 05	BR	TUE
6961	1635z	21 May	05500 0	BR	TUE
6961	1637z	21 May	05500 05500	BR	TUE
			U C 05500 05500	BR	TUE
			V 05500 05500		
			U		
6961	1638z	21 May	U 05500 05500	BR	TUE
6961	1639z	21 May	U 05500 05500	BR	TUE
6961	1640z	21 May	U 05500 05500	BR	TUE

Thursday 22 May

A change to a new frequency – No change of content! BR found the station in progress at 0711z on 7442kHz with the coordinates string & Ary was able to recover earlier transmissions from his recordings.

Ary also noted that the hourly beeps at hh00 on 6961kHz & that these beeps were also present on 7772kHz from 0200z on 22 May. These hourly beeps are a feature of M23 transmissions & can continue for several days after the frequency was last actively used.

7442	0400z	22 May	LO48636017 LA1511114 (Rptd)	AB	THU
7442	0500z	22 May	LO48636017 LA1511114 (Rptd)	AB	THU
7442	0711z (IP)	22 May	LO48636017 LA1511114 (Rptd)	BR	THU
7442	0900 – 0926z	22 May	LO48636017 LA1511114 (Rptd)	AB/BR	THU
7442	1600 – 1626z	22 May	LO48636017 LA1511114 (Rptd)	AB	THU
7442	1800 – 1826z	22 May	LO48636017 LA1511114 (Rptd)	AB/BR	THU
7442	1900 – 1926z	22 May	LO48636017 LA1511114 (Rptd)	AB/BR	THU

Friday 23 May

7442	0400z	23 May	LO48636017 LA1511114 (Rptd)	AB	FRI
7442	0500z	23 May	LO48636017 LA1511114 (Rptd)	AB	FRI
7442	0900z	23 May	LO48636017 LA1511114 (Rptd)	AB	FRI
7442	1600z	23 May	LO48636017 LA1511114 (Rptd)	AB	FRI
7442	1800z	23 May	LO48636017 LA1511114 (Rptd)	AB	FRI
7442	1900z	23 May	LO48636017 LA1511114 (Rptd)	AB	FRI

Saturday 24 May

7442	0400z	24 May	LO48636017 LA1511114 (Rptd)	AB	SAT
7442	0500z	24 May	LO48636017 LA1511114 (Rptd)	AB	SAT
7442	0700 – 0726z	24 May	LO48636017 LA1511114 (Rptd)	AB/BR	SAT
7442	0900 – 0926z	24 May	LO48636017 LA1511114 (Rptd)	AB/BR	SAT
7442	1900 – 1926z	24 May	LO48636017 LA1511114 (Rptd)	AB/BR	SAT

Sunday 25 May

7442	0400z	25 May	LO48636017 LA1511114 (Rptd)	AB	SUN
7442	0500z	25 May	LO48636017 LA1511114 (Rptd)	AB	SUN
7442	0700 – 0726z	25 May	LO48636017 LA1511114 (Rptd)	AB/BR	SUN
7442	0900 – 0926z	25 May	LO48636017 LA1511114 (Rptd)	AB/BR	SUN
6961	1500z	25 May	55005 50005 55005 50005 55005 50005 (Rptd)	AB	SUN
6961	1700z	25 May	50505 55555 50505 55555 50505 55555 (Rptd)	AB	SUN
6961	1800z	25 May	00550 50005 00550 50005 00550 50005 (Rptd)	AB	SUN
7442	1900 – 1926z	24 May	LO48636017 LA1511114 (Rptd)	AB/BR	SUN

Monday 26 May

7442	0400z	26 May	LO48636017 LA1511114 (Rptd)	AB	MON
7442	0500z	26 May	LO48636017 LA1511114 (Rptd)	AB	MON
7442	0700 – 0726z	26 May	LO48636017 LA1511114 (Rptd)	BR	MON

7442	0900 – 0926z	26 May	LO48636017 LA1511114 (Rptd)	BR	MON
6961	1500 – 1526z	26 May	50505 05550 (Rptd)	BR	MON
6961	1600 – 1626z	26 May	55005 05550 (Rptd)	BR	MON
6961	1700 – 1726z	26 May	55555 00550 (Rptd)	BR	MON
7442	1900 – 1926z	26 May	LO48636017 LA1511114 (Rptd)	BR	MON

Tuesday 27 May

7442	0700 – 0726z	26 May	LO48636017 LA1511114 (Rptd)	BR	TUE
7442	0900 – 0926z	26 May	LO48636017 LA1511114 (Rptd)	BR/dMHz	TUE
6961	1500 – 1526z	26 May	50505 55055 (Rptd)	BR/dMHz	TUE
6961	1600 – 1626z	26 May	00550 55555 (Rptd)	BR	TUE
6961	1700 – 1726z	26 May	55005 55555 (Rptd)	BR	TUE
7442	1900 – 1926z	26 May	LO48636017 LA1511114 (Rptd)	BR	TUE

Note that while the coordinates remain the same, the ‘05’ groups change daily.

Wednesday 28 May

7442	0408z (IP)	28 May	LO48636017 LA1511114 (Rptd)	BR	WED
7442	0700 – 0726z	28 May	LO48636017 LA1511114 (Rptd)	BR	WED
7442	0900 – 0926z	28 May	LO48636017 LA1511114 (Rptd)	BR/dMHz	WED
6961	1100 – 1126z	28 May	55005 00000 (Rptd)	BR	WED
6961	1400 – 1426z	28 May	50505 00000 (Rptd)	BR	WED
7442	1900 – 1926z	28 May	LO48636017 LA1511114 (Rptd)	BR	WED

With hourly beeps noted on both frequencies daily – Even where no transmission occurred

Thursday 29 May

7442	0700 – 0726z	28 May	LO48636017 LA1511114 (Rptd)	BR	WED
7442	0900 – 0926z	28 May	LO48636017 LA1511114 (Rptd)	BR/dMHz	WED
7442	1900 – 1926z	28 May	LO48636017 LA1511114 (Rptd)	BR	WED

No transmissions heard on 6961kHz today although the hourly beeps were still active. No other active frequencies found.

Friday 30 May – Saturday 31 May

No transmissions heard on 6961kHz or 7442kHz. Hourly beeps logged on both frequencies during day & evening.

Several short transmissions were monitored on 6961kHz over the weekend. Starting with VVV these sent a short message in French, but were too weak to copy. These were a weaker signal than the M23 beeps – so may have been related but were not believed to be from M23.

Sunday 01 June

6961	1515z	01 Jun	VVV VVV AA Extinction surpuissant doucheur = BB Plaine verdure lac determination = CC Tranche bonbons soda= DD Determination double unique extreme = AR AR
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6961	1538z, 1548z, 1553z, 1555z, 1605z, 1607z	01 Jun	VVV Message test auto = AR AR
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6961	1615z	01 Jun	VVV = Message numero deux = AR AR
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6961	1620z	01 Jun	VVV VVV VVV VVV = AA Avion lutin armoire a6 . r = BB Retour bateau bois terre f.vu BT CC Argumene folie Vitesse embrayage = DD Domino exnihilo terminus = AR AR
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(Text contains errors – Copy was fair but, coincidentally (?), with strong OTHR over the top that ceased shortly afterwards)

6961	1630z	01 Jun	VVV = Message numero deux = AR AR
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6961	1648z	01 Jun	VVV VVV VVV VVV = AA Extinction surpuissant doucheur D <i>[Ended suddenly]</i> VVV VVV VVV VVV = AA Extinction surpuissant doucheur = BB Plaine verdure lac determination = CC Tranche bonbons soda= DD Determination double unique extreme = AR AR
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6961	1656z	01 Jun	VVV = Message numero deux = AR AR
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Several successive beeps sent at 1700z on both frequencies signifying end of games for the day? No more transmissions were heard but the beeps continued hourly on both frequencies.

Monday 02 June

No messages today. Beeps present hourly on 6961kHz & 7442kHz heard from 0700z – 2100z, so likely continuing 24 hours.

Tuesday 03 June

A better copy of parts of the 2nd message of Sunday, 01 June offering some corrections.

6961	1420z	03 Jun	VVV VVV VVV VVV = AA Avion lutin armoire acier mature = BB Retour bateau bois terre feu eau = CC Ener <i>[Ended suddenly]</i>
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6961	1722z	03 Jun	CQ TEST CQ TEST DE ICOM ICOM TEST (Rptd) <i>[Approx 10 mins Weaker stn.]</i>
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Beeps present hourly on 6961kHz & 7442kHz

Wednesday 04 June Signal was quite weak by this time with heavy static present on the frequency.

6961	1518z	04 Jun	CQ TEST CQ TEST DE ICOM ICOM TEST (Rptd) [Approx. 3 mins Weaker stn.]
6961	1747z	04 Jun	VVV VVV VVV VVV = AA Extinction surpuissant douceur = BB Plaine verdure lac determination = CC Tranche bonbons soda= DD Determination double unique extreme = AR AR
6961	1757z	04 Jun	Y4GT5 FDPD QKGS5 L2RB1 etc. Random groups containing letters & Numbers. Approx. 50 grps? RP DE VM RP DE VM RP DE VM RP RP RP ? RP DE VM K VVV X AA Sulbasaur I.Y Auua V Asaur charmarder charmarder squirt le war m.rtr blast = [Very poor copy]
	1803z	04 Jun	VVV VVV VVV VVV = AA Avion lutin armoire acier mature = BB Retour bateau bois terre feu eau = CC En [Ended suddenly]
			CQ CQ CQ DE RP K RP DE VM QRK RR QRU? [Op. chat. Partial copy only – poor copy]

Beeps present hourly on 6961kHz & 7442kHz

Thursday 05 June A new frequency found in use today. Sending combined parts of two sequences sent in April :-

6937	1522 (IP) – 1525z	05 Jun	15081769 (Rptd) [Continuous with no breaks]	BR	THU
	1600 – 1625z	05 Jun	15081769 (Rptd) [Continuous with no breaks]		
6937	1700 – 1725z	05 Jun	Series of slow Morse sequences consisting of 1, 2, 3, 4, 5 or 6 figures – (and X twice)	BR	THU
			1 4 7 10 13 16 202 6 8 10 1 3 16 223 24 22 16 14 12 94 2 160 360 72 18 9 35 3 8 12 24 48 9 66 2 3 5 8 13 20 347 3 5 9 17 33 65 1308 1000 1012 1026 1036 1048 11009 12 14 16 116 132 164105 10 20 25 35 40 4511 1 4 12 48 240 144012 0200 0140 0130 0100 0040 002013 48 52 66 75 84 9314 694 583 473 363 253 14315 46 43 40 36 31 2516 102 213 328 435 546 65717 0940 1005 1030 1055 1120 115518 10 60 120 189 240 36019 24 12 35 510 48 71420 976 864 753 742 531 4201 4 7 10 13 16 20 19 2 6 8 10 13 17 22 7 3 24 21 18 14 12 9 15 4 2 160 360 72 18 9 3 6 5 4 3 25 3 8 12 24 48 96 6 X 26 2 3 5 8 13 20 34 1 4 7 10 13 16 202 6 8 10 13 17 223 24 21 18 14 12 94 2 160 360 72 18 9 35 3 8 12 24 48 96 966 2 3 58 1320 347 3 5 9 17 33 65 1308 1000 1012 1026 1036 1048 11009 12 11 4 7 10 13 16 202 6 8 10 13 17 223 24 21 18 1 4 7 10 13 1 4 1 [Long Dash]		

Beeps present hourly on 6961kHz & 7442kHz at 0700z both gone by 1600z.

Beep active at H+57 on 6937kHz at 1657z, corrected to H+00 at 1800z but missing from 1900z onwards

Friday 06 June Another new frequency used today.

4951	1819 (IP) – 1825z	06 Jun	50505 55550 05550 05500 55005 (Rptd)	Strong	BR	FRI
	1900 – 1925z	06 Jun	50505 55550 05550 05500 55005 (Rptd)	Fair fading to Weak	BR	FRI
	2000 – 2025z	06 Jun	15081769 (Rptd) [Continuous with no breaks]	Strong	BR	FRI
	2100 – 2125z	06 Jun	15081769 (Rptd) [Continuous with no breaks]	Weak	BR	FRI
	2144 – 2210z	06 Jun	LO48636017 LA1511114 (Rptd)	Strong	BR	FRI

(Note the difference in signal strength on the 1900z & 2100z transmissions – Two locations?) No monitoring carried out between 1245 – 1815z today

Saturday 07 Jun

6937	1700 – 1725z	07 Jun	1 4 7 10 13 16 202 6 8 10 1 3 1618 1 4 7 10 13 1 4 1 [Long Dash] (Full repeat of transmission from 05 Jun at 1700z)	Strong	BR	SAT
4951	1800 – 1825z	07 Jun	50505 55550 05550 05500 55005 (Rptd)	Strong	BR	SAT
	1900 – 1925z	07 Jun	50505 55550 05550 05500 55005 (Rptd)	Fair to weak	BR	SAT
	2000z	07 Jun	Beep at H+00 – No transmission		BR	SAT
	2100 – 2125z	07 Jun	15081769 (Rptd) [Continuous with no breaks]	Fair to weak	BR	SAT
	2144 – 2210z	07 Jun	LO48636017 LA1511114 (Rptd)	Strong	BR	SAT

Sunday 08 Jun

4951	1800 – 1825z	08 Jun	50505 55550 05550 05500 55005 (Rptd)	Strong	BR	SUN
	1900 – 1925z	08 Jun	50505 55550 05550 05500 55005 (Rptd)	Weak	BR	SUN
	2000 – 2025z	08 Jun	15081769 (Rptd) [Continuous with no breaks]	Strong	BR	SUN
	2100 – 2125z	08 Jun	15081769 (Rptd) [Continuous with no breaks]	Weak	BR	SUN
	2144 – 2210z	08 Jun	LO48636017 LA1511114 (Rptd)	Strong	BR	SUN

(Note, again, the difference in signal strength on the alternate transmissions – Two locations or reduced power?)

Monday 09 June

6937	1700 – 1725z	09 Jun	1 4 7 10 13 16 202 6 8 10 1 3 1618 1 4 7 10 13 1 4 1 [Long Dash] (Full repeat of transmission from 05 Jun at 1700z)	Strong	BR	MON
4951	1800 – 1825z	09 Jun	50505 55550 05550 05500 55005 (Rptd)	Strong	BR	MON
	1900 – 1925z	09 Jun	50505 55550 05550 05500 55005 (Rptd)	Weak	BR	MON
	2000 – 2025z	09 Jun	15081769 (Rptd) [Continuous with no breaks]	Strong	BR	MON

2100 – 2125z	09 Jun	15081769 (Rptd)	[Continuous with no breaks]	Weak	BR	MON
2144 – 2210z	09 Jun	LO48636017 LA1511114 (Rptd)		Strong	BR	MON

Tuesday 10 June

6937	1400 – 1425z	10 Jun	15081769 (Rptd)	[Continuous with no breaks]		AB	TUE
	1500 – 1525z	10 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	TUE
	1600 – 1625z	10 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	TUE
	1700 – 1725z	10 Jun	1 4 7 10 13 16 202 6 8 10 1 3 16 18 1 4 7 10 13 1 4 1 [Long Dash]	(Full repeat of transmission from 05 Jun at 1700z)	Strong	AB/BR	TUE
4951	1800 – 1825z	10 Jun	55550 05550 05500 55005 50505 (Rptd)		Strong	AB/BR	TUE
	1900 – 1925z	10 Jun	55550 05550 05500 55005 50505 (Rptd)		Weak	AB/BR	TUE
	2000 – 2025z	10 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	TUE
	2052 – 2055z	10 Jun	26391 26391 263 91 593 593 593 (Rptd)	[Hand-sent Short zero]	Strong	AB/BR	TUE

111 999 475 10 =
74102 22154 85631 22154 85631
75361 12109 45240 09855 24561 = 475 10
111 999 475 10 111 000

2100 – 2125z	10 Jun	15081769 (Rptd)	[Continuous with no breaks]	Weak	AB/BR	TUE
2144 – 2210z	10 Jun	LO48636017 LA1511114 (Rptd)		Strong	AB/BR	TUE

(Note 10 group message sent at 2052z using 111 999 – an M01a format, along with short zeros. Russian showing a presence or a simulated Russian message as part of the exercise?)

Wednesday 11 June to Sunday 15 June

6937	1400 – 1425z	11-15 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	WED/SUN
	1500 – 1525z	11-15 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	WED/SUN
	1600 – 1625z	11-15 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	WED/SUN
	1700 – 1725z	11-15 Jun	1 4 7 10 13 16 202 6 8 10 1 3 1618 1 4 7 10 13 1 4 1 [Long Dash]	(Full repeat of transmission from 05 Jun at 1700z)	Strong	AB/BR	WED/SUN
4951	1800 – 1825z	11-15 Jun	50505 55550 05550 05500 55005 (Rptd)		Strong	BR	WED/SUN
	1900 – 1925z	11-15 Jun	50505 55550 05550 05500 55005 (Rptd)		Weak	BR	WED/SUN
	2000 – 2025z	11-15 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	BR	WED/SUN
	2100 – 2125z	11-15 Jun	15081769 (Rptd)	[Continuous with no breaks]	Weak	BR	WED/SUN
	2144 – 2210z	11-15 Jun	LO48636017 LA1511114 (Rptd)		Strong	BR	WED/SUN

Ary alerted us to new activity noted on Sunday, 15 June – reported via UDXF, on 9886kHz. The log was for 1300z but Ary believed activity may have been from 0700 – 1300z. See the following logs...

9886	50505 55550 05550 etc followed by 15081769 etc.	(Via UDXF Group)	AB	SUN
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Monday 16 June - Tuesday 17 June

9886	0700 – 0725z	16-17 Jun	1 4 7 10 13 16 202 6 8 10 1 3 1618 1 4 7 10 13 1 4 1 [Long Dash]	Strong	AB/BR	MON/TUE	
	0800 – 0825z	16-17 Jun	50505 55550 05550 05500 55005 (Rptd)	Weak	AB/BR	MON/TUE	
	0900 – 0925z	16-17 Jun	1 4 7 10 13 16 202 6 8 10 1 3 1618 1 4 7 10 13 1 4 1 [Long Dash]	Strong	AB/BR	MON/TUE	
	1000 – 1025z	16-17 Jun	50505 55550 05550 05500 55005 (Rptd)	Weak	AB/BR	MON/TUE	
	1100 – 1125z	16-17 Jun	1 4 7 10 13 16 202 6 8 10 1 3 1618 1 4 7 10 13 1 4 1 [Long Dash]	Strong	AB/BR	MON/TUE	
	1200 – 1225z	16-17 Jun	50505 55550 05550 05500 55005 (Rptd)	Strong	AB/BR	MON/TUE	
	1300 – 1325z	16-17 Jun	15081769 (Rptd)	Weak	AB/BR	MON/TUE	
6937	1400 – 1425z	16-17 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	MON/TUE
	1500 – 1525z	16-17 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	MON/TUE
	1600 – 1625z	16-17 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	MON/TUE
	1700 – 1725z	16-17 Jun	1 4 7 10 13 16 202 6 8 10 1 3 1618 1 4 7 10 13 1 4 1 [Long Dash]	Strong	AB/BR	MON/TUE	
4951	1800 – 1825z	16-17 Jun	50505 55550 05550 05500 55005 (Rptd)		Strong	AB/BR	MON/TUE
	1900 – 1925z	16-17 Jun	50505 55550 05550 05500 55005 (Rptd)		Weak	AB/BR	MON/TUE
	2000 – 2025z	16-17 Jun	15081769 (Rptd)	[Continuous with no breaks]	Strong	AB/BR	MON/TUE
	2100 – 2125z	16-17 Jun	15081769 (Rptd)	[Continuous with no breaks]	Weak	AB/BR	MON/TUE
	2144 – 2210z	16-17 Jun	LO48636017 LA1511114 (Rptd)		Strong	AB/BR	MON/TUE

This adds hourly transmissions from 0700 – 1300z to the existing schedules. As with the 1800 -2144z transmissions, the pattern appears to alternate a strong transmission with one much weaker.

Due to conditions, some of the weaker schedules at 0800z, 1000z, & 1300z were inaudible or difficult to confirm, but using an Italian SDR stronger signal strengths were received & all schedules were confirmed.

Wednesday 18 June

9886	All schedules present from 0700z - 1300z as Mon16 – Tue 17 June.
6937	No transmissions – No hourly beeps present.
4951	No transmissions – No hourly beeps present.

Thursday 19 June – Thursday 26 June

No transmissions now on all three frequencies. 6937kHz & 4951kHz both inactive.

The last transmissions from this series were on Wednesday, 18 June, with the hourly 0700 – 1300z transmissions on 9886kHz. The other two frequencies, used in the afternoon and evening were silent.

The hourly beeps continued on 9886kHz only, consisting of two beeps close to the hour. By Tuesday 24 June this had reduced to one beep and on Wednesday 25 June the beep was heard at 0800z but was missing when checked again at 2000z & 2100z. On Thursday 26 June nothing more was heard.

Conclusion

So ended the longest & most extensive series of transmissions we have monitored from the M23 station. The content of the transmissions, combined with the information concerning the French exercise detailed below, provides more evidence, (if any was indeed needed) that the M23 station(s) are operated by the French military for the purpose of training & exercise & in the case of conflict would also most likely become operational.

What was Behind M23's Largest Series of Transmissions

This huge increase in transmissions coincided with the largest naval exercise carried out by the French military.

POLARIS 25 France kicks off POLARIS 25 – French Navy's largest exercise

<https://www.navalnews.com/naval-news/2025/05/france-kicks-off-polaris-25-french-navys-largest-exercise/>

Polaris 25 Wraps up With Live Fire & Refuelling Exercise

<https://navyleaders.com/news/polaris-25-wraps-up-with-live-fire-and-refuelling-exercise/>

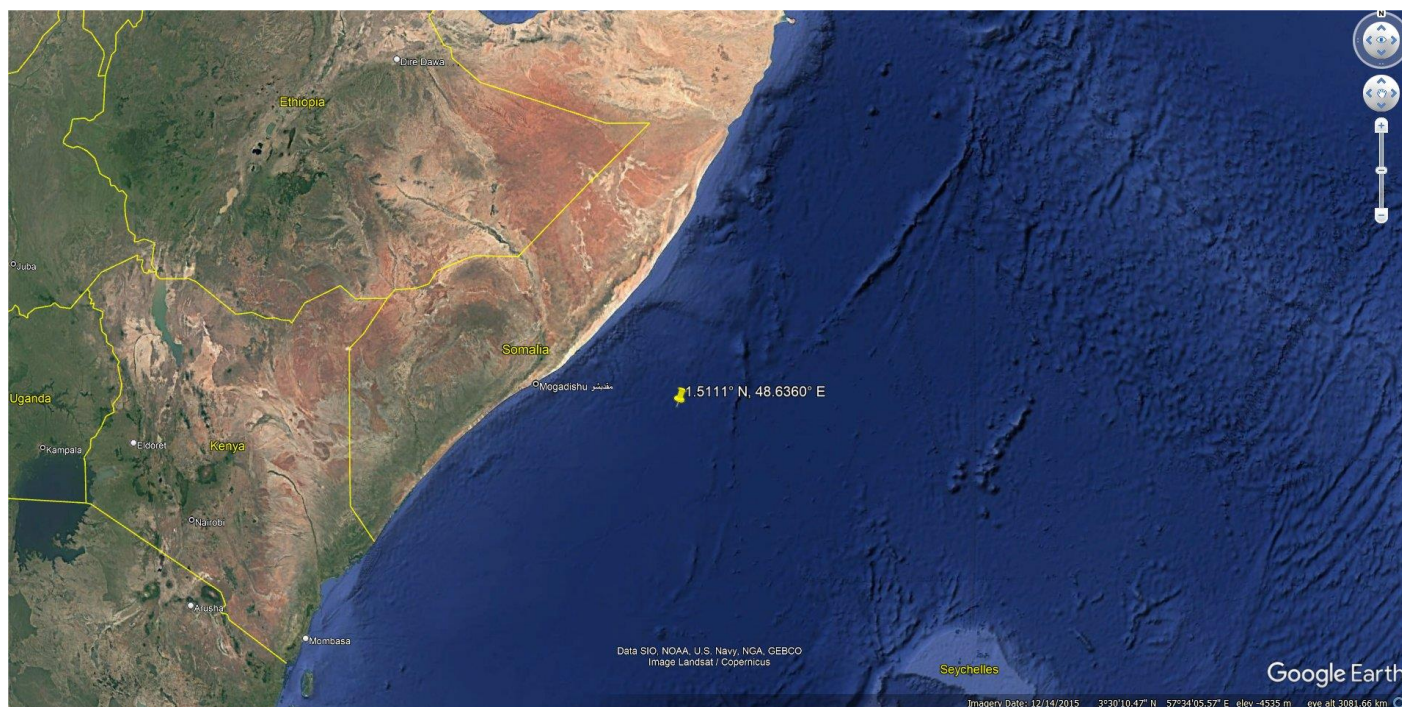
Once again, we offer our thanks to Ary, (AB), for his help in providing much of the logs & content of the M23 station & allowing its use in this column.

Finally a follow-up to the previous newsletter & a correction:-

The Coordinates – A correction

In the last newsletter, May 2025 NL148, I had taken the coordinates & using Google maps came up with a location in Nogent Le Roi, France – which seemed correct with M23 being a French station. Although I used the correct figures, I had the latitude & longitude reversed.

Using the correct coordinates we are given an ocean location off the coast of Somalia. My apologies for this error. No doubt the British navy will be grateful I didn't choose that career path. (BR)



Google Earth image showing the Location at 48.6360° E, 1.5111° N

Coast of Somalia

Revisiting an April M23 Transmission – Information Received

In our last newsletter we featured this transcript of an M23 transmission;-

Transcript of transmission 6937kHz 1800 - 1825 Sat 26 April 2025

LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT
LES ARBRES SONT EN FLEURS
LA SOUPE AUX CHOUX
LE PERE NOEL EST UNE ORDURE
LE DINER DE CON
LES BRONZES FONT DU SKI
BIENVENU A GALA SWING A BIP BIP
LES HOMMES VIENNENT DE MARS E LES FEMMES DE VENUS

LO48636017 LA1511114 (repeated) 15081769 (repeated).

Courtesy AB

Alex (F4VTS), saw this transcript & with his local knowledge of French culture he was able to shed some light on some of the phrases used.

Here is Alex's response:-

In the latest edition of ENIGMA newsletter, we noticed some unusual phrases being transmitted by the French station M23. It seems interesting to look into the meaning of these texts. They are actually mostly titles of films and books:

- La Soupe aux choux – a 1981 French science fiction comedy film directed by Jean Girault.
- Le Père Noël est une ordure – a cult comedy film released in 1982, directed by Jean Marie Poiré.
- Le Dîner de cons – a 1998 French comedy film written and directed by Francis Veber.
- Les Bronzés font du ski – a very popular French comedy film released in 1979.
- Les Hommes viennent de Mars, les femmes viennent de Vénus – the French edition of John Gray's bestselling self- help book Men Are from Mars, Women Are from Venus (originally published in 1992, French translation 1994).

Given the era of these films and publications, the author of this sequence may likely be in their 50s or 60s.

SALUT LA COMPAGNIE ("Hello, Company ? – here, Company refers perhaps to the fundamental sub-unit of a regiment).

According to the history and organization of the 8th Signal Regiment (Vernon, Kremlin Bicêtre, Mont St. Valérien...), the regiment included, among others:

- Radio Companies SR (four battalions with two radio companies, SR 3 and SR 4)
- Compagnie de commandement et de soutien – command and support companies providing communications, logistics, and administrative services
- Specialized companies, e.g. a satellite communications security company

BIENVENU A GALA SWING A BIP BIP ("Welcome to the 'beep beep' Gala Swing ?) – sounds like an invitation to a Morse code gala!

Our thanks to Alex (F4VTS)

We can add two more to the list, we think:-

- Les arbres sont en fleurs – a song sung in French by Nana Mouskouri & released in 1968. We did wonder why Nana Mouskouri, a Greek born singer, would be singing in French, however, a digital dive showed that Nana amazingly released an estimated 450 albums in at least 15 languages!
- Bienvenu a Gala swing a bip bip was recognised as a song that appears in Les Bronzés – A comedy film from 1978

Morse Stations - Not Number Related

M32 Russian / CIS Ukrainian Military Nets FAPSI (Federal Agency for Government Communications & Information)

This one caught the attention of BR. Instead of the usual call-ups & net traffic, it was repeating the same message over & over again.

8181 1924 (IP) – 1927z 14 May KE4T KE4T KE4T DE L2RS L2RS QSA NO QSY 53954 QSY 53954 [Repeated ends 1927z] BR WED

M42 IC

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

Mode is Morse or Baudot ITA2 50/500, (RTTY - FSK) 3rd Cyrillic alphabet with Op. chat in CW both before & after the main message transmission.

A Difficult Session

Ary, (AB), reports this lengthy exchange between the Ministry of Foreign Affairs in Moscow & The Russian Embassy in Havana, Cuba, where it took over half an hour to exchange two messages.

The exchange uses duplex frequency working, with a number of frequency changes to try to establish a working link. UAL – Moscow is shown in the left column, with UAG – Cuba in the right column.

[illegible]

No reports – M51b format in use

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

3881//6825

1131 - 1201z	03 Jun	Mardi-Leçon	02-2/1 Codé	02-2/2 Clair,	02-2/3 Codé,	02-2/4 Clair (600 grps/hr)	BR	TUE
0700 -	10 May	Samedi /Leçon	1/2 Codé	2/2 Clair		(600 grps/hr)	BR	SAT
0700 – 0735z	07 Jun	Samedi 4/Leçon	1/1 Codé	2/1 Clair		(420 gprs/ht)	BR	SAT

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

3881	2205z	07 Jun	ZJHVT DUJZM QKAOH GBCOQ BWNHT MLAUH VBDTR SGQHA HWJQK AKLPA	Fair	PLdn	SAT
6825	0918z 1035z	26 May 02 Jun	XCAIK LOMAI PQKAU DHSJR ZTGSH etc. UWMTM S-VMT CNBE2 etc.	Fair Poor sigs, QSB to nil	PLdn PLdn	MON TUE

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).

3711	4348 4721 4756.5 4832 4858 4952 4956	5122 5242 5311 5558 5665 5817 5877	6233 6777 6801 6833	8060 8080 8178 8384 8410 8452	9048
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New Schedules for May / Jun 2025:

From logs submitted from JPL

4720	Rediscovery of known M89 Station	First heard 19 May	VVV WNF (x3) DE FXM (x2)
5150	Rediscovery of known M89 Station	First heard 20 May	VVV WNF (x3) DE FXM (x2)
7620	Rediscovery of known M89 Station	First heard 19 May	VVV WNF (x3) DE FXM (x2)
4726	New Frequency & Call Sign	First heard 31 May	VVV QPL (x3) DE 4WQ (x2)
4850	New Frequency & Call Sign	First heard 31 May	VVV UIS (x3) DE HVV (x2)
	New Call Sign for this Frequency	First heard 01 June	VVV UND (x3) DE CD2 (x2)
	New Call Sign for this frequency	First heard 22 Jun	VVV YIG (x3) DE CQ2 (x2)
4850//5450	// Frequency found	First heard 23 Jun	VVV YIG (x3) DE CQ2 (x2)
7620	New Call Sign for this frequency	First heard 13 Jun	VVV UIS (x3) DE HV4 (x2)
4720//5150	Confirmed Pairing of two frequencies	First heard 20 May	VVV WNF (x3) DE FXM (x2)
7620// 8350	// Frequency found	First heard 30 May	VVV WNF (x3) DE FXM (x2)
8375//12124	Confirmed Pairing of two frequencies	First heard 27 May	V 3JWV (x3) DE QSV9 (x2)
4357//12124	Confirmed Pairing of two frequencies	First heard 31 May	V 3JWV (x3) DE QSV9 (x2)
5742//8375//12124	All three frequencies active	First heard 24 Jun	V 3JWV (x3) DE QSV9 (x2)

Chart of M89 Freq & Call signs heard in May / Jun 2025

New Schedules shown in Bold Type

From logs submitted from JPL

<u>Freq in KHz</u>	<u>Call Slip</u>
4118	V 3JWV (x3) DE QSV9 (x2)
4122	V C5ER (x3) DE 9UTL (x2)
4357	V 3JWV (x3) DE QSV9 (x2)
4357//5742	V 3JWV (x3) DE QSV9 (x2)
4357/5742/8375/12124	V 3JWV (x3) DE QSV9 (x2)
4357//12124	V 3JWV (x3) DE QSV9 (x2)
4720	VVV WNF (x3) DE FXM (x2)
4720//5150	VVV WNF (x3) DE FXM (x2)
4726	VVV QPL (x3) DE 4WQ (x2)
4850	VVV UIS (x3) DE HVV (x2) VVV UND (x3) DE CD2 (x2) VVV YIG (x3) DE CQ2 (x2)
4850//5450	VVV YIG (x3) DE CQ2 (x2)

<u>Freq in kHz</u>	<u>Call Slip</u>
4860// 6840	V Q2M (x3) DE NYZ (x2)
5150	VVV WNF (x3) DE FXM
5742//8375//12124	V 3JWV (x3) DE QSV9 (x2)
6840//NRH	VVV (x3) Q2M (x3) DE NYZ (x2)
6817	V C5ER (x3) DE 9UTL (x2)
7620	VVV WNF (x3) DE FXM (x2) VVV UIS (x3) DE HV4 (x2)
7620//8350	VVV WNF (x3) DE FXM (x2)
8350	VVV WNF (x3) DE FXM (x2)
8375	V 3JWV (x3) DE QSV9 (x2)
8375//12124	V 3JWV (x3) DE QSV9 (x2)
12124	V 3JWV (x3) DE QSV9 (x2)

Courtesy JPL

Logs:

Note: The EEE before Msg NR actually the barred letter E in morse /../. I believe this denotes a high priority message, ie Flash msg.

3711	(In tfc)	1607z	10 Jun	NR 1291/EX 0006 BT WSB/B5X AR QSY 4 VVV	(Remote tuner Japan)	JPL	TUE
4118		1216z	01 Jun	V 3JWV (x3) DE QSVP (x2) NR 0699 CK 99 86 06 01 1945 RMKS 2991 TO 2935 BT	(Remote tuner Japan)	JPL	SUN
4122		1220z	08 May	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Japan)	JPL	THU
		1803z	13 May	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Novosibisk)	JPL	TUE
		1553z	17 May	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Japan)	JPL	SAT
		1639z	21 May	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Hong Kong)	JPL	WED
		1703z	30 May	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Japan)	JPL	FRI
		1715z	31 May	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Japan)	JPL	SAT
		1155z	23 Jun	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Japan)	JPL	MON
		1909z	23 Jun	Note: 1st time heard this month. Round Slip seems to be backward - 9UTL C5UA C5UA C5UA DE CSER V C5ER (x3) DE 9UTL (x2)	(Remote tuner Japan)	JPL	MON
				Note: 1st time heard this month. Round Slip seem to be backward - 9UTL C5UA C5UA C5UA DE CSER			
4348	(In tfc)	1103z	27 Jun	SVC NR 1362 2220 SVC QRW RMF 8497 TO 4291/4499/4040 BT QRW E90 4291 2350 COMM 747 AR K HR WK 299 K	(Remote tuner Japan)	JPL	FRI
4357		1203z	15 May	V 3JWV (x3) DE QSVP (x2) NR 1929/.Z 2003 RMKS 8555 TO 8019 BT 1001 7775 NS 773 7770 7744 7771 5940 2112 3777 7730 3439 7478 7348 7445 7748 7777 AR Note: Very rare to send messages not using cut numbers.	(Remote tuner Japan)	JPL	THU
		1211z	01 Jun	V 3JWV (x3) DE QSVP (x2) NR 2177/MZ 2010 RMKS 9686 TO 9962 BT Note: First I see /MZ after the message number. As well, this short message was sent using full numbers, vice cut numbers.	(Remote tuner Japan)	JPL	SUN
		1938z	22 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	SUN
		1651z	21 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	WED
4357//5742		1610z	03 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	SAT
		1226z	08 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	THU
		1758z	13 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Novosibirsk)	JPL	TUE
		1155z	15 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	THU
		1550z	17 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	SAT
		1158z	30 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	FRI
		1734z	30 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	FRI
		1543z	01 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	SUN
		1640z	04 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	WED
		1605z	05 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	THU
		1650z	06 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	FRI
		1202z	09 Jun	V 3JWV (x3) DE QSVP (x2) NR 2255/MZ 2003 RMKS 9666 TO 9998 BT (This msg was using full numbers using long zero, vice cut numbers).	(Remote tuner Japan)	JPL	MON
		1204z	10 Jun	V 3JWV (x3) DE QSVP (x2) NR ... CK 99 46 06 10 2015 RMKS 9666 TO 9916 9476 9981 BT (1212z)	(Remote tuner Japan)	JPL	TUE
		1458z	13 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Taiwan)	JPL	FRI
		1157z	23 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	MON
		1906z	23 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	MON
4357/5742/8375/12124		1155z	20 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Taiwan)	JPL	FRI
		1119z	26 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	THU
4357//12124		1713z	31 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	SAT
4720		1630z	19 May	VVV WNF (x3) DE FXM (x2) Note: Known M89 station. Same format at NYZ.	(Remote tuner Thailand)	JPL	MON
		1830z	31 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	SAT
4726		1830z	31 May	VVV QPL (x3) DE 4WQ (x2)	(Remote tuner Thailand)	JPL	SAT
		1630z	02 Jun	VVV QPL (x3) DE 4WQ (x2)	(Remote tuner Hong Kong)	JPL	MON
4720//5150		1430z	20 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	TUE
		1630z	21 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	WED
		1330z	02 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	MON
		1630z	02 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	MON
		1630z	06 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	FRI
		1530z	23 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	MON
		1830z	24 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	TUE
4721	(Into tfc)	1602z	26 Jun	NR 1732/EX 0000 BT EO2/CA0 AR QSY 04 QSY 04 VVV	(Remote tuner Japan)	JPL	THU
	3S5M	1606z	26 Jun	FFF NR 1734/EX 0006 BT TA2/O8E4 AR QSY 06 QSY 06 VVV	(Remote tuner Japan)	JPL	THU
756.5	(In tfc)	1647z	04 Jun	ABC DE FGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (Con't)	(Remote tuner Japan)	JPL	WED

4832	(In tfc)	1209z	15 May	NR ... CK.9 85 0515 0900 RMKS 8221 TO 60 BT NR ... CK.9 85 0515 0900 RMKS 8221 TO 60 BT		(Remote tuner Japan)	JPL	THU
4850		1840z	31 May	VVV UIS (x3) DE HVV (x2)		(Remote tuner Thailand)	JPL	SAT
		1142z	01 Jun	VVV UND (x3) DE CD2 (x2)	New call.	(Remote tuner Thailand)	JPL	SUN
		1340z	02 Jun	VVV UIS (x3) DE HVV (x2)	Changed call again	(Remote tuner Thailand)	JPL	MON
		1640z	02 Jun	VVV UND (x3) DE CD2 (x2)		(Remote tuner Hong Kong)	JPL	MON
		1640z	06 Jun	VVV UIS (x3) DE HV4 (x2)		(Remote tuner Thailand)	JPL	FRI
		1340z	12 Jun	VVV UIS (x3) DE HV4 (x2)		(Remote tuner Thailand)	JPL	THU
		1943z	22 Jun	VVV YIG (x3) DE CQ2 (x2)	Another new call.	(Remote tuner Thailand)	JPL	SUN
		1340z	23 Jun	VVV YIG (x3) DE CQ2 (x2)		(Remote tuner Thailand)	JPL	MON
		1840z	24 Jun	VVV YIG (x3) DE CQ2 (x2)		(Remote tuner Thailand)	JPL	TUE
4850//5450		840z	23 Jun	VVV YIG (x3) DE CQ2 (x2)		(Remote tuner Thailand)	JPL	MON
4858	(In tfc)	1750 - 1753z	13 May	NR 161/EX 1914 RMKS 9975 TO 9971 BT X8N/P4 AR K EEE NR 034/EX 1630 RMKS 6692 TO 6696 BT XW/C. AR		(Remote tuner Novosibirsk)	JPL	TUE
4860//6840		1120z	01 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Taiwan)	JPL	THU
		1120z	08 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Taiwan)	JPL	THU
		1745z	13 May	V Q2M (x3) DE NYZ (x2)	[Note 1]	(Remote tuner Novosibirsk)	JPL	TUE
		1120z	15 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Novosibirsk)	JPL	THU
		1720z	17 May	V Q2M (x3) DE NYZ (x2)	[Note 2]	(Remote tuner Hong Kong)	JPL	SAT
		1220z	18 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	SUN
		1620z	18 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	SUN
		1920z	18 May	V Q2M (x3) DE NYZ (x2)	[Note 3]	(Remote tuner Thailand)	JPL	SUN
		1155z	20 May	V Q2M (x3) DE NYZ (x2)	4860 and 6840 N/H at 1220z	(Remote tuner Thailand)	JPL	TUE
		1355z	20 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	TUE
		1405z	20 May	V Q2M (x3) DE NYZ (x2)	N/H between 1410z until 1555z	(Remote tuner Taiwan)	JPL	TUE
		1555z	20 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Taiwan)	JPL	TUE
		1655z	20 May	V Q2M (x3) DE NYZ (x2)	N/H between 1755z until 1820z	(Remote tuner Taiwan)	JPL	TUE
		1820z	20 May	V Q2M (x3) DE NYZ (x2)	N/H between 1820z until 1920z	(Remote tuner Taiwan)	JPL	TUE
		1920z	20 May	V Q2M (x3) DE NYZ (x2)	N/H between 1925z to 2020z	(Remote tuner Taiwan)	JPL	TUE
		2020z	20 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Taiwan)	JPL	TUE
		1620z	21 May	V Q2M (x3) DE NYZ (x2)	N/H between 1625z and 1720z.	(Remote tuner Hong Kong)	JPL	WED
		1720z	21 May	V Q2M (x3) DE NYZ (x2)	N/H between 1725z and 1820z.	(Remote tuner Hong Kong)	JPL	WED
		1820z	21 May	V Q2M (x3) DE NYZ (x2)	N/H between 1825z and 1920z.	(Remote tuner Hong Kong)	JPL	WED
		1920z	21 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Hong Kong)	JPL	WED
		0020z	22 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Hong Kong)	JPL	THU
		1120z	22 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Hong Kong)	JPL	THU
		1805z	27 May	V Q2M (x3) DE NYZ (x2)	Monitored until 1925z – N/H	(Remote tuner Novosibirsk)	JPL	TUE
		1120z	30 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	FRI
		1720z	31 May	V Q2M (x3) DE NYZ (x2)		(Remote tuner Japan)	JPL	SAT
		1320z	02 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Hong Kong)	JPL	MON
		1620z	02 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Japan)	JPL	MON
		1520z	05 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	THU
		1120z	09 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	MON
		1620z	10 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	TUE
		1320z	12 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Hong Kong)	JPL	THU
		1820z	13 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Japan)	JPL	FRI
		1120z	20 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	FRI
		1320z	23 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Thailand)	JPL	MON
		1840z	23 Jun	V Q2M (x3) DE NYZ (x2)	[Note 4]	(Remote tuner Hong Kong)	JPL	MON
		1820z	24 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Hong Kong)	JPL	TUE
		1520z	25 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Hong Kong)	JPL	WED
		1120z	26 Jun	V Q2M (x3) DE NYZ (x2)		(Remote tuner Japan)	JPL	THU
Note 1: NYZ copied at 1745z. Until then, this sked only heard during the 20-25 time frame. Note 2: Monitored at 1745z, but not heard from Hong Kong and Thailand. Note:3 Monitored NYZ at 1250z, 1650z, 1850z, 1950z but not heard. Note 4: OTA at 1840z. Normally sked is between 20 to 25 minute past the hour. This sked was 35 to 40.								
4952	(In tfc)	1611z	05 Jun	EEE NR 6911/EX 0012 RMKS 0381 TO 0314 BT GIK1/SBV2 AR K		(Remote Tuner Japan)	JPL	THU
4956	(In tfc)	1622z	10 Jun	QSY 22 QSY 22 VVV		(Remote tuner Japan)	JPL	TUE
5150		1530z	20 May	VVV WNF (x3) DE FXM (x2)		(Remote tuner Hong Kong)	JPL	TUE
		1030z	31 May	VVV WNF (x3) DE FXM (x2)		(Remote tuner Thailand)	JPL	SAT
		1330z	12 Jun	VVV WNF (x3) DE FXM (x2)		(Remote tuner Thailand)	JPL	THU
5122	(In tfc)	1658z	01 Jun	NR 024 CK 139 41 06 02 0052 RMKS 3963 TO 3962 BT NR 025 CK 139 31 06 02 0114 RMKS 3963 TO 3962 BT		(Remote tuner Japan)	JPL	SUN
5311	(In tfc)	1624z	10 Jun	NR 1186/EX 0024 BT ST4/C5R2 AR QSY 23 VVV		(Remote tuner Japan)	JPL	TUE
5487		1346z	12 Jun	V TW.D DE YH8P		(Remote tuner Thailand)	JPL	THU
5665	(In tfc)	1654z	02 Jun	NR 066 CK 139 80 06 03 0050 RMKS 8574 TO 8686 BT		(Remote tuner Hong Kong)	JPL	MON
5742//8375//12124		1052z	24 Jun	V 3JWV (x3) DE QSVP (x2)		(Remote tuner Taiwan)	JPL	TUE

5817	(In tfc)	1120z	18 May	NR 6603 CK 51 55 0519 0000 RMKS 4314 TO 4383 BT	(Remote tuner Thailand)	JPL	SUN
5877	(In tfc)	1604z	01 Jun	NR 5724 CK 51 20 06 02 0000 RMKS 6610 TO 6613 BT	(Remote tuner Japan)	JPL	SUN
6233	(In tfc)	1815z	21 May	NR 255 CK 139 78 05 21 0230 RMKS 0470 TO 8302 BT	(Remote tuner Hong Kong)	JPL	WED
6777	(Into tfc)	1715z	30 May	NR 0106 CK 121 13 0531 0000 RMKS 6838 TO 6888 1P BT	(Remote tuner Japan)	JPL	FRI
6801	GIU6	1124z	09 Jun	EE NR 1508/EX 1924 BT U2J3/X6N7 AR QSY 21 QSY 21 VVV	(Remote tuner Thailand)	JPL	MON
6817		1159z	15 May	V C5ER (x3) DE 9UTL (x2)	(Remote tuner Japan)	JPL	THU
6833	8CHR	1415z	14 Jun	V 2953 DE 8CHR	(Remote tuner Thailand)	JPL	SAT
6840		1020z	05 Jun	V Q2M (x3) DE NYZ (x2)	(Remote tuner Japan)	JPL	THU
7620		2330z	19 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	MON
		0030z	22 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	THU
		1130z	22 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	THU
		1140z	13 Jun	VVV UIS (x3) DE HV4 (x2) (Note change of Call Sign)	(Remote tuner Thailand)	JPL	FRI
		1140z	20 Jun	VVV UIS (x3) DE HV4 (x2)	(Remote tuner Thailand)	JPL	FRI
		1140z	23 Jun	VVV UIS (x3) DE HV4 (x2)	(Remote tuner Hong Kong)	JPL	MON
		1130z	26 Jun	VVV WNF (x3) DE FXM (x2) (Back to original call)	(Remote tuner Japan)	JPL	THU
7620//8350		1130z	30 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	FRI
		1030z	31 May	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	SAT
		1130z	09 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	MON
8060	(In tfc)	0002z	01 May	EEE NR 1442/EX 0803 BT 1EW9/2SN4 AR QSY 35 QSY 35	(Remote tuner Hong Kong)	JPL	THU
8080	(In tfc)	0032z	01 May	EEE NR 1445/EX 0806 BT 3YQ5/JXT0 AR QSY 36 QSY 36	(Remote tuner Hong Kong)	JPL	THU
8178	(Into tfc)	1145z	08 May	EEE NR 7205/EX 1945 RMKS 9129 TO 5278 BT K4/LPGG AR	(Remote tuner Thailand)	JPL	THU
8350		1130z	13 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	FRI
		1130z	20 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Thailand)	JPL	FRI
		1130z	23 Jun	VVV WNF (x3) DE FXM (x2)	(Remote tuner Hong Kong)	JPL	MON
8375		0019z	01 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Khabarovsk)	JPL	THU
		2347z	19 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	MON
		1100z	13 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	FRI
8375//12124		2255z	27 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	TUE
		1002z	31 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	SAT
		1017z	05 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	THU
8384	(In tfc)	1132z	05 Jun	NR 2419/EX 1932 RMKS 6632 TO 6616 BT FGG/6A AR	(Remote tuner Thailand)	JPL	THU
8410	(In tfc)	1141z	23 Jun	NR .89 CK 51 55 0623 1930 RMKS 1686 TO 5570 BT	(Remote tuner Hong Kong)	JPL	MON
8452	(In tfc)	1135z	05 Jun	F7N4 (Cont'd) EEE NR 032/EX 1935 BT Q2N0/B1K4 AR QSY 10 VV	(Remote tuner Thailand)	JPL	THU
9048	(In tfc)	1139z	05 Jun	EEE NR 9886/EX 1938 RMKS 0388 TO 0395 BT 6W8/8NJ AR	(Remote tuner Thailand)	JPL	THU
12124		0019z	01 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Khabarovsk)	JPL	THU
		2319z	19 May	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	MON
		1100z	13 Jun	V 3JWV (x3) DE QSVP (x2)	(Remote tuner Japan)	JPL	FRI

M89 5558kHz 1631z (In tfc) 10 June 2025

Call Sign SI3N

VVV DS7K DE SI3N K
R QSA 2 IEC BT J4FJ AR K
AS K

VVV 5KJD DE SI3N K
R QSA 2 IEC BT YD1M AR K
AS K

VVV CD4D DE SI3N
R QSA 2 ICE BT AR
AS K

VVV DHJY DE SI3N K
R QSA 2 ICE BT (Another station – FI3D – causing QRM)
AS K

VVV CK52 DE SI3N K
R QSA 2 ICE BT VR7K AR K
AS

VVV QLFD DE SI3N K
R QSA 2 IEC BT ALLQ AR
AS

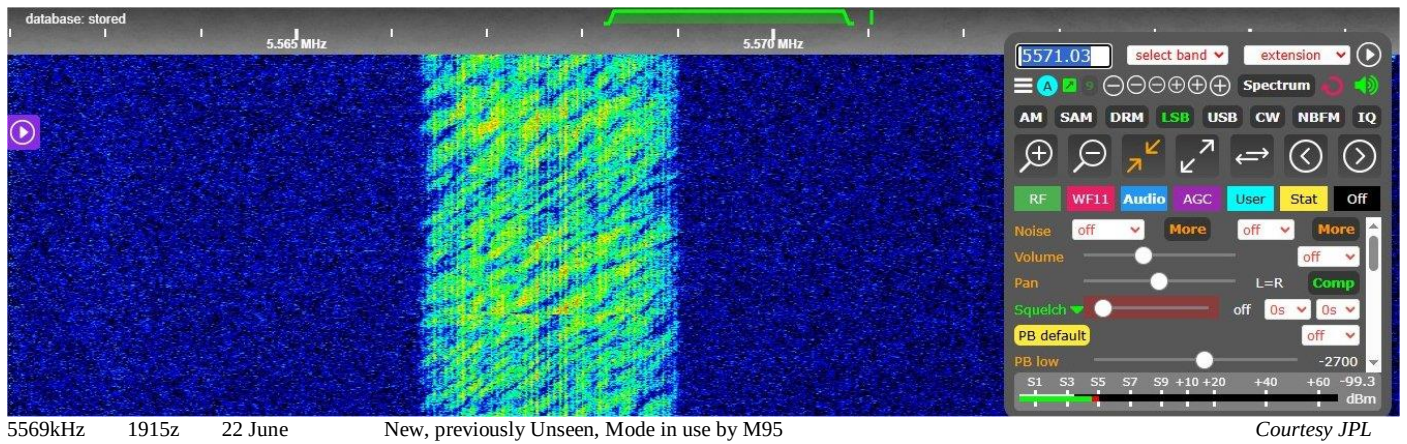
HR E GA NR 1184/EX 0040 BT F6HJ/R. AR

Courtesy JPL

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

3903	Call Sign V WCJJ (x3) DE HBDD (x2)			Replaced YHDX DE SAQC on 3968, 6936, 5479 & 10722kHz		
	1703z	21 May	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Novosibirsk)	JPL WED
	1558z	10 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Japan)	JPL TUE
3903//6886	Call Sign V WCJJ (x3) DE HBDD (x2)			Replaced YHDX DE SAQC on 3968, 6936, 5479 & 10722kHz		
	1606z	03 May	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Novosibirsk)	JPL SAT
	1738z	13 May	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Novosibirsk)	JPL TUE
	1650z	14 May	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Novosibirsk)	JPL WED
	1544z	17 May	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Novosibirsk)	JPL SAT
	1658z	30 May	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Novosibirsk)	JPL FRI
	1630z	04 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Japan)	JPL WED
	1503z	13 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Thailand)	JPL FRI
	1941z	22 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Japan)	JPL SUN
	1327z	23 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Thailand)	JPL MON
	1911z	23 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Thailand)	JPL MON
3904//6889	1531z	25 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Japan)	JPL WED
	1544z	26 Jun	V WCJJ (x3) DE HBDD (x2)		(Remote tuner Thailand)	JPL THU
4156	1200z	01May	(Into traffic - Poor copy)		(Remote tuner Taiwan)	JPL THU
	1158z	08 May	(Into traffic) NR 16 CK 241 35 05 081514 BT		(Remote tuner Taiwan)	JPL THU
	1140z	15 May	Into V26 - Into Q26 1142z - Into M95 1149z		(Remote tuner Japan)	JPL THU
			Unable to copy			
	1140z	20 May	Into V26 - Into Q26 1150z - Into M95 1149z		(Remote tuner Japan)	JPL TUE
			NR 060 CK 36 35 0520 1513 BT			
	1140z	15May	Into Q26 1142z - Into M95 1149z		(Remote tuner Japan)	JPL THU
			NR 054 CK 51 35 0522 BT			
	1150z	30 May	(Into traffic) NR 080 CK 21 35 05 30 1449 BT		(Remote tuner Taiwan)	JPL FRI
	1208z	01 Jun	(Into traffic) NR 045 CK 21 35 06 01 1606 BT		(Remote tuner Taiwan)	JPL SUN
	1149z	13 Jun	Into M95 1149z		(Remote tuner Japan)	JPL FRI
		NR 023 CK 24 35 0620 1507 BT				
		NR 40 CK 178 35 0620 1540 BT				
	1141z	26 Jun	Into V26 - Into M95 1149z		(Remote tuner Japan)	JPL THU
			NR 035 CK 40 35 0626 1454 BT			
			NR 52 CK 120 35 0626 1506 BT			
4156//9042	Note: Change in frequency - Previously on 9054 // 4243					
	1143z	10 Jun	In V26 - Into M95 1151z		(Remote tuner Japan)	JPL TUE
			NR 003 CK 38 35 06 10 1506 BT			
	1142z	13 Jun	In V26 - Into M95 1151z		(Remote tuner Japan)	JPL FRI
			NR 009 CK 38 35 06 13 1524 BT			
	1143z	14 Jun	In V26 - Into M95 1151z		(Remote tuner Japan)	JPL SAT
			NR 011 CK 54 35 0614 1522 BT			
	1145z	23 Jun	Into V26 - Into M95 1149z)		(Remote tuner Japan)	JPL MON
			NR 029 CK 29 35 0623 1446 BT			
			NR 45 CK 125 35 0623 1535 BT			
4532	Call Sign XS30	Note: Change in frequency				
	1132z	30 May	In V26 - Into Q26 1133z - Into M95 1140z		(Remote tuner Thailand)	JPL FRI
			V BNGC DE XS30 Missed message number.			
	1204z	01 Jun	Into M95 NR 0544 CK 038 35 06 01 1611 BT		(Remote tuner Thailand)	JPL SUN
4542	Call Sign XS30	Believe this is new frequency and call for XSV85 the sked previously on 8073 & 4364kHz.				
	0001z	01 May	(Into V26 - Into Q26 0002Z - Into M95 008Z)		(Remote tuner Hong Kong)	JPL THU
			V BNBC DE XS30 NR 0369 CK ...1 35 05 01..... BT		(Poor copy)	
	1130z	01 May	Into V26 - Into Q26 1131z		(Remote tuner Hong Kong)	JPL THU
			Into M95 1138z - Into V26 1157z			
			V BNGC DE XS30 NR 0370 CK 148 35 05 011547 BT			
	1131z	08 May	Into V26 - Into Q26 1133z		(Remote tuner Thailand)	JPL THU
			Into M95 1140z - Into V26 1157z			
			V BNGC DE XS30 NR 0384 CK 251 35 05 081640 BT			
	1129z	15 May	Into V26 - Into Q26 1130z		(Remote tuner Hong Kong)	JPL THU
			Into M95 1135z - Into V26 1157z			
			V BNGC DE XS30 NR 0398 CK 142 35 0515 1642 BT			
	1135z	20 May	Into Q26 1130z - Into M95 1135z - Into V26 1157z)		(Remote tuner Hong Kong)	JPL TUE
			V BNGC DE XS30 NR 0408 CK 193 35 05 20 1553 BT			
	1129z	22 May	Into V26 - Into Q26 1130z - Into M95 1135z)		(Remote tuner Hong Kong)	JPL THU
			Note: M95 sked silent. Operator error???			
4876	(In tfc)	1211z	15 May	NR 1005/CCK CK 91 44 0529451 RMKS 8325 TO 83.2 BT	(Remote Japan)	JPL THU
	(In tfc)	1549z	23 Jun	NR 099/CCK CK 81 42 0623 2350 RMKS 6333 TO 6487 BT	(Remote Thailand)	JPL MON
5504	(In tfc)	1554z	24 Jun	NR 246 CK 51 75 0624 2340 RMKS 0428 TO 0.92 BT	(Remote tuner Taiwan)	JPL TUE
5569		1915z	22 Jun	In V26 TFC - OTA 1916z - Weaker V26 Station in TFC - 1917z - OTA 1925z	(Remote tuner Japan)	JPL SUN

Note: First came back with a short tx is a different mode. Weaker station replayed in new mode. Included print screen shot.

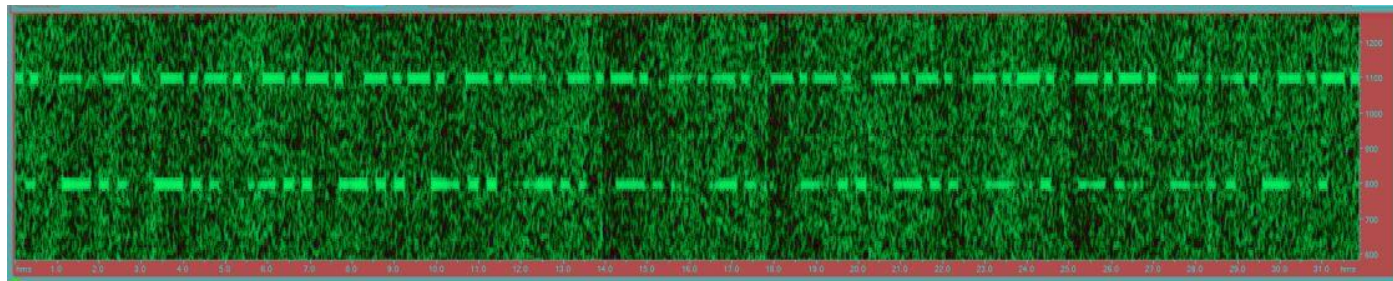


6557		Call Sign V WCJJ (x3) DE HBDD (x2) Replaced YHDX DE SAQC on 3968, 6936, 5479 & 10722kHz			
	0045z	01 May	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Novosibirsk)	JPL THU
	1317z	12 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Hong Kong)	JPL THU
6557//6886		Call Sign HDBB			
	1702z	31 May	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Novosibirsk)	JPL SAT
6557//11475		Call Sign V WCJJ (x3) DE HBDD (x2) Replaced YHDX DE SAQC on 3968, 6936, 5479 & 10722kHz			
	1223z	08 May	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Novosibirsk)	JPL THU
	0018z	22 May	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Novosibirsk)	JPL THU
	1118z	30 May	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Novosibirsk)	JPL FRI
6876		Note: Possibly missing BNGC sked new frequency			
	1205z	26 Jun	Into M95 1149z NR 0537 CK 041 35 0626 1555 BT	(Remote tuner Thailand)	JPL THU
6886		Call Sign V WCJJ (x3) DE HBDD (x2) Replaced YHDX DE SAQC on 3968, 6936, 5479 & 10722kHz			
	1623z	02 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Japan)	JPL MON
	2258z	04 Jun	V WCJJ (x3) DE HBDD (x2)	(Via Remote tuner Twente)	BR WED
	1526z	05 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Thailand)	JPL THU
	1635z	06 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Thailand)	JPL FRI
	1818z	13 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Japan)	JPL FRI
	1923z	21 Jun	V WCJJ (x3) DE HBDD (x2)	Good (Via Remote tuner Twente)	BR SAT
7912	(In tfc)	1705z	06 Jun	NR 51/CKK CK 81 16 06 07 0050 RMKS 2503 TO 2159 BT	(Remote tuner Japan) JPL FRI
8384	(In tfc)	1134z	13 Jun	NR 563/EX 1933 RMKS 5 632 TO ..16 BT EF/T4 AR K	(Remote tuner Japan) JPL FRI
9042		1145 - 1202z	05 Jun	In Q26 - Into M95 1150z NR 092 CK 43 35 06 05 1429 BT NR 10 CK 137 35 06 05 1531 BT	(Remote tuner Japan) JPL THU
	(In tfc)	1155 - 1159z	09 Jun	NR 001 CK 58 35 06 09 1604 BT	(Remote tuner Japan) JPL MON
11475		Call Sign V WCJJ (x3) DE HBDD (x2) Replaced YHDX DE SAQC on 3968, 6936, 5479 & 10722kHz			
	0128z	01 May	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Novosibirsk)	JPL THU
	1010z	05 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Japan)	JPL THU
	1317z	12 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Hong Kong)	JPL THU
	1057z	13 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Japan)	JPL FRI
	1126z	23 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Hong Kong)	JPL MON
	1057z	24 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Japan)	JPL TUE
	1115z	26 Jun	V WCJJ (x3) DE HBDD (x2)	(Remote tuner Japan)	JPL THU
17252		1220 (IP) - 1239z	08 Jun	NR 312/CKK CK 16 073 06 08 2005 RMKS 4LRZ to N4Y3 = U3UN UD4T N4U5..etc.	(Via Twente) Strong BR SUN

Marker Beacons (MX MXI)

5153.7	2044z	12 Jun	MXI	CW Beacon "D"	Sevastopol	Weak	BR	THU
5154.1	2043z	12 Jun	MXI	CW Beacon "A"	Astrakhan	Weak	BR	THU
5156.7	2148z	06 May	MX	CW Beacon "L"	St Petersburg	Fair	PLdn	TUE
	2118z	22 May	MX	CW Beacon "L"	St Petersburg	Fair	BR	THU
	2130z	04 Jun	MX	CW Beacon "L"	St Petersburg	Fair	BR	WED
7508.7	2126z	05 May	MXI	CW Beacon "D"	Sevastopol	Weak	PLdn	MON
	0712z	15 May	MXI	CW Beacon "D"	Sevastopol	Weak	BR	THU
	1920z	19 May	MXI	CW Beacon "D"	Sevastopol	Fair	PLdn	MON
	2135z	04 Jun	MXI	CW Beacon "D"	Sevastopol	Fair	BR	WED
	2114z	02 Jun	MXI	CW Beacon "D"	Sevastopol	Fair	PLdn	MON
7508.9	0713z	15 May	MXI	CW Beacon "S"	Severomorsk	Weak	BR	THU
	1920z	19 May	MXI	CW Beacon "S"	Severomorsk	Weak	PLdn	MON
	2251z	06 Jun	MXI	CW Beacon "S"	Severomorsk	Weak	PLdn	FRI

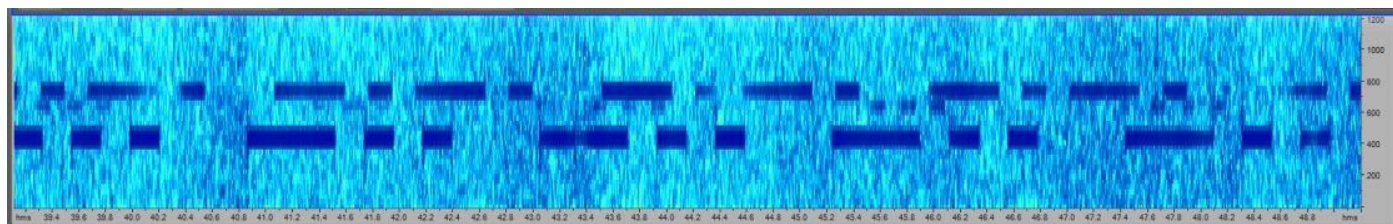
7509	2126z	05 May	MXI	CW	Beacon	"C"	Moscow		Weak	PLdn	MON
	0712z	15 May	MXI	CW	Beacon	"C"	Moscow		Weak	BR	THU
	1920z	19 May	MXI	CW	Beacon	"C"	Moscow		Fair	PLdn	MON
	2135z	04 Jun	MXI	CW	Beacon	"C"	Moscow		Weak	BR	WED
	2114z	02 Jun	MXI	CW	Beacon	"C"	Moscow	Weak with QSB	to nil	PLdn	MON
	2251z	06 Jun	MXI	CW	Beacon	"C"	Moscow		Weak	PLdn	FRI
8494.7	0711z	15 May	MXI	CW	Beacon	"D"	Sevastopol		V.Weak	BR	THU
	2137z	04 Jun	MXI	CW	Beacon	"D"	Sevastopol		Weak	BR	WED
8495.1	2137z	04 Jun	MXI	CW	Beacon	"A"	Astrakhan		Weak	BR	WED
8497.8	0710z	15 May	MX	CW	Beacon	"L"	St Petersburg		Weak	BR	THU
	2016z	22 May	MX	CW	Beacon	"L"	St Petersburg		Good	BR	THU
	2138z	04 Jun	MX	CW	Beacon	"L"	St Petersburg	Fast	Good	BR	WED
10871.7	0708z	15 May	MXI	CW	Beacon	"D"	Sevastopol		Fair	BR	THU
	2010z	22 May	MXI	CW	Beacon	"D"	Sevastopol		Good	BR	THU
	2139z	04 Jun	MXI	CW	Beacon	"D"	Sevastopol		Weak	BR	WED
10871.8	0708z	15 May	MXI	CW	Beacon	"P"	Kaliningrad		Fast,Good	BR	THU
	2011z	22 May	MXI	CW	Beacon	"P"	Kaliningrad	Normal speed	Good	BR	THU
10871.9	2015z	01 Mar	MXI	CW	Beacon	"S"	Severomorsk		Fair	BR	THU
13527.7	0706z	15 May	MXI	CW	Beacon	"D"	Sevastopol		Weak	BR	THU
	1958z	22 May	MXI	CW	Beacon	"D"	Sevastopol		Weak	BR	THU
13527.9	0706z	15 May	MXI	CW	Beacon	"S"	Severomorsk		Weak	BR	FRI
	2009z	22 May	MXI	CW	Beacon	"S"	Severomorsk		Weak	BR	FRI
16331.7	0705z	15 May	MXI	CW	Beacon	"D"	Sevastopol		Good	BR	THU
	1956z	22 May	MXI	CW	Beacon	"D"	Sevastopol		Good	BR	THU
	2143z	04 May	MXI	CW	Beacon	"D"	Sevastopol		Weak	BR	WED
16331.9	1956z	22 May	MXI	CW	Beacon	"S"	Severomorsk		Fair	BR	THU
	0833z	06 Jun	MXI	CW	Beacon	"S"	Severomorsk	[D or C not present]	Weak	PLdn	FRI
16332.1	1957z	22 May	MXI	CW	Beacon	"A"	Astrakhan		Weak	BR	THU
20047.7	1403z	14 Jun	MXI	CW	Beacon	"D"	Sevastopol			BR	SAT



7508kHz 2126z 05 May 2025

Spectrogram of Active Russian 'C' & 'D' Beacons

Courtesy PLdn



7508kHz 1920z 19 May

Spectrogram of Active Russian 'C', 'S' & 'D' Beacons

Courtesy PLdn

Oddities

'The Alarm'

4770	1949z	22 May	Marker Signal (The Alarm)	USB	Weak	BR	THU
	2146z	04 Jun	Marker Signal (The Alarm)	USB	Weak	BR	WED

S28 'The Buzzer'

4625	1950z	22 May	S28	'The Buzzer' Marker	USB	Fair	BR	THU
	2147z	04 Jun	S28	'The Buzzer' Marker with digital sig also present	USB	Good	BR	WED

S30 'The Pip'

3756	1951z	22 May	S30	'Pip' marker (Night freq)	USB	Fair	BR	THU
	2149z	04 Jun	S30	'Pip' marker (Night freq)	USB	Weak	BR	WED

4326//4327 'T' Marker (New Frequencies – previously on 4183.7//4184)

2205z	04 Jun	T Marker audible under strong digital signal	BR	WED
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6911 'Stalingrad Clock'

1953z	22 May	'Stalingrad Clock'	USB	Fair	BR	THU
2255z	04 Jun	'Stalingrad Clock' audible under strong digital signal	USB	Fair	BR	WED

Contributors:

AB, BR, dMHz, Gert, HFD, JPL, PLdn, PoSW

Thank you all for your logs.

Voice, Polytone, Tones, Hybrids and FSK

E06

E06 May/June log:

Saturday	1600z	13547kHz	1630z	11128kHz
03/05	'480' 721 45 94917.....etc		Thanks HfD	

Sunday	0730z	14735kHz	0800z	12207kHz
04/05	'480' 721 45 94917.....etc	(late start +1m)	Thanks HfD	

E07

Peter's analysis of E07

Tuesday + Friday Schedule, 1500 UTC Start:-

Continues to show up on the expected frequencies, i.e. as in the same month of the past few years.

2-May-25, Friday:- 1500 UTC, 16132 kHz, "124 124 124 1", message, DK/GC "496 155" x 2, good signal, ended at 1515:20s UTC.
1520 UTC, 18232 kHz, a disappointing second sending, very weak, unreadable.
1540 UTC, 19432 kHz, also very weak, became slightly stronger about four minutes in.

6-May-25, Tuesday:- 1500 UTC, 16132 kHz, "124 124 124 000", signal strength up and down.
1520 UTC, 18232 kHz, weak.

13-May-25, Tuesday:- 1500 UTC, 16132 kHz, "124 124 124 1", message, DK/GC "8428 91" x 2, indicating around "6" on the S-meter, ended just after 1610 UTC.
1520 UTC, 18232 kHz and 19432 kHz, both also around S6.

16-May-25, Friday:- 1500 UTC, 16132 kHz, "124" and "8428 91" again, S5 to S6.
1520 UTC, 18232 kHz, very weak, unreadable.
1540 UTC, 19432 kHz, also very weak.

10-May-25, Tuesday:- 1500 UTC, 16132 kHz, "124 124 124 000".
1520 UTC, 18231 kHz, weak, clear.

23-May-25, Friday:- 1500 UTC, 16132 kHz, "124 124 124 000", weak signal.
1520 UTC, 18232 kHz, stronger.

27-May-25, Tuesday:- 1500 UTC, 16132 kHz, "124 124 124 1", DK/GC "5096 180" x 2, peaking around S6. Ended at 1517:30 UTC.
1520 UTC, 18232 kHz, weak at first, became stronger around 1528z.
1540 UTC, 19432 kHz, unusually the strongest of the three sendings.

30-May-25, Friday:- 1500 UTC, 16132 kHz, "124" and "5096 180" again, weak at first then became stronger.
1520 UTC, 18232 kHz, weak signal, difficult copy.
1540 UTC, 19432 kHz, very weak, unreadable.

3-June-25, Tuesday:- Nothing readable at 1500 UTC on expected frequency 14945 kHz.
1520 UTC, 16145 kHz, very weak, only just readable, "912 912 912 000".

6-June-25, Friday:- 1500 UTC, 14945 kHz and 1520 UTC, 16145 kHz, "912 912 912 000", unlike Tuesday a reasonable signal from both transmissions.

10-June-25, Tuesday:- 1500 UTC, 14945 kHz, "912 912 912 1", message, DK/GC "5737 127" x 2, peaking around a "7" on the S-meter, ended just after 1513z.
Repeats at 1520 on 16145 and 1540 on 18245 both very weak, unreadable.

24-June-25, Tuesday:- 1500 UTC, 14945 kHz, "912 912 912 1", message, DK/GC "8018 173" x 2, S7, ended at 1516:50s UTC.
1520 UTC, 16145 kHz, slightly weaker.

1540 UTC, 18245 kHz, very weak, unreadable.

27-June-25, Friday:- 1500 UTC, 14945 kHz, “912” and “8018 173” again, good signal with occasional deep fading.
1520 UTC, 16145 kHz, weaker. Nothing readable from the third sending at 1520.

Thursday + Saturday Schedule:-

This schedule with a start time of 1410 UTC was not heard after Saturday 12-April; noted a report in the newsletter that it had moved to 1000 UTC, 11 A.M. British Summer Time, late morning when some of us are out and about so not near a radio. Managed to find what must be the first and second sendings on one Saturday in late May:-

24-May-25:- 1004 UTC, 17468 kHz, message in progress, ended at 1011:20s UTC.

1028 UTC, 16292 kHz, second sending in progress, weak signal. Unable to find a third sending despite a lot of tuning around after 1040z.

7-June-25, Saturday:- 1007 UTC, 17453 kHz, first sending found in progress with a message, good signal, ended just after 1012:30s UTC.

1026 UTC, 16137 kHz second sending, took a few minutes to find weaker.

1049 UTC, 14759 kHz, third sending in progress.

21-June-25, Saturday:- 1013 UTC, 17453 kHz, missed the start, can't get used to the changed times, message, ended shortly after 1016 UTC.

1020 UTC, 16137 kHz, “417 417 417 1”, DK/GC “8056 169” x 2, weak signal.

1040 UTC, 14759 kHz, also weak.

28-June-25, Saturday:- 1020 UTC, 16137 kHz, missed the first sending, “417 417 417 000”, weak signal.

Onto others logs; with repetition.

Tuesday/Friday

May 2025

1500z	16132kHz	1520z	18232kHz	1540z	18432kHz
02/05	124 1 496 155 52457 ... 41456 000 000				Fair, QRM2 [1500z Only]
06/05	124 000			Good	BR TUE
09/05	124 000			Weak	
13/05	124 1 8428 91 79642 ... 05040 000 000			Weak, 1540z MISSED	
16/05	Unworkable across schedule				
20/05	124 000			Weak, 1500z PLAQRM3	
23/05	124 000			Weak, 1500z PLAQRM3	
27/05	124 1 5096 180 36444 ... 89401 000 000			[17m37s lg] Weak,1500z PLAQRM3	[Strong via Twente dMHz]

124 1 5096 180
36444 15468 68103 49231 29116 75857 11274 37647 96979 13363
05517 92628 00812 96315 30889 95825 02757 75734 40342 77597
99976 91461 05738 95061 28471 92952 26529 78524 97693 98944
00956 47578 39019 97389 21848 85858 17114 96993 66203 86259
03582 40694 19266 11048 67087 83121 48822 83024 37806 72284
71390 47782 54909 67257 35511 43434 05403 40189 66295 44830
99663 09119 62871 86010 70068 18903 70110 24995 06478 59094
99576 98984 34833 83370 48345 75044 70384 77146 07608 42858
24661 91528 66227 80036 45176 58943 93215 26127 67114 27667
40649 55888 95850 13522 08743 15076 09282 71462 15599 90392
18734 87500 65186 46274 88661 93116 52946 38512 05169 32401
23954 85218 97221 16776 36112 60713 61192 05569 86730 18960
14733 68476 21639 51034 44796 09614 60125 00651 82490 17741
71165 48832 78210 64705 31341 91089 90263 10566 94230 78374
15705 47348 04423 63844 48181 65983 46152 47648 11024 30950
24155 05400 47262 63459 88214 69433 62026 36911 22826 46073
88393 46317 02161 61210 10417 34912 93541 92710 36018 60630
91377 54067 88228 77139 67254 44098 30511 55992 49111 89401
000 000
Courtesy dMHz

30/05 Unworkable across schedule

June 2025

1500z	14945kHz	1520z	16145kHz	1540z	18245kHz
03/06	NRH				Poor Condx
06/06	912 000				Weak

10/06	912 1 5737 127 33513 ... 83955 000 000	dMHz	TUE
912 1 5737 127			
33513 92539 37689 00919 39014 45586 16290 43985 78934 30867 37291 87702 51565 45845 41992 90983 51487 05068 22979 15594 60296 22131 16334 31454 32008 55705 93416 21850 44319 12012 36827 24744 98273 35260 73969 91150 16185 36591 73979 19421 77667 90352 11836 48289 27500 28850 77270 41428 56262 12484 24489 20579 83880 54398 21822 21646 48371 95982 66335 75909 13435 74562 62854 87959 34508 92539 14090 10302 54977 62098 16060 48054 50107 99724 93131 00761 72502 26694 02415 82510 86237 56271 31274 49236 53603 69447 93810 62269 43146 76773 25715 20800 51850 83728 19569 01486 67116 21036 39241 42811 25754 51444 53689 66626 77733 94390 02342 48471 44035 59929 83378 73605 06185 47688 53298 94276 69753 06764 07049 50697 17637 05841 02334 75118 27408 26506 83955 000 000 <i>Courtesy dMHz</i>			
13/06	NRH, Very poor condx		
17/06	912 000	1500z Weak, 1520z Fair	
20/06	912 000	!500z Fair, 1520z Weak	
24/06	912 1 8018 173 68564 ... 50810 000 000	1500/1540z NRH, 1520z Weak 17m10s lg Ary, Brian, BRIXMIS, PLdn	
912 912 912 1 8018 173 8018 173 68564 07850 78314 02157 06617 63615 95961 02900 41108 15352 00688 18615 19711 46841 67526 90426 59939 87453 35726 98412 18142 51782 06435 01499 57738 60157 60234 97494 42381 60399 57276 62919 54337 39663 18191 08125 87829 43161 61756 61245 58030 95197 98348 39789 17304 07960 68454 21473 58811 02331 81307 00967 38794 88288 91480 85999 31258 80040 71251 04290 18965 63931 34001 03538 56268 98404 90117 32360 69135 23638 20898 68872 49289 42982 86397 68927 66829 57013 36556 77662 80457 65995 80194 95555 11304 10796 79157 77211 84326 22883 50666 48688 71568 28444 21660 35456 37878 36097 27146 11510 08271 39770 13464 31048 79726 95352 71520 89505 47319 65296 68738 99890 20590 37848 64109 02911 64191 78235 33809 33204 24944 58015 22527 57860 02283 99850 47343 97114 62347 19067 13065 93115 88745 20413 54997 56053 43428 26883 17265 52401 07551 85866 17723 22374 33875 96353 84093 42539 45813 41596 80408 10585 33260 38462 76424 24644 77190 61279 92727 77065 37800 89120 37415 90490 76081 08210 09766 30126 78822 99371 87800 67031 50810 000 000 <i>Courtesy Ary</i>			
27/06	912 1 8018 173 68564 ... 50810 000 000	1540z NRH, rest Weak. !500z Strong, fading via Twente SDR	

Thursday/Saturday

May 2025

1000z	17568kHz	1020z	16292kHz	1040z	14876kHz		
01/05	428 000					Ary	THU
03/05	428 000				Weak	BR	SAT
08/05	428 1 (462 149) 50613 22039 58563 84665 37798....				Weak/Fair/Fair	BR	THU
428 428 428 1 462 149 462 149 50613 22039 58563 84665 37798 19039 19795 76573 80827 22533 20559 63862 01023 35353 89345 14764 68601 03530 73504 19816 08646 25831 59879 40512 50471 68710 30372 51797 57349 04808 36355 58618 96045 34030 57076 03658 28945 72635 63024 97038 96230 06165 75301 01399 14141 07873 54716 93892 59296 40178 74141 91648 45881 49342 00227 57391 45201 05320 28368 58412 35087 58113 63145 28423 38909 11654 93465 74838 11132 23877 98924 95129 72866 41505 24584 26530 82485 10062 83039 15298 78779 26808 61498 46978 50221 48628 88429 70246 76225 50834 84346 83955 41848 27387 47273 45927 81432 90965 80247 61223 91975 68301 73946 48791 91545 58350 10707 36937 25715 31606 63471 76451 06423 03066 37180 91566 83586 04176 25620 74812 08178 76147 18551 24472 32129 48715 25520 14440 31270 98765 78002 95643 51499 31270 32396 08243 90796 97640 57112 33751 91287 51589 38154 12523 67250 14590 86918 61782 75784 000 000 <i>Courtesy Ary</i>							

10/05	428 1 (462 149) 50613 22039....	Fair/Fair/Fair	BR	SAT
15/05	428 000	Weak/Fair	BR	THU
17/05	428 000	Weak/Weak	BR	SAT
22/05	428 1 (376 107) 41871 66234 86940....	Fair	BR	THU
24/05	428 1 376 107 41871 ... 48184 000 000	1000z Fair PLAQRM2, rest NRH		
29/05	428 000	1000z Very weak, rest NRH	BR	THU
31/05	428 000	1000z Good 1020z NRH	dMHz, PLdn	SAT

June 2025

1000z	17453kHz	1020z	16137kHz	1040z	14760kHz		
05/06	417 1 (2825 121) 90406 26439 88486 81084....				Weak/Fair/Weak	BR	THU
07/06	417 1 2825 121 90406				Weak, difficult copy across schedule		
12/06	417 000				Fair	BR	THU
14/06	417 000				Weak	BR	THU
19/06	417 1 (8056 169) 01227 25085 40058 46369....				Weak/Fair/Weak	BR	THU
21/06	NOT MONITORED						
26/06	417 000				Fair/Fair	BR	THU
29/06	417 000				Weak/Fair	BR	SAT

E11&E11a log May/June

4783kHz	1610z	03/05 [396/00]		HfD	SAT
		28/05 [394/35 65823 14572 65664 77183 19631 35577 90957.....62367 52463] Out 1620z		dMHz	WED
5082kHz	1645z	03/05 [367/34 26153.....etc]		HfD	SAT
	1645z	01/06 [369/00] Out 1648z Weak		PLdn	SUN
5231kHz	1605z	04/05 [238/00]		HfD	SUN
	1605z	06/05 [232/39 87596 92657 15417.....89682 26884 77155]		Ary	TUE
	1605z	27/05 [238/00] Out 1608z Weak		dMHz	TUE
5409khz	2000z	01/05 [528/00] Out 2003z Fair		PLdn, PLdn	THU
	2000z	08/05 [524/33 54747.....45754] Out 2010z Fair		PLdn	THU
	2000z	15/05 [525/00] Out 2003z Fair		PLdn	THU
	2000z	12/06 [525/00] Out 2003z Fair		PLdn	THU
	2000z	19/06 [522/39 53470.....17429] Out 2011z		PLdn	THU
	2000z	26/06 [528/00] Out 2003z Very strong (Twente SDR)		PLdn	THU
5737khz	1300z	01/05 [312/00] Fair (Polish SDR)		RNGB, HfD	THU
	1300z	05/05 [313/00] Very weak		Brian	MON
	1300z	22/05 [314/35 93980 45750.....34620 56509] Weak		Brian	THU
	1300z	26/05 [313/00] Very weak		Brian	MON
	1300z	29/05 [310/00] Very weak		Brian	THU
	1300z	02/06 [315/36 ATTN .5119 2820] Very weak (Via Poland SDR)		Brian	MON
	1300z	09/06 [313/00] Weak		Brian	MON
6923kHz	0930z	01/05 [276/00]		HfD	THU
	0930z	07/05 [275/33 91486 72646 55044 84650 82407 89742 84662 93701.....54055 47347] Weak		Brian	WED
	0930z	15/05 [276/00] Weak		Brian	THU
	0930z	22/05 [273/00] Weak		Brian	THU
	0930z	28/05 [273/00] Fair		dMHz	WED
	0930z	29/05 [273/00] Very weak		Brian	THU
	0930z	04/06 [273/37 16685 89362 73079 21875 73117 47710 90413 70886.....45165 59991] Fair		RNGB	WED
	0930z	12/06 [271/00] Weak		Brian	THU
	0930z	18/06 [277/00] Weak		Brian	WED
	0930z	25/06 [275/00] Weak		Brian	WED
	0930z	26/06 [278/00] Weak		Brian, PLdn	THU
7377kHz	0700z	03/05 [490/40 84312 87287 95283 93308 86141 22216 66845 87721.....80957 87793]		RNGB, HfD	SAT

	0700z	10/05 [490/00] Good		RNGB, Brian, PLdn	SAT
	0700z	17/05 [498/00] Fair		Brian, PLdn	SAT
	0700z	24/05 [495/00] Good		RNGB	SAT
	0700z	25/05 [491/00] Out 0703z Weak		PLdn	SUN
	0700z	07/06 [498/00] Weak		Brian, PLdn	SAT
	0700z	08/06 [498/00] Out 0703z Weak		PLdn	SUN
	0700z	14/06 [492/00] Weak		Brian	SAT
	0700z	29/06 [490/33 41409 84925 73457 66755 12837 92168 11719 94840.....01191 24926] Weak		Brian	SUN
7600kHz	1900z	01/05 [646/00] Out 1903z Strong		PLdn, Brixmis, HfD	THU
	1900z	05/05 [640/36 54640 55489 29159 91712 61297 33013 46188 84853.....36211 58950] Out 1910z		PLdn, Brixmis	MON
	1900z	12/05 [641/00] S3		Brixmis	MON
	1900z	15/05 [648/00] Out 1903z Fair		PLdn	THU
	1900z	19/05 [640/00] Out 1903z Fair		Brian	MON
	1900z	26/00 [643/00] Out 1903z Weak		PLdn	MON
	1900z	29/05 [648/00] Out 1903z Weak		PLdn	THU
	1900z	02/06 [644/00] Out 1903z Strong		PLdn	MON
	1900z	09/06 [644/00] Out 1903z Fair		PLdn	MON
	1900z	12/06 [647/00] Out 1903z Fair		PLdn	THU
	1900z	26/06 [649/00] Out 1903z Very strong (Twente SDR)		PLdn	THU
	1900z	30/06 [647/00] Out 1903z Fair		PLdn	MON
7863khz	1715z	02/05 [978/00] Out 1718z Fair		PLdn, HfD	FRI
	1715z	09/05 [972/32 98560.....40227] Out 1725z Fair		PLdn	FRI
	1715z	14/05 [970/00] Out 1718z Strong		PLdn	WED
	1715z	16/05 [978/00] Out 1718z Fair		PLdn	FRI
	1715z	21/05 [972/00] Out 1718z Fair		PLdn	WED
	1715z	28/05 [972/00] Out 1718z Fair		PLdn	WED
	1715z	04/06 [978/00] Out 1718z Fair		PLdn	WED
	1715z	06/06 [975/00] Out 1718z Weak		PLdn	FRI
	1715z	11/06 [974/00] Out 1718z Weak		PLdn	TUE
	1715z	13/06 [976/00] Out 1718z Weak		PLdn	FRI
	1715z	18/06 [978/00] Out 1718z Fair		PLdn	TUE
	1715z	20/06 [970/00] Fair		PLdn	FRI
	1715z	25/06 [977/34 A 97888.....17859] Out 1725z		PLdn	WED
7984kHz	0720z	01/05 [439/32 11125 96924 25887 62783 92270 82404 03982 74514.....99738 01132]		RNGB, Brian, HfD	THU
	0720z	08/05 [435/00] Strong		RNGB, Brian	THU
	0720z	09/05 [435/00] Strong		RNGB, brian	FRI
	0720z	15/05 [432/48] (Sent for 1m30s then ceased. No message - Nothing further heard) Fair		Brian	THU
	0720z	22/05 [439/00] Fair		Brian	THU
	0720z	29/05 [430/00] Strong		RNGB, dMHz, PLdn	THU
	0720z	30/05 [435/00] Out 0723z		dMHz	FRI
	0720z	05/06 [432/00] Good		RNGB, Brian	THU
	0720z	06/06 [430/00] Good		Brian	FRI
	0720z	12/06 [438/00] Good		RNGB, Brian	THU
	0720z	13/06 [430/00] Good		Brian	FRI
	0720z	19/06 [438/00] Fair		Brian, PLdn	THU
	0720z	20/06 [438/00] Fair		Brian	FRI
	0720z	26/06[426/32 97621 58725 35149 20195 31158 76335 84003 41284.....05518 24045]		Brian, PLdn	THU
8274kHz	1205z	06/05 [469/00]		Ary, HfD	TUE
	1205z	07/05 [466/00] Weak		Brian	WED
	1205z	20/05 [465/00] Weak		Brian	TUE
	1205z	21/05 [466/00] Weak		Brian	THU
	1205z	27/05 [460/00] Weak		Brian	TUE
	1205z	28/05 [469/00] Fair		Brian	WED
	1205z	03/06 [465/00] Fair		Brian	TUE
	1205z	10/06 [466/00] Fair		Brian	TUE
8680kHz	0700z	02/05 [570/00] Good		RNGB, Brian, HfD	FRI
	0700z	06/05 [579/00]		HfD	TUE
	0700z	09/05 [570/00] Good		RNGB, Brian, PLdn	FRI
	0700z	13/05 [575/35 41597 89883 98364 10321 79499 01541 87063 80207.....09613 77983] Good		RNGB, Brian	TUE
	0700z	20/05 [579/00] Fair		Brian	TUE
	0700z	27/05 [576/00] Fair		Brian	TUE
	0700z	30/05 [571/00] Good		RNGB, Brian	FRI
	0700z	03/06 [571/00] Good		RNGB, Brian	TUE
	0700z	06/06 [577/00] Good		RNGB, Brian	FRI
	0700z	10/06 [570/00] Strong		RNGB, Brian	TUE
	0700z	17/06 [574/00] Good		RNGB, Brian	TUE

	0700z	20/06 [573/00] Strong	RNGB, PLdn	FRI
	0700z	24/06 [579/31 72222 86406 94066 68479 14930 90730 51618 38071.....40879 35380] Good	RNGB, PLdn, Brian	TUE
9150kHz	0600z	02/05 [355/36 70992 93096 56209 70798 03791 82773 92537 72020.....47689 09107] Good	RNGB, PLdn, HfD	FRI
	0600z	09/05 [350/00] Good	RNGB, PLdn	FRI
	0600z	16/05 [352/00] Out 0603z Weak	PLdn	FRI
	0600z	18/05 [353/00] Good	RNGB	SUN
	0600z	25/05 [353/00] Out 0603z Weak	PLdn	SUN
	0600z	30/05 [358/00] Good	RNGB	FRI
	0600z	01/06 [350/00] Out 0603z Weak	PLdn, RNGB	SUN
	0600z	06/06 [350/00] Good	RNGB	FRI
	0600z	08/06 [350/00] Out 0603z Weak	PLdn	SUN
	0600z	15/06 [354/00] Out 0603z Fair	PLdn	SUN
	0600z	27/06 [351/00] Good	RNGB	FRI
	0600z	29/06 [350/00] Out 0603z Fair	PLdn	FRI
9610khz	1910z	04/05 [618/00] Out 1913z Fair	PLdn, HfD	SUN
	0745z	06/05 [266/37 65831.....etc]	HfD	TUE
	1910z	11/05 [613/35 50409.....85842] Out 1920z Strong	PLdn	SUN
	0745z	12/05 [268/00] Good	RNGB, Brian	MON
	1910z	16/05 [614/00] Out 1913z Fair	PLdn	FRI
	1910z	18/05 [610/00] Out 1913z Weak	PLdn	SUN
	0745z	19/05 [260/00] Good	RNGB, Brian	MON
	1910z	23/05 [616/00] Out 1913z Weak	RNGB	FRI
	1910z	25/05 [610/00] Out 1913z Fair	PLdn	SUN
	0745z	26/05 [261/00] Fair	Brian	MON
	0745z	02/06 [268/00] Good	RNGB, dMHz	MON
	1910z	06/06 [616/00] Out 1913z Fair	PLdn	FRI
	1910z	08/06 [617/00] Out 1913z Fair	PLdn	SUN
	0745z	09/06 [268/00] Good	Brian	MON
	1910z	13/06 [612/00] Out 1913z Very Strong (Twente SDR)	Paul	FRI
	1910z	15/06 [616/00] Out 1913z Fair	PLdn	SUN
	0745z	16/06 [266/31 71477 68100 88664 95011 57988 04677 52894 13557..... 86482 07542] Good	RNGB, Brian	MON
	1910z	20/06 [614/35 19284.....12240] Out 1921z Fair	PLdn	FRI
	0745z	23/06 [262/00] Good	Brian	MON
	1910z	29/06 [612/00] Out 1913z Strong	PLdn	SUN
	0745z	30/06 [266/00] Good	Brian	MON
10210kHz	1045z	05/05 [690/00] Weak	Brian, HfD	MON
	1045z	07/05 [693/00] Fair	Brian	WED
	1045z	14/05 [697/30 79998 23997 22408 23078 30051 56466 15371 29013.....68716 22161] Fair	Brian	WED
	1045z	19/05 [694/00] Weak	Brian	MON
	1045z	21/05 [697/00] Weak	Brian	WED
	1045z	26/05 [692/00] Weak	Brian	MON
	1045z	28/05 [694/00] Fair	Brian	WED
	1045z	04/06 [691/00] Good	Brian	WED
	1045z	09/06 [696/31 01925 23319 74001 16979 15254 71672 70075 97156.....69198 91840] Fair	Brian	MON
	1045z	18/06 [692/00] Weak	Brian	WED
	1045z	25/06 [694/00] Fair	Brian	WED
	1045z	30/06 [693/00] Fair	Brian	MON
10356kHz	1530z	01/05 [269/00] Out 1533z Fair	PLdn, HfD	THU
	1530z	29/05 [268/00] Out 1533z	dMHz	THU
10508khz	0645z	05/05 [416/00]	HfD	MON
	0645z	07/05 [414/00] Very weak	Brixmis	WED
	0645z	12/05 [413/39 25347 38917 38383 14248 50906 80704 05311 27837.....75626 85736] Good	RNGB	MON
	0645z	21/05 [412/00] Good	RNGB	WED
	0645z	26/05 [413/00] Good	RNGB, PLdn	MON
	0645z	28/05 [418/00] Good	RNGB	WED
	0645z	02/06 [411/00] Good	RNGB	MON
	0645z	04/06 [412/00] Good	RNGB	WED
	0645z	09/06 [411/00] Out 0648z Weak	PLdn	MON
	0645z	16/06 [418/39 24201 15080 43006 36960 86304 47967 21309 47130.....90578 06733] Fair	RNGB, PLdn	MON
	0645z	25/06 [418/00] Strong	RNGB	WED
	0645z	30/06 [410/00] Good	RNGB	MON
11092kHz	0645z	01/05 [511/00]	HfD	THU
	0645z	06/05 [518/40 45749 03508 52189 20892 84837 44437 30825 67561.....76348 49009] Good	RNGB, Ary, HfD	TUE
	0645z	22/05 [511/00] Good	RNGB	THU
	0645z	27/05 [510/00] Good	RNGB, Brian	TUE
	0645z	29/05 [510/00] Good	RNGB, Brian	THU

	0645z	03/06 [510/35 01063 13750 58845 40335 19057 81727 86671 16152.....82347 36260] Good	RNGB, dMHz	TUE
	0645z	10/06 [512/00] Good	RNGB, Brian	TUE
	0645z	17/06 [519/00] Good	RNGB	TUE
	0645z	19/06 [515/00] Good	RNGB	THU
	0645z	26/06 [510/00] Fair	Bian	THU
11116kHz	0900z	05/05 [536/00] Good	RNGB, Brian	MON
	0900z	07/05 [535/00] Fair	Brian, HfD	WED
	0900z	12/05 [533/00] Fair	Brian, PLdn	MON
	0900z	14/05 [536/00] Fair	Brian, PLdn	WED
	0900z	19/05 [537/31 38114 00998 99918 31623 33851 98543 64765 66390.....61102 93225] Fair	Brian	MON
	0900z	26/05 [532/00] Out 1003z Weak	PLdn, Brian	MON
	0900z	28/05 [538/00] Fair over QRM/Jammer	Brian, PLdn	WED
	0900z	02/06 [532/00] Fair	Brian	MON
	0900z	04/06 [532/00] Fair	RNGB, Brian	WED
	0900z	09/06 [537/00] Fair	Brian, PLdn	MON
	0900z	16/06 [535/31 88301 92131 29124 71766 56421 83755 43197 07298.....10161 73239] Fair	RNGB, PLdn	MON
	0900z	23/06 [535/00] Fair	RNGB, Brian	MON
	0900z	25/06 [532/00] Fair	Brian, PLdn	WED
	0900z	30/06 [538/00] Fair	Brian	MON
12153kHz	1000z	02/05 [305/00] Out 1003z Weak	PLdn, HfD	SAT
	1000z	06/05 [302/00] Out 1003z	PLdn, Brian, Ary	TUE
	1000z	09/05 [305/00] Out 1003z Fair	PLdn, PLdn	FRI
	1000z	20/05 [304/00] Out 1003z Weak	PLdn	TUE
	1000z	23/05 [304/00] Fair	Brian, PLdn	FRI
	1000z	27/05 [300/39 70112 31497 63978 11440 96208 50444 16584 26587.....53252 38208] Strong	dMHz, Brian	TUE
	1000z	03/06 [300/00] Good	RNGB, Brian, PLdn	TUE
	1000z	06/06 [305/00] Fair	Brian	FRI
	1000z	10/06 [300/00] Out 1003z Fair	PLdn	TUE
	1000z	13/06 [308/00] Fair	Brian	FRI
	1000z	17/06 [300/00] Fair	Brian, PLdn	TUE
	1000z	20/06 [309/00] Fair	Brian, PLdn	FRI
	1000z	24/06 [300/37 22128 27047 24609 26261 74326 13878 72977 7047786952 91190] Out 1010z	Brian, PLdn	TUE
12229kHz	1815z	04/05 [926/00] Weak	Brixmis, PLdn, HfD	SUN
	1815z	09/05 [920/00] Out 1818z Fair	PLdn	FRI
	1815z	11/05 [927/00] Out 1818z Strong	PLdn	SUN
	1815z	16/05 [924/39 08518.....31706] Out 1826z Fair	PLdn	FRI
	1815z	23/05 [927/00] Out 1818z Fair	PLdn	FRI
	1815z	25/05 [920/00] Out 1818z Fair	PLdn	SUN
	1815z	30/05 [920/00] Out 1818z Fair	dMHz	FRI
	1815z	01/06 [922/00] Very weak	PLdn	SUN
	1815z	06/06 [925/00] Out 1818z Fair	PLdn	FRI
	1815z	08/06 [920/00] Out 1818z Fair	PLdn	SUN
	1815z	13/06 [921/37 19443 02660 30153 67500 87966 19771 97662.....12381 89996] Out 1825z	PLdn	FRI
	1815z	20/06 [926/00] Out 1818z Strong	PLdn	FRI
	1815z	27/06 [920/00] Out 1818z Weak	PLdn	FRI
	1815z	29/06 [926/00] Out 1818z Strong	PLdn	SUN
12530kHz	0715z	02/05 [635/00] Good	RNGB, PLdn, Brian, HfD	FRI
	0715z	06/06 [634/00] Good	RNGB, PLdn, Ary	TUE
	0715z	09/05 [634/00] Strong	RNGB, Brian, PLdn	FRI
	0715z	13/05 [636/34 95900 23634 63711 64672 15254 09768 88394 84144.....80056 61146] Good	RNGB, Brian	TUE
	0715z	20/05 [633/00] Out 0718z Fair	PLdn	TUE
	0715z	23/05 [631/00] Good	RNGB, PLdn	FRI
	0715z	27/05 [634/00] Good (200Hz below frequency)	RNGB, Brian, PLdn	TUE
	0715z	30/05 [636/00] Weak	RNGB, Brian	FRI
	0715z	03/06 [635/00] Good	RNGB, dMHz, PLdn	TUE
	0715z	06/06 [631/00] Good	RNGB, Brian, PLdn	FRI
	0715z	10/06 [639/34 80284 82619 66535 51396 44691 48315 99195 54659.....05310 29592] Fair	RNGB, Brian, PLdn	TUE
	0715z	17/06 [631/00] Weak	Brian, PLdn	TUE
	0715z	20/06 [630/00] Strong	RNGB, PLdn	FRI
	0715z	24/06 [637/00] Good	RNGB, PLdn, Brian	TUE
	0715z	27/06 [630/00] Weak	Brian, PLdn	FRI
12815kHz	0845z	05/05 [713/00] Good	RNGB, Brian	MON
	0845z	07/05 [714/00] Good	RNGB, Brian, HfD	WED
	0845z	12/05 [715/00] Good	Brian	MON
	0845z	14/05 [716/00] Weak	Brian	WED
	0845z	19/05 [711/00] Out 0848z Weak	PLdn	MON
	0845z	21/05 [716/00] Out 0848z Weak	PLdn, Brian	WED

	0845z	26/05 [716/38 08295 15527 37905....16073 71617] Fair	Brian	MON
	0845z	04/06 [711/00] Strong	RNGB, Brian	WED
	0845z	09/06 [713/32 19528 00416 09099 96512 49524 87630 88666 47604.....86751 48993] Fair	Brian, PLdn	MON
	0845z	16/06 [711/00] Weak	Brian	MON
	0845z	18/06 [714/00] Weak	Brian	WED
	0845z	25/06 [715/00] Weak	Brian	WED
	0845z	30/06 [715/30] Fair	Brian	MON
12984kHz	1430z	03/05 [910/00] Fair	Brian, HfD	SAT
	1430z	06/05 [915/32 17712 20257 47720 38416 33301 99863 19854 72266.....95799 84318]	Brian, Ary	TUE
	1430z	20/05 [919/00]	Brian	TUE
	1430z	27/05 [918/00] (200kHz below frequency)	RNGB	TUE
	1430z	31/05 [911/00] Out 1433z Good	dMHz	SAT
	1430z	07/06 [915/00] Weak	Brian	SAT
14410kHz	1745z	04/05 [242/00] Out 1753z Weak	PLdn, HfD	SUN
	1745z	18/05 [248/00] S4	Brixmis, Pldn	SUN
	1745z	19/05 [247/33 68426.....04559] Weak	PLdn	MON
	1745z	01/06 [246/00] Weak	PLdn	SUN
	1745z	16/06 [247/00] Out 1748z Fair	PLdn	MON
	1745z	23/06 [242/38....] Weak; No copy	PLdn	MON
	1745z	29/06 [242/38....] Weak, rising local QRM, still no copy	PLdn	SUN
14575kHz	1645z	01/05 [335/00] Out 1648z Weak	PLdn	THU
	1645z	06/05 [338/00]	Ary	TUE
	1645z	27/05 [338/00] Out 1648z (mistuned – 200hz below)	dMHz	TUE
14940kHz	0745z	01/05 [221/00]	HfD	THU
	0745z	06/05 [221/00] Out 0748z Weak	PLdn, Brian, Ary	TUE
	0745z	08/05 [228/00] Fair with QRM	RNGB, Brian, Pldn	THU
15720kHz	0745z	02/05 [340/00] Fair	RNGB, HfD	FRI
	0745z	07/05 [340/33 27532 28392 20421 18980 22855 70201 94448 58044.....19836 42782]	Ary, RNGB	WED
	0745z	14/05 [342/00] Good	RNGB, Brian	WED
	0745z	16/05 [344/00] Fair	Brian	FRI
	0745z	28/05 [344/00] Out 0748z Good	dMHz	WED
	0745z	30/05 [346/00] Out 0748z	dMHz	FRI
	0745z	04/06 [340/36 60337 60657 61638 06376 77226 63448 85308 77756.....94185 19283] Fair	RNGB, Brian	WED
	0745z	11/06 [346/00] Good	RNGB	WED
	0745z	25/06 [343/00] Fair	Brian	WED
	0745z	27/06 [349/00] Good	Brian	FRI
15915kHz	0715z	07/05 [759/00] Fair (Polish SDR)	RNGB, HfD	WED
	0715z	12/05 [750/00] Weak	RNGB, Brian	MON
	0715z	14/05 [751/00] Good	RNGB, Brian	WED
	0715z	19/05 [757/00] Weak	RNGB	MON
	0715z	21/05 [750/00] Good	RNGB, Brian	WED
	0715z	26/05 [753/32 02528 81674 14364 57113 66271 52589 42224 73144.....45571 11395] Good	RNGB, Brian	MON
	0715z	02/06 [751/38 86516 37257 32202 23090 87116 09952 74972 50490.....46698 21726] Fair	RNGB	MON
	0715z	11/06 [752/00] Fair (Polish SDR)	RNGB	WED
	0715z	16/06 [759/00] Weak	RNGB	MON
	0715z	23/06 [755/00] Weak	RNGB, Brian	MON
	0715z	25/06 [759/00] Weak	RNGB, Brian	WED
	0715z	30/06 [754/00] Weak (Polish SDR)	RNGB	MON
16335kHz	0830z	02/05 [182/00] Fair	RNGB, HfD	FRI
	0830z	05/05 [185/00] Weak	RNGB, Brian	MON
	0830z	09/05 [185/00] Good	RNGB, Brian	FRI
	0830z	12/05 [180/24 51702 63918 19284 26049 91465 38541 03279 58573.....60235 28498]	Brian	MON
	0830z	19/05 [183/00] Weak (Polish SDR)	Brian	MON
	0830z	23/05 [189/00] Weak	Brian	FRI
	0830z	26/05 [180/00] Out 0833z Fair	PLdn, Brian	MON
	0830z	30/05 [185/00] Very weak	Brian	FRI
	0830z	06/06 [180/39 32131 05921....66735 69404] Weak	Brian	FRI
	0830z	09/06 [188/00] Fair (Polish SDR)	RNGB, Brian	MON
	0830z	16/06 [182/00] Weak	Brian	MON
	0830z	20/06 [185/00] Weak	Brian, Pldn	FRI
	0830z	23/06 [189/00] Good	RNGB, Brian	MON
	0830z	27/06 [183/00] Fair	RNGB, Brian	FRI
	0830z	30/06 [185/00] Weak	Brian	MON
17378kHz	0820z	06/05 [138/00] Weak	RNGB, Brian, HfD	TUE

	0820z	07/05 [132/00]	Good		RNGB, Brian	WED
	0820z	13/05 [131/00]	Weak		Brian	TUE
	0820z	20/05 [133/37 61765 39835 10134 66866 66253 45924 02847 23874.....28461 43386]	Fair, QSB		RNGB, Brian	TUE
	0820z	27/05 [135/00]	Very weak		Brian	TUE
	0820z	28/05 [136/00]	Out 0823z Fair		dMHz	WED
	0820z	10/06 [130/00]	Fair		RNGB, Brian	TUE
	0820z	24/06 [138/39 32904 61758 13597 20574 24541 99508 56248 05416.....74853 46079]			Brian	TUE
18511kHz	0315z	05/05 [255/00]			HfD	MON
19184khz	0845z	06/05 [151/00]	Very weak		Brian	TUE
	0845z	08/05 [150/00]	Good		RNGB, PLdn	THU
	0845z	15/05 [157/00]	Weak		Ary	THU
	0845z	20/05 [152/00]	Weak		Brian	TUE
	0845z	22/05 [150/00]	Very weak		Brian	THU
	0845z	05/06 [159/00]	Good		RNGB, Brian	THU
	0845z	10/06 [151/32 84187 56434 57456 06517 22803 26611 58409 35097.....17044 80938]			RNGB	TUE
	0845z	17/06 [157/00]	Very weak		Brian, PLdn	TUE
	0845z	19/06 [150/00]	Good		Brian, PLdn	THU
	0845z	24/06 [151/00]	Weak		RNGB, PLdn, Brian	TUE
	0845x	26/06 [154/00]	Weak		Brian	THU
20640kHz	0745z	22/05 [229/32 40102 23579 04908 23045 32760 02827 25940 19283.....078642 18149]	Good		RNGB, Brian	THU
	0745z	27/05 [223/00]	Good (350hz below frequency)!	(Polish SDR)	RNGB	TUE
	0745z	29/05 [227/00]	Weak		RNGB	THU
	0745z	03/06 [225/34 99848 71118 31435 85902 81216 19013 64292 44549.....28562]	(Polish SDR)		RNGB, HfD	TUE
	0745z	10/06 [220/00]	Good	(Polish SDR)	RNGB, Brian	TUE
	0745z	12/06 [228/00]	Fair		Brian	THU
	0745z	17/06 [225/00]	Weak		RNGB, Brian	TUE
	0745z	29/06 [220/00]	Fair		Brian	THU
	0745z	24/06 [225/00]	Fair		RNGB, Brian	TUE
	0745z	26/06 [225/00]	Good	(Polish SDR)	RNGB. Bian	THU
21906kHz	0600z	05/05 [944/00]			Ary, HfD	MON
	0600z	12/05 [945/35 09122 55323 90438 78518 36332 66035 75187.....66500 39142]	(Polish SDR)		RNGB	MON
	0600z	21/05 [949/00]	Good	(Polish SDR)	RNGB	WED
	0600z	26/05 [946/00]	Good	(Polish SDR)	RNGB	MON
	0600z	28/05 [945/00]	Good	(Polish SDR)	RNGB	WED
	0600z	02/06 [944/00]	Good		RNGB	MON
	0600z	04/06 [946/00]	Fair	(Twente SDR)	RNGB	WED
	0600z	16/00 [945/00]	Good	(Polish SDR)	RNGB	MON

E11 Error

17410khz	13-05-2025 0725z	E11	518/00 (27sec) off (should be F03j)	Thanks to Ary		
18773khz	14-05-2025 0725z	E11a	413/39 repeated. Ended after about 20 seconds. Was expecting S11a		RNGB	WED

In support of RNGB's page PoSW offer his logs [some repetition]:

As always mostly "no message" routine with a transmission time of just over three minutes:-

5409 kHz 2000 UTC

1-May-25, Thu:- "528/00"
4-May-25, Sun:- "522/00"
8-May-25, Thu:- "524/33", message, "Out" at 2009:50s UTC.
11-May-25, Sun:- "524/33" again.
15-May-25, Thu:- "525/00"
18-May-25, Sun:- "524/00"
29-May-25, Thu:- "522/00"
1-June-25, Sun:- "520/00"
5-June-25, Thu:- "527/00"
8-June-25, Sun:- "521/00"
15-June-25, Sun:- "522/00"
19-June-25, Thu:- "522/39", message, "Out" at 2011:12s UTC.
22-June-25, Sun:- "522/39" again.
26-June-25, Thu:- "528/00"

7600 kHz 1900 UTC

1-May-25, Thu:- "646/00"
5-May-25, Mon:- "640/36", message, "Out" at 1910:24s UTC.
8-May-25, Thu:- "640/36" again.
12-May-25, Mon:- "641/00"
15-May-25, Thu:- "648/00"
19-May-25, Mon:- "640/00"
26-May-25, Mon:- "643/00"
29-May-25, Thu:- "648/00"
2-June-25, Mon:- "644/00"
5-June-25, Thu:- "644/00"

9-June-25, Mon:- “644/00”
 16-June-25, Mon:- “643/38”, message, “Out” at 1910:54 UTC.
 19-June-25, Thu:- “643/38” again.
 26-June-25, Thu:- “649/00”

7863 kHz 1715 UTC
 7-May-25, Wed:- “972/32”, message, “Out” at 1724:40s UTC.
 9-May-25, Fri:- “972/32” again.
 16-May-25, Fri:- “978/00”
 21-May-25, Wed:- “972/00”
 23-May-25, Fri:- “977/00”
 28-May-25, Wed:- “972/00”
 18-June-25, Wed:- “978/00”
 20-June-25, Fri:- “970/00”

12229 kHz 1815 UTC
 4-May-25, Sun:- “926/00”
 9-May-25, Fri:- “920/00”
 11-May-25, Sun:- “927/00”
 16-May-25, Fri:- “924/39”, message, “Out” at 1825:56 UTC.
 18-May-25, Sun:- “924/39” again.
 1-June-25, Sun:- “922/00”
 6-June-25, Fri:- “925/00”
 15-June-25, Sun:- “921/37”, message, “Out” at 1825:38s UTC.
 22-June-25, Sun:- “925/00”
 27-June-25, Fri:- “920/00”

12984 kHz 1430 UTC
 3-May-25, Sat:- “910/00”
 6-May-25, Tue:- “915/32”, message, “Out” at 1439:35s UTC.
 10-May-25, Sat:- “915/32” again.
 13-May-25, Tue:- “917/00”
 17-May-25, Sat:- “917/00”
 20-May-25, Tue:- “919/00”
 24-May-25, Sat:- “912/00”
 27-May-25, Tue:- “918/00”
 3-June-25, Tue:- Very weak signal, unreadable.
 7-June-25, Sat:- “915/00”, whatever was the problem on Tuesday has gone, good signal this afternoon.
 10-June-25, Tue:- “915/00”
 14-June-25, Sat:- “917/00”
 21-June-25, Sat:- “910/35”, message, weak signal, “Out” at 1440:15s UTC.
 24-June-25, Tue:- “914/00”
 28-June-25, Sat:- “917/00”

15720 kHz 0745 UTC
 There is usually a strong digital signal on this frequency which makes copy of E11 difficult; sounds like some version of DRM and on several occasions it has been observed to go off air at 0757 UTC.
 2-May-25, Fri:- “340/00” (?), difficult copy due to digital interference.
 7-May-25, Wed:- Unreadable, DRM very strong.
 9-May-25, Fri:- “343/33” (?), message but difficult copy due to DRM which went off at 0757z.
 14-May-25, Wed:- “342/00”, E11 stronger than usual and overriding the interference.
 16-May-25, Fri:- Unreadable, digital noise very strong and to make things worse a strong buzz/pulse type signal - over-the-horizon radar? - extending from about 15709 to 15732.
 21-May-25 and 28-May-25, Wednesdays:- E11 wiped out by DRM.
 23-May-25, Fri:- “340/00”, audible over the interference.
 25-June-25, Fri:- “343/00”, no sign of the DRM.
 27-June-25, Fri:- “349/00”, again no interference.

17378 kHz 0820 UTC
 7-May-25, Wed:- “132/00”
 28-May-25, Wed:- “136/00”
 10-June-25, Tue:- “130/00”
 11-June-25, Wed:- “131/00”
 24-June-25, Tue:- “138/39”, stronger signal than usual, “Out” at 0831:7s UTC.
 25-June-25, Wed:- “138/39” again, weaker than 24 hours earlier.

S06

S06 log May/June

Friday	1900z	11149kHz	2000z	9205kHz
02/05 ‘842’ 00000				
	2000z	11149khz	2100z	9205kHz
06/06 ‘842’ 00000				
Wednesday	0930z	14975kHz	1030z	13389kHz

07/05 '480' 396 45 70340 89469 40696 73931 90242 85301 83802 15391 97484 12589 14156 39241 27915 34218 13905 98712 30138 25783 29530 05309
94648 36920 56974 87434 37964 72819 38309 47848 60983 53892 79705 65750 58902 54564 83696 37207 23763 14130 60516 82542
54681 08165 78205 56898 32160 396 45 00000

Sunday **0730z** **14735khz** **0800z** **12207kHz**
11/05 '480' 157 44 07234 94343 42986 58416 52765 17613 62563 56965 46230 64726 63421 39638 17847 20276 10292 79645 14809 82189 27836 43569
03623 16103 95818 89639 60187 71246 98620 20915 15201 20801 75317 83941 49468 25193 49586 60126 68745 69740 48087 20192
27380 36251 28416 68914 157 44 00000

Monday **0400z** **11616kHz** **0420z** **9322kHz**
05/05 '480' 917 53 46198.....etc (via KiwiSDR J} Thanks HfD

First + Third Fridays in the Month Schedule (but also showed up on the fourth Friday in May with a message). Continues to use the same frequencies and “call” as in the same months of last year:-

2-May-25:- 1900 UTC, 11149 kHz, “842 842 842 00000”.
2000 UTC, 9205 kHz, second sending. Both frequencies suffering from local RF noise interference, only recently realised that a slight reduction, enough to improve copy of weak signals, could be achieved by unplugging my internet router from the mains.

16-May-25:- 1900 UTC, 11149 kHz and 2000 UTC, 9205 kHz, “842 842 842 00000”.

For some time this schedule has transmitted a message only twice a year in late spring / early summer and again in late autumn / early winter. The last time a message was heard – unless someone knows otherwise was on 22-Nov-24 which was the fourth Friday in that month, so it seemed worth while to check out the situation on the fourth Friday in May:-

23-May-25:- 1900 UTC, 11149 kHz, calling “842” for a message, DK/GC “630 630 51 51”, ended shortly after 1914z.

2000 UTC, 9205 kHz, second sending, pre-transmission warm-up tone heard on 9205 at 1942z followed by a single spoken “842” at 1944.

Moved up by one hour in June:-

6-June-25:- 2000 UTC, 11149 kHz, “842 842 842 00000”.
2100 UTC, 9205 kHz, weak signal.

20-June-25:- 2000 UTC, 11149 kHz and 2100 UTC, 9205 kHz, “842 842 842 00000”.

S11a log May/June

5149khz	0830z	11/05 [377/00] Fair	RNGB	SUN
	0830z	17/05 [377/00] Weak	PLdn	SAT
	0830z	24/05 [371/00] Fair	RNGB	SAT
	0830z	25/05 [373/00] Fair	RNGB	SUN
	0830z	01/06 [377/00] Good	RNGB	SUN
	0830z	21/06 [376/00] Fair	RNGB	SAT
6814khz	0915z	02/05 [485/00] Good	RNGB, HfD	FRI
	0915z	05/05 [482/00] Good	RNGB	MON
	0915z	09/05 [486/00] Strong	RNGB	FRI
	0915z	02/06 [487/00] Very weak	PLdn	MON
	0915z	09/06 [487/00] Good	RNGB	MON
	0915z	16/06 [485/33 97916 44423 38630 75827 18430 50953 16749 13011.....26370 63658] Fair	RNGB	MON
	0915z	23/06 [483/00] Fair	RNGB	MON
9339khz	0700z	01/05 [470/00] Good	RNGB, HfD	THU
	0700z	08/05 [471/39 75683 98117 82554 46338 35119 00525 24267 12773.....68638 31541] Strong	RNGB	THU
	0700z	12/05 [476/00] Good	RNGB	MON
	0700z	15/05 [476/00] Weak	PLdn	THU
	0700z	19/05 [471/00] Good	RNGB	MON
	0700z	22/05 [477/00] Good	RNGB	THU
	0700z	26/05 [478/00] Good	RNGB	MON
	0700z	02/06 [477/00] Strong	RNGB	MON
	0700z	05/06 [472/00] Good	RNGB	THU
	0700z	12/06 [477/33 81406 80872 70094 69738 34395 60189 47702 74716.....94231 59218]	RNGB	THU
	0700z	16/06 [478/00] Strong	RNGB	MON
	0700z	19/06 [471/00] Strong	RNGB	THU
	0700z	23/06 [471/00] Strong	RNGB	MON
	0700z	26/06 [471/00] Strong	RNGB, PLdn	FRI
	0700z	30/06 [470/00] Good	RNGB	MON

9448kHz	1400z	02/05 [424/00]		HfD	FRI
	1400z	06/05 [421/00] Konyets 1403z		Ary, HfD	TUE
	1400z	27/05 [424/00]		dMHz	TUE
9968khz	0445z	01/05 [797/00] Konyets 0448z Weak		PLdn, HfD	THU
	0445z	13/05 [795/37 93760 ... 66051?] V Rpt txt Konyets 0456z Weak, occ QSB to nil		PLdn	TUE
	0445z	20/05 [798/00] Weak		PLdn	TUE
	0445z	10/06 [797/00] Weak		PLdn	TUE
	0445z	12/06 [790/00] Fair		PLdn	THU
	0445z	24/06 [791/31 53989.....83710] Weak		PLdn	TUE
12457kHz	1850z	03/05 [286/00] Weak		PLdn, HfD	SAT
	1850z	10/05 [287/00] Strong		PLdn	SAT
	1850z	17/05 [281/00] Weak to Fair		PLdn	SAT
	1850z	21/05 [280/00] Fair		PLdn	WED
	1850z	31/05 [287/37 32190.....75471] Strong		PLdn	SAT
	1850z	11/06 [288/00] Weak		PLdn	TUE
	1850z	14/06 [283/00] Weak and noisy		PLdn	SAT
	1850z	18/06 [280/00] Fair		PLdn	TUE
16357khz	0510z	05/05 [654/00]		HfD	MON
	0510z	16/06 [654/00] Very weak		RNGB	MON
18773khz	0725z	09/05 [381/00]		HfD	FRI
	0725z	21/05 [381/32 85477 03290 46806 41969 86815 35571.....86842 24622 32655] Good		RNGB	WED
	0725z	30/05 [382/00] Very weak		RNGB	WED
	0725z	06/06 [389/37 16791 88935 95839 28941 17996 74562 93806 06101.....18775 92880] Weak		RNGB	FRI
	0725z	11/06 [384/00] Fair (Polish SDR)		RNGB	WED
	0725z	18/06 [384/00] Weak (Polish SDR)		RNGB	WED
	0725z	20/06 [389/00] Very weak (Polish SDR)		RNGB	FRI
	0725z	25/06 [380/00] Fair (Twente SDR)		RNGB	WED
	0725z	27/06 [384/00] Weak		RNGB	FRI

V07 With thanks from Daniel, DanAR

May 2025

0700z	14469kHz	0700z	13369kHz	0700z	12169kHz		
14469kHz 0700z	04/05	431 1 9099 59 10166 ...	83145 000 000	QSA3	DanAR	SUN	
431 431 431 1							
9099 59							
10166 31005 21191 76457 96574							
88103 33166 34185 11717 34846							
94412 91446 10650 19908 43653							
54606 92171 31600 97358 50328							
64459 18523 25202 82905 38062							
70811 62803 31985 82777 53868							
57743 69638 80004 39876 57031							
54503 61869 42344 41932 98067							
86401 71754 14570 82904 13928							
03896 29574 29964 09895 91352							
59157 64156 33928 46947 45651							
12279 26209 85017 83145							
000 000	Courtesy DanAR						
14469kHz 0700z	11/05	Test Tone only			DanAR	SUN	
14469kHz 0700z	18/05	431 1 5634 41 85993 ...	45313 000 000	QSA3	DanAR	SUN	
431 431 431 1							
5634 41							
85993 59079 85025 06512 37103							
64222 24923 83591 77048 74348							
72899 20184 51210 76054 48260							
81162 86634 91800 99453 02794							
51382 50301 67234 57002 52262							
84110 71180 14132 99522 64389							
84135 79940 33316 84714 06722							
45480 46753 93175 49743 39465							
45313 000 000	Courtesy DanAR						

14469kHz 0700z	25/05	431 1 3313 113 92509 ... 61909 000 000 QSA3	DanAR	SUN
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431 431 431 1
3313 113
92509 62425 52171 29561 78267
77721 30293 07962 77579 51949
64011 95288 31487 65398 66907
13514 99130 38422 97230 07328
03798 46058 03519 81262 57704
70987 95102 50101 45958 36643
31803 95131 17232 27561 39186
79214 45442 42827 71252 09995
45391 51362 68876 05243 81095
67497 53054 87489 73234 22284
50340 26667 83160 16540 52693
44565 59429 05690 78895 54762
43275 82877 15309 80404 65752
80256 32443 95159 77271 97481
85966 30939 15688 60480 10512
17892 20032 38054 56392 25854
20217 37837 37459 37637 91881
60537 18546 52932 66881 21967
46889 03296 72093 45876 29623
77731 92559 12482 11089 86455
19185 15546 94732 85014 35514
82292 28900 90801 28023 08403
00458 63847 61909 000 000

Courtesy DanAR

June 2025

0700z	13927kHz	0720z	13427kHz	0740z	12127kHz
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13927kHz 0700z 01/06	942 1 8723 63 60552 ... 46057 000 000 QSA3	DanAr	SUN
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942 942 942 1
8723 63
60552 91898 56972 12400 82264
69740 68217 17104 96380 80433
87681 12063 70044 47706 50505
89500 54702 75476 37951 44393
51171 61244 06479 17183 40542
96403 57947 00839 98278 75236
23688 91733 39845 29050 57716
95936 10410 94582 64581 70641
09674 83250 85114 16528 76792
39075 25197 43329 29858 67404
88312 79808 66554 93807 20907
75607 02235 19264 90533 28864
77150 44504 46057 000 000

Courtesy DanAR

13927kHz 0700z 08/06	942 1 8982 94 55568 ... 59685 000 000 QSA3	DanAr	SUN
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942 942 942 1
8982 94
55568 78879 06973 55042 83271
19392 64985 16686 36468 58321
82859 06539 59751 02253 80363
37734 28673 30515 47679 34890
74689 96072 47646 11739 07568
01522 14914 80201 69826 03332
73275 97942 87522 66131 02523
50959 60338 01882 34483 81547
09817 92706 48928 23116 61161
63140 98423 96625 21472 40655
18531 57582 06084 64025 12576
32599 25128 06080 00589 78635
77822 62846 37704 28203 92469
77476 93949 34519 05469 72485
90527 96718 15886 43784 81308
20552 93963 69919 79552 60144
85873 06652 18852 40895 79394
59466 65167 62099 05215 57928
61434 98228 68940 59685
000 000

Courtesy DanAR

13927kHz 0700z 15/06	942 1 9566 115 35007 ... 69806 000 000 QSA3	DanAr	SUN
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942 942 942 1
 9566 115
 35007 62559 48135 99852 08349
 33414 00234 45115 71371 59869
 12215 04767 03687 43754 37446
 64981 09597 56091 80988 79837
 84203 07440 92857 16837 36267
 35289 56791 02584 02398 22706
 78857 34642 02473 34916 38127
 16540 19576 31338 91998 08577
 97897 36682 67064 77930 03367
 86969 98463 72220 13102 71377
 28647 81485 55549 29331 98656
 58920 12318 97761 06880 42507
 35809 14083 59972 27739 52910
 02797 60039 21893 57790 46844
 44024 91161 67587 23226 24088
 75071 53199 67636 92007 40922
 67796 43461 43434 63879 72100
 31627 22822 42171 95203 47879
 09238 99159 08943 12460 87614
 59072 23241 16041 78568 57365
 98589 97751 07884 56943 60599
 89274 59556 90454 47433 51597
 25400 12750 42658 87463 69806
 000 000 *Courtesy DanAR*

13927kHz 0700z 22/06	942 1 6448 82 44956 81086 62735 20993 000 000 QSA2 QSB1 weak signal	DanAr	SUN
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942 942 942 1
 6448 82
 44956 81086 62735 20993 000 000

13927kHz 0700z 29/06	942 1 7931 104 52876 ... 02993 000 000 QSA3	DanAr	SUN
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942 942 942 1
 7931 104
 52876 80151 72078 55308 14874
 83532 91801 16910 17749 06094
 34941 72117 06905 88723 49346
 51023 16741 81426 54458 06465
 96491 87143 65165 61321 87029
 49722 43920 35364 29478 99464
 19301 86595 50686 85981 15550
 68416 62835 03547 29458 26145
 35627 84348 55009 29902 83962
 08342 64055 00042 17994 18211
 66416 59138 11740 94461 95549
 62068 17188 91270 55707 10129
 57720 48784 07611 01398 98066
 25918 46549 44105 67668 20470
 96664 41995 71388 44878 34786
 71705 10207 14882 51420 42223
 58464 31742 94346 90216 45782
 70540 57194 47045 74491 43669
 69900 11487 49051 34427 75294
 15405 72641 01797 55950 23019
 07619 36759 35060 02993
 000 000 *Courtesy DanAR*

V13

V15 North Korean Intelligence via Radio Pyongyang

Nil Reports

V24

Nil Reports

V26

Nil Reports

Polytones

XPA1 Wed/Fri

May 2025

1210z	13419kHz	1230z	12219kHz	1250z	11419kHz		
02/05	1210z TTYQRM, 1230z Weak QSB to nil, 1250z Unworkable						
07/05	424 424 424 1 02720 00074 27483 ... 43131 80855 27515					Ary	WED
09/05	424 1 02720 00074 27483 ... 27515					1250z Unworkable, rest Weak. 1210z TTYQRM3	
14/05	424 000 03546 00001 00000 ... 36657					1250z Unworkable, rest Weak	
16/05	Unworkable, Null Msg 2m26s lg						
21/05	424 1 08398 00162 68412 ... 56606			[4m03s]	1230z Unworkable, rest Weak 1210z TTYQRM3		
23/05	424 1 08398 00162 68412 ... 56606					1210z Weak TTYQRM3, rest Unworkable	
28/05	Unworkable, Msg 4m03s lg					1250z NRH, poor condx	
30/05	Unworkable, Msg indeterminate length						

June 2025

1210z	13545kHz	1230z	12145kHz	1250z	11145kHz
04/06	511 1	rest too weak to process; 4m05s lg			Poor condx
06/06	1230z DigiSignalQRM5, rest Unworkable				
11/06	511 1	00937 00163 52581 ... 75305	1210z Fair QSB3, 1230z Unworkable, 1250z NRH Poor condx		
13/06	511 1	00937 00163 52581 ... 75305	1250z Unworkable, rest Weak with QSB3 Poor condx		
18/06	511 1	03367 00099 16174 ... 16734	1210z Weak, QSB4, rest NRH		
20/06	NOT MONITORED				Off Watch ☺
25/06	511	1003367 00099 50948 ... 45516	1250z Unworkable, rest Weak 1230z QSB3		
27/06	511 1	03367 00099 16174 ... 416734	1210z Weak, rest NRH		

XPA2 Mon/Wed (p)

Monday/Wednesday

May 2025

0700z	12148kHz	0720z	13448kHz	0740z	13948 kHz
05/05	09879 00144 43473 ... 06737			0740z Strong, rest Fair	
09879 00144 43473 35529 78039 86540 21524 93899 89530 91408 98168 12347 92528 56644 10436 35768 29753 38618 75239 26030 25128 57825 07161 39254 42152 50350 80648 05784 56231 89557 91874 57144 23337 97992 63752 57643 77880 16957 55041 41741 58622 33144 64900 19513 98620 07851 05593 11332 98345 26722 93595 81103 40354 72308 03426 14826 09510 20123 88278 16260 35200 07934 60320 32171 50316 21542 69004 93370 56615 79615 42612 03573 48755 05907 60561 14733 14400 74546 18824 36883 78330 04517 12741 56005 60786 55720 07408 88435 49234 70525 96978 11130 68007 19584 28828 78154 43629 73341 78878 30242 69463 95279 73345 99804 83350 71481 56661 28308 53635 22867 15197 69561 51478 71050 73503 67867 00426 31842 93858 58554 22860 17788 00894 72338 99856 78665 27003 56248 33063 18731 22682 35770 44618 06900 31687 71861 35340 54958 35049 67810 01487 11958 85819 15320 36407 04823 06737 <i>Courtesy PLdn</i>					
07/05	09879 00144 43473 ... 36407 04823 06737			Ary	WED
12/05	09879 00144 43473 ... 06737			Very strong	

14/05	09879 00144 43473 ... 06737	Strong
19/05	04952 00001 00000 ... 36661	0700z Very strong, rest Strong
21/05	06385 00001 00000 ... 35266	0700z Fair, rest Strong
26/05	09254 00001 00000 ... 34266	Strong
28/08	04138 00001 00000 ... 35657	Very strong
31/05	Null msg 2m11s lg	Unworkable

June 2025

0700z	12148kHz	0720z	13448kHz	0740z	13948 kHz
02/06	07640 00001 00000 ... 34263				0740z Strong, rest Fair
04/06	03357 00001 00000 ... 36260				Fair
09/06	05046 00001 00000 ... 34261				0740z Very strong, rest Strong
11/06	03162 00001 00000 ... 32661				0740z Strong, rest Very strong
16/06	00812 00308 50848 ... 45516				0720z Fair with QRM3, rest Strong [6m07s lg]

00812 00308 50848 48075 70300 20288 00750 98076 39484 66170
80850 68824 22800 70056 54577 20840 83655 80878 24836 00848
85680 06283 81483 15332 08360 05600 63070 60865 76552 38375
37713 37553 50208 82355 06083 18886 00868 81308 28446 63203
38284 60014 33206 36287 00630 27638 35063 80507 08127 88740
20137 30033 31387 63352 32526 26502 83882 30470 36305 28620
06766 48323 32248 80867 08083 88566 68686 00268 86602 85218
74187 28378 63613 08728 32850 65832 63057 47813 61333 00530
32806 08233 31647 87008 05740 01408 48128 55880 51306 36018
63658 63233 80006 00050 08000 46883 87283 57463 86353 88248
00860 66546 83035 37728 68633 58308 45306 85333 37003 78087
03838 62003 08024 33700 80033 38788 02780 72322 83250 76873
57048 75858 32335 50005 55066 80857 23313 12033 30383 56053
07788 88165 37670 38827 33380 87045 52783 22006 82026 16358
47885 38066 78020 06052 27248 32330 77388 83362 48080 07645
50700 78863 53047 58635 07352 38386 33773 12700 27023 85567
30848 66460 45474 08188 62384 80376 83865 06147 56556 64605
25487 08725 71462 81291 08680 77306 83489 44020 38002 61316
00076 87727 05332 33588 50002 00456 03178 21265 20386 83330
74880 66385 67647 30077 37272 74000 31708 03070 37723 38025
46350 52163 05582 03383 35846 03073 88023 22208 58077 87368
84870 24727 12237 80388 83183 23050 07746 28120 00027 78063
62339 71615 00236 51246 03760 82463 57338 83321 88205 21850
00582 91922 08160 46186 06480 62612 15556 38515 77738 30852
63373 48850 45113 91163 82188 02288 65212 31814 16000 75128
29332 26470 21205 84688 06513 38330 33017 53181 13433 92270
03335 83803 80585 85178 66546 88019 88055 65383 86180 61650
20065 06813 45245 28373 68653 41878 46308 08660 44800 53477
30037 20212 48746 53088 44627 50935 84824 66827 31446 55901
42687 95687 44521 49824 60410 70139 95486 38844 35542 18026
79221 52875 89842 63237 56006 71584 63372 78230 08607 27848
45516

Courtesy PLdn

18/06	00812 00308 50848 ... 45516	0700z Strong, rest Very strong
23/06	NOT MONITORED	
25/06	00812 00308 50848 ... 45516	Strong
30/06	01512 00630 72188 ... 70111	Very strong [10m14s lg] <i>Memories of the Anschlags; who's been nicked!</i>

01512 00630 72188 20643 12529 22335 78305 55084 11026 51802
30075 79053 43818 86576 52244 99508 16401 87478 62325 24845
20985 50400 87724 84014 15096 88248 44750 25662 16748 65749
64492 32176 96461 06760 45626 37622 12348 29152 93845 31937
76712 64309 15599 07411 65547 40537 47621 52125 86836 95346
06962 74741 12135 51056 51678 07683 64138 41201 25549 05707
94008 74079 01189 30236 91309 07824 65527 17798 61357 43806
06454 33713 88466 92869 62093 78204 54453 66707 11295 32915
53242 03150 31038 97986 05982 30900 03287 33766 06785 01117
70448 40887 04909 84310 60541 02113 87506 32154 55219 40239
79654 47504 80018 84357 20090 72404 76290 34020 25226 72689
13779 62102 91575 34248 20844 02363 23868 90015 98066 46382
47301 13257 50912 77479 74330 85260 36478 41803 20413 78596

55153 21921 41126 38239 03786 11089 35377 47293 24763 33767
62198 01647 89738 79261 24902 35913 80526 66207 17990 46442
74007 90714 39994 46987 49751 75878 36485 56309 13000 57018
96090 85171 72935 68391 96459 64297 00654 91752 66791 50203
38576 50858 01574 91855 37653 89851 60823 65713 85831 31252
93890 01608 42345 43382 72335 93861 18599 66036 98865 29397
61430 82129 82222 57106 83382 79595 50528 02799 88290 02966
92397 27891 99501 79080 87603 46441 67991 19196 78849 38566
28889 94798 12156 16021 14776 20781 63597 28835 05890 06915
71249 40150 63676 31786 82511 86629 13753 45321 61260 19175
12133 85328 18785 02791 39211 34106 06992 36172 46162 25599
23671 97611 05453 17207 42684 32713 74539 72824 58623 92307
02399 02474 49340 61028 75740 58284 94679 76340 03048 86732
72301 75953 10634 02991 99116 08873 17744 21004 67949 32984
36863 18372 90748 38028 49208 31477 51808 52055 78798 08387
27970 02582 32043 00871 33843 22433 17036 60715 98076 58050
54148 35893 96123 64493 19323 67062 52887 12577 16145 26477
08115 99440 34467 89154 09967 33060 58166 71006 95016 85528
47477 44595 41508 72621 37752 09624 78064 71341 99435 27090
48545 02594 00302 70973 16852 95974 97156 13856 35486 93848
57947 51990 37548 29361 91814 57168 67960 80140 23967 63275
54910 34472 80556 48284 96390 47240 12189 69847 04318 93074
52149 13004 64056 90201 18086 64354 71512 88905 96252 78681
72119 73403 30665 06987 63610 65910 68193 85420 70665 48060
92255 63823 68432 22410 01143 41732 74559 57260 65101 28092
72345 94316 79868 36629 50677 64195 71198 56104 90558 30423
50627 83713 94638 04672 04999 09466 82636 39058 95521 75109
61028 45923 07976 39961 67337 55301 17806 60762 73387 64504
68191 44745 32147 37236 75865 21380 64630 09293 90455 46390
37872 48151 86891 70615 20316 10083 39255 36775 94704 23660
81054 99151 27206 13710 89661 55659 17793 03241 10751 22113
90426 35124 84715 53777 78712 50581 63012 93594 80446 05621
33313 40396 96409 34610 87072 31231 42851 96119 83275 69661
35801 17748 13646 92704 39546 56577 51669 62267 29105 45543
20191 33753 25120 88317 07176 13490 53210 23102 53345 03436
03486 87267 15956 51547 45437 73196 77939 38755 26384 37127
14035 19119 26390 30399 68221 40602 63822 28002 26614 20816
67178 88156 23571 88362 62142 02756 96792 42378 29380 86449
68136 32081 41042 92497 62475 82554 90386 79325 68703 90266
55612 57417 44744 90835 43391 81360 14277 06029 24748 29243
95449 03647 61662 36688 30060 15429 71657 90381 40929 44560
36888 77677 01158 54262 11724 76779 61188 23778 00886 32884
85517 22070 85413 12789 95471 98849 59316 92001 77869 32410
71500 09651 84984 30098 91273 13830 85324 97911 40608 21531
41067 00198 89854 36369 50282 62741 69593 89230 81277 86031
79991 17892 29278 53763 58701 25580 79886 95414 26765 86079
38056 41304 66530 13095 05720 60824 98423 81330 77752 26825
48572 58996 87241 53174 97695 35299 74999 65123 33608 12210
94038 30846 14875 49261 30531 64541 66352 98145 23366 34285
20487 94146 20834 27522 81646 68514 39908 03931 25986 25621
56746 16003 70111

Courtesy PLdn

XPA2 Mon/Sat

Monday/Saturday

May 2025

1500z	15938kHz	1520z	14538kHz	1540z	13438kHz
03/05	07169 00001 00000 ... 36265				Weak
05/05	05004 00188 68851 70604				1540z Fair, rest Unworkable
10/05	05004 00188 68851 ... 70604				1500z Fair, rest Unworkable
12/05	04308 00001 00000 ... 36654				1500z Fair, rest Unworkable
17/05	05129 00001 00000 ... 36257				1540z Fair, rest Unworkable
19/05	05193 00106 83230 ... 33355				1500z Weak, 1520z Unworkable, 1540z Fair

05193 00106 83230 82346 38640 50382 25836 83055 32813 98197
64084 50055 05130 90462 82374 32262 60653 99728 06730 32488
38218 45384 23887 86478 87288 80401 83586 88048 08279 74818
04871 04836 86241 82702 33267 06780 96096 83285 25255 23888
38878 76574 40580 12375 05779 46996 52400 59599 79403 24376
95479 77060 11357 77199 00182 03416 96955 05946 86849 17470
88099 24878 02904 92322 94755 35304 67241 89638 85288 25030
09187 28034 64070 83945 87311 88070 87263 03864 22068 31544

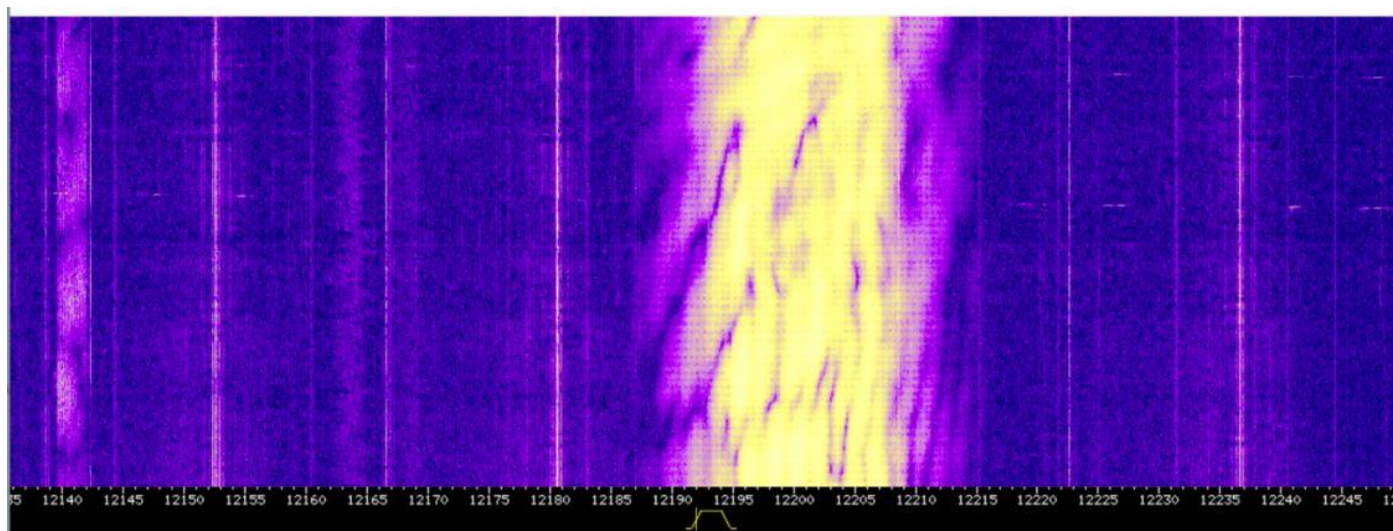
44812 16904 46768 32827 03168 22464 10062 38268 98876 43797
 95846 88562 29844 54072 89971 99297 65508 38013 57445 83760
 02574 03326 31303 63085 05064 04845 37393 51799 33355

Courtesy PLdn

24/05	05193 00106 83230 ... 33355	1500z Fair, rest Weak
26/05	02780 00001 00000 ... 34662	1500z Weak QSB3, 1520z Unworkable, 1540z Fair
31/05	Null Msg [2m11s lg]	Unworkable

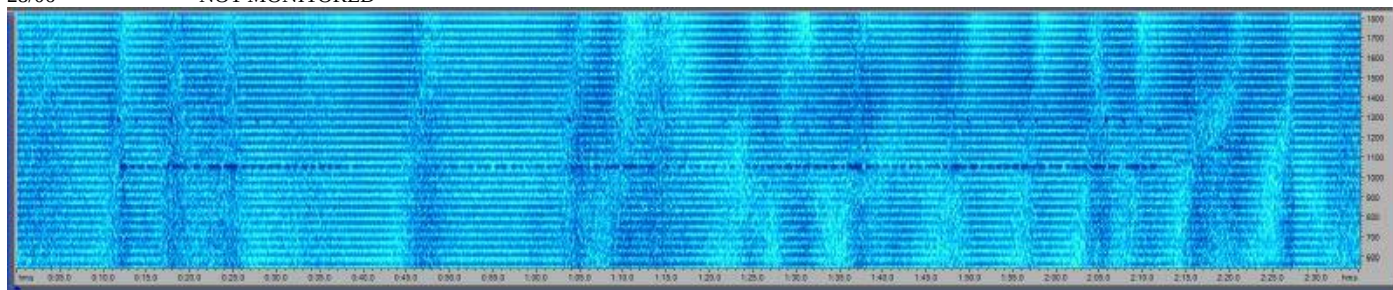
June 2025

1500z	14892kHz	1520z	13492kHz	1540z	12192kHz
02/06	02941 00126 09203 ... 53707				1540z Weak, rest Unworkable
07/06	02941 00126 09203 ... 53707				Weak, 1500/1520z QSB2
09/06	09118 00001 00000 ... 35662				Weak
14/06	04144 00001 00000 ... 33660				1500z Strong, rest Unworkable
16/06	00747 00190 46347 ... 56655				1500z Fair, rest Weak QSB3
21/06	NOT MONITORED				
23/06	08684 00001 00000 ... 36270				1500z Fair, 1520z Weak, 1540z Unworkable – see image below.



1540z from Twente SDR water fall. See below; see polytone sig under signals – from PLdn’s SDR, below

28/06 NOT MONITORED



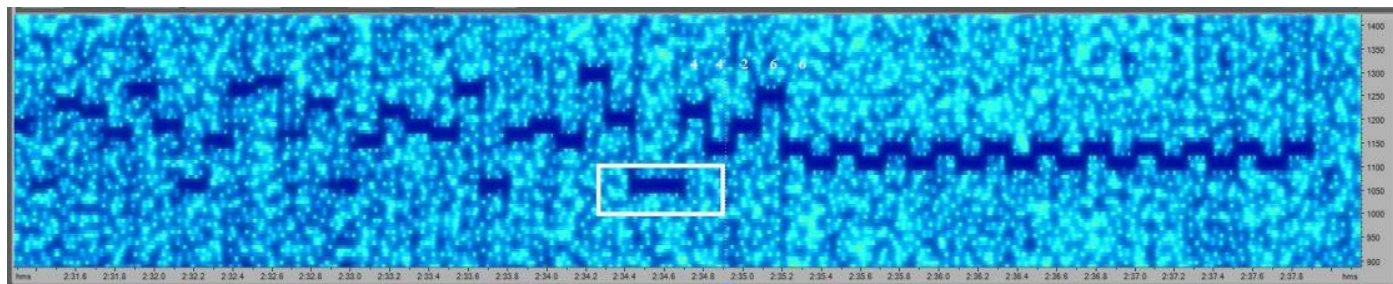
XPA2 Tues/Friday

Tuesday/Friday

May 2025

1100z	16159kHz	1120z	14359kHz	1140z	13459kHz
02/05	04033 00001 00000 ... 10140				1100z NRH, 1120z Strong, 1140z Fair
06/05	06329 00117 17431 ... 63141				1140z Weak QSB3, rest Unworkable

09/05	06329 00117 17431 ... 63141	1140z Unworkable, rest Weak, QSB3
13/05	06329 00117 17431 ... 63141	1140z Unworkable, rest Weak 1100z QSB3/4
16/05	06329 00117 17431 ... 63141	1140z Unworkable, rest Weak
20/05	02566 00065 80025 ... 10130	1100z Fair, QRM2; rest Unworkable
23/05	02566 00065 80025 ... 10130	1100z Fair, 1120 Weak, 1140z Unworkable
27/05	01932 00184 44603 ... 44266	1120z Unworkable, rest Weak Last space 300ms lg, see below:

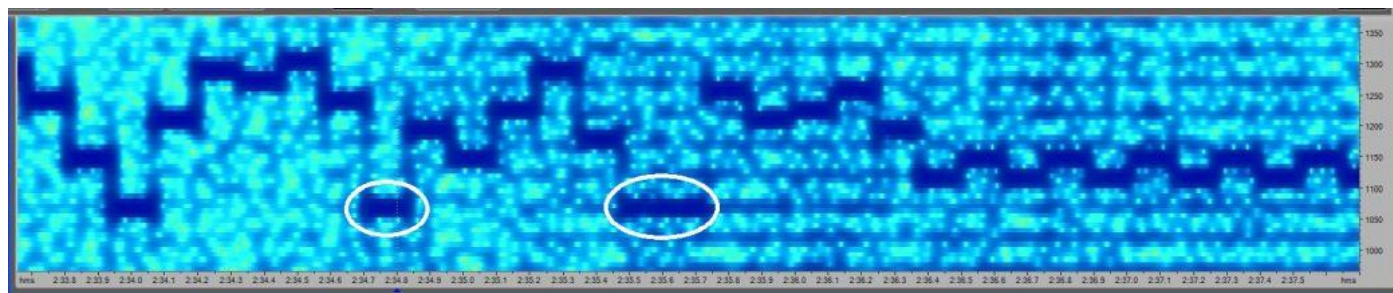


27/05 Note last space 300ms lg

30/05	01932 00184 44603 ... 44266	Weak [Last space ~300ms lg]
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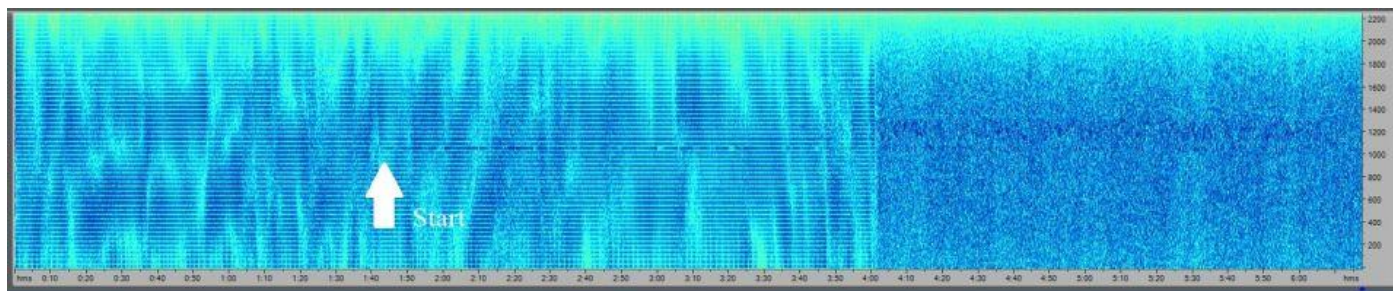
June 2025

1100z	15874kHz	1120z	14474kHz	1140z	13374kHz
03/06	Null Msg 2m11s lg				Unworkable, Poor condx
06/06	Null Msg 2m11s lg				Unworkable
10/06	08749 00183 33260 ... 63462				1100z Fair, rest Weak, 1140z QSB3
13/06	Unworkable				
17/06	08749 00183 33260 ... 63462			1140z NRH, rest Fair	[See below].



15874kHz 1100z 17/06/2025 Last 3 groups, compare space tones; last twice length

20/06	08749 00183 33260 ... 63462	1100z Fair, 1120z Weak QRM3 [see diag] 1140z NRH
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14474kHz 1120z 20/06/2025 QRM3 on transmissiom

24/06	05059 00001 00000	1100z Weak QSB to nil; rest Unworkable
27/06	08606 00001 00000 ... 10140	1100z Unworkable, rest Weak

Other XPA2

Other XPA frm H-FD:

1B XPA2
Thu 01.05.2025 1100Z 16147 msg
Thu 01.05.2025 1120Z 15847 msg
Thu 01.05.2025 1140Z 14747 msg

Thu 01.05.2025 1700Z 19561 msg x1600z 13538
Thu 01.05.2025 1720Z 18365 msg x1620z 14438
Thu 01.05.2025 1740Z 17468 msg x1640z 14938

Fri 02.05.2025 1100Z 16159 msg
Fri 02.05.2025 1120Z 14359 msg
Fri 02.05.2025 1140Z 13459 msg

Fri 02.05.2025 1800Z 15872 msg
Fri 02.05.2025 1820Z 14972 msg
Fri 02.05.2025 1840Z 13872 msg

Sat 03.05.2025 0910Z 14794 msg
Sat 03.05.2025 0930Z 13994 msg
Sat 03.05.2025 0950Z 12194 msg

Wed 21.05.2025 0910Z 17431 msg
Wed 21.05.2025 0930Z 15841 msg
Wed 21.05.2025 0950Z 13934 msg

1B XPA2
Mon 02.06.2025 0910Z 17417 msg
Mon 02.06.2025 0930Z 15812 msg
Mon 02.06.2025 0950Z 14504 msg

Mon 02.06.2025 1500Z 14892 msg
Mon 02.06.2025 1520Z 13492 msg
Mon 02.06.2025 1540Z 12192 msg

Tue 03.06.2025 1100Z 15874 msg
Tue 03.06.2025 1120Z 14474 msg
Tue 03.06.2025 1140Z 13374 msg

Tue 03.06.2025 1700Z 18691 msg x1600z 13417
Tue 03.06.2025 1720Z 17452 Jun x1620z 14817
Tue 03.06.2025 1740Z 16267 msg x1640z 15917

Wed 04.06.2025 0910Z 19489 msg x17417
Wed 04.06.2025 0930Z 18030 msg x 15812
Wed 04.06.2025 0950Z 17453 msg x14504

Wed 04.06.2025 1100Z 15982 msg
Wed 04.06.2025 1120Z 14982 msg
Wed 04.06.2025 1140Z 13882 msg

Wed 04.06.2025 1800Z 17474 msg
Wed 04.06.2025 1820Z 16274 msg
Wed 04.06.2025 1840Z 14574 msg

Sat 07.06.2025 0900Z 18182 msg x0910z 13527
Sat 07.06.2025 0920Z 17428 msg x0930z 12227
Sat 07.06.2025 0940Z 16321 msg x0950z 11427

Lots of XPA2 via Ary, received with thanks!

20082 11-06-2025 0400 XPA2
19451 11-06-2025 0410 XPA2
18656 11-06-2025 0420 XPA2
18038 11-06-2025 0430 XPA2
17411 11-06-2025 0440 XPA2
16268 11-06-2025 0450 XPA2
04902 00331 17848 89911 10838 78258 61723 09832 49191 63380
84335 46046 49626 26551 09134 14482 02293 08950 48304 50927
52401 02407 69680 70830 43924 26997 58926 25198 82470 49217
25447 47321 86374 90304 83570 89273 80497 21651 42238 55646
60362 64940 65022 03912 79627 25643 10509 06998 84279 03510
73506 29596 81654 99400 55178 52177 18288 47017 45987 83839
19332 36524 27360 99973 37932 37014 59670 59320 42979 19859
33983 80640 66710 92656 90563 87459 37384 65767 91202 18280
16488 51927 40918 78960 75710 95850 65665 86972 35126 31392
70984 33480 75663 58398 36314 23838 37579 65048 65979 42613
65971 51188 64018 64419 69525 92864 62884 88997 08837 67718
14793 52520 55814 27706 67351 67404 95605 48399 24262 42081
71348 72697 24194 11586 48873 00503 04977 08312 56342 66724
49879 72335 99787 48588 52308 65298 87907 76497 09434 82844
32965 76666 78134 67407 16599 18464 77665 47956 91046 68908
28231 89179 40785 23897 71264 93273 26993 52431 15546 69022
87887 54572 32655 42112 17838 42457 52731 07225 75397 02052
79495 19108 38965 41416 09115 94680 94561 56786 94986 30409
22836 57019 17264 87432 38493 60699 31549 75889 77323 59034
38304 35476 60951 40410 94956 78392 44011 36022 49568 74140
65732 70440 72558 88993 89412 09123 50214 99367 14782 76582
98710 70206 57443 85135 46186 30867 37307 45222 03618 57137
10908 76841 29900 16363 63746 44019 58155 98553 46459 30722
50668 58539 07217 20845 64675 52395 84460 28270 98019 29369
10485 32180 61107 00741 60322 68097 78031 75814 94223 64088
41084 98788 32403 92429 63232 88890 40540 56194 25246 45392
50966 51659 52908 84059 25914 40170 62988 36598 20460 93789
46406 09037 47202 74248 46652 78726 15733 29159 56039 95648
65987 82340 04329 82370 89636 51879 26135 14786 57611 75784
11855 28265 03023 52626 78401 58824 79271 77047 74825 20151
05108 41432 55354 00433 17681 32047 51586 58154 45777 84505
73156 11380 00155 29597 79404 68625 47330 70536 94421 74033
14035 02202 78985 44674 81934 18141 06013 94574 95845 87826
99454 38685 54332 21167

20402 11-06-2025 0500 XPA2
19638 11-06-2025 0510 XPA2
19106 11-06-2025 0520 XPA2
18426 11-06-2025 0530 XPA2
17438 11-06-2025 0540 XPA2
16337 11-06-2025 0550 XPA2
06669 00307 96264 78688 66039 53619 85507 99052 68098 12834
51252 53043 91224 31311 50858 62311 86888 10843 01251 10181
37769 40319 22811 42563 68793 77221 73753 76818 66078 02785
41802 64902 06383 09062 02221 08903 77679 66628 03490 89770
02046 09767 33431 58542 97966 02203 98697 50412 04713 64950
33288 95230 47194 95311 11319 76865 48958 53700 09894 88816
79865 08689 32973 65313 71031 86339 36659 82161 29090 41954
84631 20260 07353 11479 08134 18002 06887 64267 44596 66590
78523 23340 72104 00028 69496 46570 17717 21071 97741 25355
59943 23978 56733 14672 09905 93356 86792 68117 87510 11626
65542 16535 21322 62757 80318 03027 87877 35714 87177 93306
69977 84689 09104 43303 10293 56524 36583 31844 95816 24460
68621 15588 84408 03734 82010 60652 63526 92679 01574 04777
31208 38769 76756 32969 01047 61987 02017 09347 20809 56468
58692 82001 33893 04424 55377 75253 14873 13429 04378 53379
56772 54948 72300 63049 43003 49954 32114 17588 80746 19665
49500 95196 34140 72399 62108 31208 07933 76134 42256 48305
54507 27235 11035 39348 65767 86619 81694 79994 48356 06757
45778 50096 88301 48193 58004 76259 66467 13707 89964 51091
29873 84428 28600 01143 06967 63495 47861 61492 42315 24168
67320 38738 71171 56072 98871 29536 43912 32952 97281 56383
68258 52118 69231 73989 73886 99402 06895 85945 14395 85848
64739 94224 86168 91163 18432 70078 98634 09892 32380 02271
38758 20202 37679 24187 39435 07039 78923 32228 49321 28467
32346 33515 16425 33581 82832 77753 15196 54610 27256 07563
56600 61914 47096 56465 59427 73094 52569 80007 37640 28793
30901 34020 00571 95009 17624 48056 14438 45043 34553 66846
20478 74665 36623 85926 53502 31223 77799 52586 08331 40677
54881 44024 82635 24816 45670 76842 73104 81213 64759 66340
54469 98915 94587 20528 97565 98325 32944 21414 15956 34775
63314 70152 20057 60408 87083 81922 25290 61169 02963 43470

19624 11-06-2025 0600 XPA2
19241 11-06-2025 0610 XPA2
18431 11-06-2025 0620 XPA2
17444 11-06-2025 0630 XPA2
16194 11-06-2025 0640 XPA2
15813 11-06-2025 0650 XPA2
02118 00242 01935 70440 89810 20275 46515 22221 20562 03298
08461 06046 31037 68744 00715 17357 37598 33402 13000 20188
56832 65988 96059 12995 98619 25274 40645 55039 79272 50329
55743 53202 47429 51014 93135 88006 45101 57471 60496 09427
35592 39755 31504 49214 01779 42524 24956 04194 84249 87519
61946 70445 85462 69369 06988 92763 32487 88938 71819 64536
79629 91475 42948 70232 47554 55257 58616 80021 75607 12708
72254 80126 72904 03573 84594 17076 34483 46844 11215 56095
00318 36450 70789 91752 88381 85297 67738 78058 44026 00372
55518 56161 85651 95959 29796 44116 96806 61271 01660 46521
83906 44933 28586 71541 15264 81819 97539 81889 84774 89910
58279 85641 77723 15723 64217 43178 20686 51194 81850 62255
87518 80557 35995 75235 57188 16093 94474 76944 73775 40477
20269 73211 45184 64693 72187 55383 07864 99247 76488 06561
87757 85848 93282 54114 42091 69876 78437 69927 31741 86617
23430 45611 79420 39404 59002 03349 08938 53350 14352 99170
87343 20595 08114 44297 69641 85067 40457 13030 43535 08834
35314 21438 74705 75288 74497 01669 87273 81879 33143 87310
37654 24547 45202 87157 17047 74656 93789 05779 05690 68837
46445 54513 84894 77317 19216 67162 77733 48985 84472 57022
29418 65407 26391 22907 51302 01992 70904 04132 64906 57332
16074 27057 20206 27041 61515 62796 75391 20955 27249 94983
91277 34678 07339 74696 62387 80800 36542 97387 56071 07335
23935 38288 97406 76119 57892 72246 98154 22294 35854 15055
03752 89657 40872 48357 62242

12148 11-06-2025 0700 XPA2 03162 00001 00000 22661
13448 11-06-2025 0720 XPA2 03162 00001 00000 22661
13948 11-06-2025 0740 XPA2 03162 00001 00000 22661

20447 11-06-2025 0700 XPA2
19281 11-06-2025 0710 XPA2
18253 11-06-2025 0720 XPA2

16284 11-06-2025 0730 XPA2
15945 11-06-2025 0740 XPA2
14913 11-06-2025 0750 XPA2
06800 00296 85480 91888 47392 38049 87034 60533 30286 85090
50540 16092 55162 32493 61927 85795 45919 69641 84743 90862
61903 50095 66803 35676 32326 74591 48775 03931 12513 74931
03323 61748 14314 57318 72215 66752 54308 38135 86857 21299
44034 32192 31940 39857 76177 02685 46379 07918 28507 36165
27373 78398 02515 61437 35716 07918 97646 49804 59562 72799
89273 83102 48019 55354 81766 88790 01777 97843 60276 95174
31487 07783 82783 63443 46827 29711 18154 26946 59497 29640
28212 40856 75423 76347 47558 24923 59232 52875 21601 64297
69104 04503 78572 14057 32025 60930 84171 76585 58089 87385
00907 48535 47640 33332 04678 19589 95614 39070 14609 06004
89762 70700 90305 29921 44587 48416 07679 71670 07796 56843
29558 48901 76241 95978 26070 26983 29210 68725 31418 85896
45538 41568 68855 72110 28733 79676 93215 42091 71669 27968
29307 20161 38265 15596 74533 98402 14197 48651 69468 83607
53251 12500 68788 01245 57827 52004 72292 51660 07261 77694
90378 26888 07652 28712 60465 48194 01845 18195 01187 64910
55200 65587 00001 79826 27535 09396 10635 60644 21445 27666
12785 80557 99256 47810 32645 33038 72778 67609 14282 76728
07383 41554 34829 93974 37588 02419 12509 09553 55130 26339
96556 96000 47463 04558 28407 87663 12499 88961 73708 48431
41369 11647 30215 79593 64908 09820 27631 59840 96066 27427
75414 34234 03912 24458 57526 13646 30757 06025 42237 25116
96885 01082 05514 95105 31109 16784 33094 94697 19402 44981
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74786 52667 13486 27703 50923 62321 92088 23004 47030 14761
56905 06473 46723 48591 51544 40286 06133 35109 48484 48123
76725 32932 40437 51085 06888 91597 40334 38061 89098 61791
02307 75521 76957 14469 50329 44218 87595 77809 44181 68786
24694 10089 47667 04641 88074 14064 37092 45307 25102

20166 11-06-2025 0800 XPA2
19656 11-06-2025 0810 XPA2
18232 11-06-2025 0820 XPA2
17422 11-06-2025 0830 XPA2
16052 11-06-2025 0840 XPA2
15862 11-06-2025 0850 XPA2
09777 00263 43996 34566 24224 40422 91656 55086 12854 09399
75534 76064 39641 41567 94154 25739 45298 92391 60915 94290
70479 50587 87275 05180 61033 29096 16921 06810 62195 50665
94033 13921 35724 40563 98992 43941 04285 17338 33632 73408
75748 54426 71752 82425 66177 48161 06977 27089 51783 15677
38925 22816 37399 85017 38118 14471 54787 38815 73532 95127
23500 84845 92889 62187 15364 61613 40339 99076 42573 50212
21454 27959 58758 87505 18542 16052 78833 04850 39001 12872
22118 89831 55026 46518 11740 71217 76520 50706 02444 84521
89153 65468 43805 38504 49908 90901 61536 09564 67060 04564
07821 07899 84514 01570 94221 10965 64057 49892 66475 22065
35636 49937 99813 60660 73008 33668 29819 46370 50446 44146
85091 89632 96632 58051 61057 55985 84153 20254 37597 27639
54515 69269 37788 34436 05050 14219 05316 53455 52296 00775
07160 26628 84229 80378 48884 39216 65653 83143 65494 16239
61082 15166 59116 22914 19472 18187 11266 26463 40511 38236
26811 43803 12295 38835 67549 66366 12149 65376 55609 58789
28352 76362 94072 49671 36985 58463 05402 16254 09167 21841
90330 01009 54758 21357 66556 39349 10152 14873 14964 86862
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27066 00277 27534 06705 87886 84718 21092 09445 85927 61007
12784 95010 17296 18670 47904 25801 89043 90936 72278 28199
56213 97274 50411 68746 55835 49499 63418 80012 75707 73628
44131 60008 03425 26648 94773 90053 73474 48053 33470 81837
18257 00707 28944 53956 74077 07941 61555 94272 66154 48161
74311 23394 73114 84628 26304 29791 49864 58786 50868 38386
21300 41078 33736 12299 16876 73416

19489 11-06-2025 0910 XPA2
18038 11-06-2025 0930 XPA2
17453 11-06-2025 0950 XPA2
09938 00089 86244 41767 77103 90343 60588 92065 33055 53313
05680 53309 74224 40064 92584 99875 20246 41867 66070 06886
84992 30365 44752 06591 80956 72161 89316 59011 46418 50472
39894 63062 77475 40015 23225 17726 63290 33646 56701 51552
78728 30203 52396 65737 28843 30016 89946 62959 20130 64593
12979 60150 86435 98549 96128 08652 35899 33114 21716 48324
71244 71753 74107 63239 46847 54992 34316 94319 87835 28020
64893 09696 58097 83213 19689 50718 01308 73229 52869 04646
92995 56524 47284 47211 85300 19587 94216 12417 72592 57984
14570 64665

20728 11-06-2025 0900 XPA2
19581 11-06-2025 0910 XPA2
18394 11-06-2025 0920 XPA2
16343 11-06-2025 0930 XPA2
15963 11-06-2025 0940 XPA2
14661 11-06-2025 0950 XPA2
07245 00299 74965 80561 90011 03524 57406 17235 73343 55094
49122 31306 20634 01603 19509 11443 54124 11811 22201 15188
92898 24751 29504 66556 66151 56076 72132 73443 55862 94644
92694 11908 58960 42742 25961 83348 66592 98329 21077 28752
73911 65377 73713 23953 70241 63216 73191 83037 01623 02671
34026 71344 32229 04877 96038 88262 36740 08409 14409 33934
31391 83962 61371 78698 62399 37213 72344 77891 75640 36159
44849 55793 90733 93448 41276 27521 51037 05551 96313 02934
82884 89093 71820 53190 60617 21349 79677 54083 46703 37698
46608 58183 83919 87142 97360 89948 04005 95013 61553 33027
90871 95299 07397 65462 57820 78231 80610 38780 63600 68516
37225 31189 12094 11474 51048 42296 12141 08181 18080 41050
57535 18261 31187 37942 89549 86664 71873 03591 96087 51327
23515 56022 43996 63286 12062 87584 81696 06357 95369 82385
40737 40897 90482 78185 00473 15419 46088 72444 36093 55063
77806 95823 76932 20503 75491 72610 64111 69453 75912 71154
06357 77019 42692 12273 45001 81201 87191 48807 99411 63462
60598 05783 12810 35694 00312 16637 27778 53000 37469 74129
40576 99427 67496 41023 73519 27691 79088 23493 87794 39451
23473 12242 30444 24214 76027 63717 98204 78208 33184 19270
28227 97280 73032 72629 94463 72023 83012 41238 20190 58853
44832 11110 31984 01782 30578 06929 09522 01669 38753 17310
02113 63697 61012 59960 39989 48356 75338 88595 59665 36593
18432 49568 19816 18198 45902 43294 26395 94865 46558 01495
44677 37850 03303 28940 94617 12362 80256 28661 93634 69098
54194 96534 39455 15874 17156 64529 36268 13072 32640 46107
96684 94415 81571 83595 40421 95262 91293 13785 55879 87283
80533 14656 55109 37257 72631 64262 60394 32071 65341 27627
68098 46676 94960 90566 82398 21896 10112 03942 01041 81372
07025 13322 62225 00450 04810 50260 56277 19706 88518 99353
21068 15752

15982 11-06-2025 1100 XPA2
14982 11-06-2025 1120 XPA2
13882 11-06-2025 1140 XPA2
05704 00102 87636 84105 96214 84685 98160 64890 25785 58197
10502 40976 84711 82934 75333 29779 20510 19071 70154 87812
73894 39624 20749 98316 38646 17068 99139 94301 56846 94317
71418 21611 30877 23396 40044 62380 85675 07525 63134 10250
67640 09712 50107 66896 98731 30170 60594 40085 40780 14787
47551 34384 78472 45729 28206 04666 66946 57493 73635 65136
95975 36935 20072 69356 69017 01814 89889 02447 96376 31837
57995 23163 73163 40693 18744 87533 03994 70298 65438 17860
93048 65484 82117 85189 20078 10816 51222 96375 58582 82864
93807 04119 65103 11297 03485 62943 17424 59660 54693 78501
87261 24036 26241 95390 33552

All courtesy of AB

XPB1

WED/SAT

May 2025

13961kHz	1100z	03/05	Weak	4m30s	PLdn	SAT
13361kHz	1110z	03/05	Weak	4m30s	PLdn	SAT
12161kHz	1120z	03/05	Weak	4m30s	PLdn	SAT
11461kHz	1130z	03/05	Weak	4m30s	PLdn	SAT
10761kHz	1140z	03/05	Weak	4m30s	PLdn	SAT
10161kHz	1150z	03/05	NRH		PLdn	SAT

13961 kHz, 07-05, 1100 UTC	Ary	WED
13361 kHz, 07-05, 1110 UTC	Ary	WED
12161 kHz, 07-05, 1120 UTC	Ary	WED
11461 kHz, 07-05, 1130 UTC	Ary	WED
10761 kHz, 07-05, 1140 UTC	Ary	WED

10161 kHz, 07-05, 1150 UTC Ary WED

13961kHz	1100z	10/05	Weak	4m30s	PLdn	SAT
13361kHz	1110z	10/05	Weak	4m30s	PLdn	SAT
12161kHz	1120z	10/05	Weak	4m30s	PLdn	SAT
11461kHz	1130z	10/05	Weak	4m30s	PLdn	SAT
10761kHz	1140z	10/05	Weak	4m30s	PLdn	SAT
10161kHz	1150z	10/05	NRH		PLdn	SAT

13961kHz	1100z	14/05	Weak	4m28s QRM3	PLdn	WED
13361kHz	1110z	14/05	Weak	4m28s	PLdn	WED
12161kHz	1120z	14/05	NRH		PLdn	WED
11461kHz	1130z	14/05	NRH		PLdn	WED
10761kHz	1140z	14/05	NRH		PLdn	WED
10161kHz	1150z	14/05	NRH		PLdn	WED

13961kHz	1100z	17/05	Weak	4m30s	PLdn	SAT
13361kHz	1110z	17/05	Weak	4m30s	PLdn	SAT
12161kHz	1120z	17/05	Fair	4m30s	PLdn	SAT
11461kHz	1130z	17/05	Weak	4m30s	PLdn	SAT
10761kHz	1140z	17/05	Weak	4m30s	PLdn	SAT
10161kHz	1150z	17/05	Weak	4m30s	PLdn	SAT

13961kHz	1100z	21/05	Fair	4m28s	PLdn	WED
13361kHz	1110z	21/05	Fair	4m28s	PLdn	WED
12161kHz	1120z	21/05	Fair	4m28s	PLdn	WED
11461kHz	1130z	21/05	Weak	4m28s	PLdn	WED
10761kHz	1140z	21/05	NRH		PLdn	WED
10161kHz	1150z	21/05	NRH		PLdn	WED

13961kHz	1100z	24/05	Weak	4m28s	PLdn	SAT
13361kHz	1110z	24/05	Weak	4m28s	PLdn	SAT
12161kHz	1120z	24/05	Weak	4m28s	PLdn	SAT
11461kHz	1130z	24/05	Weak	4m28s	PLdn	SAT
10761kHz	1140z	24/05	Weak	4m28s	PLdn	SAT
10161kHz	1150z	24/05	NRH		PLdn	SAT

13961kHz	1100z	28/05	Weak	4m28s	PLdn	WED
13361kHz	1110z	28/05	Weak	4m28s	PLdn	WED
12161kHz	1120z	28/05	Weak	4m28s	PLdn	WED
11461kHz	1130z	28/05	Weak	4m28s	PLdn	WED
10761kHz	1140z	28/05	NRH		PLdn	WED
10161kHz	1150z	28/05	NRH		PLdn	WED

13961kHz	1100z	31/05	Weak	4m28s	PLdn	SAT
13361kHz	1110z	31/05	Weak	4m28s	PLdn	SAT
12161kHz	1120z	31/05	Weak	4m28s	PLdn	SAT
11461kHz	1130z	31/05	Weak	4m28s	PLdn	SAT
10761kHz	1140z	31/05	NRH		PLdn	SAT
10161kHz	1150z	31/05	NRH		PLdn	SAT

June 2025

13876kHz	1100z	04/06	Weak	4m28s	PLdn	WED
13376kHz	1110z	04/06	Weak	4m28s	PLdn	WED
12176kHz	1120z	04/06	Weak	4m28s	PLdn	WED
11576kHz	1130z	04/06	Unworkable		PLdn	WED
10676kHz	1140z	04/06	Weak	4m28s	PLdn	WED
10276kHz	1150z	04/06	Weak	4m28s	PLdn	WED

13876kHz	1100z	07/06	Weak	4m28s	PLdn	SAT
13376kHz	1110z	07/06	Weak	4m28s	PLdn	SAT
12176kHz	1120z	07/06	Weak	4m28s	PLdn	SAT
11576kHz	1130z	07/06	Weak	4m28s	PLdn	SAT
10676kHz	1140z	07/06	Weak	4m28s	PLdn	SAT
10276kHz	1150z	07/06	Weak	4m28s	PLdn	SAT

13876kHz	1100z	11/06	Weak	4m28s	PLdn	WED
13376kHz	1110z	11/06	Weak	4m28s	PLdn	WED
12176kHz	1120z	11/06	Weak	4m28s	PLdn	WED
11576kHz	1130z	11/06	Weak	4m28s	PLdn	WED
10676kHz	1140z	11/06	NRH		PLdn	WED
10276kHz	1150z	11/06	Weak	4m28s	PLdn	WED

13876kHz	1100z	14/06	Weak	4m28s	PLdn	SAT
13376kHz	1110z	14/06	Weak	4m28s	PLdn	SAT
12176kHz	1120z	14/06	Weak	4m28s	PLdn	SAT
11576kHz	1130z	14/06	NRH		PLdn	SAT
10676kHz	1140z	14/06	Weak	4m28s	PLdn	SAT
10276kHz	1150z	14/06	Weak	4m28s	PLdn	SAT

13876kHz 1100z	18/06	Weak	4m28s	PLdn	WED
13376kHz 1110z	18/06	Weak	4m28s	PLdn	WED
12176kHz 1120z	18/06	Weak	4m28s	PLdn	WED
11576kHz 1130z	18/06	Weak	4m28s	PLdn	WED
10676kHz 1140z	18/06	Weak	4m28s	PLdn	WED
10276kHz 1150z	18/06	Weak	4m28s	PLdn	WED

13876kHz 1100z	21/06	No Monitoring		PLdn	SAT
13376kHz 1110z	21/06	No Monitoring		PLdn	SAT
12176kHz 1120z	21/06	No Monitoring		PLdn	SAT
11576kHz 1130z	21/06	No Monitoring		PLdn	SAT
10676kHz 1140z	21/06	No Monitoring		PLdn	SAT
10276kHz 1150z	21/06	No Monitoring		PLdn	SAT
13876kHz 1100z	25/06	Weak	4m28s	PLdn	WED
13376kHz 1110z	25/06	Weak	4m28s	PLdn	WED
12176kHz 1120z	25/06	Weak	4m28s	PLdn	WED
11576kHz 1130z	25/06	NRH		PLdn	WED
10676kHz 1140z	25/06	Weak	4m28s	PLdn	WED
10276kHz 1150z	25/06	Weak	4m28s	PLdn	WED

Other XPB1 fm H-FD:

1B XPB1

Fri 02.05.2025 1300Z 20061 MFSK-16 1:44
 Fri 02.05.2025 1310Z 19361 MFSK-16
 Fri 02.05.2025 1320Z 18261 MFSK-16
 Fri 02.05.2025 1330Z 17461 MFSK-16
 Fri 02.05.2025 1340Z 16261 MFSK-16
 Fri 02.05.2025 1350Z 14961 MFSK-16

Tue 06.05.2025 0500Z 19554 MFSK-16 4:30 x13435
 Tue 06.05.2025 0510Z 19054 MFSK-16 x13935
 Tue 06.05.2025 0520Z 18054 MFSK-16 x14435
 Tue 06.05.2025 0530Z 17454 MFSK-16 x14835
 Tue 06.05.2025 0540Z 16354 MFSK-16 x15935
 Tue 06.05.2025 0550Z 15854 MFSK-16 x16225

Good start to June, amongst the poor condx from Gert:

XPB 14979kHz 18.00utc 20250603
 XPB 14517kHz 18.10utc 20250603

1B XPB1

Tue 03.06.2025 0500Z 19357 MFSK-16 1:35
 Tue 03.06.2025 0510Z 18357 MFSK-16
 Tue 03.06.2025 0520Z 17457 MFSK-16
 Tue 03.06.2025 0530Z 11111 MFSK-16
 Tue 03.06.2025 0540Z 14457 MFSK-16
 Tue 03.06.2025 0550Z 13457 MFSK-16

Fri 13.06.2025 1300Z 20047 MFSK-16 2:15 via KiwiSDR KWT
 Fri 13.06.2025 1310Z 19247 MFSK-16 via KiwiSDR KWT
 Fri 13.06.2025 1320Z 18247 MFSK-16
 Fri 13.06.2025 1330Z 17447 MFSK-16
 Fri 13.06.2025 1340Z 16247 MFSK-16
 Fri 13.06.2025 1350Z 14947 MFSK-16

Mon 16.06.2025 0500Z 19357 MFSK-16 4:32 via KiwiSDR RUS
 Mon 16.06.2025 0510Z 18357 MFSK-16
 Mon 16.06.2025 0520Z 17457 MFSK-16
 Mon 16.06.2025 0530Z 15957 MFSK-16
 Mon 16.06.2025 0540Z 14457 MFSK-16
 Mon 16.06.2025 0550Z 13457 MFSK-16

Tones, Hybrids and FSK

HM01

Nil reports

X06 Mazielka (1c) logs section

Interview and X06 report

Hello dear colleagues and friends of E2K,

As promised in the last issue, here's a short report about the interview with the journalist from Dutch TV:

He came to my QTH in Marburg on May 9th and interviewed me about the Russian numbers stations. Of course I mentioned ENIGMA2000 as the most serious numbers group in the scene. His questions were in English, but he wanted to get the answers in German, so please don't wonder, when you'll hear the transmission. We listened to XPA1 on the regular Friday sked. It came with message, but very weak at my QTH. But thanks to another hobbyfriend, who received it very clearly, I could forward the journalist this recording, which you will most probably hear in the transmission. I don't have further information about transmitting date or an online link yet, but if I have them, you'll get them immediately. He only told me, that it's planned as a podcast episode and will eventually also be transmitted on Dutch TV, so more information will follow.

And now we come to X06, but before you'll read the usual logs, here comes some other information:

New groups

There are some new X06 groups from the past, which are added now. We know the last new group, G445, from EN147 : « 645321 », Ho Chi Minh City, on a 2nd Saturday. G446 is now « 542136 », Beijing, on a 2nd Monday, G447 the same scale/embassy, but on a 3rd Thursday, and G448 «436512", Harare, on a 3rd Saturday. These 3 groups were alerts 2 (the first one already in April 2012, the others in October 2019), which I discovered lately. G449 is also defined, and you'll find it in this report, which will now follow:

X06 Mazielka (1c) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20250502	Fri	1400	19432	1--6--	HFD	X06b before E07
20250506	Tue	0852	18523	325614	Dave/AU	TX to Nairobi, G392
20250506	Tue	1649-1700	17421	246531	RadiotekhnikaT	TX to Accra, G16(1)
20250507	Wed	0833-0846	14631	362154	Ary/NL, Dave	TX to Athens, G32
20250507	Wed	1110-1125	16115	215346	Ary, Dave	TX to Mumbai, G25
20250507	Wed	1533	14501	214356	Ary	TX to Amman, G24
20250512	Mon	0934-0937	19235	463125	Andrew/SE	TX to Rabat, G77
20250513	Tue	0753-0758	13420	534216	Dave	TX to Bagdad, G87
20250513	Tue	0804-0808	17523	542136	Dave	TX to Beijing, G88(2)
20250515	Thu	0655	6150	1---6-	Schorschi	X06b
20250516	Fri	1029	14824	625413	Ary	TX to Tel Aviv, G193
20250516	Fri	1319	17420	241563	Ary	Alert2 (TX to Karachi, G187) 1
20250516	Fri	1324	16320	241563	Ary	2.2
20250520	Tue	0825-0832	15687	154263	Ary, Andrew	TX to Rome, G148
20250520	Tue	0901-0904	16188	325614	Ary, Dave	TX to Nairobi, G400
20250521	Wed	1103-1109	16115	215346	Andrew, Ary	TX to Mumbai, G167
20250521	Wed	1222-1227	20374	231654	Andrew	TX to Abuja, G423
20250522	Thu	0816-0824	16153	153624	Dave	TX to Damascus, G249
20250523	Fri	0637-0643	11155	341265	Andrew	G444
20250523	Fri	0834-0842	12177	356412	Ary, Andrew	TX to Berlin, G271
20250523	Fri	0925-0926	17523	542136	Ary, Andrew	Alert1 (TX to Beijing, G449) 1
20250523	Fri	0928	17523	542136	Andrew	1.1: end time missing(3)
20250525	Sun	1040-1041	17430	145632	Andrew	TX to Algiers, G284
20250527	Tue	0814-0815	13420	534216	Dave	TX to Bagdad, G232
20250527	Tue	1152-1154	16317	612534	Dave	TX to Ashgabat, G234
20250528	Wed	0906-0907	13985	134265	Dave	TX to Tunis, G90
20250530	Fri	1156?	19649	6-----	Schorschi	X06d
20250603	Tue	0850-0856	16188	325614	Dave	Alert2 (TX to Nairobi, G392), 1
20250603	Tue	0858-0904	18523	325614	Dave	2.2
20250604	Wed	0651-0654	14405	256341	Dave	TX to Beirut, G311
20250604	Wed	0848-0857	14631	362154	Dave	TX to Athens, G32
20250605	Thu	0702-0703	19511	314265	Andrew	Alert2 (Antananarivo, G380) 1
20250605	Thu	0704	17517	314265	Andrew	2.2
20250605	Thu	0719-0725	13448	162543	Andrew	TX to Nikosia, G39
20250605	Thu	0805-0807	17534	351264	Andrew	TX to Abu Dhabi, G440
20250605	Thu	0918-0922	18197	645321	Andrew	TX to Ho Chi Minh City, G410
20250609	Mon	0826-0835	20690	156234	Dave	TX to Kampala, G68(4)
20250611	Wed	0742-0801	13369	412356	Dave	TX to Budapest, G97
20250618	Wed	0653-0656	14405	256341	Ary, Dave	TX to Beirut, G169
20250618	Wed	1117-1122	16115	215346	Ary, Dave	TX to Mumbai, G167
20250620	Fri	0827-0830	13954	213546	Andrew	TX to Islamabad, G390
20250623	Mon	0929-0936	16117	463125	Ary, Dave	TX to Rabat, G222(5)
20250624	Tue	0756-0757	13420	534216	Ary, Dave	TX to Bagdad, G232(6)
20250630	Mon	0638-0644	12100	654321	Ary	X06c
20250630	Mon	0820-1140	12100	123456	Ary, Dave	Very long X06c

- 1) Started right when MFSK-66 on 18435 kHz stopped
- 2) Splattering up and down the band
- 3) G449: new
- 4) Very faint on Twente SDR
- 5) On top of a DPRK signal which ceased soon after
- 6) Serdolik on same frequency, 0747/0755 UTC: M42

Many thanks to all contributors as usual. Good-bye till the next issue, and please stay healthy and safe, especially with these temperatures outside

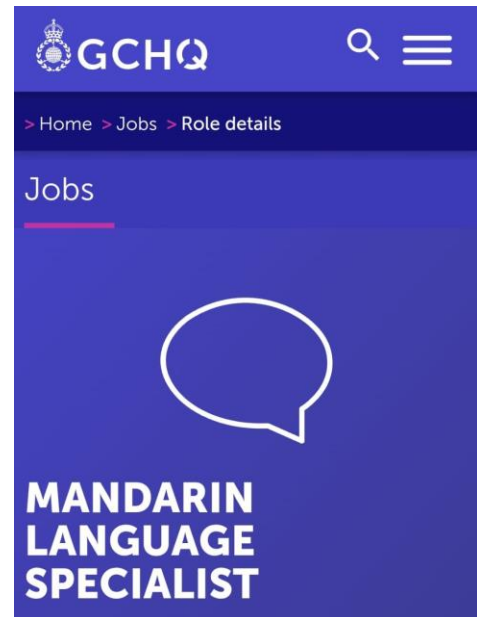
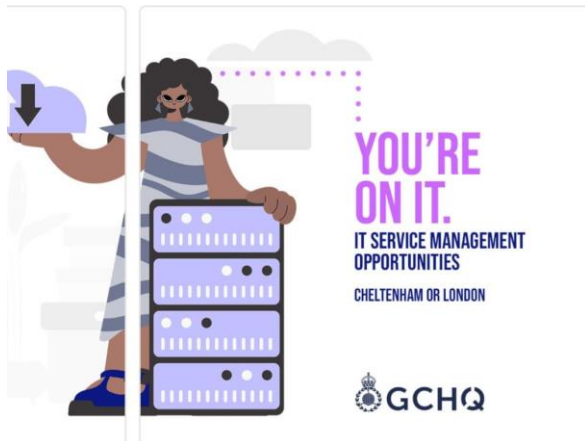
Jochen Schäfer, Numbers-, X06 Database and Teamkopf

F01

1A F01 [Tnx H-FD]

Tue 03.06.2025 1015Z 11487 FSK 200/500 7:03 via KiwiSDR RUS
Tue 03.06.2025 1025Z 9376 FSK 200/500 via KiwiSDR POL
Tue 03.06.2025 1035Z 7591 FSK 200/500 via KiwiSDR POL

GIZZA JOB



“I left the coach at Cardiff Bus Station to be met by 499.
“Keif Halak” says he’
“Taiyib, Inshallah” says I.
The bloke standing next to us suddenly gets stroppy! “
Taking the piss out of the Welsh Language are you, Matey?”
“No mate, speaking Yemeni Arabic. Don’t you?”
Mutters under his breath and buggers off!
Taken from Memorable moments in Cardiff
[499 & 613, and sober too]

Number Stations in a world turning upside down.

By José Martinez

My Thanksgiving giving turkey seems a world away and I am starting to feel that America and the planet have changed a bit! I would like to provide a few thoughts from across the pond in my capacity as a DXer, concerned American citizen, taxpayer and occasional number station monitor.

Along with my family, I have been feeling an enormous sense of dread lately. Our new regime is attempting to liquidate large numbers of personnel in defense, security and intelligence.

This purge seems to be regardless of rank, background and importance with no risk assessment apparently having been undertaken on these losses. In a world which is seeing the rules-based post-war international order demolished and numerous crucial problems piling up, high-quality, non-partisan intelligence is vital to help decision-makers get through what is certainly going to be a very difficult and dangerous time. That assumes of course that our leaders care, beyond the contents of their bank accounts! Intelligence will be vital to prevent another 9/11 or Pearl Harbor-type shocks and to act as a deterrent to authoritarian states who are working against liberal democracies.

That assumes we remain a liberal democracy! If we dilute this capability then our ability to prevent, or prevail in, a conflict is seriously diminished with appalling implications for us all. The democratic and free space is being squeezed as never before and I wonder if we too will end up as another authoritarian state isolated from traditional allies and dumping our values?

As a US citizen and occasional number station monitor, I feel that there are serious espionage/counter-intelligence issues here. For loyal American citizens to be fired from sensitive posts or invited/forced to quit so that the figures on a spreadsheet look good and tax cuts granted is thoughtless short-termism of the worst kind. If this is done to purge the system of people who are not deemed loyal to the monarch or to demonstrate contempt for the federal service then this is immoral and very dangerous. They may well be replaced by loyalists who got their jobs for partisan reasons. With thousands of federal probationers fired, this means no new blood is coming through and staff numbers are dwindling.

Having spent years trying to get their job and being security cleared, they are now in the bin. Despite being in for a short time, they will have acquired some sensitive knowledge and if they are furious over being binned, might sell it. China would know who they were from hacking activity and they can explain recruitment and vetting procedures to them to allow further penetrations of our government. With no job, their bills such as college loans, mortgages and supporting families will ensure that they are short of cash. Desperation leads to stupid decisions which could trash their life. Their treatment may cause loyalty to evaporate. However sensitive/crucial their job is or how good or experienced they are, people are simply being told that their work counts for nothing and they are no longer wanted.

This has appalling implications for our security and that of NATO and our shrinking group of allies. The Five Eyes system means data from five countries can be betrayed — not just our own!

The espionage threat is that many people who possess sensitive data accumulated over many years will find themselves in the trash can and may struggle to find suitable positions.

This has financial implications for them, particularly those with families and large outgoings. I wonder if some of these people may be so resentful that they may seek to sell their knowledge to an adversary; although it is unclear which states fall into this definition.

Numbers stations give some indication of how much espionage is underway and this is just what is detected on HF radio; most covert communications is likely on-line, leaving HF to senior citizens, hams and assets recruited in yesteryear. Those who are fired will likely put their CVs on social media and hostile intelligence services, who scan these sites, will know who they are, what they were and how to contact them.

If their employer has no loyalty to them, will they continue to have loyalty to the government or seek to take out their bitterness through betrayal? At best they might leak on the internet, at worst rat us out. US espionage history, as you know, is littered with resentful sell-outs who are motivated by bile and cash rather than ideological beliefs; remember Hanssen and Ames? People who do stay in sensitive positions may become bitter and seek to undermine their government and make extra tax-free cash. In the US, everything is money and money is everything!

As the FBI is likely to be purged, America's ability to protect itself from hostile espionage and investigate possible traitors using experienced CI staff will also be diluted. It seems that its focus will be on ordinary crime so Russia and China must be delighted by the current situation and the comedy show our government is becoming. Our government is doing their work for them and possibly causing more damage than those states could do with their own covert operations. At a time when Russia is seeking to get back at the West over the Ukraine war and China is mounting enormous cyber operations against us, this is not a time to be losing key staff and expertise. It is also not wise to generate a large pool of security risks who will be impossible to monitor when they depart with a diminished number of security staff. Remember Ed Lee Howard from the CIA in the 1980s?

The rules based international order is likely being replaced with a 19th century "might is right" system and it is unclear where this will end up. American standing in the world is likely to plummet and raises the question of who would want to work covertly for us if we are just another self-interested state whose values don't extend beyond our bank balances?

We are meant to be exceptional, not exceptionally stupid, but our self-image could be a fading dream. Traditional allies will likely be abandoned and this message will not be lost on autocrats around the world. The global policeman is abdicating our role and leaving a vacuum for others to fill. The free world has no champion or leader with our own leader seemingly benefiting Russia at every opportunity (some say that MAGA is Moscow's Agents Governing America). If we emerge from this nightmare and ever come to our senses, then we may not like the violent, unstable, anarchic world which has emerged and we may be unable to influence or change it. Many people will likely die, problems will be unresolved and the world will not be a good place for US trade and values or for any other free country.

This is not much of a deal from someone who claims to be a master of the art!

Whoever takes over from the "disruptor in chief" will have a lot of chaos to deal with; disappointed allies, a nation's trashed reputation, demoralised staff and diminished national stature. The economy will also likely be in a bad place.

Even before negotiations re: Ukraine started we gave away Ukrainian territory and rewarded aggression. This has denied Ukraine a path to NATO. Russia is also slowly returning to the top table despite the appalling events of the past three years. This can be seen as a Russian win with them losing nothing and some of the worst US diplomacy in history with key bargaining chips ludicrously thrown away. The Kremlin must be laughing its head off and consuming vodka and caviar by the bucket full. Do they have a hold over our President or just know how to make him feel like a Tsar? A seriously flawed man at the helm undermines the whole of US defense and intelligence and NATO because it shows that we are not the power we were and we do not support our own values or allies.

It makes Europe a more dangerous place and likely your defense spending and intelligence activity will have to increase as your economies suffer. Putin likely feels that Europe will struggle to adjust to this new reality and you are more concerned with economics, domestic politics and perhaps lack the guts to rise to the challenge. Some European states are also suspiciously accommodating with Russia for a variety of reasons. Having seized and held territory Moscow can re-arm, learn from the calamitous three years and be ready for the next land grab at an unknown time.

After the Ukraine invasion in 2022 numerous Russian "diplomats" were expelled from the US, Europe and elsewhere so it is likely that the SVR/GRU will have struggled to keep in touch with their assets and recruit new ones. Perhaps they have to rely more on illegals to recruit and run sources or recruit them on-line and use internet communication, phones or electronic devices for this?

Frontline states like the Baltic Republics, Finland and Poland will have to ramp up their defenses and intelligence activity to protect themselves. With attacks on undersea cables, arson, sabotage, killings and malign internet activity seen in Europe it is likely that elements in the Russian government think that they are in a hybrid war with the West so more espionage and subversion will likely be seen. It will likely be worse than the Cold War with us all living in a dark and dangerous time. This activity might be at a level short of war but there is always a danger that it could escalate if operations get out of hand — who controls them if they are not employed by Russia directly?

Covert activity is likely hard to detect, prevent and attribute. Will this lead to new types of clandestine activity on the short wave bands? Although many number stations have disappeared in recent years, HF is always useful if other high-tech communications methods are cut in a crisis or a war. It is simple and effective and offers anonymity in an increasingly wired world. Russian numbers stations in speech, polytone and CW could still be used for illegals and major recruited foreign sources to avoid meetings. On-line or phone communications could be used to control lower-level people who are criminals or saboteurs or tactical collectors and not seen as long-term assets perhaps?

HM01 from Cuba was loud here in the US but seems to have disappeared. The human assets are presumably still here; how does Havana communicate with them?

We face a sea of hysteria, propaganda and disinformation which all adds to a growing climate of fear as the economy goes south. In the US we can feel remote from events occurring in distant places but 9/11 showed that the world can come crashing in on top of us.

If good people leave our three letter agencies, will they be replaced by those who are partisan and just say what the leadership wishes to hear? Director NSA and his deputy were fired recently for no apparent reason so no doubt lower-level staffers will be scared. If new people come in, have their backgrounds been checked or have the checkers been fired too? Will truth be spoken to power and how will our allies see us? Our national security team is one of the poorest and most inexperienced in my lifetime; what happens in a crisis?

Their security breaches on social media do not fill me with confidence. How reliable an ally are we now? Many government probationers have been fired so who will replace the solid citizens who quit or are terminated and who would be willing to stay and remain motivated to work in a government they find objectionable?

If a foreign national was thinking of switching sides, would they do so if they saw our agencies under attack and treated with contempt? Would a disgruntled, fired member of staff with money problems seek to sell them and us out? Some data remains sensitive years after it is produced (remember Ronald Pelton at the NSA)?

How will corporate knowledge and memory be retained? Would we seek to build relations with Russia/China by rolling back on intelligence collection against them? Would we even tell them about operations; note US cyber activity is being reduced against Russia according to the press.

How would allies respond to us embracing our enemies (note at the UN we voted with Russia, China and North Korea not to condemn Russian aggression against Ukraine.) How would South Korea, Japan and Taiwan see our security guarantees and would they seek nuclear weapons to protect themselves? If Russia thinks we will not, will they attack beyond Ukraine and NATO falls apart? If we dump Ukraine, why should we help any foreign state and does NATO's Article 5 now have any meaning?

It is incredible how the world has changed since the last edition of ENIGMA 2000. If this is the turmoil after a few weeks, what will it be like after four years? We need to buckle ourselves in for a rollercoaster ride and stick close to our radios! Number station activity is likely to change and evolve reflecting the terrifying new international reality and offer a window on what is really happening behind the scenes. Intelligence is now more vital than ever in the most dangerous time since the end of the Cold War. There will always be those who switch sides and spy for a variety of reasons and they are simply a fact of intelligence life; get used to it! Numbers activity will evolve but will certainly continue - headphones on!

73.
Jose.



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HF/DF Unit [HuffDuff]

Chart Section Index

Predictions

M01 Schedule

Family III

Polytones, XPA1, XPA2

En149

July 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
x		x					0315		E11	03	18511 25#	18511 25#
x	x	x	x	x	x	x	0400		V13	0		search (15388?)
x	x	x	x	x			0400/0420		S06	01A	11616/ 9322 480	11616/ 9322 480
	x		x				0445		S11A	03	9968 79#	9968 79#
x	x	x	x	x	x	x	0455		HM01	18	10860	10860
x	x	x	x	x	x	x	0500		V13	0		11430
x	x						0500/0510/0520 0530/0540/0550		XPB1	01B	11169/11469/12169 13369/13969/14569 search	18451/18051/17451 16251/15851/14451
x	x	x	x	x			0500/0520		M14	01A	12211/10243 952	12211/10243 952
x		x					0510		S11A	03	16357 65#	16357 65#
	x			x			0530		M01A	14	9441 751	9441 751
		x	x				0530		M01A	14	9129 or 9192 498	9129 or 9192 498
		x	x				0540		M01A	14	7692 536	7692 536
x	x	x	x	x	x	x	0555		HM01	18	10345	10345
x		x					0600		E11	03	21906 94#	21906 94#
				x		x	0600		E11	03	9150 35#	9150 35#
x	x	x	x	x	x	x	0600		V13	0		11430
		x			x		0600/0620/0640		M12	01B	10371/11471/12171 341	10429/11429/12129 441
	x			x			0620		M01A	14	10233 or 10235 354/458	10233 or 10235 354/458
		x	x				0620		M01A	14	9421 135	9421 135
	x			x			0630		M01A	14	9447 143/796	9447 143/796
		x	x				0630		M01A	14	8111 902/536	8111 902/536
x		x					0645		E11	03	10508 41#	10508 41#
	x		x				0645		E11	03	11092 51#	11092 51#
x	x	x	x	x	x	x	0655		HM01	18	13435	13435
x			x				0700		S11A	03	9339 47#	9339 47#
	x			x			0700		E11	03	8680 57#	8680 57#
					x	x	0700		E11	03	7377 49#	7377 49#
x	x	x	x	x	x	x	0700		V13	0		18040
						x	0700		M01	01B	6780 025	6780 025
x		x					0700/0720/0740		XPA2	01B	12148/13448/13948	12152/13552/13952
						x	0700/0720/0740		V07	01B	13978/13378/12178 931	13408/12208/11508 425

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
	x			x			0710		M01A	14	10651 297/358	10651 297/358
		x	x				0710		M01A	14	9175 146/208	9175 146/208
x		x					0715		E11	03	15915 75#	15915 75#
	x			x			0715		E11	03	12530 63#	12530 63#
					x	x	0715		M01	14	9736 475	9736 475
			x	x			0720		E11	03	7984 43#	7984 43#
	x			x			0720		M01A	14	9151 728	9151 728
		x		x			0725		S11A	03	18773 38#	18773 38#
x							0745		E11	03	9610 26#	9610 26#
	x		x				0745		E11	03	20640 22#	20640 22#
		x		x			0745		E11	03	15720 34#	15720 34#
x	x	x	x	x	x	x	0800		V13	0		18040
x				x			0800/0820/0840		M12	01B	search x 0210 15881/ 14781/13481 874	search x 0210 12163/ 11163/10463 114
	x	x					0820		E11	03	17378 13#	17378 13#
x				x			0830		E11	03	16335 18#	16335 18#
					x	x	0830		S11A	03	5149 37#	5149 37#
x		x					0845		E11	03	12815 71#	12815 71#
	x		x				0845		E11	03	19184 15#	19184 15#
x		x					0900		E11	03	11116 53#	11116 53#
			x		x		0900/0920/0940		XPA2	01B	x13445/12145/ 11545 search	x14372/13372/ 12172 search
x		x					0910/0930/0950		XPA2	01B	x16296/14981/ 13953 search	x18059/16093/ 14874 search
x				x			0915		S11A	03	6814 48#	6814 48#
		x	x				0930		E11	03	6923 27#	6923 27#
x	x	x	x	x	x	x	0930		M14	01A	16347 10.&25. 14878 11.&26. when msg	16347 10.&25. 14878 11.&26. when msg
	x			x			1000		E11	03	12153 30#	12153 30#
x	x	x	x	x			1015/1025/1035		F01	01A	11141/ 9192/ 7363	11076/ 9164/ 7316
			x		x		1000/1020/1040		E07	01B	search x 1410z 13562/ 14862/16162 441	search x 1410z 13519/ 14819/15919 288

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
x		x					1045		E11	03	10210 69#	10210 69#
		x			x		1100/1110/1110 1130/1140/1150		XPB1	01B	13884/13384/12384 11584/11084/10584	13567/13367/12367 11567/11067/10567
	x						1100/1120/1140		M12	01B	11519/12194/13407 289	11519/12194/13407 289
	x			x			1100/1120/1140		XPA2	01B	14958/13958/12158	13887/12187/10387
		x	x				1100/1120/1140		XPA2	01B	17435/16235/14935	16264/15864/14864
x	x	x	x	x	x	x	1200		V13	0	9276/13974	9276/13974/15890
	x	x					1205		E11	03	8274 46#	8274 46#
		x		x			1210/1230/1250		XPA1	01B	13368/12168/11168	13491/12191/10691
x							1230/1250/1310		M12	01B	13386/12189/11491 725	13386/12189/11491 725
x			x				1300		E11	03	5737 31#	5737 31#
x	x	x	x	x	x	x	1300		V13	0	7688/11430	7688,11430
	x			x			1300/1310/1310 1330/1340/1350		XPB1	01B	20024/19224/18324 17424/16324/15824	20064/19364/18464 17464/16264/15864
	x			x			1400		S11A	03	9448 42#	9448 42#
	x				x		1430		E11	03	12984 91#	12984 91#
					x		1500		M01	14	6435 025	6435 025
	x			x			1500/1520/1540		E07	01B	16232/18332/19132 231	17453/18353/19253 432
					x		1500/1520/1540		XPA2	01B	13954/12154/11454	13825/12125/11025
			x				1530		E11	03	10356 26#	10356 26#
	x		x				1600/1620/1640		XPA2	01B	13538/14438/14938 check, 1700z?	14864/14364/13464 check, 1700z?
	x					x	1605		E11	03	5231 23#	5231 23#
		x			x		1610		E11	03	4783 39#	4783 39#
	x		x				1645		E11	03	14575 33#	14575 33#
					x	x	1645		E11	03	5082 36#	5082 36#
	x		x				1700/1720/1740		XPA2	01B	search	search
		x		x			1715		E11	03	7863 97#	7863 97#
x						x	1745		E11	03	14410 24#	14410 24#
	x		x				1800		M01	14	5280 025	5280 025
		x		x			1800/1820/1840		XPA2	01B	17474/16274/14574	15884/14684/13484
			x				1800/1820/1840		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jul kHz, ID, ...	Aug kHz, ID, ...
				x		x	1815		E11	03	12229 92#	12229 92#
		x			x		1850		S11A	03	12457 28#	12457 28#
x			x				1900		E11	03	7600 64#	7600 64#
		x					1900/1920/1940		M12	01B	12162/11566/10711 546	12162/11566/10711 546
		x		x			1900/1920/1940		M12	01B	14968/14468/13368 943	15931/14831/13531 985
				x			1900/2000	1/3	S06	01A		x11149/x9205 842
				x		x	1910		E11	03	9610 61#	9610 61#
			x			x	2000		E11	03	5409 52#	5409 52#

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC

M01/1

197

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

MAR APRIL SEPT OCT

M01/2

463

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

MAY JUNE JULY AUG

M01/3

025

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

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	May kHz, ID, ...	Jun kHz, ID, ...	Jul kHz, ID, ...	Aug kHz, ID, ...	Remarks
x		x					0315		E11	03	18511 25#	18511 25#	18511 25#	18511 25#	since 01/14, last log 06/25
	x		x				0445		S11A	03	9968 79#	9968 79#	9968 79#	9968 79#	since 05/22, last log 06/25
	x		x				0505		E11	03					since 10/11, last log 02/25 Mar/Apr/Sep/Oct at 1230z, Mai-Aug at 1645z
x	x						0510		S11A	03	16357 65#	16357 65#	16357 65#	16357 65#	since 08/19, last log 06/25
x		x					0600		E11	03	21906 94#	21906 94#	21906 94#	21906 94#	since 07/17, last log 06/25
			x		x		0600		E11	03	9150 35#	9150 35#	9150 35#	9150 35#	since 04/15, last log 06/25
x	x						0645		E11	03	10508 41#	10508 41#	10508 41#	10508 41#	since 02/10, last log 06/25
	x	x					0645		E11	03	11092 51#	11092 51#	11092 51#	11092 51#	since 07/09, last log 06/25
x		x					0700		S11A	03	9339 47#	9339 47#	9339 47#	9339 47#	since 04/10, last log 06/25
	x		x				0700		E11	03	8680 57#	8680 57#	8680 57#	8680 57#	since 01/12, last log 06/25
				x	x		0700		E11	03	7377 49#	7377 49#	7377 49#	7377 49#	since 07/15, last log 06/25
x	x						0715		E11	03	15915 75#	15915 75#	15915 75#	15915 75#	since 06/21, last log 06/25
	x		x				0715		E11	03	12530 63#	12530 63#	12530 63#	12530 63#	since 02/11, last log 06/25
		x	x				0720		E11	03	7984 43#	7984 43#	7984 43#	7984 43#	since 10/09, last log 06/25
		x	x				0725		S11A	03	18773 38#	18773 38#	18773 38#	18773 38#	since 05/14, last log 06/25
x							0745		E11	03	9610 26#	9610 26#	9610 26#	9610 26#	since 03/14, last log 06/25 2nd transmission Thu 1530z
	x	x					0745		E11	03	14940>20640 22#	20640 22#	20640 22#	20640 22#	since 01/20, last log 06/25
		x	x				0745		E11	03	15720 34#	15720 34#	15720 34#	15720 34#	since 06/17, last log 06/25
	x	x					0820		E11	03	17378 13#	17378 13#	17378 13#	17378 13#	since 12/18, last log 06/25
x			x				0830		E11	03	16335 18#	16335 18#	16335 18#	16335 18#	since 07/15, last log 06/25
				x	x		0830		S11A	03	5149 37#	5149 37#	5149 37#	5149 37#	since 02/14, last log 06/25
x		x					0845		E11	03	12815 71#	12815 71#	12815 71#	12815 71#	since 09/10, last log 06/25
	x	x					0845		E11	03	19184 15#	19184 15#	19184 15#	19184 15#	since 07/17, last log 06/25
x	x						0900		E11	03	11116 53#	11116 53#	11116 53#	11116 53#	since 10/05, last log 06/25
x			x				0915		S11A	03	6814 48#	6814 48#	6814 48#	6814 48#	since 04/19, last log 06/25
		x	x				0930		E11	03	6923 27#	6923 27#	6923 27#	6923 27#	since 02/14, last log 06/25
	x		x				1000		E11	03	12153 30#	12153 30#	12153 30#	12153 30#	since 11/16, last log 06/25
x	x						1045		E11	03	10210 69#	10210 69#	10210 69#	10210 69#	since 03/18, last log 06/25
	x	x					1205		E11	03	8274 46#	8274 46#	8274 46#	8274 46#	since 03/10, last log 06/25
	x	x					1230		E11	03					since 10/11, last log 10/24 May-Aug at 1645z, Nov-Feb at 0505z
x		x					1300		E11	03	5737 31#	5737 31#	5737 31#	5737 31#	since 07/14, last log 06/25
	x		x				1400		S11A	03	9448 42#	9448 42#	9448 42#	9448 42#	since 02/10, last log 06/25
	x			x			1430		E11	03	12984 91#	12984 91#	12984 91#	12984 91#	since 10/15, last log 06/25
		x					1530		E11	03	10356 26#	10356 26#	10356 26#	10356 26#	since 06/14, last log 06/25 2nd transmission Mon 0745z
	x				x		1605		E11	03	5231 23#	5231 23#	5231 23#	5231 23#	since 11/15, last log 06/25
		x		x			1610		E11	03	4783 39#	4783 39#	4783 39#	4783 39#	since 02/14, last log 06/25
	x	x					1645		E11	03	14575 33#	14575 33#	14575 33#	14575 33#	since 10/11, last log 06/25 Mar/Apr/Sep/Oct at 1230z, Nov-Feb at 0505z
				x	x		1645		E11	03	5082 36#	5082 36#	5082 36#	5082 36#	since 03/14, last log 06/25
		x	x				1715		E11	03	7863 97#	7863 97#	7863 97#	7863 97#	since 02/15, last log 06/25
x					x		1745		E11	03	14410 24#	14410 24#	14410 24#	14410 24#	since 04/18, last log 06/25
			x		x		1815		E11	03	12229 92#	12229 92#	12229 92#	12229 92#	since 05/16, last log 06/25
		x		x			1850		S11A	03	12457 28#	12457 28#	12457 28#	12457 28#	since 06/17, last log 06/25
x		x					1900		E11	03	7600 64#	7600 64#	7600 64#	7600 64#	since 05/16, last log 06/25
			x		x		1910		E11	03	9610 61#	9610 61#	9610 61#	9610 61#	since 04/17, last log 06/25
		x			x		2000		E11	03	5409 52#	5409 52#	5409 52#	5409 52#	since 05/15, last log 06/25

XPA1 Wednesday/Friday schedule

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

XPA2 p Schedule [Mon/Wed]

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

SPECIAL MATTERS

Thanks to all our contributors:

AB, BR, DanAR, dMHz, E, Gert, HFD, JPL, PLdn, PoSW, RNGB,

Apologies to any missed



MESSAGES:

E: Many tnx your input; hope all goes well.

RELEVANT WEBSITES

ENIGMA 2000 Website:

<http://www.enigma2000.org>

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/>

2025

January S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	March S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
April S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	May S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	June S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
July S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	August S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	September S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
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