

# ENIGMA 2000 NEWSLETTER



<http://www.enigma2000.org>



## Iranian Embassy, Abu Dhabi

©Remains with the submitting member and their contact, to whom we are indebted.

*This Issue featuring a special article on matters surrounding Cuba*

*and Ms Marta Rita Velazquez in particular, see page 43*

ISSUE 144

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<http://www.enigma2000.org>

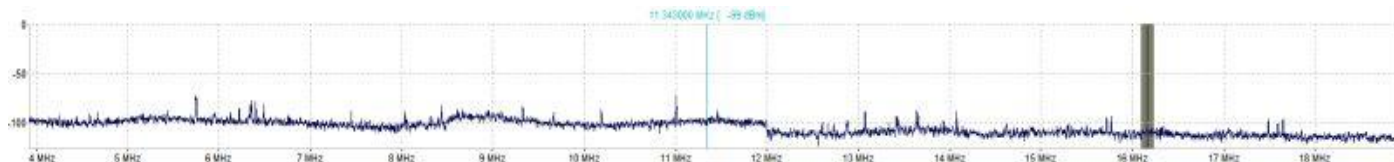
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See last page also.

**REMINDER: IN KEEPING WITH OUR ANNOUNCEMENT IN OUR RECENT NEWSLETTERS ENIGMA2000 WILL NOT DISCUSS THE RUSSIAN/UKRAINE or ISRAEL/GAZA MATTERS BEYOND TECHNICAL MATTERS**

**WE WILL NOT BE ANSWERING E MAILS SENT FROM THE PARTICIPATING COUNTRIES CONCERNING OUR SUBJECT MATTER**

## Editorial

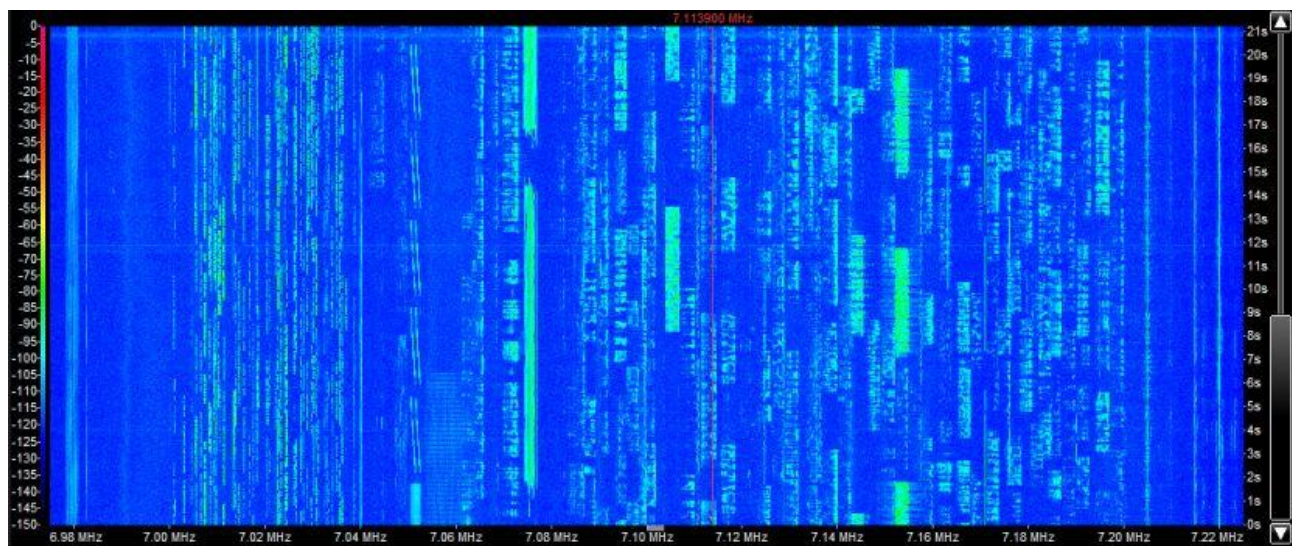
HF Conditions have been variable to say the least. There have been predictions of poor propagation along with the opposite. It seems anything above 20M has been game, certainly during daytime.



Spectral image 0843z 19072024

The spectral image above certainly illustrates the change from night to day, 4000 to 18000kHz, and there have been some excellent moments for DX chasers.

Below we see 40M activity a week later 2055z, not bad indeed, but my Bletchley Park net has seen much variable propagation.



40m 2055z 27072024

Looking at the Number Scene again results are variable as seen across the posted logs, What has been noticed from my own interest in the Polytones is the number of Null Messages being sent after many tries, it seems, to be delivering the same message unsuccessfully.

The Tuesday/Friday schedule I term as a Trial [The trial is for me to see if it's a viable station to intercept using radio] seems to have disappeared for now. I'm sure there are a couple of members who could put me right if they cared to.

### **MEMBERSHIP.**

We currently have 44 members and once again I note that of our members a majority only take and do not contribute one iota. As it's well known we like contributions of News items, Books you have read and, of course, logs. But, for some members it seems difficult to do that once a month or even just a few times a year.

The crux of this is that having to suffer a rise in costs for hosting the Group, met from my own pocket, I see no reason to keep non-contributors on the membership list.

We have had past members who have set themselves up nicely using logs from ENIGMA2000 and other material, some with permission, but at least two without; the best was the continuing excuse of personal business preventing posting when we were being 'buggered' wholesale.

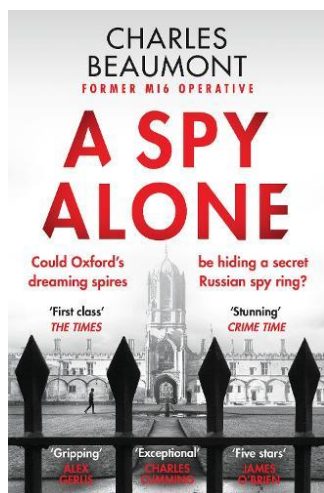
I have compiled a list of those who do not contribute, or have not done anything for the interest of ENIGMA2000 over the last year, emailing them 19<sup>th</sup> August 2024 warning them they will be removed on, or by 20<sup>th</sup> November, 2024. They have that time to make their case to retain membership, start posting, or wait for the chopper to be wielded.

Those of you who have not received the email are not going to be removed and although you have not posted you have supported us, and continue to do so, in a variety of ways.

Sorry this has to happen but I have been harping on about this for a long time so the warning has been out for some time.



# Recommended Reading



## **FICTION: A Spy Alone by Charles Beaumont**

Apparently, the author is a former MI6 operative. [Officer or Agent, it's a wide divide]?

The story line rotates about Simon Sharmer a failed MI6 officer who ekes out a living in the shady private intelligence world. Tasked with looking into a certain Oxford Academic Sharman begins to suspect the existence of an Oxford Spy Ring. He sets out to provev.

The story unfolds in great detail, with an emphasis on methods and of course, some tradecraft.

There's messages being passed [the suggestion of the Russian DKM-S unit is good, but flawed in its described use] Read more on the DKM-S unit here: <https://www.cryptomuseum.com/burst/dkms/index.htm>

I wouldn't say the action is nail biting but it's a must read once started – the story line is good although, in my opinion, the descriptive writing a little too in depth. That said, I'm glad I read it.

A Spy Alone also has mention of current events, which in this storyline is good.

# Newsround

## Australia

### **Brisbane couple charged with spying for Russia in alleged attempt to access defence secrets**

### **A 40-year-old woman on long-term leave from the Australian defence force and her 62-year-old husband were charged with preparing for an espionage offence, federal police said**

Amy Remeikis  
Fri 12 Jul 2024 01.03 BST

<https://www.theguardian.com/australia-news/article/2024/jul/12/brisbane-couple-charged-with-spying-for-russia-in-alleged-attempt-to-access-defence-secrets?s=08>

A Brisbane couple with Russian passports have become the first people to be charged under new espionage laws after a joint investigation between Australia's spy and security agencies.

AFP commissioner Reece Kershaw said a 40-year-old woman on long-term leave from the Australian defence force and her 62-year-old husband were charged with one count each of preparing for an espionage offence, which could lead to up to 15 years in prison.

Defence raised concerns leading to Operation Bergazada, which culminated with a knock on the door of the couple's Everton Park residential home in Brisbane.

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Kershaw alleged the pair "worked together to access Australian Defence Force material that related to Australia's national security interests".

"We allege the woman was undertaking non-declared travel to Russia, whilst she was on long term leave from the Australian Defence Force," Kershaw said.

"We allege that whilst she was in Russia, she instructed her husband, who remained in Australia, on how to log into her official work account from their Brisbane home. We allege her husband would access requested material and would send to his wife in Russia.

"We allege they sought that information with the intention of providing it to Russian authorities. Whether that information was handed over remains a key focus of our investigation."

Kershaw said "no significant compromise has been identified" and Australia's Five Eyes security partners had been made aware of the investigation. Australia's spy bosses had not ruled out further charges or that others may be involved.

Asio head Mike Burgess said he would not be commenting on the details of the investigation but issued an invitation for Russian spies to "reach out" to his agency.

"I want to speak directly to the operatives of Russian intelligence services," he said at a Canberra press conference on Friday.

"This year marks the 70th anniversary of the Petrov defections. Two Russian spies gave ASIO and our closest allies the name of Russian assets in western countries. If you want to share your secrets, please reach out. ASIO is always listening."

Burgess said the threat to Australia's security "was real" and allegations were always treated seriously.

"Multiple countries are seeking to steal Australia's secrets," he said.

"We cannot be naive and we cannot be complacent. Espionage is not some quaint notion, espionage damages our economy and degrades our strategic advantage. It has catastrophic real world consequences.

"Foreign intelligence services are capable, determined and patient. They play the long game. The problem for them is ASIO does too."

<https://www.theguardian.com/australia-news/article/2024/jul/12/brisbane-couple-charged-with-spying-for-russia-in-alleged-attempt-to-access-defence-secrets?s=08>

## Inside Vladimir Putin's 'paranoid' spying network, with tentacles extending around the world

By Riley Stuart in London

Posted Sat 13 Jul 2024 at 8:26pm Saturday 13 Jul 2024 at 8:26pm

[https://www.abc.net.au/news/2024-07-14/russian-spy-allegations-in-australia-put-spotlight-on-espionage/104093308?utm\\_source=abc\\_news\\_web&utm\\_medium=content\\_shared&utm\\_campaign=abc\\_news\\_web](https://www.abc.net.au/news/2024-07-14/russian-spy-allegations-in-australia-put-spotlight-on-espionage/104093308?utm_source=abc_news_web&utm_medium=content_shared&utm_campaign=abc_news_web)

Russian-born Australian citizens Kira and Igor Korolev were arrested at their Brisbane home this week. (Supplied)

It seems Russia's tentacles extend around the world.

The UK has made multiple arrests this year alone, accusing people of spying for Moscow while Ireland stopped issuing diplomatic visas to Russians amid concerns Vladimir Putin's embassy in Dublin had become a hotbed of intelligence operatives posing as attachés.

In Brazil, there's an investigation underway about how alleged Kremlin snitches have been able to lead double lives and use the country as a springboard to infiltrate other nations.

But as Australians found out this week, when allegations of Russian spying surface in 2024 they appear less like James Bond, and more akin to suburban Brisbane.

On Friday, the AFP arrested two Russian-born Australian citizens at their Everton Park home, in the Queensland capital's north, and charged the couple with preparing an espionage offence.

Kira Korolev, 40, and her 62-year-old husband Igor are accused of working together to obtain sensitive information regarding national security interests.

Neither has entered a plea. The offences carry a maximum jail term of 15 years.

Andrei Soldatov, an exiled Russian investigative journalist living in the UK and an expert in Kremlin's intelligence agencies, says Mr Putin's invasion of Ukraine had forced the regime to look at other options.

"After [the invasion in] 2022, Russian agencies saw massive expulsions of diplomats. Many of these diplomats were actually spies," he says.

"So, Russian agencies needed to find some way to make up for these expulsions and now, they're relying more and more, on foreign nationals."

Russia has three main intelligence services: the FSB, which is largely responsible for domestic intelligence, the SVR, which is concerned with foreign undercover work, and the GRU, which handles military intelligence.

Mr Soldatov says Russia's agencies have a different objective to those in Western countries.

"For Western intelligence agencies, the main goal is to collect intelligence, but for countries like Russia the main goal is to protect political stability in the country, and protect the political regime," he says.

"It's more about spying on and trying to identify countries that might have some plans to undermine political stability in Russia. So it's a bit more paranoid."

The AFP has accused Ms Korolev, who works for the Australian Defence Force, of secretly travelling to Russia, where she allegedly instructed her husband on how to log into her work account and access material to send to her.

The couple had been living in Australia for more than a decade before the alleged offending.

'Routine' for Russia to 'threaten families'

Australia is not the only country making accusations about alleged Russian spies.

British authorities arrested six Bulgarians earlier this year in various locations around the UK, who will go on trial in October accused of spying for Russia.

In Austria, the March arrest of a 61-year-old man accused of selling classified information to Russia revived fears the country had become the most compromised in the European Union.

Brazilian authorities are probing how Russian operatives may have infiltrated the country using forged documents, before using their new identities to travel the world.

The list goes on.

Jenny Mathers, a senior lecturer in international politics at Aberystwyth University, in Wales, says there are no limits to what Moscow's regime will do to get information.

"The Russian state will use any means that it can to get results," she says.

"This is not a state, or an intelligence agency, which has a particular interest in adhering to any ethical dimensions as they carry out their operations."

Anthony Albanese praises efforts of security agencies on espionage charges

Dr Mathers says officials from the country's three main intelligence organisations "keep tabs" on Russians abroad.

"They are always under the eye of Russian authorities, but perhaps more importantly they'll likely have family and other ties back in Russia who can be used as leverage," she says.

"It's routine for Russia's regime to threaten family members of these types of people and say things like, 'If you don't come back to Russia and do these things for us, then your mother might be at risk, or there might be some problems that your family members face.'

"Or, they can use leverage like something unpleasant in a person's background to threaten them with."

Keir Giles, a Russia expert at London-based international affairs think tank Chatham House, says Australia was not immune to Russian intelligence gathering.

"Distance doesn't lend protection," he says. "There's been a comforting illusion that the further away you are from Moscow, the safer you are."

"That's led countries in the far west of Europe like Spain, Portugal, even Italy and France to neglect their defence spending because they think they're not a target."

"However, the ways of sabotage, attacks and attempted assassinations across Europe recently has shown that Russia has other means of reaching out that are not dependent on geography and countries that are much further afield are a target as well."

[https://www.abc.net.au/news/2024-07-14/russian-spy-allegations-in-australia-put-spotlight-on-espionage/104093308?utm\\_source=abc\\_news\\_web&utm\\_medium=content\\_shared&utm\\_campaign=abc\\_news\\_web](https://www.abc.net.au/news/2024-07-14/russian-spy-allegations-in-australia-put-spotlight-on-espionage/104093308?utm_source=abc_news_web&utm_medium=content_shared&utm_campaign=abc_news_web)

## CHINA

### China's MSS unveils overseas spy gadgets disguised as USB flash drives, pens

By Global Times

Published: Aug 15, 2024 11:59 AM

<https://www.globaltimes.cn/page/202408/1318083.shtml>

China's Ministry of State Security (MSS) on Thursday disclosed a case in which a device resembling a USB flash drive turned out to be a covert eavesdropping device, reminding the public to be cautious of seemingly inconspicuous devices. Once they are used for espionage activities, they become specialized espionage equipment, posing a threat to the national security.

For example, a pen with a hidden camera could be used by spies to secretly photograph sensitive documents. Miniature drones that resemble insects can be used for information gathering with their tiny capture devices. These covert tools highlight the potential dangers of seemingly harmless objects in our surroundings, according to the ministry.

A Chinese business delegation participating in a development project bid overseas discovered a listening device disguised as a USB flash drive in a box of napkins delivered to their private dining room. They immediately reported it to the Chinese Embassy in the country.

The device was brought back to China, and after identification by national security authorities, it was confirmed that the device had two miniature microphones, a lithium battery, a hidden micro button for operation control and digital encryption recording capabilities, said the ministry.

Detailed rules for the implementation of the Counter-Espionage Law stipulate that "specialized espionage equipment" refers to equipment such as covert eavesdropping and surveillance equipment, and electronic monitoring and interception equipment used to obtain intelligence. National security authorities are responsible for the confirmation of specialized espionage equipment.

According to China's Counter-Espionage Law, no individual or organization shall illegally produce, sell, possess, or use specialized spy equipment for espionage activities. Specialized espionage equipment shall be confirmed by the national security authorities in accordance with regulations.

Global Times

<https://www.globaltimes.cn/page/202408/1318083.shtml>

## Great Britain

### UK intelligence warns Starmer of five major security threats that 'cannot wait' BIG READ Intelligence sources set out the challenges Starmer will face on national security

By Richard Holmes

Senior Reporter

July 6, 2024 12:00 pm

[https://inews.co.uk/news/uk-intelligence-warning-starmer-major-security-threats-election-3152924?ito=whatsapp\\_share\\_article-top](https://inews.co.uk/news/uk-intelligence-warning-starmer-major-security-threats-election-3152924?ito=whatsapp_share_article-top)

Sir Keir Starmer's new Labour Government will take shape within an increasingly hostile world. Russia's full-scale invasion of Ukraine rages on, an emboldened Iran may be reaching nuclear capability, and China continues to threaten a full-scale invasion of Taiwan.

Add to that the conflict in Gaza, and a series of elections across the US and Europe, which could lead to victories for leaders critical of Nato. The UK's newest Prime Minister will have a lot to get across in his first week in the job.

Shortly before calling the election, the Labour leader's predecessor, Rishi Sunak, said the UK "stands at a crossroads" ahead of "some of the most dangerous years".

Already this year, Britain's critical national infrastructure has come under attack from Kremlin-protected hackers, suspected Chinese spies have allegedly infiltrated parliament, and the war in Gaza has sparked widespread protests throughout the country.

With their feet firmly under the desk, Sir Keir's Cabinet has pledged to get to work to produce a fresh Security and Defence Review, the third in less than four years.

But intelligence sources say there are "threats and challenges are out there which cannot wait," and they have urged Starmer to "hit the ground running" as he takes up his premiership.

i has spoken with 10 British and American intelligence sources on condition of anonymity to understand the big security challenges facing the incoming prime minister.

'A completely different era of global instability'

Despite much of the election campaign focusing on domestic issues, the most "obvious" and "pressing" issues for the Government lurk on the global stage, according to intelligence sources.

"We are in a completely different era of global instability," a UK source told i. "Starmer will need to quickly assert himself as a statesman, ready to make moves on the world's chess board."

The new Prime Minister will get the opportunity to do so just four days after taking power. He will travel to Washington for the 75th anniversary Nato summit, where he will stand alongside international allies facing impending election insecurity.

Sir Keir becomes PM at a time of "international security" with upcoming elections in the US and Europe, a US source told i.

Far-right parties made gains in the European Parliament in June and France is holding a run-off election where the far-right, anti-immigrant National Rally could come to power in a wind of populism sweeping across the West.

Later this year, a second Trump presidency threatens to destabilise Nato and the UK's relationship with its closest ally.

Starmer and his Government will need to use their strong domestic position to reassert the the country's commitment to Nato, the Australia, UK and US (Aukus) agreement, the US special relationship, and continued support for Ukraine, seven of the sources told i.

"There is a real fear that potential incoming governments in the US and across Europe will look to detach themselves from vital global unions on defence," a UK source told i. "The incoming Government have a head start to commit full support to these organisations and ensure they are maintained."

A Romanian Patriot missile is fired on the banks of the Black Sea towards Russia in a Nato drill

The new prime minister will face major foreign policy challenges throughout the world, all with the potential to create new and emerging threats on UK soil and as the heads of state of our closest allies may change drastically.

"Keeping the international momentum supporting Ukraine will be huge," a UK source told i. "Helping contain the Middle East and keeping a lid on China's expansionism will also be a challenge."

Russia

On Russia, Sir Keir's Government is expected to continue its ongoing support for Ukraine. Across the board, sources said this was an "undeniable priority".

Under him, Labour pledged to continue to hold Russia to account for the war, backing calls for a Special Tribunal for the Crime of Aggression and helping provide Ukraine with a clear path to Nato membership.

A special tribunal would investigate Russia's act of aggression on Ukraine where the International Criminal Court cannot, heaping further pressure on Russia and Vladimir Putin. The United Nations defines an act of aggression as the "invasion or attack by the Armed Forces of a state on the territory of another state, or any military occupation".

But as the UK stands firm with Ukraine, intelligence sources warn that Russia will look to continue direct attacks on British soil.

Three UK sources warned that "hybrid" warfare stemming from Russia will increase over the next six months.

In June, the UK witnessed a catastrophic cyber attack on the National Health Service (NHS) causing thousands of appointments and operations to be cancelled.

i previously revealed that the attack was the work of a Kremlin-protected group of cyber hackers in what has been seen as a "major escalation" of cyber warfare tactics by the Kremlin.

A UK source told i that cyber attacks on the UK are expected to "hit new levels". Another warned of "further chaos, further disruption, and further harm" if the UK does not work swiftly to become more resilient against cyber warfare.

A further UK intelligence source told i "the UK just isn't ready" for large-scale cyber attacks, warning that the recent hack of the NHS systems was "just a taster".

"Departments are not co-ordinated and we have no central department other than the Cabinet Office which isn't equipped to lead and manage," the source said. "The UK doesn't have the assets or the skills to defend against them."

In its manifesto, Labour recognised the need for investment in its cyber defence and referred to concerns about a "growing emergence of hybrid warfare, including cyber-attacks". How that will materialise is not yet known.

Another threat posed by Russian president Vladimir Putin, a UK source claimed, is his ambition to find and eliminate traitors living in the UK.

The concern among UK intelligence is that Putin "does not care about collateral damage" and could order further attacks like the assassination campaigns on Alexander Litvinenko and Sergei Skripal.

“We’re heading for a very unstable period of national security,” a UK source told i.

#### China

The complex threat Beijing poses to the UK and the wider world is a knotty issue for Labour. Their 136-page manifesto mentioned China just twice and the intelligence community hopes Sir Keir will tackle the issue head on.

“The Government must work to craft an effective programme of confronting China across all strands of its activity, both being carried out on our homeland and abroad,” a UK source told i.

Labour’s manifesto has promised to perform an “audit” of the UK’s relationship with China within 100 days of taking office.

A US intelligence source said the Government has a “difficult balancing act” to strike, relying on the economic stability offered by trade with China but being poised and ready to react to any advancements by Beijing on Taiwan.

China has increased hostile activity in the South China Sea and US intelligence predicts China will make a military advancement on Taiwan before 2027. Three UK sources questioned whether the new Government has an “effective contingency plan” should China escalate tensions in the region.

Closer to home, alleged Chinese spies have infiltrated parliament, harassed Hong Kong nationals living in the UK, and bugged Government vehicles. Despite the threats posed, the former government was in turmoil over the threat posed by Beijing, referring instead to the “epoch defining challenge” posed by China.

Towards the end of their time in Government, the Conservatives formally accused China of “malicious” cyber campaigns against MPs and the electoral commission. Then Deputy PM Oliver Dowden said they were behind attempts to access details of MPs critical of Beijing, as well as the data of potentially 40 million voters, adding that the Chinese ambassador had been called in to be held “to account for China’s conduct in these incidents”.

During their time in Government, the Tories were reluctant to categorise China as a hostile state and apply extra scrutiny to political influencers from the country using enhanced terms of the Foreign Influence Register Scheme (FIRS).

Journalists, diplomats and lawyers are among exempt groups who will not have to register from most countries, but an enhanced tier removing such exemptions will be assigned to countries who are deemed to pose a greater risk to the UK, such as Russia and Iran.

Labour has not set its position on China and it is clear whether Starmer’s government will define China as a threat is unclear.

#### Iran

Seen among intelligence sources as the “rogue and unpredictable hand” of the axis of authoritarian states, Iran has quickly emerged as a significant threat to UK security.

Along with supplying weapons to Russia for use in its invasion of Ukraine, Iran has attacked US bases in the Middle East, attempted assassinations on UK soil, and helped fuel Russia’s invasion of Ukraine.

Chief among concerns, according to two UK sources, is Iran’s slow march towards nuclear weapon capability.

“There is an Iran that is reaching nuclear threshold capability,” a UK source told i. “Who is doing anything about this?”

In recent months, Iran have taken steps to further increase its enriched uranium stockpile, which already significantly exceed international regulatory limits. UK sources fear that diplomacy with a nuclear capable Iran will be far harder to achieve, especially if they don’t have the backing from international allies.

There are fears a Trump return to the White House could further increase the global instability

The UK’s ability to tackle the above significant foreign threats will depend heavily on the outcome of the US election in November. Forever living in the shadow of our American cousins, the proposition of a second Trump presidency was previously described as “the biggest threat to UK security” by a UK intelligence source.

There are fears that Trump’s ambition to strike deals with autocratic powers like Putin and China’s leader Xi Jinping will come at the expense of cohesion of Nato, the future of Ukraine, and traditional bilateral relations in Europe.

In February, Mr Trump raised fears that he could take the US out of the West’s security alliance, saying he would “encourage” Russia to “do whatever the hell they want” to Nato countries which did not meet their financial obligations to the alliance. He has since reassured Nato allies that he is “100 per cent” behind Nato so long as European countries “play fair”.

He has also threatened to cut US aid to Ukraine if he is reelected in November.

Starmer’s priority, should Trump find himself serving a second term, should be looking to “wean itself off excessive security reliance on the US” and working with Nato to “survive”, according to a UK intelligence source.

Managing the bilateral relationship in a way which enhances UK national security and continues global agreements should be one of the new Government’s top priorities, three UK sources urged.

This, of course, could be made difficult if the former Shadow Secretary David Lammy is heading up the Foreign Office.

In 2018, Mr Lammy previously described Trump as a “woman-hating neo-Nazi sympathising sociopath” and a “profound threat to the international order.”

Starmer recently distanced himself from the comments saying they weren’t the words “that I’ve ever used.”

He told the BBC: “I know the job of the person who leads our country is to deal with the leaders of other countries, who are elected by their people. You don’t always get to choose the leaders of other countries.”

In the run-up to the election, Mr Lammy met with Trump officials in an attempt to forge closer ties with Republican officials ahead of the election on the other side of the Atlantic later this year.

[https://inews.co.uk/news/uk-intelligence-warning-starmer-major-security-threats-election-3152924?ito=whatsapp\\_share\\_article-top](https://inews.co.uk/news/uk-intelligence-warning-starmer-major-security-threats-election-3152924?ito=whatsapp_share_article-top)

## Moyra Campbell

### Wren in the secret Y-Service who intercepted German signals and later worked for Moët et Chandon

<https://www.telegraph.co.uk/obituaries/2024/07/25/moyra-campbell-wren-y-service-champagne-moet-chandon/>

MOYRA CAMPBELL, who has died aged 99, was one of the last Wrens of the secret Y-Service who in the Second World War listened to German VHF voice messages in the North Sea and fed coded HF transmissions to Bletchley Park.

Born on July 14 1924, she was the daughter of Lord Stratheden, and as a child lived at Hartrigge House near Jedburgh. She and her two sisters enjoyed a happy Borders childhood revolving around ponies and pets. “Moy”, as she was known, never went to school, but her mother believed strongly in educating girls and, taught by a governess, she became fluent in French and German.

She was 15 when the war broke out in 1939. The Admiralty advertised on the BBC that it needed German speakers, and as soon as she was old enough she volunteered for the Women’s Royal Naval Service.

Selected for training at the innocuous-sounding Royal Naval Training Establishment at Southmead House, 22 Park Road, Wimbledon, hidden behind a wall of mature trees in extensive grounds, which included a sunken Italian garden, she learnt Morse and enemy wireless procedures before being sent to a listening station on the east coast.

Each station was staffed by a junior officer of the WRNS and some 20 female ratings who maintained a 24-hour listening service over the North Sea for German U-boats making the passage around Britain, or for E-boats preparing to attack vital east coast convoys. When they intercepted VHF in “voice” – plain spoken language or simple code which the girls soon cracked without reference to others – the Wrens passed warnings on to local naval operational centres at Hull and Harwich. When they heard enemy high-frequency signals in Morse they were transcribed and sent by teleprinter for deciphering at Bletchley Park, along with the bearings of transmissions.

Moyra Campbell served at Withernsea, where the Captain William pub on the promenade had been requisitioned, and at Beeston Hill, Sheringham. There, she made a lifelong friend of the widowed Dorothea Klatzow, née Fuhrmann, one of only two known foreign-born Wrens to have joined the Y-Service. Moyra Campbell readily admitted that her Czech friend (who later became famous as the illustrator Dorrit Dekk) was far better at picking up German “voice” than she was.

At the end of the war she was deployed to a secret SHAEF (Supreme Headquarters Allied Expeditionary Force) headquarters based on the top floor of Peter Robinson’s department store at Oxford Circus where, for a few months until she was demobilised, she translated captured German documents known as “pinches”.

There were no more than 400 Wrens in the Y-Service; they regarded themselves as an elite and rarely spoke about their wartime work even after the more general secrets of Bletchley Park became known in the late 1970s.

Postwar, Moyra Campbell felt too old to prepare for university, and had begun working for the English Speaking Union in Edinburgh, helping to find housing for those newly arrived in the city, when she received a telegram from a friend in France, Laurien Jones, daughter of the playwright Edith Bagnold, saying: “Would you like my job?” After some hesitation, Moyra said yes. The job involved working for Count Robert-Jean de Vogüé, war hero and director of Moët et Chandon, as chatelaine of Château de Saran, near Épernay.

She helped to entertain a stream of guests, when, after working all day, she would stay up late talking: not a problem for Moyra Campbell, who never went to bed until well after midnight. The success of Saran was largely due to her, and under her stewardship it became famous for its gastronomic delights. Her jeunes filles, who grew the magnificent flowers at Saran, still remember her with affection.

Moyra Campbell always returned to the Borders for the hunting season, and after 13 years at Saran she settled permanently near Jedburgh. There she became a well-known figure, involved with charities such as Scotland’s Garden Scheme or Riding for the Disabled, and was a woman farmer when farming was a man’s world. A regular at the Jedburgh festival and Kelso show, she rode with the Jed Forest Hunt, followed hounds well into her 90s, latterly in a car, and gave memorable Christmas parties.

Independent-minded and full of common sense, she just got on with the things that needed to be done. She lived a full life on her own terms, and never married.

Moyra Campbell, born July 14 1924, died June 18 2024

<https://www.telegraph.co.uk/obituaries/2024/07/25/moyra-campbell-wren-y-service-champagne-moet-chandon/>

*Those VHF stations were on SE and E coastlines. Fritz was aware of the listening; one Luftwaffe pilot used to go off patrol wishing the young ladies a good night. He became quite popular and when he was shot down a lot of the WRENS started to cry.*



# Japan

## Japan destroyer sailed into China territorial waters despite warnings

KYODO NEWS KYODO NEWS - Jul 11, 2024 - 08:35 | World, All, Japan

<https://english.kyodonews.net/news/2024/07/28ac44dc7400-japan-destroyer-sailed-into-china-territorial-waters-despite-warnings.html?s=08>

A Japanese Maritime Self-Defense Force destroyer temporarily sailed into Chinese territorial waters off the country's eastern province of Zhejiang last week, despite repeated warnings by Chinese vessels, diplomatic sources said Wednesday.

The Suzutsuki, tasked with monitoring Chinese military drills on the high seas, navigated into Chinese waters on July 4, in a rare move by a Self-Defense Forces vessel.

Beijing has conveyed its serious concern to Tokyo over the incident, leading the Japanese Defense Ministry to launch an investigation into the ship's captain, the sources said. The ministry declined to comment on matters concerning SDF operations.

A day before the MSDF destroyer entered Chinese waters, Zhejiang authorities said a no-sail zone would be set up in a nearby area for the Chinese military to conduct a live-fire drill, opening up the risk of a contingency occurring because of the Suzutsuki's presence.

The Chinese government suspects the incident was an "intentional provocation" by the destroyer, and has been collecting and analyzing relevant information, according to Chinese sources.

The Suzutsuki, which was on a mission to monitor the live-fire drill, was urged by the Chinese vessels to leave the area when it approached within 12 nautical miles (22 kilometers) off the coast of Zhejiang, but it sped up and navigated into the Chinese waters for some 20 minutes before leaving the territorial waters, the diplomatic sources said.

The MSDF ship has in the past monitored the activities of the Chinese aircraft carrier Liaoning, deployed in the East China Sea, but Japanese destroyers tasked with surveilling Chinese vessels usually stay away from territorial waters off Zhejiang, they added.

In unofficial talks between the two sides, a Japanese official pointed to the possibility that the entry was a "procedural error," they said.

A Chinese security expert, however, has cast doubt on Tokyo's unofficial view that the MSDF destroyer might have entered the Chinese waters by mistake, citing the Japanese crew's skill levels.

The U.N. Convention on the Law of the Sea recognizes the right to "innocent passage," allowing for a vessel to pass through the territorial waters of another state unless it compromises the safety of the coastal state.

Tokyo maintains that the Suzutsuki's entry into Chinese territorial waters was not illegal, citing the right to innocent passage.

But Beijing argues the MSDF ship did not fulfill its requirements under Chinese domestic law that foreign vessels seek its prior permission to enter its waters, the Chinese sources said.

Jun Tsuruta, associate professor of international law at Meiji Gakuin University in Tokyo, said there has been a debate on whether the right to innocent passage can be granted to military vessels as well as commercial ships, and that the issue has not been completely settled based on UNCLOS adopted in 1982.

As Tokyo recognizes the right to innocent passage for foreign military ships navigating into Japanese territorial waters, SDF vessels would not likely seek Beijing's prior approval based on Chinese law before entering the neighboring country's waters, Tsuruta pointed out.

China regularly sends its military and coast guard vessels into Japanese territorial waters near the Tokyo-controlled Senkaku Islands in the East China Sea, which Beijing claims and calls Diaoyu.

While the intention of the destroyer's crew has not been clarified, Japan should refrain from escalating tensions in regional seas, the associate professor said.

"I wonder why Japan made such a provocative move amid efforts by both countries to stabilize relations," a Chinese diplomatic source said.

Sino-Japanese relations have deteriorated over a host of issues, including the release of treated radioactive water from the crippled Fukushima nuclear power plant that began in August last year, prompting Beijing to impose a total import ban on Japanese seafood.

Chinese President Xi Jinping and Japanese Prime Minister Fumio Kishida agreed during their November meeting in San Francisco to build "mutually beneficial" bilateral relations based on common strategic interests, with Chinese Premier Li Qiang and the Japanese leader confirming the agreement in Seoul in May.

Despite this, negotiations to improve bilateral ties have been slow.

<https://english.kyodonews.net/news/2024/07/28ac44dc7400-japan-destroyer-sailed-into-china-territorial-waters-despite-warnings.html?s=08>

# Pakistan

## **Pakistan allows powerful spy agency to tap phone calls and messages Government claims authorisation for ISI, which is run by military, is limited to tracking criminal and terrorist activities**

Alisha Rahaman Sarkar  
Wednesday 10 July 2024 14:28

<https://www.independent.co.uk/asia/south-asia/pakistan-isi-phone-tapping-legal-b2577290.html?s=08>

Pakistan has authorised its powerful spy agency to tap phone calls and messages, tightening the army's grip on the South Asian nation.

Citizens and human rights advocates have criticised the move amid fears it could be weaponised to suppress political opponents and throttle dissent.

The ISI, which is run by the military, will be able to legally intercept and trace phone calls and messages in the interest of "national security".

Federal law minister Azam Nazeer Tarar told the parliament that the Ministry of Information Technology and Telecommunications has been advised of the authorisation in an 8 July notice.

"Anyone who misuses the law will face action," he said on Tuesday while claiming that the authorisation is limited to tracking criminal and terrorist activities and that the government will ensure it doesn't infringe people's lives and privacy.

"The federal government in the interest of national security and in the apprehension of any offence is pleased to authorise officers," the notice states, according to Reuters, "to intercept calls and messages or to trace calls through any telecoms system."

Parliamentarians from jailed former prime minister Imran Khan's Pakistan Tehreek-e-Insaf party opposed the decision.

Khan has previously backed the ISI's surveillance of telephone calls of politicians, even his own, in the absence of legal authorisation.

Omar Ayub Khan, the opposition leader in the parliament, said the spy agency will use its powers even against lawmakers and vowed that his party will mount a legal challenge.

A Pakistani citizen challenged the notification in the Lahore high court on Monday.

The opposition leader said the authorisation, which allows the spy agency to monitor social media accounts as well, gives it power to control free speech.

"Only a fascist government would grant an intelligence agency complete authority to tap citizens' phones," he was quoted as saying by the Dawn newspaper.

By promulgating this measure, he said, prime minister Shehbaz Sharif has "cut his own throat".

The law minister responded that police and intelligence agencies already "operate under this law whenever access to some data or interception is required".

"Time and again, we have witnessed that in the name of national security, individual freedoms are consistently under attack," Iqbal Khattak, executive director of the Freedom Network civil liberties group in Islamabad, told Arab News.

<https://www.independent.co.uk/asia/south-asia/pakistan-isi-phone-tapping-legal-b2577290.html?s=08>

# United States of America

## **From the Center for Strategic and International Studies [Seriously, an informative piece; follow to the end].**

### **"Secret Signals: Decoding China's Intelligence Activities in Cuba"**

[https://features.csis.org/hiddenreach/china-cuba-spy-sigint/?utm\\_source=substack&utm\\_medium=email](https://features.csis.org/hiddenreach/china-cuba-spy-sigint/?utm_source=substack&utm_medium=email)

# **Haviland Smith, CIA agent who pioneered counter-surveillance techniques in the Soviet bloc – obituary**

## **He created what became known in spycraft as ‘the gap’ – a few seconds when messages can be passed – as well as the ‘brush pass’ technique**

By Telegraph Obituaries

2 July 2024 • 6:00am

Related Topics Obituary, CIA (Central Intelligence Agency), Cold War

<https://www.telegraph.co.uk/obituaries/2024/07/02/haviland-smith-cia-agent-counter-surveillance-obituary/>

Haviland Smith, who has died aged 94, was a former CIA station chief who served in Europe and the Middle East and spent three years in the 1970s as chief of the agency's counterterrorism staff; he was particularly known for developing counter-surveillance techniques which became standard for CIA personnel stationed behind the Iron Curtain.

In 1958 he was appointed CIA station chief in Prague, managing agents across Czechoslovakia – and finding himself under constant surveillance. Once, after a stroll round the city, he learnt from intercepted radio messages that he had been monitored by more than two dozen vehicles.

At first he tried to outpace his pursuers, but that only made them more vigilant. Instead he concluded that the best way to distract their attention was to become extremely boring, maintaining a regular schedule and taking the same routes to carry out routine chores. Gradually, his minders stopped paying close attention, creating what became known in spycraft as “the gap” – a few seconds in which messages or a dead drop could be delivered.

Smith found that by adding corners to his routine, making two right turns for example in quick succession, he could create some vital seconds of opportunity.

Later he developed a technique known as the brush pass, in which agent and contact, often carrying identical-looking objects, such as a newspaper, briefcase, or magazine, “brush” past one another – typically in a public place and preferably a crowd, where other people interfere with any visual surveillance – so that watchers do not see information being exchanged.

Haviland Smith was born in Manhattan on August 25 1929, and grew up in Ridgewood, New Jersey. He attended Phillips Exeter Academy before taking a degree in English and Russian at Dartmouth College, New Hampshire. After service in the US Army in Europe he did graduate work in Russian at the University of London, then served in the US Army Security Agency, intercepting Russian-language messages, before joining the CIA in 1956.

His experience intercepting radio messages proved vital in Prague, where he cracked the radio codes used by the Czech secret police and planned his activities accordingly.

He led the CIA's counterterrorism staff in the 1970s

Smith went on to serve in Berlin and spent five years in the Middle East, where he was stationed in Beirut during the 1967 Six-Day War.

He was there when Israeli forces attacked the USS Liberty, a “technical research” (i.e. spy) ship in the eastern Mediterranean, killing 34 and wounding 171. At the time the US government appeared to accept Israeli claims that the attack had been a case of mistaken identity by Israeli pilots who had confused the US Navy's most distinctive ship with an Egyptian horse-cavalry transport.

Four decades later however, declassified internal White House documents showed that the Israelis' explanation was not believed at the time, and a number of intelligence specialists recalled seeing transcripts of communications between Israeli pilots and their ground control station, showing that they knew perfectly well that Liberty was American, but that the pilots had been ordered to attack and sink it and ensure they left no survivors.

Smith, too, recalled hearing about the transcripts, but had been told that they had been “deep-sixed” (irretrievably disposed of) because the administration did not wish to embarrass the Israelis.

In the 1970s Smith led the CIA's counterterrorism staff at Langley and served as an executive assistant to the CIA's deputy director, Frank Carlucci, before retiring in 1980.

Later he bought a farm in Vermont, where he raised fallow deer and turned wooden bowls on a lathe. He also wrote op-ed pieces for newspapers castigating US policy in the Middle East as “totally simplistic”. Donald Trump, meanwhile, he accused of promoting policies that “would appear to be in line with the goals of the Russian leadership to weaken their American rival”.

Smith was twice awarded the Intelligence Medal of Merit.

His first marriage, to Martha Allen, was dissolved. He is survived by his second wife, Dolores, by their daughter and by two sons from his first marriage. Another son from his first marriage predeceased him.

Haviland Smith, born August 25 1929, died June 20 2024

<https://www.telegraph.co.uk/obituaries/2024/07/02/haviland-smith-cia-agent-counter-surveillance-obituary/>

# North Korean hackers stole military secrets, FBI reveals Hunt launched for members of ‘malicious cyber group’ after US nuclear information is targeted

By  
Tony Diver,  
US EDITOR  
25 July 2024 • 7:56pm

<https://www.telegraph.co.uk/world-news/2024/07/25/north-korean-hackers-stole-military-secrets-fbi-reveals/>

The goal of the North Korean-backed hacking group is said to be to steal information about US military technology CREDIT: Korean Central News Agency/Korea News Service via AP  
A North Korean hacking group stole secrets about satellites and warplanes from Nasa, US air bases and defence contractors, the FBI has revealed, as it launched a hunt to catch the perpetrators.

The US government is offering a \$10 million reward for information leading to the identity of hackers targeting American national security assets, including nuclear secrets and information about missiles, submarines and drones.

On Thursday, the US and UK published joint guidance for facilities that could be attacked by Andariel, a “malicious cyber group” controlled by North Korea’s military intelligence agency, the Reconnaissance General Bureau.

The US State Department said a North Korean national named Rim Jong Hyok was linked to the group, and had hacked into US hospitals and other healthcare providers to extort ransoms to fund its cyber attacks.

The goal of the group was to steal information from American and foreign defence contractors, who build military technology, the State Department said.

Hackers had access to Nasa system for three months

The hackers gained access to Nasa’s computer system for more than three months, extracting more than 17 gigabytes of unclassified data, according to an indictment of Mr Rim.

They also accessed computer systems of defence companies in Michigan and California, and air bases in Texas and Georgia, US authorities said.

“While North Korea uses these types of cyber crimes to circumvent international sanctions and fund its political and military ambitions, the impact of these wanton acts have a direct impact on the citizens of Kansas,” said Stephen Cyrus, an FBI agent based in Kansas City.

One US contractor was hacked in November 2022, and lost more than 30 gigabytes of data, including “unclassified technical information regarding material used in military aircraft and satellites”. Much of the information secured was more than 14 years old.

Rim Jong Hyok, a North Korean national, has been linked to the hacking group, according to the US State Department

Mr Rim has been placed on the FBI’s most wanted list, and is charged with conspiracy to commit computer hacking and money laundering. Any information leading to him, Andariel or its associates carries a \$10 million reward.

The Andariel group is one of several foreign hacking cells with links to North Korea or China that has been uncovered by US and UK law enforcement agencies in recent months.

In March, the FBI and UK National Cyber Security Centre (NCSC) traced attacks by APT 31, a Chinese group that launched attacks on email accounts belonging to MPs and US government officials and campaign staff.

National security threat is ‘broad and unrelenting’

The latest disclosure comes after Christopher Wray, the director of the FBI, said hacks from Chinese and other foreign groups posed a “broad and unrelenting” threat to US national security.

Ken McCallum, the director of MI5, said last year that his agency had more than doubled its work against Chinese activity in the last three years, and would double it again.

A briefing note released by the FBI and NCSC on Thursday said the North Korean hackers were based in Pyongyang and Sinuijuhad, and gained access to computer systems owned by defence contractors and healthcare providers by exploiting known vulnerabilities in software used by the companies.

The agencies released a wide-ranging list of targets in the nuclear, defence, aerospace and engineering sectors. The hackers have tried to steal secrets linked to fighter aircraft, missiles, satellites, shipbuilding, uranium enrichment and nuclear power plants.

Healthcare companies were targeted for confidential contracts, design drawings and project details. The group also encrypted computers and refused to unlock them unless they were paid, in an attack known as “ransomware”.

Paul Chichester, the NCSC director of operations, said: “The global cyber espionage operation that we have exposed today shows the lengths that DPRK state-sponsored actors are willing to go to pursue their military and nuclear programmes.

“It should remind critical infrastructure operators of the importance of protecting the sensitive information and intellectual property they hold on their systems to prevent theft and misuse.”

The agencies encouraged companies working on critical national infrastructure to update computer systems with security patches.

They said the hackers often made mistakes in their code, “indicating that the commands are not directly copied from a playbook and the actors have a flexible and impromptu approach” and a “poor grasp of the English language”.

Once gaining access, the group deployed “malware and other tools to maintain persistence, evade detection and exfiltrate data”.

<https://www.telegraph.co.uk/world-news/2024/07/25/north-korean-hackers-stole-military-secrets-fbi-reveals/>



# Morse - Number 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.

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## UM05 – The French Mvstery Morse Station

The Mystery Morse station continues to be heard on 5345,8kHz where, although other frequencies were trialled earlier in the year, the station appears to have comfortably now settled.

Peter, (PoSW), has been monitoring the station at various times & dates throughout July & August & has sent us this report & logs:-

The strange CW station UM05 on 5345.8 kHz remained active in July and August, helping us to improve our French vocabulary and occasionally sending a single numeral or a letter of the alphabet. Not much audible in daylight as might be expected on this relatively low frequency but has been heard with a strong signal in the evenings and a reasonable signal in the early mornings. A few examples:-

08-July-24, Monday:-	1751 UTC,	sending "SAMEDI";	1904 UTC, "GLACE".
10-July-24, Wednesday:-	2025 UTC,	"ELEPHANT".	
11-July-24, Thursday:-	1940 UTC,	"TECHNOLOGIE".	
14-July-24, Sunday:-	2038 UTC,	"GRIS".	
16-July-24, Tuesday:-	0531 UTC,	"VIN".	
20-July-24, Saturday:-	0554 UTC,	"G".	
25-July-24, Thursday:-	2004 UTC,	"LUNDI".	
29-July-24, Monday:-	2049 UTC,	"KANGOUROU".	
02-Aug-24, Friday:-	2006 UTC,	"ORANGE".	
07-Aug-24, Wednesday:-	0650 UTC,	"OXYGENE".	
10-Aug-24, Saturday:-	2013 UTC,	"B".	
15-Aug-24, Thursday:-	1931 UTC,	"STADE".	
22-Aug-24, Thursday:-	1913 UTC,	"GLACE", paused then came back with "TSUNAMI".	
25-Aug-24, Saturday:-	2013 UTC,	"I".	
26-Aug-24, Monday:-	1907 UTC,	"RIVIERE".	
27-Aug-24, Tuesday:-	0645 UTC,	"MONTAGNE".	

Many thanks Peter for your observations & Logs.

## UNID 5-Letter Groups (Now designated as UM06)

In our March 20204 newsletter, we featured a report of a station sending 5-letter group sequences separated by a repeated 5-number group of a single number. An extract of which is included here for reference:-

14442 1010z 02 Jan Unidentified Morse station AB TUE

55555 (x20)  
BDTOP XKOCE XKOECE UKEMO RTSMA UKEMO  
22222 (x20)  
XKOCE UKEMO XKOCE XKOCE TUORS XKOCE  
00000 (x20)

This report was submitted by Ary, (AB), who has discovered further similar transmissions from this station on several different frequencies & that the station was heard using 15915kHz on Saturday 29 June.

This latest report from Ary was of the station transmitting on 7542kHz on Wednesday 10 July, although Ary believes that the station may have been active for a couple of weeks prior to his log.

TDoA by Ary suggests that it comes from Vernon.

7542 2103z (In progress) 10 July UM06 AB WED

22222 (R)  
TUORS RTSMA UKEMO BDTOP XKOCE RTSMA  
55555 (R)  
XKOCE BDTOP XKOCE BDTOP RTSMA BDTOP BDTOP BDTOP  
55555 (R)  
RTSMA RTSMA RTSMA XKOCE RTSMA  
22222 (R)  
UKEMO RTSMA RTSMA TUORS XKOCE  
00000 (R)  
BDTOP TUORS TUORS XKOCE TUORS BDTOP  
22222 (R)  
RTSMA RTSMA UKOCE (faded to nil)

These are indeed curious transmissions. Looking at the group construction it can be seen that there are a limited variation in the groups used & that they repeat in each sequence, but in a different order. Some are repeated twice. The groups used are also those used in the 02 January mesage.

Could they be intended for training or do they have another purpose?

**Russian / CIS Military Nets (M32 - Now withdrawn Designation)**

After logging the M01 2000z schedule on Tuesday, 30 July, BR noted a strong Morse signal 7kHz up the band. The signal was sporadic but was identified as the Russian military network previously designated as M32. ENIGMA withdrew the designation once it was established that the transmissions were not Number Stations, & therefore not of interest to the group.

4910	2010 – 2030z	30 Jul	NKOU calling various outstations 9NCM DE NKOU K (Response received – weaker sig.) R NKOU DE 9NCM K 4XL3 DE NKOU K CAJ9 DE NKOU K WKA9 DE NKOU K (No response heard but followed by) WKA9 DE NKOU RK	BR	TUE
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**RDL - Russian Navy**

4582	2025z (IP)	15 Jul	Messages from RDL - Russian Navy	BR	MON
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FSK Morse messages with FSK marker between messages. Uses long zero

**RDL RDL**

11111 18722 36698 32263 32263 19598 80607 22596 39405 04214  
53494 84918 39243 69628 18692 45800 22617 56814 40626 25281  
00358 12516 65676 43157 74915 70615 08624 43121 05947 54856  
35467 89090 85445 80451 54574 57822 04655 86305 82604 60974  
61456 76219 87207 18660 60308 83057 31281 66907 87741 15049  
K

**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.

**Reappearance of 4905kHz for the 2000z Transmission**

The station was noted using 4905kHz for three of the 2000z schedules during July, the original frequency used for this schedule for a great number of years. This changed suddenly in May 2022 when the M01/3 cycle started using 4903kHz for the 2000z transmission. The reason for that change is unknown since the frequency always appeared to be clear of interference or other transmissions.

The use of the old frequency on these occasions may have been a simple operator error, deliberately introduced as part of the training program or for operational reasons unknown to us.

**July 2024:**

4903	2000z	02 Jul	'025' 692 30 == 64728 65726 ... 45178 46254 ==	Good, fast. Hesitant in places at start. No errors	BR	TUE
4903	2000z	04 Jul	'025' 121 30 == 23781 92813 ... 83756 10294 ==	Fair, fast. Excellent Morse. Several errors mid-msg.	BR	THU
<b>4905</b>	2000z	09 Jul	'025' 204 30 == 98445 67712 ... 09872 75812 ==	Fair with static, fast. Good Morse. <b>Used old freq 4905</b>	BR	TUE
4903	2000z	11 Jul	'025' 636 30 == 62897 63519 ... 64829 74902 ==	Fair with static, fast. Good Morse with no noted errors	BR	THU
<b>4905</b>	2000z	16 Jul	'025' 801 30 == 85904 92873 ... 92345 17234 ==	Good, fast. Excellent Morse. 33 grps sent. <b>Used 4905</b>	BR	TUE
<b>4905</b>	2000z	18 Jul	'025' 995 30 == 06755 57449 ... 01130 57486 ==	Fair, fast. Many paired figures. <b>Used 4905 again</b>	BR	THU
4903	2000z	23 Jul	'025' 116 30 == 18854 66375 ... 33015 33522 ==	Fair, fast. Good Morse. All grps contained paired figs.	BR	TUE
4903	2000z	25 Jul	'025' 119 30 == 86909 99200 ... 74320 84920 ==	Weak/Fair, fast. Excellent Morse. No errors	BR	THU
4903	2000z	30 Jul	'025' 104 30 == 27132 92817 ... 02938 74621 ==	Weak, fast. Excellent Morse. Perfect sending. No errors	BR	TUE
5280	1800z	02 Jul	'025' 825 30 == 52749 70471 ... 63829 63829 ==	Extremely weak. Copy via SDR Norway. 29 grps sent	BR	TUE
	1800z	04 Jul	'025' 817 30 == 28371 92835 ... 0.921 25869 ==	Weak, Fair – static via SDR Finland. Excellent Morse	BR	THU
	1800z	11 Jul	'025' 109 30 == 52718 63890 ... 52891 53781 ==	Ex.weak. Copy via SDR Finland. Numerous errors	BR	THU
	1800z	18 Jul	NRH – UK & also nothing on SDR Finland		BR	THU
	1800z	23 Jul	'025' 169 30 == 44567 77345 ... 87995 44537 ==	Weak. Fair via Finland. Most grps contained paired figs	BR	TUE
	1800z	25 Jul	'025' 124 30 == . . . . . 78430 73487 ==	Weak. Fair via Finland. Three corrected errors noted	BR	THU
	1800z	30 Jul	'025' 878 30 == 19280 93827 ... 84958 37211 ==	V.Weak. Copy via Poland. Only one Decode Key at end	BR	TUE
6435	1500z	06 Jul	'025' 489 30 == 50968 576 . . . . . 40978 16544 ==	Weak with QSB. Med-fast delivery. Poor copy at times	BR	SAT
	1500z	20 Jul	'025' NRH UK. Weak, very distorted via SDR Finland. Transmitter issues?		BR	SAT
	1500z	27 Jul	'025' 952 30 == 76554 77568 ... 88456 99342 ==	V.Weak. Fair via Poland. All grps contained paired figs	BR	SAT
6780	0700z	21 Jul	'025' NRH UK. Very weak via SDR Finland. Transmitter issues as Saturday 20 Jul?		BR	SUN

**August 2024:**

4903	2000z	01 Aug	'025' 381 30 == 45630 76850 ... 50938 38927 ==	Fair with static. Fast delivery. GRp22 80761 80671	BR	THU
	2000z	06 Apr	'025' 382 30 == 75675 76890 ... 75408 56521 ==	Weak/Fair, fast. Good Morse. No errors	BR	TUE
	2000z	08 Aug	'025' 775 30 == 57463 95837 ... 26728 02917 ==	Fair, fast. Excellent Morse with no errors. Ends 0000	BR	THU
	2000z	15 Aug	'025' 106 30 == 94738 84774 ... 77388 44621 ==	Good, fast. Good Morse. No errors	BR	THU
	2000z	22 Aug	'025' 298 30 == 52748 90805 ... 681 62530 6530 ==	Fair, fast. Confusing muddle from grp16 to end of msg.	BR	THU
	2000z	25 Aug	'025' 960 30 == 38902 83918 ... 29181 28374 ==	Fair/Good with QSB. Fast. Corrected error grp30	BR	TUE
	2000z	29 Aug	'025' 610 30 == 39281 74938 ... 26743 90594 ==	Fair/Good, fast. Several repeat grps shortened	BR	THU

5280	1800z	01 Aug	'025'	701 30 == 64530 50984 ... 20968 11647 ==	V.Weak.. Fair via Finland. QRM mid-msg.	BR	THU
	1800z	06 Aug	'025'	105 30 == 89898 65786 ... 98323 23649 ==	Ex.Weak. Fair via Poland. Good Morse. No errors	BR	TUE
	1800z	08 Aug	'025'	123 30 == 29483 72319 ... 02938 47103 ==	Weak, fast. Excellent Morse. Two errors. Ends 0000	BR	THU
	1800z	15 Aug	'025'	889 30 == 75621 12340 ... 64320 76849 ==	Weak. Fair via SDR Finland. Good Morse. No errors	BR	THU
	1800z	20 Aug	'025'	162 30 == 8 .533 66231 ... 99342 77113 ==	Weak/Fair with QSB. Many paired numbers in grps.	BR	TUE
	1800z	22 Aug	'025'	153 30 == 52749 90036 ... 65719 62846 ==	Fair, fast. No errors in msg. Only one group count at end	BR	THU
	1800z	29 Aug	'025'	382 30 == 28493 1 .378 ... 6334 . 48372 ==	Weak/Fair. Difficult copy throughout due to QSB	BR	THU
6435	1500z	03 Aug	'025'	712 30 == 84730 92817 ... 72834 83726 ==	V.Weak. Fair via Poland. Excellent Morse. No errors	BR	SAT
	1500z	17 Aug	'025'	639 30 == 75648 5 .234 ... 99233 11043 ==	Fair with QSB. Many paired numbers in grps. No errors	BR	SAT
	1500z	24 Aug	'025'	163 30 == 65489 99738 ... 43365 57722 ==	Weak with QSB. Fast delivery. Poor copy at times	BR	SAT
	1500z	31 Aug	'025'	257 30 == 25389 51627 ... 52712 89036 ==	Weak/Fair with QSB. Poor copy in places due to QSB	BR	SAT
6780	0700z	18 Aug	'025'	195 30 == 76849 56673 ... 34567 23998 ==	Weak/Fair, fast. Corrected error grp17. Faded mid-msg	BR	SUN
	0700z	25 Aug		Very weak - No useful copy		BR	SUN

<b>M01/3</b>	<b>5280kHz</b>	<b>1800z</b>	<b>16 July 2024</b>
025 (R4m) 728 728 30 30 = =			
29382 72893 02918 27345 86786 01927 03957 83920 93827 17283			
49282 28372 82738 49382 03948 72634 34367 83748 94837 29381			
28324 82738 83750 02918 02938 47382 92834 12109 23845 28371			
28345 23486 = = 728 30 000			
Note: 32 groups sent Only one decode key & one group count at end of message			
<i>Courtesy BR</i>			

<b>M01/3</b>	<b>4905kHz</b>	<b>2000z</b>	<b>18 July 2024</b>
025 (R4m) 995 995 30 30 = =			
06755 57449 03342 24465 76844 93456 55761 95043 33657 67588			
86556 57768 94885 03334 56475 86759 65744 86955 76859 44034			
76859 44657 55765 92011 75930 38294 76859 30223 01130 57486			
= = 995 995 30 30 0000			
Note: Many paired figures in groups. 4 x zeros sent at end of message			
<i>Courtesy BR</i>			

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

No Reports

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

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

**Asiatic M12 Logs**

15881/14781/13481	0210/30/50z	01 Jul	874 1	(Via SDR Japan)	HFD	MON
16272/14972/13972	0300/20/40z	04 Jul	299 1	(Via SDR Japan)	HFD	THU
12163/11163/10463	0210/30/50z	02 Aug	114 1	(Via SDR Japan)	HFD	FRI
14975/13875/13475	0300/20/40z	01 Aug	984 1	(Via SDR Japan)	HFD	THU

**European M12 Logs**

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

10767/10167/9267	2100/20/40z	05 Jul	712 1 (3355 125)	01803 51028....	BR/HFD	FRI	
	2100/20/40z	06 Jul	712 1 (3355 125)	01803 51028....	BR	SAT	
	2100/20/40z	12 Jul	712 1 (3355 125)	01803 51028....	BR	FRI	
	2100/20/40z	13 Jul	712 1 (3355 125)	01803 51028....	BR	SAT	
	2100/20/40z	19 Jul	712 000		BR	FRI	
	2100/20/40z	20 Jul	712 000		BR	SAT	
	2100/20/40z	26 Jul	712 1 (2239 131)	09641 31662....	BR	FRI	
	2100/20/40z	27 Jul	712 1 (2239 131)	09641 31662....	BR	SAT	
11519/12194/13407	1100/20/40z	02 Jul	289 1 (3873 56)	88413 54901....	BC QRM on 11519kHz	BR	TUE
	1100/20/40z	09 Jul	289 1 (3398 52)	77118 23512....		BR	TUE
	1100/20/40z	16 Jul	289 1 (6315 55)	71635 80297....		BR	TUE
	1100/20/40z	23 Jul	289 1 (9301 57)	88209 54414....		BR	TUE
	1100/20/40z	30 Jul	289 1 (6257 55)	74043 58656....		BR	TUE
12162/11566/10711	1800/20/40z	02 Jul	546 1 (4272 53)	8449802645....		BR	TUE
	1800/20/40z	09 Jul	546 1 (3302 58)	16380 53391....		BR	TUE
	1800/20/40z	16 Jul	546 1 (3733 51)	45183 65297....		BR	TUE
	1800/20/40z	23 Jul	546 1 (5172 58)	63478 53764....		BR	TUE
	1800/20/40z	30 Jul	546 1 (1592 50)	28102 31810....		BR	TUE
12217/10817/9317	2000/20/40z	01 Jul	617 1 (2088 181)	17654 71615....		BR/HFD	MON
	2000/20/40z	04 Jul	617 1 (2088 181)	17654 71615 ... 21885 30743 000 000		Gert	THU
	2000/20/40z	11 Jul	617 000			BR	THU
	2000/20/40z	15 Jul	617 1 (2562 47)	29909 20894....		BR	MON
	2000/20/40z	18 Jul	617 1 (2562 47)	29909 20894....		BR	THU
	2000/20/40z	22 Jul	617 000			BR	MON

	2000/20/40z	25 Jul	617 000			BR	THU
	2000/20/40z	29 Jul	617 1 (589 79)	81020 43440....		BR	MON
14968/14468/13368	1900/20/40z	03 Jul	943 000			HFD	WED
	1900/20/40z	05 Jul	943 000			BR	FRI
	1900/20/40z	10 Jul	943 1 (9646 113)	31728 15200....		BR	WED
	1900/20/40z	12 Jul	943 1 (9646 113)	31728 15200....		BR	FRI
	1900/20/40z	17 Jul	943 1 (9646 113)	31728 15200....		BR	WED
	1900/20/40z	19 Jul	943 1 (9646 113)	31728 15200....		BR	FRI
	1900/20/40z	26 Jul	943 000			BR	FRI
	1900/20/40z	31 Jul	943 1 (4362 187)	71125 51908....		BR	WED
<b>16158/14858/14358</b>	<b>2310/30/50z</b>	<b>03 Jul</b>	<b>183 1 (643 215)</b>	<b>59084 27885 ... 54220 90746 000 000</b>		BR/Gert/HFD	WED
	2310/30/50z	10 Jul	183 1 (149 93)	56981 81429....		BR	WED
	2310/30/50z	17 Jul	183 1 (121 84)	97247 81169....		BR	WED
	2310/30/50z	28 Jul	183 1 (210 96)	50565 93051....		BR	SUN
	2310/30/50z	31 Jul	183 1 (9301 115)	68205 41195....		BR	WED
<b>August 2024:</b>							
10314/9114/8014	2100/20/40z	02 Aug	310 1			HFD	FRI
	2100/20/40z	03 Aug	310 1 (2239 131)	09641 31662....		BR	SAT
	2100/20/40z	09 Aug	310 000			BR	FRI
	2100/20/40z	10 Aug	310 000			BR	SAT
	2100/20/40z	16 Aug	310 000			BR	FRI
	2100/20/40z	23 Aug	310 000			BR	FRI
	2100/20/40z	24 Aug	310 000			BR	SAT
11435/10598/9327	1800/20/40z	01 Aug	938 1 (3138 77)	83971 30773....		BR	THU
	1800/20/40z	08 Aug	938 1 (3164 77)	07996 25932....		BR	THU
	1800/20/40z	15 Aug	938 1 (8805 75)	12874 24167....		BR	THU
	1800/20/40z	22 Aug	938 1 (7517 78)	28296 83571....		BR	THU
11519/12194/13407	1100/20/40z	06 Aug	289 1 (9533 59)	59133 98484....		BR	TUE
	1100/20/40z	20 Aug	289 1 (7784 56)	54042 94690....		BR	TUE
	1100/20/40z	27 Aug	289 1 (1958 55)	27670 88098....		BR	TUE
12148/10648/9148	2000/20/40z	01 Aug	374 1 (589 79)	81020 43440....		BR/HFD	THU
	2000/20/40z	05 Aug	374 000			BR	MON
	2000/20/40z	08 Aug	374 000			BR	THU
	2000/20/40z	12 Aug	374 1 (7574 61)	44807 52583....		BR	MON
	2000/20/40z	15 Aug	374 1 (7574 61)	44807 52583....		BR	THU
	2000/20/40z	19 Aug	374 000			BR	MON
	2000/20/40z	22 Aug	374 000			BR	THU
	2000/20/40z	26 Aug	374 1 (974 84)	82122 63520....		BR	MON
12162/11566/10711	1800/20/40z	06 Aug	546 1 (7945 57)	21324 07483....		BR	TUE
<b>14408/13408/12203</b>	<b>2310/30/50z</b>	<b>04 Aug</b>	<b>442 1</b>	Nom. QRG should be 12208		HFD	SUN
	<b>2310/30/50z</b>	<b>07 Aug</b>	<b>442 000</b>			BR	WED
	2310/30/50z	11 Aug	442 000			BR	SUN
	2310/30/50z	18 Aug	442 1 (2070 174)	07675 .2418....		BR	SUN
	2310/30/50z	25 Aug	442 1 (384 59)	17183 18888....		BR	SUN
15931/14831/13531	1900/20/40z	02 Aug	985 1 (4362 187)	71125 51908....		BR/HFD	FRI
	1900/20/40z	07 Aug	985 1 (4362 187)	71125 51908....		BR	WED
	1900/20/40z	09 Aug	985 1 (4362 187)	71125 51908....		BR	FRI
	1900/20/40z	14 Aug	985 000			BR	WED
	1900/20/40z	16 Aug	985 000			BR	FRI
	1900/20/40z	21 Aug	985 1 (5019 129)	72355 53425....		BR	WED
	1900/20/40z	23 Aug	985 1 (5019 129)	72355 53425....		BR	FRI
	1900/20/40z	28 Aug	985 1 (5019 129)	72355 53425....		BR	WED

**M12 12217/10817/9317kHz 2000/2020/2040z 04 July 2024**

617 617 617 1 (R2m) 2088 181 2088 181

17654 71615 33486 57501 27431 01517 02505 10743 43884 77994  
39478 97720 31892 30888 71593 09591 90370 54195 08065 16439  
96903 25929 79896 38637 30276 85107 41462 32525 08992 07646  
52145 97893 39598 18493 20469 97792 40592 00743 45755 10753  
46744 74989 42353 22805 21771 65733 68476 38369 22470 62312  
90137 39083 92410 47337 77224 44912 91592 46614 70666 31796  
51880 28469 66295 31500 01016 63264 56170 60685 17736 73231  
09010 98595 50707 53138 56163 93518 29060 39780 27185 99688  
67555 79998 27711 98144 03288 96287 31198 83309 45205 61528  
74625 03907 50323 91587 21764 06996 78753 49338 97334 84862  
96143 68888 91317 76350 78122 84549 80477 32541 34493 89914  
10416 36925 19407 87783 57599 59071 69049 60931 46195 42599  
54527 96580 18467 00027 73505 66609 10752 63507 94433 26599  
70828 03587 23512 09020 49849 34695 44881 45319 35793 17546  
72776 54079 99326 22973 06012 72312 81578 72665 78014 44363  
43608 00399 73855 67752 00187 92306 21333 99061 66644 51424  
78466 52528 43084 73038 56402 37354 63273 83478 96523 74242  
62781 93564 32862 84345 90855 12009 46581 81302 55022 21885  
30734 000 000

*Courtesy Gert*



**M14** IA MCW / ICW Short 0

**July 2024:**

Ary, (AB), reports on an apparent mix-up with messages at the end of July. Usually the same message would be expected, but on this occasion a different message was transmitted on the Tuesday schedule. Transcripts of both messages are included below.

12211	0500z	29 Jul	952 (483 50) = 99560 55584....01685 72497 = 483 50 00000	AB	MON
10243	0520z	29 Jul	952 (483 50) = 99560 55584....01685 72497 = 483 50 00000	AB	MON
12211	0500z	30 Jul	952 (192 50) = 92350 00308....33675 85027 = 192 50 00000 Incorrect message?	AB	TUE
10243	0520z	30 Jul	952 (192 50) = 92350 00308....33675 85027 = 192 50 00000 Incorrect message?	AB	TUE

Ary also noted the same with the sister station S06 – But in this case the order of the messages was reversed. (Details below for reference – See also S06 section).

**S06**

11616	0400z	29 Jul	480 (192 50) = 92350 00308....33675 85027 = 192 50 00000	AB	MON
9322	0420z	29 Jul	480 (192 50) = Off at 0424z. Preamble at 0425z. Off after group 12	AB	MON
11616	0400z	30 Jul	480 (483 50) 99560 55584....01685 72497 = 483 50 00000	AB	TUE
9322	0420z	30 Jul	480 (483 50) 99560 55584....01685 72497 = 483 50 00000	AB	TUE

**August 2024:**

No Reports

<b>M14 12211kHz 0500z 29 July 2024</b>
952 (R4m) 483 483 50 50 = =
99560 55584 09386 31096 49684 50361 05129 24480 16789 21077
06053 22777 61327 32372 22260 85945 05335 80635 41715 58970
74491 73045 69233 85526 60196 06717 65948 24089 93858 08878
93959 89914 50572 24026 95842 71349 24385 58987 63712 93882
42325 21828 77521 30394 09390 15547 17283 81030 01685 72497
= =
483 483 50 50 00000
<i>Courtesy AB</i>

<b>M14 12211kHz 0500z 30 July 2024</b>
952 (R4m) 192 192 50 50 = =
92350 00308 04659 29744 99295 29987 34771 23546 57838 37068
75507 21363 54979 50082 12174 37971 80893 76320 38333 01724
54947 75683 43797 88205 62757 89701 78478 33290 90213 55422
40574 67778 65420 58843 62494 40806 44477 07590 92985 24207
02051 27515 98881 15019 12670 12912 34924 78329 33675 85027
= =
192 192 50 50 00000
<i>Courtesy AB</i>

**M23** O ICW

No Reports

**Morse Stations - Not Number Related**

**M51** XIX

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

No reports – M51b format in use

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

Usually a reliable signal on the stations two core frequencies, M51 was off-air for much of August. A return was noted on Wednesday, 21 August on 3881kHz only & on the following day was found on 6825kHz in the day & 3881kHz in the evening.

Monitoring the station for the remainder of August, the station continued to appear irregularly – usually using either one frequency or the other –although on several days was heard on both frequencies simulcasting.

This behaviour has been noted before & the reason is unknown but may be due to maintenance issues or possibly financial constraints?

3881//6825	1130 - 1202z	20 Aug	Mardi-Leçon	02-2/1 Codé	02-2/2 Clair	02-2/3 Codé,	02-2/4 Clair (600 grps/hr)	BR	TUE
	1130 - 1158z	25 Jul	Jeudi- Leçon	24-2/1 Codé,	24-2/2 Clair,	24-2/3 Codé,	24-2/4 Clair (840 grps/hr)	BR	THU
	1130 - 1157z	22 Aug	Jeudi- Leçon	04-2/1 Codé,	04-2/2 Clair,	04-2/3 Codé,	04-2/4 Clair (840 grps/hr)	BR	THU

**M89** O

**M89 Freq & Call signs heard in Jul / Aug 2024**

6840//NRH	1923z	25 Jul	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	Fair via Twente SDR	BR	THU
4860//6840	1923z	30 Aug	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	Fair/Good via Twente SDR	BR	THU

No Reports

Spl Msg: VVV JPL VY Best RGDS DE E2K K

### Marker Beacons (MX MXI)

5153.7	1944z	14 Jul	MXI	CW	Beacon	"D"	Sevastopol		BR	SUN
	1916z	10 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	SAT
5153.9	1944z	14 Jul	MXI	CW	Beacon	"S"	Severomorsk		BR	SUN
	1917z	10 Aug	MXI	CW	Beacon	"S"	Severomorsk		BR	SAT
5156.7	1943z	14 Jul	MX	CW	Beacon	"L"	St Petersburg		BR	SUN
	1916z	10 Aug	MX	CW	Beacon	"L"	St Petersburg		BR	SAT
7508.7	1941z	14 Jul	MXI	CW	Beacon	"D"	Sevastopol		BR	SUN
	1914z	10 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	SAT
7508.9	1942z	14 Jul	MXI	CW	Beacon	"S"	Severomorsk		BR	SUN
	1915z	10 Aug	MXI	CW	Beacon	"S"	Severomorsk		BR	SAT
7509	1942z	14 Jul	MXI	CW	Beacon	"C"	Moscow		BR	SUN
	1915z	10 Aug	MXI	CW	Beacon	"C"	Moscow		BR	SAT
8494.7	1939z	14 Jul	MXI	CW	Beacon	"D"	Sevastopol	Under digital sig	BR	SUN
8495	1940z	14 Jul	MXI	CW	Beacon	"C"	Moscow	Under digital sig	BR	SUN
	1913z	10 Aug	MXI	CW	Beacon	"C"	Moscow	Under digital sig	BR	SAT
8497.8	1912z	10 Aug	MX	CW	Beacon	"L"	St Petersburg		BR	SAT
	1017z	20 Aug	MX	CW	Beacon	"L"	St Petersburg	Weak	BR	
10871.7	1932z	14 Jul	MXI	CW	Beacon	"D"	Sevastopol		BR	SUN
	0739z	16 Jul	MXI	CW	Beacon	"D"	Sevastopol	Weak	BR	TUE
	1911z	10 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	SAT
	1016z	20 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	TUE
810871.8	1933z	14 Jul	MXI	CW	Beacon	"P"	Kaliningrad		BR	SUN
	0740z	16 Jul	MXI	CW	Beacon	"P"	Kaliningrad	Weak	BR	TUE
	1910z	10 Aug	MXI	CW	Beacon	"P"	Kaliningrad	Strong	BR	SAT
	1014z	20 Aug	MXI	CW	Beacon	"P"	Kaliningrad		BR	TUE
10871.9	1933z	14 Jul	MXI	CW	Beacon	"S"	Severomorsk		BR	SUN
	0739z	14 Jul	MXI	CW	Beacon	"S"	Severomorsk	Weak	BR	TUE
	1910z	10 Aug	MXI	CW	Beacon	"S"	Severomorsk		BR	SAT
	1014z	20 Aug	MXI	CW	Beacon	"S"	Severomorsk	Strong	BR	TUE
13527.7	1931z	14 Jul	MXI	CW	Beacon	"D"	Sevastopol		BR	SUN
	0737z	16 Jul	MXI	CW	Beacon	"D"	Sevastopol		BR	TUE
	1908z	10 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	SAT
	1013z	20 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	TUE
13527.9	1931z	14 Jul	MXI	CW	Beacon	"S"	Severomorsk		BR	SUN
	0738z	16 Jul	MXI	CW	Beacon	"S"	Severomorsk	Weak	BR	TUE
	1013z	20 Aug	MXI	CW	Beacon	"S"	Severomorsk	Strong	BR	TUE
13528.1	1909z	10 Aug	MXI	CW	Beacon	"A"	Astrakhan		BR	SAT
16331.7	1928z	14 Jul	MXI	CW	Beacon	"D"	Sevastopol		BR	SUN
	0734z	16 Jul	MXI	CW	Beacon	"D"	Sevastopol		BR	TUE
	1906z	10 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	SAT
	1011z	20 Aug	MXI	CW	Beacon	"D"	Sevastopol		BR	TUE
16331.9	1929z	14 Jul	MXI	CW	Beacon	"S"	Severomorsk		BR	SUN
	0735z	16 Jul	MXI	CW	Beacon	"S"	Severomorsk		BR	TUE
	1906z	10 Aug	MXI	CW	Beacon	"S"	Severomorsk		BR	SAT
	1011z	20 Aug	MXI	CW	Beacon	"S"	Severomorsk		BR	TUE
16332.0	1930z	14 Jul	MXI	CW	Beacon	"C"	Moscow	Weak	BR	SUN
	0735z	16 Jul	MXI	CW	Beacon	"C"	Moscow	Weak	BR	TUE
	1907z	10 Aug	MXI	CW	Beacon	"C"	Moscow		BR	SAT
	1012z	20 Aug	MXI	CW	Beacon	"C"	Moscow		BR	TUE
16332.1	1930z	14 Jul	MXI	CW	Beacon	"A"	Astrakhan		BR	SUN
	1907z	10 Aug	MXI	CW	Beacon	"A"	Astrakhan		BR	SAT
20048.1	1905z	10 Aug	MX	CW	Beacon	"A"	Astrakhan		BR	SAT
20048.3	0727z	16 Jul	MXI	CW	Beacon	"K"		Ceased 0730z	BR	TUE

### Oddities

#### 'The Alarm'

4770	2009z	15 Jul	Marker	Signal	(The Alarm)		Weak	USB	BR	MON
	1918z	10 Aug	Marker	Signal	(The Alarm)			USB	BR	SAT

<b>S28</b>		<b>'The Buzzer'</b>							
4625	2011z	15 Jul	S28	NRH – (Confirmed via Buzzer Live feed YouTube)		USB		BR	MON
	1919z	10 Aug	S28	Usual Buzzer tones followed by multi-tone sig 1920z		USB		BR	SAT
	1907z	23 Aug	S28	Usual Buzzer tones		USB		BR	FRI
<b>S30</b>		<b>'The Pip'</b>							
3756	2013z	15 Jul	S30	'Pip' marker (Night freq)		USB		BR	MON
	1921z	10 Aug	S30	'Pip' marker (Night freq)	Weak	USB		BR	SAT
	1907z	23 Aug	S30	'Pip' marker (Night freq)	Good	USB		BR	FRI
<b>New Additional 'Pip' Markers</b>									
5780	(Out of sync with 3756kHz & 6216kHz) 2017z	15 Jul		'Pip' marker strong under digital signal		USB		BR	MON
6218	(Out of sync with 3756kHz & 5780kHz) 2015z	15 Jul		'Pip' marker strong under digital signal		USB		BR	MON
	1923z	10 Aug		'Pip' marker		USB		BR	SAT
6218.5//6220	1909z	23 Aug		'Pip' marker under intermittent digital sig (Also spurious? on 6220kHz)		USB		BR	FRI
6402.5//6404	1918z	23 Aug		'Pip' marker (Not synched with 6218.5//6220kHz)		USB		BR	FRI
<b>4327</b>		<b>'T' Marker (New Frequency – previously on 4183.7//4184)</b>							
	2022zz	15 Jul		T Marker Just audible under strong digital signal		USB		BR	MON

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

## Voice stations, Polytones and Hybrids

### E06

### July/Aug log:

From RNGB:

First /Third Thursday (repeats Friday)	0500z	13825kHz	0600z	15615kHz
04/07	'679' 804 53 73647 76792 39744 06987 09092 09541 48595 13980 46779 41645 02748 29373 29207 92695 10683 22970 19448 18373 27329 27114 42677 36801 79626 33019 12551 79235 13659 95202 97149 38486 30564 79776 04146 13543 03395 17511 89909 73828 92130 47630 22221 91515 99015 63266 51282 15349 31420 94507 68723 84407 64407 89985 59278 804 53 00000			
18/07	'679' 328 50 91825 21106 30715 70231 25652 28383 57362 52225 68194 40423 09018 41906 44243 11910 87794 68184 66008 14706 82078 93365 21955 50782 74939 73890 74722 10560 79600 56416 35315 12608 81643 07602 05745 85610 92643 01010 07321 78575 44907 09585 36773 10186 82024 77131 17393 93259 24902 67230 37382 95243 328 50 00000			
	0500z	13540kHz	0600z	16115kHz
01/08	'210' 468 53 23467 56966 27868 65978 64448 90832 90322 87566 07437 73515 54838 27660 05553 02623 44491 53822 12463 50764 18684 19869 56299 28892 58630 39077 14462 54053 74825 65259 37729 63707 47415 38387 97125 43824 35425 74455 51990 62934 15763 04266 62656 29326 37948 90829 96210 13574 05508 80071 98757 03582 19960 64519 32611 468 53 00000			
15/08	'210' 938 54 02606 85938 05185 97168 75022 74880 56737 51919 47684 02570 66214 00067 20264 64816 74850 33698 57758 84420 60792 39222 45602 30533 54618 68725 15205 90050 15114 12600 75823 70767 63741 65624 13733 40939 01230 03693 44606 34968 54742 13373 30066 79886 29038 41485 94327 22324 60081 56888 01874 60660 94526 41661 82115 12033 938 54 00000			

## PoSW's analysis and logs

First + Third Thursdays in the Month 0500 + 0600 UTC Schedule –repeated on the following day:-

18-July-24:- 0500 UTC, 13825 kHz, very weak signal on the predicted frequency for the first sending in this month, unreadable.  
0600 UTC, 15616 kHz, second sending also very weak, heard call “679” for a few seconds.

19-July-24, Friday:- 0500 UTC, 13825 kHz, just as weak as on Thursday, unreadable.  
0600 UTC, 15615 kHz, better, weak at first then became stronger, call “679”, DK/GC “328 328 50 50”, ended around 0612:30s UTC.

1-Aug-24:- missed 0500 UTC sending on 13540.  
0600 UTC, 16115 kHz, call “210”, DK/GC “468 468 53 53”, good signal, ended at 0613z.

2-Aug-24, Friday:- 0500 UTC, 13450 kHz, very weak signal, unreadable.  
0600 UTC, 16115 kHz, weak signal, difficult copy.

15-Aug-24:- 0500 UTC, 13540 kHz, “210”, DK/GC “938 938 54 54”, weak signal, difficult copy.  
0600 UTC, 16115 kHz, stronger.

16-Aug-24, Friday:- 0500 UTC, 13540 kHz, very weak signal.  
0600 UTC, 16110 kHz, weak at first, became stronger.

## E07

PoSW's logs and thoughts, followed by others' logs:

### Tuesday + Friday Schedule, 1500 UTC Start:-

9-July-24, Tuesday:- 1500 UTC, 16232 kHz, “231 231 231 000”, good signal.  
1520 UTC, 18332 kHz, weaker.

16-July, Tuesday:- 1500 UTC, 16232 kHz, “231 231 231 000”, weak.  
1520 UTC, 18332 kHz, very weak, only just readable.

19-July-24, Friday:- 1500 UTC, 16232 kHz, “231 231 231 000”, weak at first, became stronger just before the end after 1602z.  
1520 UTC, 18332 kHz, weak.

23-July-24, Tuesday:- 1500 UTC, 16232 kHz, very weak at first, became stronger around 1501:30s UTC, “231 231 231 1”, message, DK/GC “447 170”, higher group count than most, ended around 1516:30s UTC.  
1520 UTC, 18332 kHz and 1540 UTC, 19132 kHz, nothing readable from either the second or third sendings.

26-July-24, Friday:- 1500 UTC, 16232 kHz, 231” and “447 170” again. Good signal with fading at times. Went off air shortly after 1512z, came back with “231...1” call again, into 5Fs at 1513:49s approx. Again, nothing readable from the other two transmissions.

30-July-24, Tuesday:- 1500 UTC, 16232 kHz, “231 231 231 000”, weak signal, interference from a strong buzz extending from approx 16227 to 16250 kHz, such signals generally presumed to be someone's over-the-horizon-radar. Nothing readable at 1520 on 18332.

2-Aug-24, Friday:- 1500 UTC, 17453 kHz, “432 432 432 000”, strong signal.  
1520 UTC, 18353 kHz, slightly weaker.

6-Aug-24, Tuesday:- 1500 UTC, 17453 kHz, “432 432 432 1”, message, DK/GC “464 128” x 2, strong signal, ended just after 1513 UTC.  
1520 UTC, 18353 kHz, slightly weaker.  
1540 UTC, 19253 kHz, signal strength up and down, almost unreadable at times.

9-Aug-24, Friday:- 1500 UTC, 17453 kHz, “431” and “464 128” again, good signal.  
1520 UTC, 18353 kHz, slightly weaker.  
1540 UTC, 19252 kHz, good signal with some fading up and down.

13-Aug-24, Tuesday:- 1500 UTC, 17453 kHz, “432 432 432 000”, around a “6” on the S-meter.  
1520 UTC, 18353 kHz, also an indicated S6.

16-Aug-24, Friday:- 1500 UTC, 17453 kHz, “432 432 432 000”, good signal.  
1520 UTC, 18353 kHz, weaker, strong interference from one of those OTHR buzzers extending from about 18332 to 18356 kHz.

20-Aug-24, Tuesday:- 1500 UTC, 17453 kHz, very weak signal, could just hear “432 432 432 1”, nothing readable at 1520 or 1540 UTC.

23-Aug-24, Friday:- 1500 UTC, 17453 kHz, “432 432 432 1”, DK/GC “5120 144” x 2, in contrast with Tuesday this was a good signal, ended at 1514:30s UTC.  
1520 UTC, 18353 kHz, weak, interference from a pulse/buzz type signal, not the usual OTHR continuous noise but in bursts of about 3 seconds with a 1 second gap between them, extending from about 18347 to 18359 kHz.  
1540 UTC, 19253 kHz, good signal, strongest of the three.

27-Aug-24, Tuesday:- 1500 UTC, 17453 kHz, “432 432 432 000”, strong signal.  
1520 UTC, 18353 kHz, weaker.



### **Thursday + Saturday Schedule, 1410 UTC Start:-**

6-July-24, Saturday:- 1410 UTC, 13562 kHz, "441 441 441 1", DK/GC "440 121" x 2, signal strength varying.  
1430 UTC, 14862 kHz, weak.  
1450 UTC, 16162 kHz, also weak.

11-July-24, Thursday:- 1410 UTC, 13562 kHz, "441 441 441 000", weak.  
1430 UTC, 14862 kHz, weak.

13-July-24, Saturday:- "1410 UTC, 13562 kHz, "441 441 441 000", very weak.  
1430 UTC, 14862 kHz, stronger.

20-July-24, Saturday:- 1410 UTC, 13562 kHz, "441 441 441 1", message, very weak, unreadable.  
Nothing readable on 14862 at 1430z.  
1450 UTC, 16162 kHz, good signal unlike the first two sendings, DK/GC "524 86" x 2.

25-July-24, Thursday:- 1410 UTC, 13562 kHz, "441 441 441 000", weak.  
1430 UTC, 14862 kHz, very weak.

27-July-24, Saturday:- 1410 UTC, 13562 kHz and 1430 UTC, 14862 kHz, both very weak, "441 441 441 000".

1-Aug-24, Thursday:- nothing heard at 1410z on 13519 or at 1430z, 14819, predicted frequencies for August. Third sending better:-  
1450 UTC, 15919 kHz, "288 288 288 1", message, DK/GC "397 107" x 2, weak but clear.

8-Aug-24, Thursday:- nothing heard on any predicted frequency - or on 10-Aug-24, Saturday.

17-Aug-24, Saturday:- 1410 UTC, 13519 kHz, "288 288 288 1", message, DK/GC "2148 92" x 2, unusually strong for this one at first but gradually became weaker.  
Nothing readable at 1430z on 14819 kHz.  
1450 UTC, 15919 kHz, third sending weak but reasonably clear.

22-Aug-24, Thursday:- Nothing readable on any of the frequencies of this schedule and nothing readable on 24-Aug, Saturday.

29-Aug-24, Thursday:- Nothing readable from the 1410 or 1430 UTC transmissions and only a few seconds of copy from the 1450 sending:-  
1454 UTC, 15919 kHz, E07 voice emerged from the noise about four minutes in, then sank back down again.

Others' logs:

## **July/Aug log:**

### **Tuesday/Friday**

#### **July 2024**

<b>1500z</b>	<b>16232kHz</b>	<b>1520z</b>	<b>18332kHz</b>	<b>1540z</b>	<b>19132kHz</b>
02/07	231 000				Very weak
05/07	231 000				Weak
09/07	231 1 9679 152 72156 ... 86240 000 000				Weak
12/07	231 1 9679 152 72156 ... 86240 000 000				Weah [Dutch SDR]
16/07	231 000				1500z Weak QRM, 1520z Weak via Dutch QRM
19/07	231 000				1500z Weak, 1520z NRH
23/07	231 1 447 170 63497 ... 23269 000 000				Weak [1520z Dutch SDR, 1540z Finnish SDR] Very difficult conditions
26/07	231 1 447 170 63497 ... 23269 000 000				Weak, 1500z Strong QSB4, restarted gp 102
30/07	231 000				Weak. 1520z Dutch SDR

#### **August 2024**

<b>1500z</b>	<b>17453kHz</b>	<b>1520z</b>	<b>18353kHz</b>	<b>1540z</b>	<b>19253kHz</b>
02/08	432 000				Strong
06/08	432 1 464 128 24157 ... 96074 000 000				1500z Strong, rest Weak
09/08	432 1 464 128 24157 ... 96074 000 000				Weak
13/08	432 000				Weak
16/08	432 000				Weak
20/08	432 1 5120 144 60458 ... 86872 000 000				Weak, 1500z via Dutch SDR, 1540z via Finnish SDR

23/08	432 1 5120 144 60485 ... 86872 000 000	Weak
27/08	432 000	Weak
30/08	432 000	Weak

**Thursday/Saturday**

**July 2024**

1410z	13562kHz	1430z	14862kHz	1450z	16162kHz
04/07	441 1 440 120 55106 ... 38991 000 000				Weak
06/07	441 1 440 120 55106 ... 38991 000 000				Weak
11/07	441 000				Weak
13/07	441 000				Weak
18/07	441 1 524 86 03358 ... 68757 000 000				1410z Weak, rest Fair
20/07	1450z Unworkable, rest NRH				
25/07	441 000				Weak
27/07	441 000				1410z Weak, 1430z Weak via dutch SDR

**August 2024**

1410z	13519kHz	1430z	14819kHz	1450z	15919kHz
03/08	288 1 397 107 89896 ... 84159 000 000				Weak, 1450z QRM
08/08	288 000				Weak
10/08	288 000				Weak
15/08	288 1 2148 92 28819 ... 83104 000 000				Weak
22/08	288 000				Weak
24/08	288 000				Weak
29/08	288 1 9317 111 15723 ... 34908 000 000				1450z Fair, QSB, rest Weak
31/08	288 1 9317 111 15723 ... 34908 000 000				1430z Weak, rest Fair, QSB3 present 1410z.

# E11 & E11a log July/August

**A note from Ary 13th July.**

Polish 11 seems to have serious problems. A number of E11, S11a, P03 and F03 were missing in the past week, several messages were cut off during the transmission, and today all scheduled transmissions were silent. They also had problems last month on several days.

Now on to the logs:

**E11 & E11a log July/Aug**

4783kHz	1610z	06/07 [390/00] Out 1613z S3	(Dutch SDR)	Malc	SAT
	1610z	17/07 [399/00] Out 1613z S4	(Dutch SDR)	Malc	WED
	1610z	24/07 [390/00] Out 1613z S3+QRM		Malc	WED
	1610z	27/07 [392/00] Out 1613z S4	(Dutch SDR)	Malc	SAT
	1610z	03/08 [394/00] Out 1613z S5	(Dutch SDR)	Malc	SAT
	1610z	10/08 [391/00] Out 1613z S4	(Dutch SDR)	Malc	SAT
	1610z	14/08 [396/00] Out 1613z S4	(Dutch SDR)	Malc	WED
	1610z	17/08 [393/00] Out 1613z S3		Malc	SAT
	1610z	21/08 [392/40 76310.....02982] Out 1621z S5	(Dutch SDR)	Malc	WED
	1610z	28/08 [394/00] Out 1613z S2		Malc	WED
	1610z	31/08 [399/00] Out 1613z S2		Malc	SAT
5082kHz	1645z	06/07 [269/00] Out 1648z S4	(Dutch SDR)	Malc	SAT
	1645z	07/07 [368/00] Out 1748z S3	(Dutch SDR)	Malc	SUN
	1645z	27/07 [360/00] Out 1648z S2		Malc	SAT
	1645z	03/08 [367/00] Out 1648z S3	(Dutch SDR)	Malc	SAT
	1645z	04/08 [363/00] Out 1648z S2		Malc	SUN
	1645z	10/08 [364/00] Out 1648z S2		Malc	SAT

	1645z	11/08 [367/00] Out 1648z S2	(Dutch SDR)		Malc	SUN
	1645z	17/08 [363/36 86946.....15301] Out 1656z S5	(Dutch SDR)		Malc	SAT
	1645z	24/08 [360/00] Out 1648z S2			Malc	SAT
	1645z	25/08 [363/00] Out 1648z S2			Malc	SUN
	1645z	31/08 [366/00] Out 1648z S2			Malc	SAT
5231kHz	1605z	02/07 [230/00] Out 1608z S2	(Dutch SDR)		Malc	TUE
	1605z	07/07 [235/00] Out 1608z S3	(Dutch SDR)		Malc	SUN
	1605z	09/07 [237/00] Out 1608z S3	(Dutch SDR)		Malc	TUE
	1605z	14/07 [233/00] Out 1608z S3	(Dutch SDR)		Malc	SUN
	1605z	23/07 [232/31 22613.....34343] Out 1614z S3	(Finnish SDR)		Malc	TUE
	1605z	30/07 [236/00] Out 1608z S3	(Dutch SDR)		Malc	TUE
	1605z	04/08 [233/00] Out 1608z S4	(Dutch SDR)		Malc	SUN
	1605z	06/08 [230/32 77361.....83251] Out 1715z S3	(Dutch SDR)		Malc	TUE
	1605z	13/08 [237/00] Out 1608z S5	(Finnish SDR)		Malc	TUE
	1605z	18/08 [238/00] Out 1608z S4	(Dutch SDR)		Malc	SUN
	1605z	20/08 [233/00] Out 1608z S3	(Dutch SDR)		Malc	TUE
	1605z	25/08 [232/00] Out 1608z S2			Malc	SUN
	1605z	27/08 [231/00] Out 1608z S5	(Dutch SDR)		Malc	TUE
5409kHz	2000z	04/07 [521/00] Out 2003z S4			Malc	THU
	2000z	07/07 [522/00] Out 2003z S4			Malc	SUN
	2000z	25/07 [521/00] Out 2003z S4			Malc	THU
	2000z	01/08 [520/00] Out 2003z S4			Malc	THU
	2000z	04/08 [520/00] Out 2003z S9			Malc	SUN
	2000z	08/08 [522/00] Out 2003z S6			Malc	THU
	2000z	11/08 [525/00] Out 2003z S5			Malc	SUN
	2000z	18/08 [521/00] Out 2003z S5			Malc	SUN
	2000z	22/08 [522/37 44486.....04719] Out 2011z S9			Malc	THU
	2000z	29/08 [528/00] Out 2003z S7			dMHz	THU
5737kHz	1300z	04/07 [312/00] Out 1303z S2	(Dutch SDR)		Malc	THU
	1300z	11/07 [314/00] Out 1303z S2	(Dutch SDR)		Malc	THU
	1300z	15/07 [310/00] Out 1303z S3	(Finnish SDR)		Malc	MON
	1300z	18/07 [313/00] Out 1303z S2	(Dutch SDR)		Malc	THU
	1300z	25/07 [311/00] Out 1208z S2	(Dutch SDR)		Malc	THU
	1300z	05/08 [310/00] Out 1303z S2	(Dutch SDR)		Malc	MON
	1300z	08/08 [316/00] Fair			dHMz	THU
	1300z	12/08 [315/00] Out 1303z S2	(Dutch SDR)		Malc	MON
	1300z	15/08 [313/00] Out 1303z S2	(Dutch SDR)		Malc	THU
	1300z	29/08 [313/00] Out 1303z S3	(Dutch SDR)		Malc	THU
6252kHz	0820z	04/07 [435/00] Out 0823z S2	(Dutch SDR)		Malc	THU
	0820z	05/07 [432/00] Out 0823z S2			Malc	FRI
	0820z	11/07 [436/00] Out 0823z S3	(Dutch SDR)		Malc	THU
	0820z	12/07 [432/00 Failed] 0821z S4	(Dutch SDR)		Malc	FRI
	0820z	18/07 [439/00] Out 0823z S2	(Dutch SDR)		Malc	THU
	0820z	25/07 [438/00] Out 0823z S2	(Dutch SDR)		Malc	THU
	0820z	26/07 [431/00] Fair			RNGB	FRI
	0820z	01/08 [435/33 91926 39209 51354 38078 73881 99087 21945 56263.....41611 11073] Out 0830z			Ary, Malc	THU
	0820z	08/08 [432/00] Out 0823z S4	(Dutch SDR)		Malc	THU
	0820z	09/08 [430/00] Out 0823z S2	(Dutch SDR)		Malc	FRI
	0820z	15/08 [439/00] Out 0823z S3	(Dutch SDR)		Malc	THU
	0820z	16/08 [430/00] Out 0823z S2	(Dutch SDR)		Malc	FRI
	0820z	22/08 [432/00] Out 0823z S5	(Finnish SDR)		Malc	THU
	0820z	23/08 [435/00] Out 0823z S2	(Dutch SDR)		Malc	FRI
	0820z	29/08 [432/00] Out 0823z S2			Malc	THU
	0820z	30/08 [438/00] Out 0823z S3	(Dutch SDR)		Malc	FRI
6923kHz	0930z	03/07 [270/00] Out 0933z S2	(Dutch SDR)		Malc	WED
	0930z	04/07 [271/00] Out 0933z S2			Malc	THU
	0930z	10/07 [279/00] Out 0933z S3	(Dutch SDR)		Malc, HfD	WED
	0930z	17/07 [276/00] Out 0933z S3	(Dutch SDR)		Malc	WED
	0930z	18/07 [271/00] Out 0933z S3	(Dutch SDR)		Malc	THU
	0930z	25/07 [277/00] Out 0933z S2			Malc	THU
	0930z	31/07 [271/00] Out 0933z S4	(Dutch SDR) S4		Malc	WED
	0930z	07/08 [277/00] Out 0933z S3	(Dutch SDR)		Malc	WED
	0930z	08/08 [277/00]			dHMz	THU
	0930z	14/08 [278/00] Out 0933z S2			Malc	WED
	0930z	21/08 [271/38 31079.....23285] Out 0941z S3	(Dutch SDR)		Malc	WED
	0930z	28/08 [270/00] Out 0933z S2			Malc	WED
	0930z	29/08 [270/00] Out 0933z S3	(Dutch SDR)		Malc	THU

7377kHz	0700z	07/07 [490/00] Out 0703z S2	Malc	SUN
	0700z	14/07 [498/00] Good	RNGB, Malc, Ary	SUN
	0700z	27/07 [491/00] Out 0703z S2	Malc	SAT
	0700z	03/08 [498/00] Weak	RNGB, Malc	SAT
	0700z	04/08 [496/00] Good	RNGB, Malc	SUN
	0700z	10/08 [496/00] Out 0703z S2	Malc	SAT
	0700z	11/08 [498/00] Out 0703z S3	Malc	SUN
	0700z	17/08 [497/33 16467.....05927] Out 0710z S5 (Dutch SDR)	Malc	SAT
	0700z	24/08 [498/00] Out 0703z S3	Malc	SAT
	0700z	25/08 [496/00] Out 0703z S2	Malc	SUN
0700z	31/08 [490/00] Out 0703z S2	Malc	SAT	
7600kHz	1900z	04/07 [640/00] Out 1903z S4	Malc	THU
	1900z	08/07 [644/00] Out 1903z S5 (Dutch SDR)	Malc	MON
	1900z	11/07 [649/00] Out 1903z S5	Malc	THU
	1900z	15/07 [648/38 35397.....60915] Out 1911z S7	Malc	MON
	1900z	22/07 [641/00] Out 1903z S8	Malc	MON
	1900z	25/07 [647/00] Out 1903z S3	Malc	THU
	1900z	29/07 [643/00] Out 1903z S7	Malc	MON
	1900z	01/08 [640/00] Out 1903z S4	Malc	THU
	1900z	05/08 [646/00] Out 1903z S5	Malc	MON
	1900z	08/08 [641/00] Out 1903z S7	Malc	THU
	1900z	12/08 [644/00] Out 1903z S3 (Dutch SDR)	Malc	MON
	1900z	19/08 [646/32 11810.....71193] Out 1910z S9	Malc	MON
	1900z	26/08 [644/00] Out 1903z S5	Malc	MON
1900z	29/08 [649/00] Out 1903z S5	dMHz	THU	
7863kHz	1715z	03/07 [972/00] Out 1718z S5	Malc	WED
	1715z	05/07 [976/00] Out 0718z S3	Malc	FRI
	1715z	10/07 [970/00] Out 1718z S3	Malc	WED
	1715z	12/07 [974/00] Out 1718z S3	Malc	FRI
	1715z	17/07 [470/00] Out 1718z S3	Malc	WED
	1715z	26/07 [975/33 63765.....13540] Out 1725z S3	Malc	FRI
	1715z	02/08 [976/00] Out 1718z S6	Malc	FRI
	1715z	07/08 [974/00] Out 1718z S3	Malc	WED
	1715z	09/08 [976/00] Out 1718z	dMHz, Malc	FRI
	1715z	14/08 [972/00]	Gary H, Malc	WED
	1715z	16/08 [976/00] Out 1718z S3	Malc	FRI
	1715z	23/08 [976/00] Out 1718z S4	Malc	FRI
	1715z	28/08 [976/36 70614.....50229] Out 1725z S6	Malc	WED
8088kHz	1730z	04/07 [414/00] Out 1733z S2+QRM	Malc	THU
	1730z	11/07 [413/00] Out 1903z S3	Malc	THU
	1730z	18/07 [416/35 35479.....07485] Out 1740z S4	Malc	THU
	1730z	25/07 [411/00] Out 1733z S4	Malc	THU
	1730z	08/08 [414/34 01883.....75235] Out 1740z S4	Malc	THU
	1730z	15/08 [410/00] Out 1733z S3	Malc	THU
	1730z	22/08 [413/00] Out 1733z S4	Malc	THU
	1730z	29/08 [411/00] Out 1733z S4	Malc	THU
8091kHz	0645z	02/07 [512/00] Out 0648z S3	Malc	TUE
	0645z	04/07 [512/00] Good	RNGB	THU
	0645z	09/07 [512/00] Out 0648z S3	Malc	TUE
	0645z	18/07 [512/00] Out 0648z S2	Malc	THU
	0645z	23/07 [515/00] Out 0648z S2	Malc	TUE
	0645z	25/07 [511/00] Out 0648z S3	Malc	THU
	0645z	30/07 [511/00] Out 0648z S9	Malc	TUE
	0645z	08/08 [514/35 05504.....58260] Out 0655z S3	Malc	THU
	0645z	13/08 [514/00] Out 0648z S3	Malc	TUE
	0645z	15/08 [517/00] Out 0648z S5	Malc	THU
	0645z	20/08 [515/00] Out 0648z S3	Malc	TUE
	0645z	22/08 [515/00] Out 0648z S2	Malc	THU
	0645z	27/08 [519/00] Good	RNGB	TUE
0645z	29/08 [514/00] Out 0648z S3	Malc	THU	
8274kHz	1205z	02/07 [465/00] Out 1208z S2	Malc	TUE
	1205z	10/07 [465/00] Out 1208z S4 (Polish SDR) S4	Malc, HfD	WED
	1205z	17/07 [466/00] Out 1208z S2	Malc	WED
	1205z	23/07 [465/00] Out 1208z S5 (Dutch SDR)	Malc	TUE
	1205z	24/07 [466/00] Out 1208z S3 (Dutch SDR)	Malc	WED
	1205z	30/07 [464/37 82769.....71756] Out 1215z S4 (Dutch SDR)	Malc	TUE

	1205z	06/08 [464/00] Out 1208z S3		Malc	TUE
	1205z	07/08 [461/00] Out 1208z S4 (Dutch SDR)		Malc	WED
	1205z	14/08 [462/36 40539.....68569] Out 1215z S6 (Finnish SDR)		Malc	WED
	1205z	20/08 [469/00] Out 1208z S5 (Dutch SDR)		Malc	TUE
	1205z	21/08 [465/00] Out 1208z S4 (Dutch SDR)		Malc	WED
	1205z	27/08 [465/00] Out 1208z S3 (Dutch SDR)		Malc	TUE
	1205z	28/08 [461/00] Out 1208z S2		Malc	WED
8680khz	0700z	02/07 [579/00] Out 0703z S4		Malc	TUE
	0700z	05/07 [577/00] Out 0703z S3		Malc	FRI
	0700z	09/07 [576/32 75587..... 53837] Out 0710z S3		Malc	TUE
	0700z	16/07 [577/00] Strong		RNGB	TUE
	0700z	19/07 [577/00] Strong		RNGB	FRI
	0700z	23/07 [576/00] Out 0703z S3		Malc	TUE
	0700z	26/07 [579/00] Good		RNGB	FRI
	0700z	30/07 [577/00] Out 0703z S7		Malc	TUE
	0700z	02/08 [575/00] Fair		RNGB	FRI
	0700z	06/08 [574/38 61387.....80785] Out 0711z S3		Malc	TUE
	0700z	13/08 [574/00] Out 0703z S3		Malc	TUE
	0700z	16/08 [573/00] Fair		RNGB, Malc	FRI
	0700z	20/08 [571/00] Out 0703z S3		Malc	TUE
	0700z	23/08 [570/00] Out 0703z S3		Malc	FRI
	0700z	27/08 [570/00] Strong		RNGB	TUE
	0700z	30/08 [579/00] Out 0703z S3		Malc	FRI
9150kHz	0600z	14/07 [358/00]		Ary	SUN
	0600z	19/07 [354/00] Strong		RNGB	FRI
	0600z	02/08 [351/00] Good		RNGB	FRI
9610kHz	0645z	01/07 [266/00] Good		RNGB	MON
	1910z	05/07 [610/00] Out 1913z S6		Malc	FRI
	1910z	07/07 [612/00] Out 1913z S7		Malc	SUN
	0745z	08/07 [262/00] Out 0748z S3		Malc	MON
	1910z	12/07 [617/38 52101.....73174 ] Out 1920z S5		Malc	FRI
	0745z	15/07 [260/00] Out 748z S5 QSB3		Malc	MON
	0745z	22/07 [267/00] Out 0748z S5		Malc	MON
	1910z	26/07 [612/00] Out 1913z S5		Malc	FRI
	0745z	29/07 [262/00] Out 0748z S5		Malc	MON
	1910z	04/08 [617/00] Out 1913z S9		Malc	SUN
	0745z	05/08 [260/00] Out 0748z S4		Malc	MON
	1910z	09/08 [617/00] Out 1913z S8		Malc	FRI
	1910z	11/08 [611/00] Out 1913z S9		Malc	SUN
	0745z	12/08 [261/00] Out 0748z S3		Malc	MON
	1910z	16/08 [617/39 95579.....27564] Out 1921z S9		Malc	FRI
	0745z	19/08 [269/36 64403.....63326] Out 0756z S5		Malc	MON
	1910z	23/08 [618/00] Out 1913z S9		Malc	FRI
	1910z	25/08 [617/00] Out 1913z S7		Malc	SUN
	0745z	26/08 [262/00] Out 0748z S4		Malc	MON
	1910z	30/08 [610/00] Out 1913z S9		Malc	FRI
10210kHz	1045z	10/07 [696/00]		HfD	WED
	1045z	15/07 [69?/ 1046 Failed]		Malc	MON
	1045z	17/07 [697/31 18291.....11068] Out 1055z S4		Malc	WED
	1045z	22/07 [691/00] Out 1048z S5		Malc	MON
	1045z	24/07 [696/00] Out 1048z S4		Malc	WED
	1045z	29/07 [696/00] Out 1048z S3		Malc	MON
	1045z	05/08 [693/00] Out 1048z S3		Malc	MON
	1045z	07/08 [693/00] Out 1048z S3		Malc	WED
	1045z	12/08 [696/32 58653.....98947] Out 1055z S4 (Dutch SDR)		Malc	MON
	1045z	26/08 [691/00] Out 1048z S6		Malc	MON
	1045z	28/08 [692/00] Out 1048z S3+QRM		Malc	WED
10356kHz	1530z	04/07 [263/00] Out 1533z S3		Malc	THU
	1530z	11/07 [276/38 54637.....81403] Out 1541z S5		Malc, Gary H	THU
	1530z	18/07 [262/00] Out 1533z S4		Malc	THU
	1530z	25/07 [266/00] Out 1533z S3		Malc	THU
	1530z	08/08 [261/00] Out 1533z S5		Malc	THU
	1530z	15/08 [262/00]		Gary H	THU
	1530z	22/08 [269/36 64403.....63326] Out 1541z S7		Malc	THU
	1530z	29/08 [262/00]		Gary H	THU

11116khz	0900z	01/07 [530/00] Good	RNGB	MON
	0900z	03/07 [536/00] Good	RNGB	WED
	0900z	08/07 [534/00] Out 0903z S5	Malc	MON
	0900z	10/07 [532/30 38127 63500 54764 04912 82391 42410... to grp23 88699 then TX Fail] 0906z S4	Ary, Malc	WED
	0900z	15/07 [530/00] Out 0903z S5	Malc	MON
	0900z	17/07 [538/00] Out 0903z S4	Malc	WED
	0900z	22/07 [538/00] Out 0903z S7	Malc	MON
	0900z	24/07 [536/00] Out 0903z S4	Malc	WED
	0900z	29/07 [532/00] Out 0903z S4	Malc	MON
	0900z	31/07 [533/00] Out 0903z S3	Malc	WED
	0900z	05/08 [538/00] Out 0903z S3	Malc	MON
	0900z	07/08 [538/00] Out 0903z S3	Malc	WED
	0900z	12/08 [537/35 53484.....01445] Out 0910z S4	Malc	MON
	0900z	19/08 [537/00] Out 0903z S3	Malc	MON
	0900z	21/08 [536/00] Out 0903z S4	Malc	WED
	0900z	26/08 [536/00] Out 0903z S4	Malc	MON
	0900z	28/08 [530/00] Out 0903z S3	Malc	WED
12153kHz	1000z	02/07 [308/00] Good	RNGB	TUE
	1000z	09/07 [309/00] Out 1003z S2	Malc	TUE
	1000z	12/07 [306/00] Out 1003z S4	Malc	FRI
	1000z	23/07 [305/00] Out 1003z S2	Malc	TUE
	1000z	26/07 [306/00] Out 1003z S5	Malc	FRI
	1000z	30/07 [307/00] Out 1003z S4	Malc	TUE
	1000z	02/08 [309/00] Out 1003z S4	Malc	FRI
	1000z	09/08 [307/00] Out 1003z S6	Malc	FRI
	1000z	13/08 [300/00] Out 1003z S4	Malc	TUE
	1000z	20/08 [309/00] Out 1003z S5	Malc	TUE
	1000z	23/08 [305/00] Out 1003z S5	Malc	FRI
	1000z	27/08 [302/25 18069.....83019] Out 1008z S4	Malc	TUE
12229kHz	1815z	07/07 [925/00] Out 1818z S4	Malc	SUN
	1815z	12/07 [922/00] Out 0748z S6	Malc	FRI
	1815z	14/07 [924/00] Out 1818z S7	Malc	SUN
	1815z	26/07 [924/00] Out 1818z S9	Malc	FRI
	1815z	02/08 [925/00] Out 1818z S5	Malc	FRI
	1815z	04/08 [920/00] Out 1818z S3	Malc	SUN
	1815z	09/08 [916/00] Out 1818z S9	Malc	FRI
	1815z	11/08 [920/00] Out 1818z S9	Malc	SUN
	1815z	16/08 [929/33 46141.....01340] Out 1825z S9+10	Malc	FRI
	1815z	23/08 [920/00] Out 1818z S9	Malc	FRI
	1815z	25/08 [929/00] Out 1818z S9	Malc	SUN
	1815z	30/08 [926/00] Out 1818z S9	Malc	FRI
12530khz	0715z	02/07 [639/38 59939 79202 92122 54925 36828 86952 22877 49778.....58463 23083] Good	RNGB	TUE
	0715z	09/07 [639/00] Out 0718z S2	Malc	TUE
	0715z	16/07 [631/00] Good	RNGB	TUE
	0715z	19/07 [630/00] Good	RNGB	FRI
	0715z	23/07 [639/00] Out 0718z S4	Malc	TUE
	0715z	26/07 [634/00] Good	RNGB	FRI
	0715z	30/07 [639/00] Out 0718z S3	Malc	TUE
	0715z	02/08 [635/00] Good	RNGB	FRI
	0715z	06/08 [635/00] Out 0718z S3	Malc	TUE
	0715z	09/08 [637/00] Out 0715z S7	Malc	FRI
	0715z	13/08 [635/00] Out 0718z S4	Malc	TUE
	0715z	16/08 [633/00] Fair	RNGB, Malc	FRI
	0715z	20/08 [635/34 45336.....83442] Out 0725z S5	Malc	TUE
	0715z	27/08 [637/00] Out 0718z S6	Malc	TUE
	0715z	30/08 [631/00] Out 0718z S7	Malc	FRI
12815kHz	0845z	01/07 [710/37 53694 16045 70847 54641 13805 42773 84900 96541.....66759 61067] Good	RNGB	MON
	0845z	08/07 [719/00] Out 0848z S2	Malc	MON
	0845z	10/07 [715/33 92156 97756 69018 37330 42228..... to grp24 26636 then TX Fail] 0852z S3	Ary, Malc	WED
	0845z	15/07 [711/00] Out 0848z S6	Malc	MON
	0845z	17/07 [719/00] Out 0848z S4	Malc	WED
	0845z	22/07 [711/00] Out 0848z S6	Malc	MON
	0845z	24/07 [718/00] Out 0848z S7	Malc	WED
	0845z	29/07 [713/00] Out 0848z S6	Malc	MON
	0845z	31/07 [715/00] Out 0848z S4+QRM	Malc	WED
	0845z	05/08 [716/00] Out 0848z S8	Malc	MON
	0845z	07/08 [714/00] Strong	dMHz	WED
	0845z	14/08 [715/32 42466.....60217] Out 0855z S2	Malc	WED



	0845z	19/08 [714/00] Out 0848z S5	Malc	MON
	0845z	21/08 [715/00] Out 0848z S5	Malc	WED
	0845z	26/08 [713/00] Out 0848z S6	Malc	MON
	0845z	28/08 [713/00] Out 0838z S2	Malc	WED
12984kHz	1430z	02/07 [912/36 28234.....98808] Out 1441z S5	Malc	TUE
	1430z	09/07 [918/00] Out 1433z S3	Malc	TUE
	1430z	23/07 [910/00] Out 1433z S3	Malc	TUE
	1430z	27/07 [918/00] Out 1430z S5	Malc	SAT
	1430z	30/07 [918/00] Out 1433z S4	Malc	TUE
	1430z	03/08 [919/00] Out 1433z S4	Malc	SAT
	1430z	06/08 [912/34 77371 80014 06401 53766 69555 98782 75940.....89264 02814]	dMHz	TUE
	1430z	13/08 [910/00] Out 1433z S4	Malc	TUE
	1430z	17/08 [911/00] Out 1433z S5	Malc	SAT
	1430z	20/08 [915/00] Out 1433z S7	Malc, Gary H	TUE
	1430z	24/08 [915/00] Out 1433z S7	Malc	SAT
	1430z	27/08 [918/00] Out 1433z S8	Malc	TUE
	1430z	31/08 [912/00] Out 1433z S9	Malc	SAT
14410kHz	1745z	07/07 [240/00] Out 1748z S6	Malc	SUN
	1745z	14/07 [248/00] Out 1748z S7	Malc	SUN
	1745z	15/07 [249/35 37507..... 42499] Out 1755z S7	Malc	MON
	1745z	22/07 [244/00] Out 1748z S3	Malc	MON
	1745z	29/07 [246/00] Out 1748z S9	Malc	MON
	1745z	04/08 [242/00] Out 1748z S2+QRM	Malc	SUN
	1745z	05/08 [244/31 14521..... 41257] Out 1754z S9	Malc	MON
	1745z	12/08 [244/00] Out 1748z S3 (Finnish SDR)	Malc	MON
	1745z	18/08 [246/00] Out 1748z S2+QRM	Malc	SUN
	1745z	19/08 [240/00] Out 1748z S4	Malc	MON
	1745z	25/08 [245/00] Out 1748z S9	Malc	SUN
	1745z	26/08 [248/00] Out 1748z S9	Malc	MON
14575kHz	1645z	04/07 [334/00] Out 1648z S6	Malc	THU
	1645z	09/07 [231/00] Out 1648z S3	Malc	TUE
	1645z	11/07 [332/00] Out 1648z S4	Malc	THU
	1645z	18/07 [331/00] Out 1648z S5	Malc	THU
	1645z	23/07 [338/00] Out 1648z S3	Malc	TUE
	1645z	25/07 [332/00] Out 1648z S2	Malc	THU
	1645z	30/07 [337/00] Out 1648z S4	Malc	TUE
	1645z	08/08 [330/32 79918.....58660] Out 1655z S3	Malc	THU
	1645z	13/08 [334/00] Out 1648z S5	Malc	TUE
	1645z	15/08 [330/00] Out 1648z S9	Malc	THU
	1645z	20/08 [334/00] Out 1648z S4 (Finnish SDR)	Malc	TUE
	1645z	22/08 [332/00] Out 1648z S2+QRM	Malc	THU
	1645z	27/08 [338/00]	Gary H	TUE
	1645z	29/08 [332/00] Out 1648z S5	Malc	THU
14940khz	0745z	02/07 [229/31 59134 52299 75706 90719 66603 73503 85580.....32003 57241]Good	RNGB	TUE
	0745z	11/07 [229/00] Good	RNGB	THU
	0745z	18/07 [224/00] Out 0748z S5	Malc	THU
	0745z	23/07 [223/40 58699..... 64091] Out 0756z S6	Malc	TUE
	0745z	30/07 [228/00] Out 0748z S4	Malc	TUE
	0745z	06/08 [224/00] Good	RNGB	TUE
	0745z	08/08 [221/00] Out 0748z S9	Malc	THU
	0745z	06/08 [224/00] Out 0748z S4	Malc	TUE
	0745z	13/08 [227/00] Good	RNGB	TUE
	0745z	15/08 [229/00] Out 0748z S9	Malc	THU
	0745z	20/08 [228/00] Weak	RNGB	TUE
	0745z	20/08 [228/00] Out 0748z S6	Malc	TUE
	0745z	22/08 [225/00] Out 0748z S4	Malc	THU
	0745z	27/08 [228/33 08137 40618 14514 99285 36201 26356 27883 80427.....81799 08289]	RNGB, Malc	THU
15720kHz	0745z	03/07 [343/00] Fair	RNGB	WED
	0745z	05/07 [340/00] Out 0748z S2+QRM	Malc	FRI
	0745z	10/07 [340/31 30644..... to group 14 TX Fail] 0751z S2+QRM	Malc	WED
	0745z	17/07 [340/00] Out 0748z S2+QRM	Malc	WED
	0745z	24/07 [349/00] Out 0748z S7	Malc	WED
	0745z	26/07 [342/00] Out 0748z S2+QRM	Malc	FRI
	0745z	31/07 [346/00] Out 0748z S4+QRM	Malc	WED
	0745z	02/08 [344/00] Fair with QRM	RNGB	FRI
	0745z	07/08 [343/00] Out 0748z S3+QRM	Malc	WED
	0745z	09/08 [346/00] Out 0748z S4	Malc	FRI

	0745z	14/08 [348/00] Weak	RNGB	WED
	0745z	16/08 [342/00] Out 0748z S4	Malc	FRI
	0745z	21/08 [344/00] Out 0748z S4+QRM	Malc	WED
	0745z	23/08 [342/00] Out 0748z S4+QRM	Malc	FRI
	0745z	30/08 [347/36 00665.....79387] Out 0748z S3+QRM	Malc	FRI
15915kHz	0715z	03/07 [753/00] Good	RNGB	WED
	0715z	08/07 [755/00] Good	RNGB	MON
	0715z	08/07 [755/00] Out 0718z S3	Malc	MON
	0715z	10/07 [757/00] Out 07:18z S2+QRM	Malc	WED
	0715z	15/07 [759/00] Out 0718z S3	Malc	MON
	0715z	17/07 [753/00] Good	RNGB	WED
	0715z	22/07 [751/36 01909 14656 85982 46071 40920 49243 29443.....37489 34219 75119] QRM	RNGB, Malc	MON
	0715z	29/07 [754/00] Out 0718z S4	Malc	MON
	0715z	31/07 [754/00] Out 0718z S3	Malc	WED
	0715z	05/08 [751/37 28029.....70963] Out 0726z S4	Malc	MON
	0715z	12/08 [752/00] Out 0718z S3	Malc	MON
	0715z	14/08 [753/00] Very weak	RNGB	WED
	0715z	19/08 [755/00] Weak	RNGB	MON
	0715z	21/08 [755/00] Weak	RNGB	WED
	0715z	26/08 [753/00] Out 0718z S2	Malc	MON
	0715z	28/08 [757/00] Out 0718z S2	Malc	WED
16335kHz	0830z	01/07 [182/00] Strong	RNGB	MON
	0830z	05/07 [185/00] Out 0833z S4	Malc	FRI
	0830z	08/07 [180/00] Out 0833z S5	Malc	MON
	0830z	12/07 [189/35 58929.....20945] Out 0840z S4	Malc	FRI
	0830z	15/07 [189/00] Out 0833z S5	Malc	MON
	0830z	22/07 [189/00] Out 0833z S5	Malc	MON
	0830z	26/07 [182/00] Out 0833z S6	Malc	FRI
	0830z	29/07 [188/00] Out 0833z S6	Malc	MON
	0830z	02/08 [183/00] Out 0833z S4	Malc	FRI
	0830z	05/08 [183/39 79448.....48863] Out 0841z S4	Malc	MON
	0830z	12/08 [183/00] Out 0833z S3	Malc	MON
	0830z	16/08 [180/00] Out 0833z S4	Malc	FRI
	0830z	19/08 [180/00] Weak	RNGB	MON
	0830z	23/08 [188/00] Out 0833z S5	Malc	FRI
	0830z	26/08 [183/00] Out 0833z S9	Malc	MON
	0830z	30/08 [181/00] Out 0833z S5+QRM	Malc	FRI
17378kHz	0820z	02/07 [130/00] Out 0823z S3	Malc	TUE
	0820z	03/07 [136/00] Good	RNGB, Malc	WED
	0820z	09/07 [134/00] Good	RNGB, Malc	TUE
	0820z	17/07 [133/00] Out 0823z S4	Malc	WED
	0820z	24/07 [130/00] Out 0823z S3	Malc	WED
	0820z	30/07 [133/37 20130.....38654] Out 0831z S4	Malc	TUE
	0820z	07/08 [133/00] Out 0823z S4	Malc	WED
	0820z	06/08 [130/00] Out 0823z S2	Malc	TUE
	0829z	13/08 [132/34 35178 49348 91749 22193 20232 89237 41325 94283.....78712 50839] Fair	RNGB	TUE
	0820z	20/08 [138/00] Out 0823z S3	Malc	TUE
	0820z	21/08 [135/00] Out 0823z S3	Malc	WED
	0820z	27/08 [136/00] Out 0823z S8	Malc	TUE
19184kHz	0845z	02/07 [159/00] Weak	RNGB	TUE
	0845z	04/07 [151/00] Out 0848z S3	Malc	THU
	0820z	09/07 [154/00] Out 0823z S2	Malc	TUE
	0845z	18/07 [152/00] Out 0848z S3	Malc	THU
	0845z	25/07 [159/25 36755.....39893] Out 0853z S2	Malc	THU
	0845z	30/07 [159/00] Out 0848z S4	Malc	TUE
	0845z	01/08 [151/00] Good	RNGB	THU
	0845z	06/08 [157/00] Out 0848z S3	Malc	TUE
	0845z	08/08 [150/00] Out 0848z S5	Malc	THU
	0845z	13/08 [156/00] Out 0848z S4	Malc	TUE
	0845z	15/08 [155/00] Out 0848z S3	Malc	THU
	0845z	20/08 [152/00] Out 0848z S4	Malc	TUE
	0845z	22/08 [156/00] Out 0848z S4	Malc	THU
	0845z	27/08 [155/34 86336.....95949] Out 0855z S3	Malc	TUE
20170kHz	0600z	24/07 [942/00] Weak	RNGB	WED

Peter offers:

A small selection of some of the stronger transmissions received from this busy number station during July and August. As always the vast majority are of the "oblique zero zero" no message format, lasting just over three minutes.

#### 5409 kHz 2000 UTC

07-July-24, Sun:- "522/00"  
14-July-24, Sun:- "524/40", message, "Out" at 2011:20s UTC.  
21-July-24, Sun:- "525/00"  
25-July-24, Thu:- "521/00"  
28-July-24, Sun:- "527/00"  
01-Aug-24, Thu:- "520/00"  
04-Aug-24, Sun:- "520/00"  
08-Aug-24, Thu:- "522/00"  
11-Aug-24, Sun:- "525/00"  
15-Aug-24, Thu:- "520/00"  
22-Aug-24, Thu:- "522/37", message, "Out" at 2010:39s UTC.

#### 7600 kHz 1900 UTC

In the summer months of the past couple of years there was always a broadcast station on this frequency although it was usually weaker than the E11 number station. No sign of it in 2024.

08-July-24, Mon:- "644/00"  
11-July-24, Thu:- "649/00"  
15-July-24, Mon:- "648/38", message, "Out" at 1910:50s UTC.  
22-July-24, Mon:- "641/00"  
25-July-24, Thu:- "647/00"  
29-July-24, Mon:- "643/00"  
01-Aug-24, Thu:- "640/00"  
05-Aug-24, Mon:- "646/00"  
08-Aug-24, Thu:- "641/00"  
15-Aug-24, Thu:- "644/00"  
22-Aug-24, Thu:- "646/32", message, "Out" at 1909:40s UTC.  
26-Aug-26, Mon:- "644/00"

#### 7863 kHz 1715 UTC

10-July-24, Wed:- "970/00"  
12-July-24, Fri:- "974/00"  
17-July-24, Wed:- "970/00"  
19-July-24, Fri:- "976/00"  
24-July-24, Wed:- "975/33", message, "Out" at 1724:44s UTC.  
02-Aug-24, Fri:- "976/00"  
07-Aug-24, Wed:- "974/00"  
09-Aug-24, Fri:- "976/00"  
14-Aug-24, Wed:- "972/00"  
16-Aug-24, Fri:- "976/00"  
21-Aug-24, Wed:- "970/00"  
23-Aug-24, Fri:- "976/00"  
28-Aug-24, Wed:- "976/36", message, "Out" at 1725:25s UTC.

#### 12984 kHz 1430 UTC

06-July-24, Sat:- "912/36", message, "Out" at 1440:25s UTC.  
09-July-24, Tue:- "918/00"  
16-July-24, Tue:- "918/38", message, "Out" at 1440:38s UTC.  
20-July-24, Sat:- "918/38" again.  
23-July-24, Tue:- "910/00"  
27-July-24, Sat:- "918/00"  
30-July-24, Tue:- Nothing heard, most unusual for this one, very weak signal of some kind down in the noise, too weak to confirm as E11.  
06-Aug-24, Tue:- "912/34", message, "Out" at 1440 UTC.  
10-Aug-24, Sat:- "912/34" again.  
13-Aug-24, Tue:- "910/00"  
17-Aug-24, Sat:- "911/00"  
20-Aug-24, Tue:- "915/00"  
24-Aug-24, Sat:- "915/00"  
27-Aug-24, Tue:- "918/00"

#### 15720 kHz 0745 UTC

A noisy frequency, some kind of digital signal, a variation on the DRM theme perhaps?

Staying on frequency after E11 has finished on several occasions this noise has been observed to go off air at around 0757 UTC.

10-July-24, Wed:- "340/31", message, interference very strong, difficult copy.  
12-July-24, Fri:- "340/31" again, interference again which went off at 0757.  
17-July-24, Wed:- "340/00"  
19-July-24, Fri:- "344/00"  
26-July-24, Fri:- "342/00"  
31-July-24, Wed:- "346/00"  
02-Aug-24, Fri:- "344/00"  
23-Aug-24, Fri:- "342/00"  
30-Aug-24, Fri:- "347/36", message, weak signal, sank into the noise.

**17378 kHz 0820 UTC**

09-July-24, Tue:- "134/00"  
17-July-24, Wed:- "133/00"  
24-July-24, Wed:- "130/00"  
30-July-24, Tue:- "133/37", message, "Out" at 0830:47s UTC.  
06-Aug-24, Tue:- "130/00"  
07-Aug-24, Wed:- "133/00"  
13-Aug-24, Tue:- "132/34", message, "Out" at 0830 UTC.  
14-Aug-24, Wed:- "132/34" again.  
21-Aug-24, Wed:- "135/00"  
27-Aug-24, Tue:- "136/00"

# S06

**S06 log July/August**

<b>Friday 1st &amp; 3rd</b>	<b>2000z</b>	<b>11149khz</b>	<b>2100z</b>	<b>9205kHz</b>
05/07 '842' 00000				
	<b>1900z</b>	<b>11149khz</b>	<b>2000z</b>	<b>9205kHz</b>
02/08 '842' 00000				
16/08 '842' 00000				

**A message from Ary**  
**Have you noticed the S06/M14 mix-up?**

**S06**

11616 kHz, 29-07, 0400 UTC  
9322 kHz, 29-07, 0420 UTC. Off at 0424z. Preamble at 0425z. Off after group 12.  
480 192 50  
92350 00308 04659 29744 99295 29987 34771 23546 57838 37068  
75507 21363 54979 50082 12174 37971 80893 76320 38333 01724  
54947 75683 43797 88205 62757 89701 78478 33290 90213 55422  
40574 67778 65420 58843 62494 40806 44477 07590 92985 24207  
02051 27515 98881 15019 12670 12912 34924 78329 33675 85027  
192 50 00000

11616/9322 kHz, 30-07, 0400/0420 UTC  
480 483 50  
99560 55584 09386 31096 49684 50361 05129 24480 16789 21077  
06053 22777 61327 32372 22260 85945 05335 80635 41715 58970  
74491 73045 69233 85526 60196 06717 65948 24089 93858 08878  
93959 89914 50572 24026 95842 71349 24385 58987 63712 93882  
42325 21828 77521 30394 09390 15547 17283 81030 01685 72497  
483 50 00000

**M14**

12211/10243 kHz, 29-07, 0500/0520 UTC  
952 483 483 50 50 = =  
99560 55584 09386 31096 49684 50361 05129 24480 16789 21077  
06053 22777 61327 32372 22260 85945 05335 80635 41715 58970  
74491 73045 69233 85526 60196 06717 65948 24089 93858 08878  
93959 89914 50572 24026 95842 71349 24385 58987 63712 93882  
42325 21828 77521 30394 09390 15547 17283 81030 01685 72497  
= = 483 483 50 50 00000

12211 kHz, 30-07, 0500 UTC. Incorrect message? A repeat of 29 July was expected  
10243 kHz, 30-07, 0520 UTC. 952 (R4m) off  
952 192 192 50 50 = =  
92350 00308 04659 29744 99295 29987 34771 23546 57838 37068  
75507 21363 54979 50082 12174 37971 80893 76320 38333 01724  
54947 75683 43797 88205 62757 89701 78478 33290 90213 55422  
40574 67778 65420 58843 62494 40806 44477 07590 92985 24207  
02051 27515 98881 15019 12670 12912 34924 78329 33675 85027  
= = 192 192 50 50 00000

PoSW offers [with repetition]:

**First + Third Fridays in the Month Schedule** – 2000 + 2100 UTC in July, 1900 + 2000 UTC in August:-  
19-July-24:- 2000 UTC, 11149 kHz, "842 842 842 00000", strong enough to over-ride local RF noise interference.  
2100 UTC, 9205 kHz, also heard over local QRM.

2-Aug-24:- 1900 UTC, 11149 kHz, very weak signal could just make out the "null" of a "no message" transmission.  
2000 UTC, 9205 kHz, good signal over-riding local interference, "842 842 842 00000".

16-Aug-24:- 1900 UTC, 11149 kHz, "842 842 842 00000", just about readable.  
 2000 UTC, 9205 kHz, stronger.

## S11a log July/August

5149khz	0830z	06/07 [379/00] Konyetz 0833z S3	(Dutch SDR)	Malc	SAT
	0830z	07/07 [379/00] Konyetz 0833z S4	(Dutch SDR)	Malc	SUN
	0830z	14/07 [376/00] Very weak		RNGB, Malc, Ary	SUN
	0830z	27/07 [373/31 88806.....78073] Konyetz 0841z S2	(Dutch SDR)	Malc	SAT
	0830z	03/08 [376/00] Konyetz 0833z S3	(Dutch SDR)	Malc	SAT
	0830z	04/08 [373/00] Konyetz 0833z S3	(Dutch SDR)	Malc	SUN
	0830z	10/08 [378/31 01455.....13770] Konyetz 0841z S4	(Dutch SDR)	Malc	SAT
	0830z	18/08 [370/00] Good		RNGB	SUN
	0830z	24/08 [379/00] Konyetz 0833z S2		Malc	SAT
	0830z	31/08 [379/00] Konyetz 0833z S3	(Dutch SDR)	Malc	SAT
6814kHz	0915z	01/07 [487/35 52991 43657 40428 11960 05994 09117 48361.....48851 90049 84308] Fair		RNGB	MON
	0915z	08/07 [485/00] Good		RNGB, Malc	MON
	0915z	12/07 [480/00] Konyetz 0918z S5	(Dutch SDR)	Malc	FRI
	0915z	15/07 [486/37 90709..... to 24840 GRP19] Tx failed 0921z S4	(Dutch SDR)	Malc	MON
	0915z	22/07 [485/00] Konyetz 0918z S2		Malc	MON
	0915z	29/07 [482/00] Konyetz 0918z S3	(Dutch SDR)	Malc	MON
	0915z	02/08 [485/00] Konyetz 0918z S2		Malc	FRI
	0915z	05/08 [485/00] Konyetz 0918z S3		Malc	MON
	0915z	12/08 [483/00] Konyetz 0918z S4	(Dutch SDR)	Malc	MON
	0915z	16/08 [480/00] Konyetz 0918z S2		Malc	FRI
	0915z	19/08 [484/34 53541.....21538] Konyetz 0827z S4	(Dutch SDR)	Malc	MON
	0915z	26/08 [486/00] Konyetz 0918z S4	(Dutch SDR)	Malc	MON
	0915z	30/08 [482/00] Konyetz 0918z S2		Malc	FRI
9339khz	0700z	01/07 [475/00] Good		RNGB	MON
	0700z	04/07 [478/00] Good		RNGB	THU
	0700z	08/07 [470/00] Konyetz 0703z S3		Malc	MON
	0700z	11/07 [476/36 93668.....23514] Konyetz 0711z S2		Malc	THU
	0700z	15/07 [477/00] Strong		RNGB, Malc	MON
	0700z	18/07 [475/00] Strong		RNGB	THU
	0700z	22/07 [475/00] Good		RNGB	MON
	0700z	25/07 [477/00] Konyetz 0703z S3		Malc	THU
	0700z	29/07 [471/00] Konyetz 0703z S4		Malc	MON
	0700z	05/08 [475/00] Konyetz 0703z S2		Malc	MON
	0700z	08/08 [475/00] Konyetz 0703z S3		Malc	THU
	0700z	12/08 [477/00] Konyetz 0703z S3		Malc	MON
	0700z	15/08 [470/00] Konyetz 0703z S4		Malc	THU
	0700z	19/08 [471/00] Good		RNGB	MON
	0700z	22/08 [479/00] Konyetz 0703z S3		Malc	THU
	0700z	26/08 [471/34 11120.....35564] konyetz 0711z S5		Malc	MON
9448kHz	1400z	02/07 [427/00] Konyetz 1403z S2		Malc	TUE
	1400z	05/07 [420/00] Konyetz 1403z S2		Malc	FRI
	1400z	09/07 [426/00] Konyetz 1403z S4	(Dutch SDR)	Malc	TUE
	1400z	12/07 [427/00] Konyetz 1403z S2		Malc	FRI
	1400z	26/07 [426/00] Konyetz 1403z S2		Malc	FRI
	1400z	30/07 [425/00] Konyetz 1403z S5	(Dutch SDR)	Malc	TUE
	1400z	02/08 [425/00] Konyetz 1403z S3		Malc	FRI
	1400z	06/08 [429/36 82334 75729 26653 85259 80641 37868 28241..... 72087 17968] Weak		dMHz	TUE
	1400z	13/08 [421/00] Konyetz 1403z S2		Malc	TUE
	1400z	16/08 [429/00] Konyetz 1403z S3		Malc	FRI
	1400z	20/08 [422/00] Konyetz 1403z S5	(Dutch SDR)	Malc	TUE
	1400z	27/08 [422/00] Konyetz 1403z S2		Malc	TUE
12457kHz	1850z	03/07 [284/00] Konyetz 1853z S6+QRM		Malc	WED
	1850z	06/07 [280/00] Konyetz 1853z S6 + QRM		Malc	SAT
	1850z	10/07 [287/38 49704.....31667] Konyetz 2002z S9		Malc	WED
	1850z	17/07 [286/00] Konyetz 1853z S9		Malc	WED
	1850z	24/07 [285/00] Konyetz 1853z S9		Malc	WED
	1850z	27/07 [280/00] Konyetz 1853z S9		Malc	SAT
	1850z	03/08 [280/00] Konyetz 1853z S9		Malc	SAT
	1850z	07/08 [280/00] Konyetz 1853z S9		Malc	WED
	1850z	10/08 [284/00] Konyetz 1853z S9+10		Malc	SAT

1850z	14/08 [287/00] Konyetz 1853z S9		Malc	WED
1850z	21/08 [281/33 84778.....98742] Konyetz 1901z S9+10		Malc	WED
1850z	28/08 [282/00] Konyetz 1853z S4		Malc	WED
1850z	31/08 [287/00] Konyetz 1853z S9+10		Malc	SAT
20905kHz	0725z	03/07 [385/00] Good	RNGB	WED
	0725z	05/07 [385/00] Konyetz 0728z S2	Malc	FRI
	0725z	10/07 [386/00] Konyetz 0728z S2 (Dutch SDR)	Malc	WED
	0725z	17/07 [382/00] Good	RNGB	WED
	0725z	19/07 [384/00] Good	RNGB	FRI
	0725z	03/08 [384/00] Strong	RNGB, Malc	FRI
	0725z	07/08 [380/00] Konyetz 0728z S4	Malc	WED
	0725z	09/08 [387/00] Konyetz 0728z S3	Malc	FRI
	0725z	14/08 [385/00] Good	RNGB, Malc	WED
	0725z	16/08 [381/00] Good	RNGB	FRI
	0725z	21/08 [389/00] Fair	RNGB	WED
	0725z	23/08 [385/00] Konyetz 0728z S2 (Dutch SDR)	Malc	FRI
	0725z	30/08 [384/39 06628.....79387] Koinyetz S2	Malc	FRI

# V07

## Sunday

### July 2024

0700z 13978kHz 0720z 13378kHz 0740z 12178kHz

13978kHz0400z 07/07 Only test tone weak received DanAR SUN

13978/13378/12178 kHz, 07-07, 0700/0720/0740 UTC  
 931 931 931 1 532 103 532 103  
 18335 99334 11430 73972 55985 91192 04361 73812 17730 64159  
 70371 17626 61937 61420 56393 79051 07604 73643 63057 43863  
 09841 92419 64605 56667 04018 67288 92957 92331 81249 39034  
 39120 77387 32050 22431 90903 06515 85930 80224 41165 59299  
 28200 43512 35547 74375 37952 00811 18593 43265 76309 19903  
 48986 39153 73155 22552 64489 70489 66606 55745 54778 61368  
 35034 56672 44424 59294 64406 57844 58805 91095 30951 50643  
 80785 15686 00268 99588 41311 45862 22240 46510 29259 53475  
 79867 60932 53557 41322 49324 49018 70986 07066 02500 79836  
 79868 48204 33698 77035 37452 94245 92173 82752 63983 35350  
 85390 31093 99615 000 000  
*Courtest Ary*

13978kHz0400z 14/07 931 1 2446 96 92545 ... 73047 000 000 QSA3 DanAR SUN

931 931 931 1  
 2446 96  
 92545 69258 11453 09048 55313  
 60355 86945 17295 54440 37417  
 21941 13586 74407 54185 72456  
 26738 08430 80619 05538 48326  
 59617 76927 31692 52652 52188  
 61805 80352 03173 59462 48294  
 68226 79104 13143 52717 76437  
 69543 43632 23959 91496 51592  
 86571 42511 74944 30225 68861  
 23799 82506 78144 47023 33429  
 60345 04613 06372 72328 84180  
 23509 48042 43890 35447 10874  
 45818 39626 31286 28919 13684  
 92832 35122 17804 50106 75320  
 08112 31223 16566 93644 62057  
 71042 31302 16405 03117 86666  
 28289 09932 27072 83392 53757  
 53050 64059 82925 69501 52555  
 66108 25728 08134 53539 51422  
 73047 000 000 *Courtesy DanAR*

13978kHz0400z 21/07 931 1 109 87 62917 ... 06047 000 000 QSA3 DanAR SUN

931 931 931 1  
 109 87  
 62917 91822 72955 11994 15877  
 20048 54767 40283 84864 91786  
 80269 60103 33901 04433 12393  
 92857 44226 39587 50508 03107  
 07435 55956 03423 48677 14728  
 06181 57402 52859 44119 47455  
 76699 85062 20893 93469 77851  
 71394 72430 37186 84426 02975  
 06236 11318 09981 27416 03317  
 71445 42385 90889 91448 48078  
 45612 84179 24113 04337 72125  
 65503 95950 72405 40108 06356  
 90877 21452 05664 46927 36656  
 88990 19042 95708 14091 92180  
 41869 67960 63336 34193 69054  
 29317 51468 34859 03751 71403  
 87913 98135 85122 69949 80236  
 51411 06047 000 000  
*Courtesy DanAR*



13978kHz0400z 28/07 931 1 610 74 01229 ... 70291 000 000 QSA2 QSB1 DanAR SUN

931 931 931 1  
610 74  
01229 04130 95937 67596 06025  
63616 89015 63327 35844 64872  
54991 89582 33084 43473 23469  
93836 20448 92820 68170 37279  
48762 79922 04849 45861 74310  
54844 91341 78357 48564 77135  
53345 88663 16271 23372 62579  
14799 61131 99983 97402 15982  
28157 31833 70137 55086 9444  
48424 61662 02522 89077 70731  
80561 39742 17739 98964 27348  
92134 57764 54534 00538 08915  
56697 36599 93028 82852 93056  
96109 43873 24777 82261 36980  
79078 95295 82183 70291  
000 000 Courtesy DanAR

**August 2024**

**0700z 13408kHz 0720z 12208kHz 0740z 11508kHz**

13408 11-08-2024 0700 V07 Ary SUN  
12208 11-08-2024 0720 V07  
11508 11-08-2024 0740 V07  
425 425 425 1 8191 87 8191 87  
49590 18267 81120 45401 36861 85444 36115 74342 09038 53196  
60601 22029 86363 51210 86257 03313 27048 36182 72444 95322  
31126 22617 26138 48880 45278 50643 30326 93616 23550 30321  
32999 25390 43531 41226 85639 59998 74694 37292 34227 47736  
94529 14200 40015 16542 26177 72399 77091 08537 64116 48347  
55997 73262 47942 95627 51078 44922 13916 91162 32637 26615  
02545 62146 22528 23385 58200 66935 57398 91853 45603 71495  
01606 75001 90568 42295 08488 74061 05397 21879 44039 99943  
56326 80862 50732 39674 77018 92170 72766 000 000

**V13** Nil Reports

**V15** Nil Reports

**North Korea Spy Numbers Broadcasting via Pyongyang BS**

**V24** Nil Reports

**South Korean Intelligence.**

**V26** Nil Reports

# Polytones

## XPA1 Wed/Fri

Wed/Fri

July 2024

1210z	13368kHz	1230z	12168kHz	1250z	11168kHz
03/07	311 1 07866 00124 11860 ... 46627				1250z NRH, rest Weak
08/07	Not Monitored, Off watch				
10/07	Unworkable: Null Msg				2m26s lg
17/07	311 1 00560 00137 17045 ... 77150				1250z Weak, rest Unworkable
19/07	311 1 00560 00137 17045 ... 77150				1250z Unworkable, rest Weak QSB2/3
24/07	311 1 00560 00137 17045 ... 77150				1230z Weak, QSB3/4, rest unworkable [1210z X06b in msg txt]
26/07	311 1 00560 00137 17045 ... 77150				1230z Weak, QSB4, rest unworkable
31/07	311 000 03539 00001 00000 ... 40256				1210z Fair, 1230z Weak, 1250z NRH

August 2024

1210z	13491kHz	1230z	12191kHz	1250z	10691kHz
02/08	Not monitored, Off watch				
07/08	416 000 02427 00001 00000 ... 36654				1250z NRH, rest Weak
09/08	416 000 09475 00001 00000 ... 35670				1250z NRH, rest Weak
14/08	Null Msg				Unworkable, 1250z NRH
16/08	Null Msg				NRH, 1210z Unworkable
21/08	416 1 00208 00099 73601 ... 14446				1250z Unworkable, rest Weak, 1230z QSB4
23/08	Unworkable, 1250z NRH				
28/08	416 1 00208 00099 73601 ... 14446				Weak QSB3/4
30/08	416 1 00208 00099 73601 ... 14446				Weak, 1210z QRM3, 1250z Unworkable

416 416 416 1 416 416 416 1 416 416 416 1

00208 00099 73601 65783 62145 16036 74180 08405 88847 66819  
37298 68210 46875 72954 58784 61467 86148 28376 85948 66148  
35079 26853 31802 72744 99742 77599 63067 69282 69011 96844  
51096 48028 36041 61101 45893 68836 47703 74947 66929 88002  
23352 36226 41600 50663 50185 20742 17459 83127 30290 02513  
53306 50861 88914 60955 89977 36822 68776 64582 49275 82506  
76969 50845 81429 58890

25483 37410 06300 25248 91229 59835 41059 51928 80928 56502  
63482 36176 65479 16551 75604 92428 66394 63519 45205 94306  
23267 55778 73643 24167 77494 87845 34674 90696 96420 98278  
55841 05522 80102 21748 24158 43488 21360 14446

Courtesy PLdn

# XPA2 p

Monday/Wednesday

July 2024

**0700z 12148kHz 0720z 13448kHz 0740z 13948kHz**

01/07 09553 00128 72277 ... 25745 Fair

09553 00128 72277 27121 74057 29016 01477 07368 97183 56623  
 24815 83699 84305 44635 20881 69745 25016 53720 14561 65534  
 88929 26950 43425 70962 20530 54867 57830 13522 46796 91612  
 45996 66782 07017 97921 36405 76758 32487 34223 75741 43665  
 98908 38628 08437 79847 62549 14593 20603 32149 51362 63429  
 33419 61563 83122 55128 68744 64023 37405 42924 26383 54754  
 13488 98427 33049 31752 89485 70861 10349 32926 70812 97733  
 41413 26896 33104 38630 20495 18785 70726 10763 58271 74343  
 17894 89073 63084 83139 36082 45962 34830 71016 38232 41445  
 98205 07444 01365 74985 41661 72204 31002 54941 95071 28075  
 65181 83849 00510 09765 29002 95196 58485 06654 46681 76093  
 85432 28474 10788 09503 67824 08282 80006 65362 07932 78735  
 57033 42853 55385 30377 34255 01536 68567 72367 59913 08315  
 25745

Courtesy PLdn

03/07 09553 00128 72277 ... 25745 0700z Weak, rest Unworkable

08/07 Not Monitored, Off watch

10/07 07841 00001 00000 ... 35663 Weak

15/07 04032 00130 19907 ... Lost in QSB Weak QSB4, 0740z NRH

17/07 04032 00130 19907 ... 57742 0740z Fair Local QRM4, rest Weak

04032 00130 19907 65229 16078 78821 10859 13484 34942 47537  
 27623 35608 73560 63382 00388 68014 13893 96563 55272 13792  
 13640 97880 22332 86794 95650 37151 68150 29432 89426 97809  
 85796 25056 53756 62896 27990 00974 89101 05104 58273 45188  
 72485 04583 68413 17884 39409 51757 80777 21815 07823 95584  
 11405 62001 60882 76673 80890 80331 38737 47012 51528 90266  
 06000 13462 37512 56099 03819 02458 02692 24761 68780 56692  
 52887 78309 94950 60255 21082 08425 02844 62751 14493 11521  
 55276 90794 13714 60843 39086 25267 56820 92813 79672 01457  
 12192 88490 70157 64235 50949 48324 41953 08539 58260 31791  
 41551 57917 12302 72290 64232 25489 27150 18852 15014 85934  
 30449 40090 70927 67664 74221 39315 72292 37928 50822 91093  
 75662 78018 38469 48933 31916 90560 74699 95236 02992 79987  
 20337 88165 57742

Courtesy PLdn

22/07 04032 00130 19907 ... 57742 0720z Weak, rest unworkable

24/07 04032 00130 19907 ... 57742 0740z Weak, rest Fair

29/07 05154 0001 00000 ... 33662 Weak, 0700z QSB4

31/07 09048 00001 00000 ... 35265 Weak

August 2024

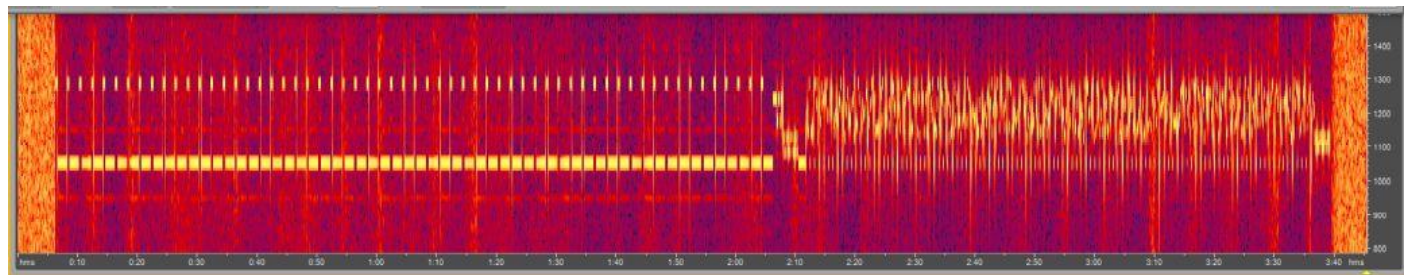
**0700z 12152kHz 0720z 13552kHz 0740z 13952kHz**

05/08 07850 00001 00000 ... 35264 Fair

07/08 01165 00001 00000 ... 32457 0700z Strong, rest Weak

12/08 04871 00001 00000 ... 35663 Weak

14/08 04587 00001 00000 ... 37264 Weak



12152kHz 0700z 19/08 Strong

19/08	02409 00108 95994 ... 13644	0700z Strong, rest Weak [See above]
<p>02409 00108 95994 62856 68693 36847 20373 26594 18554 72312  56691 21966 21534 78832 59693 60101 90729 31942 51498 85409  58419 51446 87781 01695 69066 96560 60779 85390 01059 28076  49886 66401 40826 27322 23582 29763 33423 33105 06333 42675  25904 66649 16974 41590 91980 31532 35185 98483 66250 24128  48109 09005 24032 38768 50457 64973 30039 50728 27601 50704  42295 89834 47299 08274 03906 50510 83767 52256 88115 75050  91835 51822 01316 11500 26612 16764 52978 94546 92536 44193  21230 12478 68417 42760 92888 19763 17855 74737 73066 95844  50376 75990 95182 65127 35950 01449 27409 05426 75282 95327  36336 46892 06875 84115 56275 31770 60958 75701 37196 14686  13644 <span style="float: right;"><i>Courtesy PLdn</i></span></p>		
21/08	Very weak, end grp 13644. Likely repeat 19/08	Unworkable
26/08	02409 00108 95994 ... 13644	Weak

# XPA2 TF Trial

## Tuesday/Friday

### July 2024

1100z	14958kHz	1120z	13958kHz	1140z	12158kHz
02/07	NRH				
05/07	Not monitored	Off watch		See H-FD logs below	
09/07	Not monitored	Off watch			
12/07	Not monitored	Off watch			
16/07	Not monitored	Off watch			
19/07	06469 00001 00000 ... 37664				Very weak
23/07	00399 00161 01680 ... 10334				1100z Fair, rest Weak QRM3
26/07	00399 00161 01680 ... <u>10334</u>				1100z Weak QSB4, rest unworkable
30/07	00399 00161 01680 ... 10334				1100z Weak, rest unworkable

00399 00161 01680 98486 32812 28584 24926 65863 11450 28108  
56189 53911 08940 47892 34624 75955 17 45 26847 55530 49093  
03926 50465 14891 87558 86919 58261 50155 50761 81214 04735  
96305 75382 72860 07560 46251 18415 13796 21753 86068 52653  
09590 39501 12567 84685 64134 63832 95689 18511 51645 04366  
648 41837 49100 32357 54121 47028 91610 15953 46680 02811  
50771 70517 29342 36180 78218 08227 39219 92586 065 15795  
18163 97321 69852 20417 74420 93054 00078 80780 33552 64948  
37051 55985 14869 37762 87108 24306 6044 36640 60137 96109  
94605 66750 46097 39923 39089 82290 33722 58800 26973 18311  
23922 89238 70339 53203 35941 65608 86789 77996 07784 62757  
50396 52227 65029 33653 79408 58084 72870 25406 35766 93777  
60487 85253 83914 52746 44888 28228 97647 27345 90059 33799  
34563 93881 71888 84822 14333 45937 58300 89525 27215 51361  
81560 34686 23261 76272 95061 73872 88767 23447 80162 63434  
77325 79028 10173 18859 65435 11492 75471 18736 01024 58871  
75940 74210 96898 10334 *Courtesy PLdn*

*Note missing numerals; poor condx*

### August 2024

1100z	13887kHz	1120z	12187kHz	1140z	10387kHz
02/08	Not monitored	Off watch			
06/08	05512 00001 00000 ... 44666				1120z Weak QRM3, 1100z Unworkable, 1140z NRH
09/08	02950 00001 00000 ... 35657				Weak, 1140z NRH
13/08	NRH				
16/08	NRH				
20/08	NRH				
23/08	1120z Unworkable, rest NRH				
27/08	Unworkable				
30/08	03990 00001 00000 ... 35664				1140z NRH, rest Weak

## Other XPA2

### Via H-FD

Mon 01.07.2024 0910Z 16296 msg	Sat 03.08.2024 0910Z 14372 msg
Mon 01.07.2024 0930Z 14981 msg	Sat 03.08.2024 0930Z 13372 msg
Mon 01.07.2024 0950Z 13953 msg	Sat 03.08.2024 0950Z 12172 msg
Tue 02.07.2024 1600Z 13538 msg	Sat 03.08.2024 1500Z 13825 msg
Tue 02.07.2024 1620Z 14438 msg	Sat 03.08.2024 1520Z 12125 msg
Tue 02.07.2024 1640Z 14938 msg	Sat 03.08.2024 1540Z 11025 msg
Wed 03.07.2024 1100Z 17435 msg	Mon 05.08.2024 0910Z 18059 msg
Wed 03.07.2024 1120Z 16235 msg	Mon 05.08.2024 0930Z 16093 msg
Wed 03.07.2024 1140Z 14935 msg	Mon 05.08.2024 0950Z 14874 msg
Wed 03.07.2024 1800Z 17474 msg	Tue 06.08.2024 0500Z 10252 msg
Wed 03.07.2024 1820Z 16274 msg	Tue 06.08.2024 0520Z 11152 msg
Wed 03.07.2024 1840Z 14574 msg	Tue 06.08.2024 0540Z 12152 msg
Thu 04.07.2024 0500Z 10243 msg	Wed 07.08.2024 1100Z 16264 msg
Thu 04.07.2024 0520Z 11143 msg	Wed 07.08.2024 1120Z 15864 msg
Thu 04.07.2024 0540Z 12143 msg	Wed 07.08.2024 1140Z 14864 msg
Thu 04.07.2024 0910Z 13445 msg	Wed 07.08.2024 1800Z 15884 msg
Thu 04.07.2024 0930Z 12145 msg	Wed 07.08.2024 1820Z 14684 msg
Thu 04.07.2024 0950Z 11545 msg	Wed 07.08.2024 1840Z 13484 msg
Fri 05.07.2024 1100Z 14958 msg	Fri 09.08.2024 1100Z 13887 msg
Fri 05.07.2024 1120Z 13958 msg	Fri 09.08.2024 1120Z 12187 msg
Fri 05.07.2024 1140Z 12158 msg	Fri 09.08.2024 1140Z 10387 msg
Sat 06.07.2024 1500Z 13954 msg	Tue 13.08.2024 1600Z 14864 msg
Sat 06.07.2024 1520Z 12154 msg	Tue 13.08.2024 1620Z 14364 msg
Sat 06.07.2024 1540Z 11454 msg	Tue 13.08.2024 1640Z 13464 msg

## XPB1

### Wednesday/Saturday

#### July 2024

13884kHz 1100z	03/07	Weak	4m28s	PLdn	WED
13384kHz 1110z	03/07	Weak	4m28s	PLdn	WED
12184kHz 1120z	03/07	Fair	4m28s	PLdn	WED
11584kHz 1130z	03/07	Weak	4m28s	PLdn	WED
11084kHz 1140z	03/07	Weak	4m28s	PLdn	WED
10584kHz 1150z	03/07	Weak	4m28s	PLdn	WED
13384kHz 1100z	06/07		NOT MONITORED, Lightning	PLdn	SAT
12184kHz 1110z	06/07		NOT MONITORED, Lightning	PLdn	SAT
11584kHz 1120z	06/07		NOT MONITORED, Lightning	PLdn	SAT
11084kHz 1130z	06/07		NOT MONITORED, Lightning	PLdn	SAT
10584kHz 1140z	06/07		NOT MONITORED, Lightning	PLdn	SAT
13884kHz 1150z	06/07		NOT MONITORED, Lightning	PLdn	SAT
13884kHz 1100z	10/07	Weak	4m28s	PLdn	WED
13384kHz 1110z	10/07	Weak	4m28s	PLdn	WED
12184kHz 1120z	10/07	Weak	4m28s	PLdn	WED
11584kHz 1130z	10/07	Weak	4m28s	PLdn	WED
11084kHz 1140z	10/07	Weak	4m28s	PLdn	WED
10584kHz 1150z	10/07	NRH		PLdn	WED
13384kHz 1100z	13/07	Weak	4m28s	PLdn	SAT
12184kHz 1110z	13/07	Weak	4m28s	PLdn	SAT
11584kHz 1120z	13/07	Weak	4m28s	PLdn	SAT
11084kHz 1130z	13/07	Weak	4m28s	PLdn	SAT
10584kHz 1140z	13/07	Weak	4m28s	PLdn	SAT
13884kHz 1150z	13/07	V. Weak	4m28s	PLdn	SAT
13884kHz 1100z	17/07	Weak	4m28s	PLdn	WED
13384kHz 1110z	17/07	Weak	4m28s	PLdn	WED
12184kHz 1120z	17/07	Weak	4m28s	PLdn	WED
11584kHz 1130z	17/07	NRH		PLdn	WED
11084kHz 1140z	17/07	NRH		PLdn	WED
10584kHz 1150z	17/07	NRH		PLdn	WED

13384kHz	1100z	20/07	NRH		PLdn	SAT
12184kHz	1110z	20/07	Weak	4m28s	PLdn	SAT
11584kHz	1120z	20/07	NRH		PLdn	SAT
11084kHz	1130z	20/07	NRH		PLdn	SAT
10584kHz	1140z	20/07	NRH		PLdn	SAT
13884kHz	1150z	20/07	NRH		PLdn	SAT
13884kHz	1100z	24/07	Weak	4m28s	PLdn	WED
13384kHz	1110z	24/07	Weak	4m28s	PLdn	WED
12184kHz	1120z	24/07	Weak	4m28s	PLdn	WED
11584kHz	1130z	24/07	Weak	4m28s	PLdn	WED
11084kHz	1140z	24/07	Weak	4m28s	PLdn	WED
10584kHz	1150z	24/07	Weak	4m28s	PLdn	WED
13384kHz	1100z	27/07	NRH		PLdn	SAT
12184kHz	1110z	27/07	NRH		PLdn	SAT
11584kHz	1120z	27/07	NRH		PLdn	SAT
11084kHz	1130z	27/07	Audible		PLdn	SAT
10584kHz	1140z	27/07	Audible		PLdn	SAT
13884kHz	1150z	27/07	NRH		PLdn	SAT
13884kHz	1100z	31/07	Weak	4m28s	PLdn	WED
13384kHz	1110z	31/07	Weak	4m28s	PLdn	WED
12184kHz	1120z	31/07	Weak	4m28s	PLdn	WED
11584kHz	1130z	31/07	Weak	4m28s	PLdn	WED
11084kHz	1140z	31/07	Weak	4m28s	PLdn	WED
10584kHz	1150z	31/07	Audible		PLdn	WED

### Wednesday/Saturday

#### August 2024

13567kHz	1100z	03/08		Not monitored	Off Watch	PLdn	SAT
13367kHz	1110z	03/08		Not monitored	Off Watch	PLdn	SAT
12167kHz	1120z	03/08		Not monitored	Off Watch	PLdn	SAT
11567kHz	1130z	03/08		Not monitored	Off Watch	PLdn	SAT
11067kHz	1140z	03/08		Not monitored	Off Watch	PLdn	SAT
10567kHz	1150z	03/08		Not monitored	Off Watch	PLdn	SAT
13567kHz	1100z	07/08	Weak	4m28s		PLdn	WED
13367kHz	1110z	07/08	Weak	4m28s		PLdn	WED
12167kHz	1120z	07/08	Weak	4m28s		PLdn	WED
11567kHz	1130z	07/08	Weak	4m28s		PLdn	WED
11067kHz	1140z	07/08	Weak	4m28s		PLdn	WED
10567kHz	1150z	07/08	NRH			PLdn	WED
13567kHz	1100z	10/08	NRH			PLdn	SAT
13367kHz	1110z	10/08	Weak	4m28s	QRM3	PLdn	SAT
12167kHz	1120z	10/08	Weak	4m28s	QRM3	PLdn	SAT
11567kHz	1130z	10/08	NRH			PLdn	SAT
11067kHz	1140z	10/08	NRH			PLdn	SAT
10567kHz	1150z	10/08	NRH			PLdn	SAT
13567kHz	1100z	14/08	Audible	Poor Condx	noted	PLdn	WED
13367kHz	1110z	14/08	Audible			PLdn	WED
12167kHz	1120z	14/08	Audible			PLdn	WED
11567kHz	1130z	14/08	Audible			PLdn	WED
11067kHz	1140z	14/08	NRH			PLdn	WED
10567kHz	1150z	14/08	NRH			PLdn	WED
13567kHz	1100z	21/08	Fair	4m28s		PLdn	WED
13367kHz	1110z	21/08	Fair	4m28s		PLdn	WED
12167kHz	1120z	21/08	Fair	4m28s		PLdn	WED
11567kHz	1130z	21/08	NRH			PLdn	WED
11067kHz	1140z	21/08	NRH			PLdn	WED
10567kHz	1150z	21/08	NRH			PLdn	WED
13567kHz	1100z	24/08	Weak	4m28s		PLdn	SAT
13367kHz	1110z	24/08	Weak	4m28s		PLdn	SAT
12167kHz	1120z	24/08	Fair	4m28s		PLdn	SAT
11567kHz	1130z	24/08	Weak	4m28s		PLdn	SAT
11067kHz	1140z	24/08	Weak	4m28s		PLdn	SAT
10567kHz	1150z	24/08	Weak	4m28s		PLdn	SAT
13567kHz	1100z	28/08	Weak	2m49s		PLdn	WED
13367kHz	1110z	28/08	Weak	2m49s		PLdn	WED
12167kHz	1120z	28/08	Weak	2m49s		PLdn	WED
11567kHz	1130z	28/08	Weak	2m49s		PLdn	WED
11067kHz	1140z	28/08	Weak	2m49s		PLdn	WED
10567kHz	1150z	28/08	V. weak	2m49s		PLdn	WED



13567kHz 1100z	30/08	Weak	2m49s	PLdn	SAT
13367kHz 1110z	30/08	Weak	2m49s	PLdn	SAT
12167kHz 1120z	30/08	Weak	2m49s	PLdn	SAT
11567kHz 1130z	30/08	Weak	2m49s	PLdn	SAT
11067kHz 1140z	30/08	Weak	2m49s	PLdn	SAT
10567kHz 1150z	30/08	NRH		PLdn	SAT

## Other XPB1

Via H-FD

Tue 02.07.2024 0500Z 11168 MFSK-16 4:30  
 Tue 02.07.2024 0510Z 11468 MFSK-16  
 Tue 02.07.2024 0520Z 12168 MFSK-16  
 Tue 02.07.2024 0530Z 13368 MFSK-16  
 Tue 02.07.2024 0540Z 13968 MFSK-16  
 Tue 02.07.2024 0550Z 14568 MFSK-16

Mon 05.08.2024 0500Z 11559 MFSK-16 4:27  
 Mon 05.08.2024 0500Z 13459 MFSK-16  
 Mon 05.08.2024 0510Z 12159 MFSK-16  
 Mon 05.08.2024 0530Z 13959 MFSK-16  
 Mon 05.08.2024 0540Z 14459 MFSK-16  
 Mon 05.08.2024 0550Z 14959 MFSK-16

Tue 16.07.2024 1300Z 20024 MFSK-16 2:17  
 Tue 16.07.2024 1310Z 19224 MFSK-16  
 Tue 16.07.2024 1320Z 18324 MFSK-16  
 Tue 16.07.2024 1330Z 17424 MFSK-16  
 Tue 16.07.2024 1340Z 16324 MFSK-16  
 Tue 16.07.2024 1350Z 15824 MFSK-16

Fri 09.08.2024 1300Z 20064 MFSK-16 1:41  
 Fri 09.08.2024 1310Z 19364 MFSK-16  
 Fri 09.08.2024 1320Z 18464 MFSK-16  
 Fri 09.08.2024 1330Z 17464 MFSK-16  
 Fri 09.08.2024 1340Z 16264 MFSK-16  
 Fri 09.08.2024 1350Z 15864 MFSK-16

# X06 Mazeilka

Date	Day	UTC	Freq	Scale	Monitor	Comments
20240701	Mon	0705-0708	11638	165324	Dave/AU	TX to Vienna, G1
20240701	Mon	0744-0749	11562	432516	Dave	TX to Bern, G6
20240701	Mon	0804-0806	13395	532614	Dave	TX to Paris, G4
20240701	Mon	0916-0929	20675	641523	Dave	TX to Lusaka, G5
20240703	Wed	0820-0825	17445	362154	Andrew/SE	TX to Athens, G32
20240703	Wed	1129-1151	16115	215346	Dave	Alert2 (TX to Mumbai, G25) 1
20240703	Wed	1155-1158	14650	215346	Dave	2.2
20240704	Thu	0708-0722	19511	314265	Andrew	TX to Antananarivo, G380 (1)
20240704	Thu	0741-0754	19405	352416	Andrew	TX to Dar es Salaam, G43
20240704	Thu	0923-0927	20837	645321	Andrew	TX to Ho Chi Minh City, G410
20240704	Thu	1357-1404	20627	436512	Andrew	TX to Harare, G44
20240705	Fri	0816-0818	13556	324615	Scarech	TX to Madrid, G52
20240708	Mon	0814-0823	17475	156234	Andrew	Alert2 (TX to Kampala, G68) 1
20240708	Mon	0823-0824	20690	156234	Andrew	2.2
20240708	Mon	0927-0932	19235	463125	Dave	TX to Rabat, G77
20240709	Tue	0801-0804	17523	542136	Andrew	TX to Beijing, G88
20240709	Tue	1001-1005	17520	612534	Dave	TX to Ashgabat, G89
20240709	Tue	1011-1013	17470	216354	Andrew	TX to Chennai, G388
20240710	Wed	0723-0730	11483	412356	Andrew	TX to Budapest, G97
20240711	Tue	0806-0810	16153	153624	Andrew	TX to Damascus, G249
20240712	Fri	0447-0452	15920	216435	Andrew	TX to Dhaka, G439
20240712	Fri	0646-0649	13427	341265	Ary/NL, Scarech	G442
20240714	Sun	1115-1123	15710	261453	Andrew	TX to Cairo, G138
20240715	Mon	0728-0730	14377	432516	Scarech	TX to Bern, G341
20240715	Mon	0954-0958	20675	641523	Andrew	Alert3 (TX to Lusaka, G337) 1
20240715	Mon	0958-1007	18750	641523	Andrew	3.2
20240715	Mon	1007-1013	23355	641523	Andrew	3.3
20240717	Wed	0644-0647	14405	256341	Andrew	TX to Beirut, G169
20240717	Wed	1257-1300	19878	231654	Dave	TX to Abuja, G423
20240719	Fri	1342	16320	241563	Ary	TX to Karachi, G187
20240726	Fri	0647	11155	341265	Ary	G444
20240726	Fri	1139-1349	20605	256134	Ary, Anon27618, Dave	Alert2 (Abidjan, G270) 1 (2)
20240726	Fri	1349-1411	19611	256134	Dave	2.2
20240801	Thu	0946-0948	20837	645321	Dave	TX to Ho Chi Minh City, G410
20240801	Thu	1009	16264	2-4365	Ary	X06b before XPA2
20240802	Fri	1029	14824	625413	tiNG	TX to Tel Aviv, S8, G56
20240807	Wed	0643-0650	13838	256341	Dave	TX to Beirut, G311
20240807	Wed	0829	14631	362154	Dave	TX to Athens, G32 - tail end
20240807	Wed	1247-1252	19878	231654	Dave	TX to Abuja, G422
20240809	Fri	0744-0746	14863	615243	Anon24143	TX to Geneva, G127
20240811	Sun	1036	14414	145632	Dave	TX to Algiers, G135
20240811	Sun	1132-1136	15710	261453	Dave	TX to Cairo, G138

20240814	Wed	0747-0756	13369	412356	Dave	TX to Budapest, G97(3)
20240814	Wed	0810-0823	18177	164253	Dave	TX to Addis Ababa, G395
20240814	Wed	0811-0813	11153	465132	Dave	TX to Sofia, faint, G100
20240815	Thu	0745	19405	352416	Andrew	TX to Dar es Salaam, G179 - end
20240815	Thu	0801-0804	19858	351264	Dave	TX to Abu Dhabi, G434
20240815	Thu	0944-0952	20837	645321	Andrew	TX to Ho Chi Minh City, G417(4)
20240815	Thu	1329-1339	20627	436512	Dave	TX to Harare, G180
20240818	Sun	0656-0700	12130	452163	Andrew	TX to Kabul, G403
20240819	Mon	0736-0748	12152	432516	Andrew	TX to Bern, G341
20240819	Mon	0925-0930	23355	641523	Dave	TX to Lusaka, G337
20240821	Wed	1117-1126	16115	215346	Dave	Alert7 (TX to Mumbai, G167) 1
20240821	Wed	1126-1131	13979	215346	Dave	7.2
20240821	Wed	1131-1136	14650	215346	Dave	7.3
20240821	Wed	1136-1144	16115	215346	Dave	7.4
20240821	Wed	1145-1447	12207	215346	Dave	7.5
20240821	Wed	1548	13548	214356	Linkz/FR	TX to Amman, G394
20240825	Sun	1125-1131	16060	261453	Dave	TX to Cairo, G285
20240826	Mon	0941-0944	16117	463125	Dave	TX to Rabat, G222
20240827	Tue	0800-0802	10767	534216	Scarech	TX to Bagdad, G232
20240827	Tue	0810-0816	17523	542136	Andrew	TX to Beijing, G88
20240827	Tue	1017-1022	13510	612534	Dave	TX to Ashgabat, G234
20240827	Tue	1023-1025	20813	216354	Dave	TX to Chennai, G228

- 1) 0704-0708 UTC: MFSK-66
- 2) Unusually long (over 2 h)!
- 3) Break between 0747 and 0748
- 4) Carrier up till 0954

Many thanks to all contributors as usual. Till the next E2K issue I say: Good-bye, and please stay healthy and safe

Jochen Numbers-, X06 Database and Teamkopf

## Hybrids

### HM01

A flurry of monitor activity with HM01 logs this time, thanks to all reporting:

PoSW writes: As regards the number station scene; my attention in July and August has been focused on the almost - but not quite - daily HM01 on 13435 kHz, first noted in late May, starting up somewhere either side of 0700 UTC, 8 AM BST, the time of day when I am most likely to be near a radio. It was usually a strong signal at least for part of the transmission. However this schedule seems to have ended, last heard on 22-August and although it has taken a break of a few days on several occasions it has not previously been absent for such a long period of time.

Peter further writes, The mixed-mode station from Cuba has continued to appear on 13435 kHz in July and August starting up at some time either side of 0700 UTC, appears on any day of the week and not just the Tuesdays, Thursdays and Saturdays of the prediction list, although sometimes misses a day which appears to be a genuine failure to appear rather than anything to do with propagation issues and sometimes is absent for several days. Usually goes off air a bit before or after 0800 UTC but has also been up for the long haul, so to speak, staying on air for two hours or more. Signal strength is usually strong when first coming on air and at times very strong - when it can be received on a portable radio with its own telescopic antenna - but is usually becoming weaker by 0745 UTC.

0700 UTC is 8 AM in the UK; I think the time in Cuba, where HM01 originates - and the eastern side of the United States, the presumed target area - is five hours behind UK time, that is 3 AM.

Respect to anyone who can muster up the enthusiasm to involve themselves with number station traffic, sending or receiving, at that ungodly hour.

A point of interest:- the same six 5F groups first heard on 22-July were still being transmitted on 10-August.

6-July-24, Saturday:- Tuned in at 0705UTC, good signal, call routine heard after 0727z, "81136 03587 31574 76516 73753 22161", data sounds at 0730:40s. Call again before 0757z. Still on the air when checked at 0815z, call again around 0826z, weaker than earlier, very weak signal when monitored again at 0900 and 0930 UTC.

7-July-24, Sunday:- Came on air at 0655 UTC, call routine at 0719, "81136 03587 31574 76516 73753 22161" - again. Call routine heard again at 0748z and again at approx 0818, went off air around 0821.

8-July-24, Monday:- 0657 UTC, in progress, call routine at 0712z, "81136 03587 31574 76516 73753 22161", so no change.

9-Aug-24, Tuesday:- 0657 UTC, call in progress, "81137 03588 31575 76517 73754 22162", heard again after 0725. Had gone when checked at 0755z.

10-July-24, Wednesday:- Nothing heard when monitored from 0655 to 0715 UTC.

11-July-24, Thursday:- 0655 UTC, transmission in progress, went into call routine around 0658z, "53431 03589 31576 76518 73755 22163", data sounds just before 0701:30s.

Still on at 0758z, call routine again, and again at 0826z and 0855, weak signal but went into data sounds at 0857:50s.

12-July-24, Friday:- 0655 UTC, in progress, call routine at 0719z, "53432 34881 67611 62161 73757 22165". Had gone when checked at 0759.

14-July-24, Sunday:- came on air at 0656 UTC, call routine at 0658 approx, "53435 34884 67613 62164 37541", data sounds at 0701:25s. Strong signal.  
Went into call again after 0728 UTC and later at 0758, voice stopped and went off air.

15-July-24, Monday:- came on air after 0655 UTC, call after 0712, "53437 34886 67615 62166 37542 14322". Also heard again at 0743 and 0813 UTC, went off air around 0827.

16-July-24, Tuesday:- nothing heard on 13435, monitored off and on from 0655 to 0740 UTC.

17-July-24, Wednesday:- In progress when tuned in at 0655 UTC, call routine after 0719, "34264 17653 26022 14751 37547 14327", call again at 0748z, had gone when checked at 0756.

18-July-24, Thursday:- Nothing heard when monitored from 0655 to 0715 UTC but was on later:-  
0731 UTC, transmission in progress, went into call at 0733, "34266 17655 26024 14753 40151 36251", data sounds at 0736:21s. Was still on with a weaker signal at 0829 UTC.

19-July-24, Friday:- IN progress when tuned in at 0656 UTC, call routine after 0659, "34267 17656 26025 14754 40152 36251", strong signal, call heard again at 0727 and 0757 UTC. Still on air when checked at 0818 and 0838 UTC and a very weak signal heard at 0900, 10 AM here.

20-July-24, Saturday:- 0654 UTC, call routine when tuned in, "34268 17657 26026 14755 40153 36252", data sounds at 0657:12s.

21-July-24, Sunday:- 0656 UTC, in progress, weak at first then became stronger, call routine after 0712z, "35311 15051 26027 14756 40154 36253", data sounds at 0715:40s. Call heard again at 0742, had gone off air when checked after 0755z.

22-July-24, Monday:- Came on air just before 0703 UTC, call routine around 0717, "35312 15052 41121 14758 40156 36255". Stayed on air for a long time this morning, was heard when checked at 0808 UTC and over an hour later at 0917 and 0941, very weak, just about readable.

23-July-24, Tuesday:- Nothing heard until 0713 UTC, went into call routine straight away, "35312 15052 41121 14758 40156 36255", same as yesterday, data sound at 0746:30s UTC.  
Call routine heard again after 0743z. Was still on air at 0825z, went off air around 0828.

24-July-24, Wednesday:- 0656 UTC, in progress, went into call about a minute later, "35312 15052 41121 14758 40156 36255" - again, data sounds at 0700:50s UTC. Had gone when checked at 0755 UTC.

25-July-24, Thursday:- Nothing heard when monitored at 0655 to 0710 UTC and again at approx 0730 and 0740 and nothing heard at similar times on Friday the 26th.

27-July-24, Saturday:- Nothing heard apart from a very weak carrier for a few seconds at 0707 UTC, too way down in the noise to confirm as HM01.

28-July-24, Sunday:- Again nothing heard when monitored from around 0655 UTC onward, very weak signal of some kind just detectable around 0730, went off shortly afterwards.

29-July-24, Monday:- Very weak carrier came up at 0715 UTC, nothing readable.

30-July-24, Tuesday:- Nothing heard.

31-July-24, Wednesday:- 0704 UTC when tuned in, HM01 back with a strong signal, call routine in progress, "35312 15052 41121 14758 40156 36255", same 5Fs as when last heard on 26-July, data sounds at 0706:40s. Call routine heard again at 0732z and 0802z.  
Was still on air with a much weaker signal when monitored at 0837 and 0906.

1-Aug-24, Thursday:- 0654 UTC, in progress, weak signal, became weaker, appeared to go into call routine after 0707 but was too weak too copy.

2-Aug-24, Friday:- Came on air at 0652 UTC, strong signal with the usual rapid fading up and down, call routine after 0710z, "35312 15052 41121 14758 40156 36255", a familiar line-up, data sounds at 0713:25s. Had gone when checked just after 0800 UTC.

3-Aug-24, Saturday and 4-Aug-24, Sunday:- nothing heard monitoring from about 0655 to 0725 UTC.

5-Aug-24, Monday:- 0658 UTC, weak transmission in progress when tuned in, became slightly stronger, call routine at 0710, "35312 15052 41121 14758 40156 36255".

6-Aug-24, Tuesday:- Nothing heard until 0706 UTC, carrier at first then into data sounds, call at 0726 UTC, "35312 15052 41121 14758 40156 36255", data at 0729:40s UTC.  
Still on at 0815 UTC, gone when checked at 0825.

7-Aug-24, Wednesday:- Nothing heard when monitored from just before 0700 to 0720 UTC.

8-Aug-24, Thursday:- 0655 UTC, call routine in progress, went into data sounds about a minute after. Call routine again at 0722 UTC, 235312 15052 41121 14758 40156 36255", strong signal. Call again after 0750z. Still on air when checked at 0805 and 0830 UTC.

9-Aug-24, Friday:- Nothing heard when monitored from 0658 to approx 0720 UTC but was on later:-  
0801 UTC, call routine in progress, "35312 15052 41121 14758 40156 36255", still stuck in a rut. Data sounds just after 0803.

10-Aug-24, Saturday:- 0702 UTC, tuned in just in time to hear call routine, "35312 15052 41121 14758 40156 36255", data sounds at 0704:38s UTC.

11-Aug-24, Sunday:- Nothing heard this morning, monitored from 0645 to 0800 UTC.

12-Aug-24, Monday:- Very weak signal of some kind, too weak to confirm as HM01.

13-Aug-24, Tuesday:- 0659 UTC, very weak signal but was stronger later on:-

0748 UTC, stronger than earlier, unfortunately this was the last few minutes of the transmission, heard "...31423 66133 60712", went off air at 0751z, but at least the 5F groups have changed.

14-Aug-24, Wednesday:- 0656 UTC, call routine in progress, "31425 66135 60714 60283 73052 78167". Went into call again after 0723z, gone when checked just after 0800.

15-Aug-24, Thursday:- Nothing heard when monitored from 0659 to 0725 UTC.

16-Aug-24, Friday:- 0658 UTC, carrier when tuned in, voice and data sounds heard after 0700. Went into call routine around 0727z, "31427 66137 60716 60285 73054 55461", data sounds after 0730, strong signal. Had gone when checked at 0755z.

17-Aug-24, Saturday:- carrier came up before 0657 UTC, went into call routine, "31428 66138 60717 60286 73055 55461". Not too strong at first, became stronger after 0710z, call heard again at 0727.

18-Aug-24, Sunday:- Nothing heard until 0703 UTC, carrier came up, heard "55462" then went into call routine, "34351 03801 60718 60287 73056 55462", heard again after 0734z. Went off air just after 0810 UTC.

19-Aug-24, Monday:- Nothing heard, monitored from 0700 to 0800 UTC.

20-Aug-24, Tuesday:- 0655 UTC, transmission in progress, strong signal, call routine at 0718z, "35313 15053 41122, 85051 40157 36256", data sounds after 0721, call again at 0746z, had gone when checked at approx 0755 UTC.

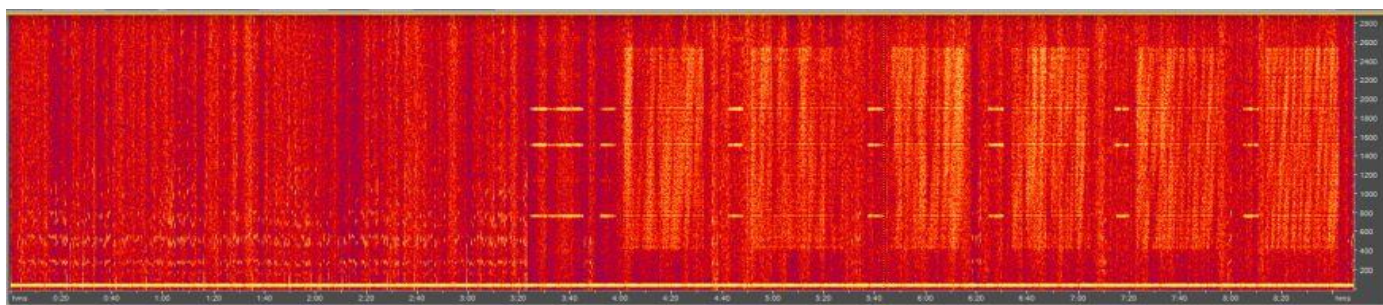
21-Aug-24, Wednesday:- came on air after 0654 UTC, call routine at 0719, "35314 15054 41123 85051 35461 36257", data sounds after 0722. Had gone when checked at 0756 UTC.

22-Aug-24, Thursday:- carrier up at 0658 UTC, call routine after 0700, "35315 15055 41124 85052 35461 36258", call again before 0730z.

23-Aug-24, Friday:- Nothing heard; and nothing heard for the remainder of August

Other's logs as:

10345kHz0611z	14/07	37541 14321 53435 34884 67613 621n4	E	SUN
0611z	29/07	14758 40156 36255 35312 15052 41121	E	MON
10345 kHz, 11-08, 0657 UTC, AM/WinDRM			Ary	SUN
Groups		31423 66133 60712 60281 73051 78165		
Files		24103142.TXT 65356613.TXT 36106071.F1G 04366028.TXT 36087305.F1G 87027816.TXT		
Callsign		QWERTY01		
10345kHz0617z	20/08	35313 15053 41123 85051 40157 36256	E	TUE
13435kHz0721z	20/07	40153 36252 34268 17656 26026 14755	E	SAT
13435kHz0705z	17/08	55461 66138 60717 60286 73055 31428	E	SUN
0711z	18/08	60718 60287 73056 55462 34351 0n801	E	MON



10860kHz 0500z 30/07/2024 [Intro plus one full cycle of RFDT txt]

10860kHz0500z	30/07	36255 35312 15052 41121 14758 40156	Fair, ends 0617z	PLdn	TUE
10860kHz0500z	01/08	'36255'	Fair	PLdn	THU
10860kHz0500z	05/08	part groups only: 35 156 116	Audible	PLdn	MON
10860kHz0501z	06/08	36255 35312 12050 41121 14758 40156	Fair	PLdn	TUE
10860kHz0540z	09/08	35312 15052 41121 14758 40126 36255	Fair QRM3	PLdn	FRI Late
10860kHz0540z	09/08	36255 35312 15052 41121 14758 40156	Fair 56m53s	PLdn	SAT Late
10860kHz0550z	13/08	66132	Poor QRN3/4	PLdn	TUE
10860kHz0518z	15/08		Weak QRM3	PLdn	THU

10860kHz0518z	16/08			Weak QRM3	PLdn	FRI
10860kHz0550z	19/08	55464 34252 03082 44371 60289 53058		Fair	PLdn	MON
10860kHz0500z	20/08	26256 15053 41121 85051 40157 35313		Weak QRM2	PLdn	TUE
10860kHz0504z	22/08	36258 35315 15055 41124 85052 35641		Fair	PLdn	THU
10860kHz0525z	23/08	36259 35316 15056 41125 85053 <u>35642</u>		Weak	PLdn	FRI

1-10 August. Repeat of 22 July

Groups 35312 15052 41121 14758 40156 36255 (repeat of 22 July)

Files 78273625.TXT 18061505.TXT 11424112.TXT 27811475.TXT 06084015.TXT 78273625.TXT

Callsign QWERTY01

10345 kHz, 11-08, 0657 UTC

Groups 31423 66133 60712 60281 73051 78165

Files 24103142.TXT 65356613.TXT 36106071.F1G 04366028.TXT 36087305.F1G 87027816.TXT

Callsign QWERTY01

12 & 13 August. Repeat of 11 August.

10860 kHz, 14-08, 0457 UTC

Groups 31425 66135 60714 60283 73052 78167

Files 24103142.TXT 65356613.TXT 36106071.F1G 04366028.TXT 36087305.F1G 87027816.TXT

Callsign QWERTY01

10860 kHz, 15-08, 0521 UTC. Late start

Groups 31426 66136 60715 60284 73053 78168

Files 24103142.TXT 65356613.TXT 36106071.F1G 04366028.TXT 36087305.F1G 87027816.TXT

Callsign QWERTY01

10860 kHz, 16-08, 0452 UTC. Radio Habana Cuba, switched to HM01 at 0655z.

Groups 31427 66137 60716 60285 73054 55461

Files 24103142.TXT 65356613.TXT 36106071.F1G 04366028.TXT 36087305.F1G 36105546.F1G

Callsign QWERTY01

10860 kHz, 17-08, 0520 UTC

Groups 31428 66138 60717 60286 73055 55461

Files 24103142.TXT 65356613.TXT 36106071.F1G 04366028.TXT 36087305.F1G 36105546.F1G

Callsign QWERTY01

## Now, a special piece written by Jose Martinez on matters ‘Cuba:’

### **Ms Marta Rita Velazquez aka Marta Rita Kviele aka “Barbara”- Former friend of Ana Belen Montes and number station listener By Jose Martinez**

In Edition142, ENIGMA examined the case of former DIA intelligence analyst and convicted Cuban spy, Ana Belen Montes.

She has been paroled from her 25 year jail sentence and a series of books and articles have appeared shedding light on her case and nocturnal radio activities.

Little information was released at the time and after about who recruited her into Cuban espionage. Indictments, now unsealed, from our Department of Justice shed light on this issue.

These papers state that Ana’s “friend” Ms Marta Rita Velazquez, a former US government lawyer, was the “talent spotter” for Cuban Intelligence and who got her involved in espionage.

Of interest is the allegation that Marta was also controlled by shortwave numbers broadcast from Cuba. The allegations in the indictment are unproven and an arrest warrant is extant for this suspected traitor who now resides in exile in Sweden under her married name Marta Kviele.

A grand jury was convened in 2004 to examine Marta’s case and on the evidence presented they indicted her. These papers remained sealed until 2013 but little could be done because she has been out of the US since 2002 and has not apparently been back here.

Marta Velasquez was born in Puerto Rico in 1957 and, like Ana Montes, was of Hispanic heritage. She was academically very gifted and attended the prestigious universities of Princeton, Georgetown and Johns Hopkins (where she was a friend of Ana Montes). She worked as a lawyer in the US Department of Transportation and the US International Development Department covering Central America. She also served for nine years as a legal officer in our embassy in Managua, Nicaragua and for four years in Washington at USAID headquarters.

From 1998-2000 she was on leave in Sweden with her husband who was a Swedish diplomat. From 2000 onwards she directed the Regional Trade and Economic Office at our embassy in Guatemala.

She held a secret clearance from 1984 and a top secret clearance from 1989 to 2002.

The exact time and manner of her alleged recruitment into Cuban Intelligence is unknown but it is stated that in 1983 she had conspired with others to transmit defense information to Cuba.

She may have been recruited on a study trip as a student to the island because she wrote her student thesis on Castro and seemed to have positive things to say about his policies.

The Cubans gave her the codename "Barbara."

It is alleged that whilst at Johns Hopkins University she acted as a “talent spotter” for Cuban Intelligence and found Ana Montes to be a suitably radical American of Puerto Rican heritage and who might be susceptible to a recruitment pitch. Both of them were part-time students at this time studying Latin America. Ana felt strongly about US policy towards Nicaragua and other parts of the region.

Marta allegedly brought Ana to New York to meet a Cuban official from the UN who subsequently recruited her as an intelligence agent. Cuban Intelligence has a long, aggressive and successful history of spotting and assessing potential recruits at universities here in the US. They subsequently use their “diplomats” at the UN or in Washington or even illegal agents to run them as agents when they are employed by the federal government.

The unsealed indictments talk of Ms Velazquez conspiring with unknown “others” to help Cuba, so it is likely that Ana Montes was not her only recruit. She cultivated Ana and remained in touch with her for a while but allegedly broke off their relationship after she was recruited by the Cubans in order to compartmentalise the operation. Marta was also able to pass information to benefit Cuba from her own job in embassies and whilst in the federal government in Washington.

She probably continued to “talent spot” for years afterwards. Numbers station messages (likely V02) from Cuba were used to maintain clandestine contact with her.

In 1992 she received encrypted messages in Nicaragua and had a covert meeting with her handlers in Guatemala that same year. In 1996 she was provided with encryption/decryption software by the Cubans to protect her messages.

In July 1996 a numbers station message was used to inform Ana Montes that Marta had given birth to a son; breaking off their relationship was clearly a ruse.

It is alleged that in September 1983 Marta went to Mexico to meet Cuban agents and suggested that Ana Montes could be recruited to help the people of Nicaragua against the US.

A covert war was being fought at that time by Washington to overthrow their left-wing government. Cuban Intelligence reportedly told Marta that Ana Montes would be “one of the best” as she had huge potential.

In 1985 Marta and Ana flew from the US to Spain to pick up false passports and then went on to Prague where they met Cuban intelligence agents and were issued with clothes for the trip to Cuba. They flew from Prague to Havana for espionage training, including the use of codes and short wave radio for communications. Marta also asked for training in how to beat polygraph (lie detector) machines for future US government employment.

They flew home via Prague and Madrid with tourist pictures being taken in Madrid to provide evidence that they had been on holiday in Spain. Ana Montes then used Marta as a reference for her security clearance when she applied to the DIA to start her intelligence career.

Marta concealed the spy training, visit to Cuba, Cuban sympathies and their treachery when she was interviewed in connection with Ana’s security clearance. In 1988, Marta overtly provoked a dispute with Ana, likely to distance herself from her to protect their conspiracy.

All of Ana’s espionage seen in the previous ENIGMA article and books and films stemmed from this recruitment by Marta. One person in the right place at the right time makes all the difference in the intelligence world, with numbers controlling them.

Marta’s activities likely came to an end in 2002 after it was revealed that Ana had been arrested and entered a plea bargain to co-operate with our government. Likely fearing exposure, Marta resigned from her embassy job in Guatemala and left the country. She reportedly now lives on the east coast of Sweden, is a Swedish citizen and is married to a Swede.

The government in Stockholm has been aware of her case for years but declined to comment on it. Her alleged offences can be seen as political so it is highly unlikely that she would be extradited back here to the US (note the problems with Julian Assange over Wikileaks!)

No request has apparently been made for her extradition by the DoJ and our government has been reluctant to comment on the affair.

It is unknown if she was interviewed by the Feds or did any sort of deal; naming names in return for immunity? No doubt the bureau spent months looking for links at Johns Hopkins and it is unknown how many more radical or Hispanic Americans might have been recruited to the Cuban cause by her or by others.

How many HMO1 broadcasts might be for people they recruited or for their handlers/talent spotters? Many more agents likely receive messages by means other than radio to conceal their existence and the scope of their activities. How many of these sources will have been passed to Russian control or their intelligence shared with Moscow?

Note in April 2024 Victor Rocha was the first former US ambassador to be jailed for espionage. He entered a guilty plea and little information emerged about him. His tradecraft is unknown and there was no mention of a radio being used in his case. He got 15 years and had worked for Cuba for 40 years, one of the highest level and longest running spy cases in our history.

With a career in Latin America he had served in the region and had access to intelligence reports when he was based in Cuba and on the Latin American desk in the National Security Council in Washington.

In retirement he worked as an advisor to SOUTHCOM which controls our military operations in the region so he was likely a great asset to Havana for many years.

The Cubans were clever and skilful in their recruitment and handing of Marta and Ana and targeted them as radical ethnic minority students who felt passionately about racial inequality, Puerto Rican independence and the oppressed masses of Central America. Quite how working for the illiberal, Cuban secret police security state and betraying their country was meant to advance these causes remains obscure.

The passions of youth cause intelligent, educated people to do all sorts of stupid things we later regret (remember your Cambridge Five in England?) It is also an opportunity for foreign states to exploit.

Castro was hardly a great role model and the current state of workers’ republic is highly improvable to say the least. After all their spying what did they achieve and what are current traitors achieving?

Ana sits in exile in Puerto Rico and Marta in Sweden. Neither went to live in Cuba I notice.

Apparently there is no great affection between them; one allegedly recruited the other and got them into espionage and jail and the other in turn blew the whistle forcing Martha into exile.

Do they feel that spending their lives working for Cuba was worth it and will they ever meet? Would Cuban intelligence contact them again? Their education, careers and lives were likely wasted and thrown away. How many more recipients of these broadcasts find themselves in a similar bind and are unable to escape, with the constant fear of exposure through defector or code-break hanging over them?

There must be some amazing stories behind the numbers broadcasts. I also wonder what happened to Marta’s radio — did she leave it behind, sell it or bring it with her? It was likely a Sony 2010 because that seemed to be the model favoured by Cuba and the one Ana used.

When I see sets for sale on the internet, I often wonder who owned them.....? We likely underestimate how good Cuba is at recruiting high-level moles in our government who last for years.

Their tradecraft is good and does not necessarily involve HF radio; the HMO1 recipients could be the tip of the iceberg. Are some of them Russian agents receiving their support from transmitters in Cuba — easier to receive in the region and the US than a broadcast from Moscow perhaps?

As you listen to HMO1, who else is listening and were they recommended by Marta? It is an ENIGMA .....

*Many thanks Jose*

# Gizza Job



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# Chart Section Index

**Predictions**

**M01 Schedule**

**Family III**

**Polytones, XPA1, XPA2**

**En144**

**September 2024**

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x		x					0315		E11	03	11420 25#	11420 25#
x	x	x	x	x	x	x	0400		V13	0	11430	15388
x	x	x	x	x			0400/0420		S06	01A	11616/ 9322 480	11616/ 9322 480
	x		x				0445		S11A	03	10728 79#	10728 79#
x							0450		E11	03	5371 41#	5371 41#
x		x		x		x	0455		HM01	18	10860	10860
	x		x		x		0455		HM01	18	11462	11462
x	x	x	x	x	x	x	0500		V13	0	15388,18040	8169,11430,15388
x	x						0500/0510/0520 0530/0540/0550		XPB1	01B	13435/13935/14435 14835/15935/16225	13471/14771/15871 16271/17471/18271
x	x	x	x	x			0500/0520		M14	01A	12211/10243 952	12211/10243 952
	x		x				0500/0520/0540		XPA2	01B	10221/11121/12221	10238/11138/12138
			x	x			0500/0600	1/3	E06	01A	14370/16265 354	
x		x					0510		S11A	03	23004 65#	23004 65#
	x			x			0530		M01A	14	9441 751	9441 751
		x	x				0530		M01A	14	9129 or 9192 498	9129 or 9192 498
		x	x				0540		M01A	14	7692 536	7692 536
x		x		x		x	0555		HM01	18	10345	10345
	x		x		x		0555		HM01	18	14375	14375
x		x					0600		E11	03	19515 94#	19515 94#
				x		x	0600		E11	03	8680 35#	8680 35#
x	x	x	x	x	x	x	0600		V13	0	16134,11430	15388,11430
		x			x		0600/0620/0640		M12	01B	10831/11531/13431 854	10518/12218/13518 525
			x	x			0600/0700	1/3	E06	01B		18425/20230 186
	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	8423 51#	8423 51#
x		x		x		x	0655		HM01	18	9330	9330
	x		x		x		0655		HM01	18	13435	13435
x			x				0700		S11A	03	8597 47#	8597 47#
	x			x			0700		E11	03	8180 57#	8180 57#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
					x	x	0700		E11	03	9079 49#	9079 49#
x	x	x	x	x	x	x	0700		V13	0	8169	8169
						x	0700		M01	01B	6510 463	6510 463
x		x					0700/0720/0740		XPA2	01B	12152/13552/13952	13372/14672/15872
	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	19515 75#	19515 75#
	x			x			0715		E11	03	15720 63#	15720 63#
					x	x	0715		M01	14	<b>search</b>	<b>search</b>
	x			x			0720		M01A	14	9151 728	9151 728
		x	x				0725		S11A	03	21854 38#	21854 38#
x							0745		E11	03	10213 26#	10213 26#
	x		x				0745		E11	03	14865 22#	14865 22#
		x	x				0745		E11	03	17410 34#	17410 34#
x		x	x	x		x	0755		HM01	18	9065	9065
	x		x		x		0755		HM01	18	11365	11365
x	x	x	x	x	x	x	0800		V13	0	8169	8169
				x		x	0800/0820/0840		XPA2	01B	14374/14974/16274	15958/17458/18758
	x	x					0820		E11	03	19184 13#	19184 13#
			x	x			0820		E11	03	6807 43#	6807 43#
x				x			0830		E11	03	20170 18#	20170 18#
					x	x	0830		S11A	03	6433 37#, check	6433 37#
x		x					0845		E11	03	12202 71#	12202 71#
	x		x				0845		E11	03	18168 15#	18168 15#
		x	x			x	0855		HM01	18	9240	9240
	x		x		x		0855		HM01	18	11462	11462
x		x					0900		E11	03	13117 53#	13117 53#
x		x					0910/0930/0950		XPA2	01B	18206/16329/15824	17471/16149/14406
			x		x		0910/0930/0950		XPA2	01B	15859/14659/13459	17438/16338/15938
x				x			0915		S11A	03	6480 48#	6480 48#
		x	x				0930		E11	03	6940 27#	6940 27#

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
x	x	x	x	x	x	x	0930		M14	01A	16347 10.&25. 14878 11.&26. when msg	17458 10.&25. 15994 11.&26. when msg
		x					0930/1030		S06	01A	<b>search</b>	<b>search</b>
x		x		x		x	0955		HM01	18	9155	9155
	x		x		x		0955		HM01	18	12180	12180
	x			x			1000		E11	03	9951 30#	9951 30#
	x	x	x	x			1015/1025/1035		F01	01A	9128/ 7546/ 5113	11129/ 9082/ 7344
x		x					1045		E11	03	12385 69#	12385 69#
		x			x		1100/1110/1110 1130/1140/1150		XPB1	01B	13521/13421/12221 11521/11021/10521	16245/15825/14925 13525/12125/11425
	x						1100/1120/1140		M12	01B	11519/12194/13407 289	11519/12194/13407 289
x				x			1100/1120/1140		XPA2	01B	13431/12131/11431	14537/13437/10737
		x	x				1100/1120/1140		XPA2	01B	16117/14917/13517	14672/13472/12172
x	x	x	x	x	x	x	1200		V13	0	9276,13974	9276,13974
	x	x					1205		E11	03	9399 46#	9399 46#
		x		x			1210/1230/1250		XPA1	01B	12137/11137/10237	14564/13564/11464
	x		x				1230		E11	03	12530 33#	12530 33#
x			x				1300		E11	03	5371 31#	5371 31#
x	x	x	x	x	x	x	1300		V13	0	7688,11430	7688, 9276,11430 13974
	x			x			1300/1310/1310 1330/1340/1350		XPB1	01B	20017/19317/18037 17417/16217/15817	20075/19575/18175 17475/16275/14975
	x	x	x				1325/1425 sporadic		S06	01A	<b>search</b>	15674/12203 583
	x			x			1400		S11A	03	11420 42#	11420 42#
x			x				1400/1420/1440		M12	01B		20168/19468/16268 142
			x		x		1410/1430/1450		E07	01B	16228/15928/14928 594	15849/14849/13449 746
	x				x		1430		E11	03	14972 91#	14972 91#
					x		1500		M01	14	6260 463	6260 463
	x	x	x				1500/1600 sporadic		S06	01A	13896/10381 387	<b>search</b>
	x			x			1500/1520/1540		E07	01B	17452/16272/14875 428	17461/16161/14361 413
					x		1500/1520/1540		XPA2	01B	14373/13373/11573	13906/12106/10906
			x				1530		E11	03	10330 26#	10330 26#
x	x	x	x	x	x	x	1555		HM01	18	11435	11435
x			x				1600/1620/1640		M12	01B	19546/18446/13346 543	
	x		x				1600/1620/1640		XPA2	01B	13887/13387/11587	13542/12142/11442

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...
	x					x	1605		E11	03	5176 23#	5176 23#
		x			x		1610		E11	03	4181 39#	4181 39#
					x	x	1645		E11	03	4505 36#	4505 36#
x	x	x	x	x	x	x	1655		HM01	18	11530	11530
		x		x			1715		E11	03	6923 97#	6923 97#
			x				1730		E11	03	7864 41#	7864 41#
x						x	1745		E11	03	13470 24#	13470 24#
x	x	x	x	x	x	x	1755		HM01	18	11635	11635
	x		x				1800		M01	14	5475 463	5475 463
		x		x			1800/1820/1840		XPA2	01B	16351/14851/13951	14518/13418/12218
	x						1800/1820/1840		M12	01B	12162/11566/10711 546	12162/11566/10711 546
				x		x	1815		E11	03	11116 92#	11116 92#
	x			x			1840/1850/1900	1	F01	01A	13467/11084/ 9052	11136/ 9074/ 7723
		x			x		1850		S11A	03	10213 28#	10213 28#
x			x				1900		E11	03	7317 64#	7317 64#
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
		x		x			1900/1920/1940		M12	01B	13367/12167/10567 315	11135/10235/ 9235 122
				x			1900/2000	1/3	S06	01A	9925/ 7495 842	
				x		x	1910		E11	03	8530 61#	8530 61#
			x			x	2000		E11	03	5737 52#	5737 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	Jul kHz, ID, ...	Aug kHz, ID, ...	Sep kHz, ID, ...	Oct kHz, ID, ...	Remarks
x	x						0315		E11	03	16125 25#	16125 25#	11420 25#	11420 25#	since 01/14, last log 08/24
x		x					0445		S11A	03	9968 79#	9968 79#	10728 79#	10728 79#	since 05/22, last log 08/24
x							0450		E11	03	7469 41#	7469 41#	5371 41#	5371 41#	since 02/10, last log 08/24 2nd transmission Thu 1730z
x	x						0505		E11	03					since 10/11, last log 02/24 Mar/Apr/Sep/Oct at 1230z, Mai-Aug at 1645z
x	x						0510		S11A	03	16357 65#	16357 65#	23004 65#	23004 65#	since 08/19, last log 08/24
x	x						0600		E11	03	20170 94#	20170 94#	19515 94#	19515 94#	since 07/17, last log 08/24
				x		x	0600		E11	03	9150 35#	9150 35#	8680 35#	8680 35#	since 04/15, last log 08/24
x		x					0645		E11	03	8091 51#	8091 51#	8423 51#	8423 51#	since 07/09, last log 08/24
x			x				0700		S11A	03	9339 47#	9339 47#	8597 47#	8597 47#	since 04/10, last log 08/24
x			x				0700		E11	03	8680 57#	8680 57#	8180 57#	8180 57#	since 01/12, last log 08/24
				x		x	0700		E11	03	7377 49#	7377 49#	9079 49#	9079 49#	since 07/15, last log 08/24
x	x						0715		E11	03	15915 75#	15915 75#	19515 75#	19515 75#	since 06/21, last log 08/24
x			x				0715		E11	03	12530 63#	12530 63#	15720 63#	15720 63#	since 02/11, last log 08/24
	x		x				0725		S11A	03	20905 38#	20905 38#	21854 38#	21854 38#	since 05/14, last log 08/24
x							0745		E11	03	9610 26#	9610 26#	10213 26#	10213 26#	since 03/14, last log 08/24 2nd transmission Thu 1530z
x		x					0745		E11	03	14940 22#	14940 22#	14865 22#	14865 22#	since 01/20, last log 08/24
	x		x				0745		E11	03	15720 34#	15720 34#	17410 34#	17410 34#	since 06/17, last log 08/24
x	x						0820		E11	03	17378 13#	17378 13#	19184 13#	19184 13#	since 12/18, last log 08/24
		x	x				0820		E11	03	6252 43#	6252 43#	6807 43#	6807 43#	since 10/09, last log 08/24
x			x				0830		E11	03	16335 18#	16335 18#	20170 18#	20170 18#	since 07/15, last log 08/24
				x		x	0830		S11A	03	5149 37#	5149 37#	6433 37#	6433 37#	since 02/14, last log 08/24
x	x						0845		E11	03	12815 71#	12815 71#	12202 71#	12202 71#	since 09/10, last log 08/24
x		x					0845		E11	03	19184 15#	19184 15#	18168 15#	18168 15#	since 07/17, last log 08/24
x	x						0900		E11	03	11116 53#	11116 53#	13117 53#	13117 53#	since 10/05, last log 08/24
x			x				0915		S11A	03	6814 48#	6814 48#	6480 48#	6480 48#	since 04/19, last log 08/24
	x	x					0930		E11	03	6923 27#	6923 27#	6940 27#	6940 27#	since 02/14, last log 08/24
x			x				1000		E11	03	12153 30#	12153 30#	9951 30#	9951 30#	since 11/16, last log 08/24
x	x						1045		E11	03	10210 69#	10210 69#	12385 69#	12385 69#	since 03/18, last log 08/24
x	x						1205		E11	03	8274 46#	8274 46#	9399 46#	9399 46#	since 03/10, last log 08/24 2nd transmission Mon 0450z
x	x						1230		E11	03			12530 33#	12530 33#	since 10/11, last log 04/24 May-Aug at 1645z, Nov-Feb at 0505z
x		x					1300		E11	03	5737 31#	5737 31#	5371 31#	5371 31#	since 07/14, last log 08/24
x			x				1400		S11A	03	9448 42#	9448 42#	11420 42#	11420 42#	since 02/10, last log 08/24
x				x			1430		E11	03	12984 91#	12984 91#	14972 91#	14972 91#	since 10/15, last log 08/24
			x				1530		E11	03	10356 26#	10356 26#	10330 26#	10330 26#	since 06/14, last log 08/24 2nd transmission Mon 0745z
x				x			1605		E11	03	5231 23#	5231 23#	5176 23#	5176 23#	since 11/15, last log 08/24
	x			x			1610		E11	03	4783 39#	4783 39#	4181 39#	4181 39#	since 02/14, last log 08/24
x	x						1645		E11	03	14575 33#	14575 33#			since 10/11, last log 08/24 Mar/Apr/Sep/Oct at 1230z, Nov-Feb at 0505z
				x		x	1645		E11	03	5082 36#	5082 36#	4505 36#	4505 36#	since 03/14, last log 08/24 2nd transmission Thu 1530z
	x		x				1715		E11	03	7863 97#	7863 97#	6923 97#	6923 97#	since 02/15, last log 08/24
			x				1730		E11	03	8088 41#	8088 41#	7864 41#	7864 41#	since 03/10, last log 08/24 2nd transmission Mon 0450z
x				x			1745		E11	03	14410 24#	14410 24#	13470 24#	13470 24#	since 04/18, last log 08/24
			x		x		1815		E11	03	12229 92#	12229 92#	11116 92#	11116 92#	since 05/16, last log 08/24
	x			x			1850		S11A	03	12457 28#	12457 28#	10213 28#	10213 28#	since 06/17, last log 08/24
x		x					1900		E11	03	7600 64#	7600 64#	7317 64#	7317 64#	since 05/16, last log 08/24
			x		x		1910		E11	03	9610 61#	9610 61#	8530 61#	8530 61#	since 04/17, last log 08/24
		x			x		2000		E11	03	5409 52#	5409 52#	5737 52#	5737 52#	since 05/15, last log 08/24



**XPA1 Wednesday/Friday schedule**

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

**XPA2 p Schedule**

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

**SPECIAL MATTERS**

Thanks to all our contributors:  
Ary, BR, Brixmis, DanAR, 'DE2TRF' via 'Drew', dMHz, H-FD, Jochen, Malc, PLdn, PoSW, RINGB  
Apologies to anyone missed.



**MESSAGES:**

E: Many thanks your input. SWLEOC did their job well and just a limp now. When there I took tiny SA to look at background but not much in hospital. Suspect demolition and building works as cause of QRM.

**RELEVANT WEBSITES**

ENIGMA 2000 Website:

<http://www.enigma2000.org.uk>

Time zone information:

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

Encyclopedia of Espionage, Intelligence, and Security

<http://www.espionageinfo.com/>

# 2024

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	29		

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					

October						
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		

November						
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

December						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

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