# ENIGMA 2000 NEWSLETTER



http://www.enigma2000.org







## A Walk in London

Left:The sign on Marconi House detailing 2LO transmission [BBC London] © Male AnonRight:Barracks on Kensington Gore [Note Antennas]© Manchester Ringway

### NUMBERS STATIONS FROM THE POLISH ARCHIVES by TOMASZ CHOPIN Page: 4



ISSUE 145 November 2024

http://www.enigma2000.org



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#### <u>REMINDER:</u> 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**

A quick thank you to Barry who kindly reminded E2k our QR Code was out of date. Now sorted!

#### A V13 update from Ary, who writes:

I am working with a couple Chinese speaking dxers who closely follow V13. The station's message formats have changed a while back and these are still in use. We therefor propose to add two suffixes:

V13 (regular classification) : Standard format. AM/USB hybrid, introductory phrase spoken twice, three messages addressed to three different units, group counts between 30 and 35.

V13a: AM mode, introductory phrase spoken only once, analog voice synthesizer, 5-7 messages addressed to 5, 6, or 7 units with group counts between 20 and 39.

V13b: AM/USB hybrid, introductory phrase spoken twice, 4 messages to 4 units, longer group counts between 50 and 69 in each message.

Please update your Active Stations List.

#### A hearty thanks to Ary and the two Chinese DX ers.

Short wave propagation over the last few months has been somewhat variable with wide variations in signal strengths noted especially with some of those E11 schedules using the higher frequencies. Much comment on the local TV news in the first half of October about the appearance of the Northern Lights - Aurora Borealis - being seen further south than is usual due to the Sun's activity, which has happened several times this year. I noticed that on the 7<sup>th</sup> at around 2130 UTC the Shannon VOLMET station on 5505 had the distinct rapid flutter effect which suggested auroral activity.

**HM01 Mixed Mode** from Cuba on 13435 kHz:- Nothing heard! This station which was heard with strong signals on the majority of days throughout a large part of the summer months, i.e. late May, June, July and a large part of August, starting some time after 0655 UTC, was last heard on 22-August and despite monitoring the frequency from around 0650 UTC for at least half an hour on most days since then - nothing has been heard. Strange that it should vanish so abruptly but there has been coverage in the media in recent weeks about a problems with the electricity supply in Cuba with widespread and long lasting power cuts so perhaps the absence of HM01 is connected in some way with this.

**My own** monitoring started on 02/09 with XPA2 p Mon/Wed. Apart from the threat of lightning [gets pretty lively up here in one of the hightest points in London – QTH 73.8M ASL] there's always a radio noisy background. I was expecting the usual weak signals seen over the last months but reading the solar indices indicated better behaviour on the lower HF bands. Usually a poor performance expected on 20M and below; not so today with good performance indicated, and seen from 10MHz onwards:



#### 0800z 02/09

As the summer carried on conditions became variable as we have seen; as we move into Autumn [Fall to those over in the US] the weather became worse but the condition a little better. In one of the highest points of London we've been blighted with lightning as well as threats of lightning meaning some stations were not monitored.

Along with these conditions where a lot of NRH or unworkables, Hans-Friedrich reminded us of apparent lost schedules:

Missing skeds [Absent for 3 month, via H-FD]

M12 Mon/Thu 1600z missing in July 16284/14984/14384 kHz 293 missing in August 16251/14951/14451 kHz 294 missing in September 19546/18446/13346 kHz 543

XPA2 Fri/Sun 0800z missing in July 13391/13891/14891 kHz missing in August 13962 14862 15962 kHz missing in September 14374 14974 16274 kHz

The solar data as seen a few days before the 11thOctober gave an insight into the approach od something special and I had predicted what might occur on the night of 11<sup>th</sup> during breakfast

Solar-Terrestrial Data - http://www.n0nbh.com								
11 Oct 2024 0906 GHT	VHF Conditions	HF Conditions						
SFI 216 SN 134	Item Status	Band Day Night						
A 96 K 7/Plntry	Aurora MID LAT AUR	80n-40n Poor Poor						
X-Ray C1.8	6m ESEU Band Closed	30n-20n Poor Poor						
304A 154.4 @ SEM	4m ESEU Band Closed	17n-15n Poor Poor						
Ptn Flx NoRpt	2m ESNA Band Closed	12n-10n Poor Poor						
Elc Flx NoRpt	2m ESNA Band Closed	Geonag Field SEV STRM						
Aurora 5/n=1.99	EME Deg Poor	Sig Noise Lvl S9+						
Aur Lat 62.5°	MUF	MUF US Boulder NoRpt						
Bz -19.9 SW 664.5	MS 6 12 18 UTC	Solar Flare Prb 668						

Poor conditions event in mornings scan were to be seen:



0917z 11/10

In the evening I poked my head out of our back door and saw first knockings of the aurora towards the general west. Going to our top floor we looked out to be rewarded with this:



Looking appx 41° and not at all bad considering the light pollution seen in the London skyline. Better was to come from my daughter from Meldreth, a village outside Royston, Cambs:



Not aware of any doctoring, but one image seen on social media from across the lake at Crystal Palace park was showing an almost fluorescent green curtain and that is not what anyone else reported.

## **Book Review**



#### The Siege, Ben Macintyre

Strange to think this happened 34 years ago; like many of my age I can bore you to death telling you what I was doing as this lot unfolded.

Ben Macintyre, it seems from the book, can do it better and in a more exciting way. I have a copy courtesy of Waterstones [Bluewater] and although I have yet to read it I was taken with the few snatches I read prior to buying.

Before I bought it our NI member sent me the BBC link: https://www.bbc.co.uk/sounds/brand/m0022z2y

If you listen you'll agree its sounds very good.

Recommended? Certainly!

This will be the last newsletter of 2024; the list owner and moderators particularly wish all those who have contributed throughout 2024, our members, those of N&O and Priyom and all other readers Compliments of the Season.

## **Happy Christmas**

## Before Newsround we take great pleasure including this article on the Polish Number Station perspectives:

### NUMBERS STATIONS FROM THE POLISH ARCHIVES by TOMASZ CHOPIN

An interesting article appeared in 2007 in the technical journal Cryptolog/a concerningnumbers stations written by an academic here in Poland named Jan Bury. It explored ciphersand the interception of American and West German agent communications by Polish statesecurity (UB/SB) here in Poland during the Cold War.

The basis of the article was a declassified Top Secret Polish counter-intelligence report from April 1975 covering ciphers and one way radio links used by the CIA/BND in its operations against us during the 1960 -70s.

This paper from our Institute of National Remembrance (which holds the State Security archive) provides a unique insight into the world of the numbers stations. I provide some parts of it which are of interest to ENIGMA 2000 and a few thoughts of my own.

The existence of the Iron Curtain and great state surveillance ensured that the recruitment and running of human intelligence sources in Soviet occupied Europe was extremely difficult.

One way radio links were thought by intelligence agencies as being anonymous and secure with no personal contact. Even in the socialist east the presence of a commercial radio receiver with the SW band would not create suspicion. The receipt of numbers stations would be very hard to detect unless an individual was under tight surveillance or monitors were close to the equipment. Further, only limited training was required in radio communications and decoding messages. The previously Top Secret report from our state security services notes that from 1960-75 twelve foreign agents were detected in Poland who were using radio to receive instructions.

Four of them worked for the US and eight for West German intelligence. The BND sent messages to Poland via a transmitter in Frankfurt from February 1959 and this station covered the whole of Europe. Polish security estimated that 200 agents received data from this station. The first agent to receive a message was Erwin Kuhnert who was recruited by the BND in August 1959 and arrested in November 1960. The other seven German agents were all collaborating with Polish State Security either after being detected or having been sent to be recruited by the BND and then being used by us as secret collaborators playing the counter-intelligence games.

In the 1950s there were many cases of resistance organisations being penetrated and used by the authorities in Poland and other Warsaw Treaty states.

Kuhnert had the callsign 840 and used an Accord radio receiver with a cipher key based on the words DEIN STAR. He was found to have 35 cipher pads with 170 groups on each page.

The controlled agents used Sanyo and Braun receivers with messages being sent to them on three days each week. Their cipher groups were on a narrow paper roll and they had the callsigns 062, 228, 287, 474, 626, 841 which did occasionally change.

The BND had another radio transmitter in Munich and one controlled agent maintained communications with this site having previously being controlled from Frankfurt. This person

used the DEIN STAR key and had cipher pads for one year. The Munich station was said to be constantly on the air and had global coverage for 220 agents (is this figure accurate if the callsigns were sometimes changing?) BND cipher pads and instructions were on long thin,narrow strips of paper known as "bug rolls" with messages being broken out in German as the agents in Poland had a good command of our neighbours language. They also received training in decoding the broadcasts when they were recruited.

The DEIN STAR table to decode the messages had numbers 0-9 along the top with DEIN STAR written underneath with the rest of the alphabet after it. There were two digits on the side of the grid and it was read like a map. Another grid using the Polish words ZA OWIES was used for non-German speakers and a similar grid for decoding the message, It sounds complex but likely okay when done a few times.

The Frankfurt station broadcast on afternoons and evenings on Monday, Thursday and Sunday on frequencies 3370 and 4010 with an agent having ten opportunities to receive their message. In October 1974 one controlled agent had twenty opportunities each week to hear a broadcast on two frequencies. The Munich station broadcast on Monday, Wednesday, Friday and Sunday at 2000 and 2130. The frequencies were 4543, 5015, 5181, 5182, 5732, 5770, 7740 and 7858kHz. Agents with transmitters were told which crystal to use from frequencies 2656 to 12210.

All BND callsigns were three digits with a Foxtrot melody as well for five minutes. The first group would indicate the correct pad to use and the broadcast numbers would be subtracted from the digits on the pad with no carrying of numbers. This would then be compared to a table and key to reveal the message. Methods varied from agent to agent perhaps?

Our State Security noted that the American CIA avoided BND fixed elements such as the key, schedules or call signs. The US would provide a radio receiver, keys, tables, pads and a book cipher. Their system was more complex and time consuming than the West German.

For example, an agent called Jerzy Strawa used a trade fair catalogue for his CIA messages and keys based on the words KARTEN, KOSAK and his wife's date of birth. The word KARTEN was written along the top of a grid and KOSAK down the left and this was used to locate letters on a grid. A book could also be used to fill in the grid.

The date of the radio transmission was used as the day of the year then ten was added to it. This gave the page number of the book. The day of the month indicated the verse on the page and this was copied to produce groups in lines of ten characters. A table covered in letters was then used to break out the message. He also had a burst data receiver and cipher pads. His book was later changed to a health lexicon at some stage.

Strawa used a Telefunken receiver and was an official in our Ministry of Foreign Trade. He travelled frequently to West Germany and was recruited by the CIA in 1960. He was trained and reported on economics, factories and defense installations. He sent over 150 secret writing reports and one was intercepted by State Security who detected secret writing chemicals. He was traced by his handwriting and placed under surveillance.

Bugging wasuseless because he used headphones with his radio so no received messages were heard in his apartment. It was noticed that he did not leave his flat on a certain day after a certain time which fitted with a change in the timing of his CIA broadcast. His apartment was searched upon his arrest and spy materials were found. He had spied mainly for money and was executed by firing squad in 1967. Despite this more people continued to work for the west with the appeal of money and a better life likely encouraging them.

The secret Polish collaborators used 5 x 8.8cm cipher pads with a variety of keys using subtraction with no carrying over and the two digit groups were compared to a key. Our State Security noticed that broadcasts also came from London, Cyprus, Athens, Ankara and Bodoin Norway.

The CW broadcasts had power of 1-10kw with AM voice using 10-20kw. Voice messages had 10-80 groups with 46 digit morse sent at 4-20 groups per minute. According to the report, BND used one way links from 1956 to communicate with agents behind the Iron Curtain. Two way operations were used in the Third World. From 1957 the BND used burst transmissions which were hard for Polish special services to detect. In 1973 one hundred bursts were detected but only five in 1977, likely as technology improved. The callsign DFD21 was noted on 4010kHz from 1953 and DFC37 on 3370kHz from 1951 according to the document.

Ordinary commercial SW receivers were used in operations but the BND sometimes provided a transverter if the agent's radio did not have this band. The unit had a 4.5v battery with two sockets and crystals. The external antenna went in one socket and the second socket connected to the aerial socket of the radio so turning it into a SW set. The BND advised unplugging the crystal from the radio so it did not oscillate when not in use in order to defeat SIGINT.

In the 19605 portable burst transmitters entered service which ran on mains power or batteries with a speed of 90-360 baud. Some used magnetic tape and in January 1977 a BND broadcast of 600 baud was detected.

These are interesting revelations from declassified communist-era official papers. How much more is hiding in the files around the world such as KGB monitoring of stations? Where are all these agents now, dead or retired?

It is interesting how many of the agents in Poland were false and how did they deceive the west? We were a top intelligence target as any attack on NATO would have to be supported by Polish road and rail with our military part of the Soviet planning process. We were probably an easier intelligence target than USSR with many Polish people in the west with contacts in the country and more access to us thanSoviet citizens, military and officials.

Many Poles also not liked the Soviet presence and the country not being free despite England having gone to war in 1939 for us. After all the fighting we were still not free or independent! Many Poles were murdered after the war but people were still willing to help the west at great risk. The agents in the period covered by the report gathered military, defense. political and economic data. but many had no specific task or target. They were eyes on the ground with hearing as well (not just for numbers)!

Long messages often related to money/payments or comments on reports sent to the west using invisible ink or address changes for secret writing to be sent to.

Our position in Europe makes us at risk from a traditional enemy and on the front line of any future conflict in a dangerous and unstable world which can change quickly.

Intelligence is vital to national survival and the radio communications continue to this day as you all know.

73!T.C Many thanks for a very interesting article Tomasz

## Newsround

### **Great Britain**

### Diplomats expelled after engaging in 'classic British espionage'

#### $\label{eq:https://www.telegraph.co.uk/world-news/2024/09/13/moscow-british-diplomats-expelled-russia-ukraine-zelensky/\#1726221744617$

Six diplomats were expelled by Russia after officers became "tired" of chasing them around Moscow as they engaged in "classic British espionage", an FSB employee told Russian state-controlled news channel Rossiya-24.

This reportedly included making rapid changes of public transport and "sitting for several hours on benches in the freezing cold" as they waited to meet members from banned groups.

Their spouses were allegedly deployed as spies, while young children were used to 'cover up' their spying activity, the officer added. "Basically, one cannot speak of any diplomatic etiquette," the officer told the news channel.

#### 10:48AM

UK attacks 'baseless' Russian claims that six diplomats are spies The Foreign Office has rejected Russia's "baseless" claims that six British diplomats who were expelled from Moscow were spies.

"The accusations made today by the FSB against our staff are completely baseless," an FCDO spokesman said.

"The Russian authorities revoked the diplomatic accreditation of 6 UK diplomats in Russia last month, following action taken by the UK government in response to Russian state directed activity across Europe and in the UK.

"We are unapologetic about protecting our national interests."

#### 10:26AM

Russian media names expelled diplomats

Russian state media have named the diplomats expelled from Moscow as Jessica Davenport, Grace Elvin, Callum Duff, Catherine McDonnell, Thomas Stevenette and Blake Pattel.

Ms Davenport was previously a second secretary and assistant to Nigel Casey, the Russian ambassador. Mr Duff, Mr Pattel and Mr Stevenette are also second secretaries, according to the Russian foreign ministry website. Ms McDonnell is a first secretary.

#### 10:09AM

British expats 'expelled from Moscow in August'

Six British diplomats who were expelled from Moscow over accusations of spying and sabotage left the country in August, a Whitehall source told Sky News.

Their removal was part of a wave of tit-for-tat expulsions, the source added.

Russia said on Friday it had revoked the accreditation of six British diplomats in Moscow whose actions it claimed showed signs of "spying and sabotage".

The FSB said it had documents showing that a British Foreign Office department in London was coordinating what it called "the escalation of the political and military situation".

The six diplomats were named on Russian state TV, which reportedly showed photographs of them leaving the country.

https://www.telegraph.co.uk/world-news/2024/09/13/moscow-british-diplomats-expelled-russia-ukraine-zelensky/#1726221744617

### Ambassador tells Chinese students at Cambridge University to 'serve the motherland' Zheng Zeguang's private visit is latest in string of meetings with country's citizens at British universities

China, University of Cambridge, Students, International students, Education News 20 September 2024 5:58pm

 $\label{eq:https://www.telegraph.co.uk/news/2024/09/20/chinese-ambassador-students-serve-motherland-cambridge-uni/?msockid=283b815d6ce961c51aa494576d766088$ 

Ambassador Zheng Zeguang also urged the students to become 'capable of shouldering heavy responsibilities' following the completion of their degrees The University of Cambridge hosted a private visit from the Chinese ambassador last week, during which he told Chinese students to "serve the motherland", The Telegraph can reveal.

Zheng Zeguang, the country's ambassador to the UK, was welcomed to the institution last Thursday where he held discussions with senior officials, including Prof Deborah Prentice, Cambridge's vice-chancellor.

Mr Zheng was also allowed to pay a "special visit" to Chinese students during the trip, where he told them to "take patriotism [for China] as the foundation" of their studies at Cambridge.

He was also allowed to hold meetings with Chinese students at Oxford and Nottingham universities in April.

A report of the Cambridge visit in Chinese media said the ambassador told around 20 Chinese students they should "serve the motherland as soon as they finish their studies and become pillars of the country who are capable of shouldering heavy responsibilities".

Mr Zheng also "briefed the students on the achievements of China's development [and] inspired them to love the country", it added.

Cambridge currently hosts about 2,000 Chinese students, who make up the largest international intake at the university.

It marks the latest in several private meetings between China's ambassador to the UK and Chinese students enrolled at British universities in recent months.

Zheng Zeguang, China's ambassador to the UK, met with several senior officials, including Prof Deborah Prentice, Cambridge's vice-chancellor, during his visit to the university

Mr Zheng visited the universities of York and Birmingham last summer, where he met with Chinese students and called on them to "keep in mind" the teachings of Xi Jinping, the Chinese president.

None of the universities appear to have shared any details of the events on their official websites or UK social media, although Chinese state photographers were welcomed to the events.

It comes after growing concerns about Chinese influence over UK universities and fears that Chinese Communist Party officials are surveilling students from afar.

The Telegraph understands that the Chinese embassy has persistently messaged some universities in recent months asking to arrange meetings with their Chinese student bodies on campus.

#### 'Exerting influence'

MPs and peers on Parliament's intelligence and security committee claimed last year that Beijing had actively sought to "monitor and control Chinese students' behaviour" at British universities through a network of more than 90 student Chinese student groups, partly funded by the Chinese embassy.

It warned that there was a "culture of fear and suspicion among Chinese students in the UK", and that "pressure is exerted on institutions, academics and students to prevent engagement with topics that harm the positive narrative presented by the Chinese Communist Party".

Lord Patten, the outgoing Oxford chancellor, told The Telegraph last week that he was concerned that universities are treating Chinese students differently to their peers "for fear of being ticked off by the Chinese government".

"How do you make sure that there aren't reports going back to the Chinese government and the Chinese authorities about the way another Chinese student or a Hong Kong student is behaving? I mean, we shouldn't pretend to ourselves that those things don't happen," he said.

#### Protests in Hong Kong in October 2014

Concerns have been raised that China could be spying on students in the UK who fled Hong Kong following restrictions on protests in the territory More than 150,000 Chinese students are currently enrolled at British universities and until recently they made up the largest foreign student intake of any country.

The number of students from India overtook China for the first time last year, but applications from many countries are thought to have dwindled in recent months because of the new ban on student dependants.

It could mean Chinese students, who are favoured by universities since they typically come to the UK without family members and have more disposable income, will be lured to fill the gap.

Previous analysis by The Telegraph found they contribute about £5.9 billion to the UK university sector through tuition fees alone.

A report by the Civitas, a think tank, published last November also showed that UK higher education institutions received up to £156 million in funding from Chinese sources between 2017 and 2023.

About a third of that, or as much as £51 million, came from sources linked to the Chinese military or entities banned by the US, the study claimed.

Cambridge University received between £18 million and £44 million from 24 separate Chinese entities over that period, according to freedom of information requests.

The Chinese government said it hoped its collaboration with the University of Cambridge would 'deliver more fruitful outcomes' At last week's meeting in Cambridge, Mr Zheng and Prof Prentice are said to have discussed "the prospect of continuing to develop mutually beneficial cooperation with Chinese universities", according to a post on the Chinese government's website.

It added that the Chinese embassy "hoped that Cambridge's collaboration with China will deliver more fruitful outcomes".

Parliament's intelligence and security committee report, which was published last year, said that "academia provides China with a key means of exerting influence" in Britain.

It added: "Chinese attempts to interfere with and stifle debate amongst the academic community in the UK are a significant problem, made possible by China's academic 'buying power'."

#### Security concerns 'groundless'

Sir Keir Starmer, the Prime Minister, has so far declined to call China a "threat" since winning the election, but has launched a major new defence review and a separate audit of UK-China relations.

Lord Robertson of Port Ellen, a former secretary-general of Nato and the external head of the review, warned in July that China was among the countries that posed a "deadly" threat to Britain.

He said China was becoming increasingly confident and that "what happens in the Asia-Pacific can happen in the Euro-Atlantic very quickly afterwards".

A Cambridge University spokesman said: "Like many other universities, we regularly welcome overseas ambassadors who ask to visit students from their countries.

"The University of Cambridge is not and never has been dependent on China. Less than 1 per cent of our annual research grant is derived from China."

The Chinese embassy told The Telegraph that its official policy is to "encourage Chinese students studying in the UK to return to China and contribute to the nation after completing their studies here, and it reflects the expectations of the Chinese government towards overseas students".

A spokesman added: "Educational exchanges and co-operation between China and the UK are in the interest of both sides.

"The ambassador and our diplomats will continue to visit British educational institutions and schools at invitation, to promote bilateral exchanges and co-operation with the UK side.

"The so-called security concerns over China-UK educational co-operation are groundless.

"We care deeply about overseas Chinese students and are resolute in safeguarding their personal safety and legitimate rights and interests, and will continue to learn about their situations through visits and provide them with better services.

"It is also the common practice and duties for the embassies of other countries."

A spokesman for Oxford University said: "The vice-chancellor, as part of her duties, regularly meets with ambassadors to the UK. She was pleased to accept Mr Zheng's offer to meet, making him the seventh ambassador she had met since being in office.

"Under our free speech policy, students are at liberty to attend events expressing a variety of views, and also to explore challenging and dissenting views."

The Telegraph understands that no university staff were present in the meeting between Mr Zheng and Oxford students during the visit to the university in April and that it was arranged independently by the Chinese embassy.

Sam Dunning, director of UK-China Transparency, said: "As highlighted by research from Amnesty International, UK-China Transparency, and others, the Chinese Communist Party monitors and harasses dissident students at UK universities. There is strong evidence that Chinese diplomatic staff are complicit in this.

"UK universities have a legal responsibility to take steps to protect the freedom of speech of all their students. Did Cambridge executives raise this with the ambassador? Will they speak out in defence of their members? Or is this a taboo topic for our great centres of learning?"

https://www.telegraph.co.uk/news/2024/09/20/chinese-ambassador-students-serve-motherland-cambridge-uni/?msockid=283b815d6ce961c51aa494576d766088

### Israel [Technical]

### The Iron Dome's drone flaw – and how to fix it Sensors could be solution as forces worry that drone 'swarms' could overwhelm Israel's urban centres

Jotam Confino Tel Aviv 14 October 2024 7:00pm BST

https://www.telegraph.co.uk/world-news/2024/10/14/israels-iron-domes-drone-flaw-and-how-to-fix-it/

Israeli soldiers hadn't even finished their dinner when they heard a "crazy boom" at their training base in northern Israel.

"The iron door bent. We didn't know what happened, and suddenly something pierced through the ceiling. We didn't hear anything before, just the huge blast. No sirens went off," a soldier inside the Golani Brigade training base told Ynet news.

The boom was caused by a Hezbollah-launched drone that evaded Israeli fighter jets and struck the base in Binyamina, just south of Haifa. Four soldiers were killed in the attack, with 60 more injured.

The Israeli army's preliminary investigation into the attack revealed that the Lebanese terror group launched two Sayyad 107 drones from the Mediterranean into Israeli airspace shortly before 7pm local time.

One drone was detected and intercepted near the coastal city of Nahariya, but the other evaded Israeli tracking by lowering its altitude, before hitting the elite Golani brigade training base in Binyamina, northern Israel.

Tables were largely left intact, but pools of blood permeated the dining room, hallways and kitchen.

It was the deadliest drone attack launched against Israel since Oct 7. But it was by no means the first.

Israel has been attacked by hundreds of drones in the last year, mainly by Hezbollah in Lebanon, but also from Yemen, Syria, Iraq, and Iran.

Earlier this month, two soldiers were killed in the Golan Heights when a drone from Iraq hit their base.

Images from inside the dining hall of the Golani Brigade training base near Binyamina after a Hezbollah drone attack, resulting in the deaths of four recruits

On July 19, the Houthi rebels sent a large drone from Yemen all the way to Tel Aviv without detection. The drone smashed into an apartment building, killing an Israeli civilian.

The Iron Dome's fatal flaw

While most of the focus has been on Hezbollah's huge collection of precision-guided missiles, Israel has found that much smaller and less aggressive drones are posing just as big of a challenge, if not bigger.

In the past 12 months, hundreds of drones from Lebanon, Iraq, Syria, Yemen and Iran have infiltrated Israeli territory on a daily basis, often without setting alarms.

The drones have crashed into apartment buildings, highways, kindergartens, and military installations.

Some experts fear that the rise in these attacks have exposed a possible flaw in the Iron Dome: it wasn't designed to deal with drones.

The Iron Dome consists of a series of batteries that use radars to detect short-range rockets, missiles and drones.

But the prevalence of cheap drones, as also seen in the war in Ukraine, has been causing problems for Israel owing to their ability to evade the Iron Dome.

The drones are often flown through Israel's northern mountains and valleys at "a very low altitude", according to Amnon Sofrin, the former head of Mossad's intelligence directorate.

That the drones are flown at low altitude means they are often under the Iron Dome's radar, making it "very difficult" for the Israeli military to shoot them down, as played out in Binyamina on Sunday and Yemen in July.

How Hezbollah are using this to their advantage

James Patton Rogers, a drone expert and executive director of the Cornell Brooks Tech Policy Institute, suggested this reflected a "broad neglect of air defence for over a generation", which non-state actors like Hezbollah have sought to capitalise on.

"They fly [drones] slowly and reduce their electronic output to reduce their radar signature and chance of detection, and have increasingly used materials like carbon fibre that are harder to detect," he added.

#### The cure

The fact that Hezbollah was able to fire an undetected drone and strike an Israeli air base, killing several soldiers, raises serious security questions for Israel.

Defence chiefs face the prospect of further drone "swarms" that could overwhelm urban centres.

Onn Fenig, who runs a defence software company, says he is working on a solution to the drone issue.

"A 1000-pound drone can take out a three million-pound tank. We have seen this in action in Ukraine and this is what the IDF should assume it will face in Lebanon, if and when a ground entry happens," he warned in an interview with The Telegraph.

His software works by using AI-powered sensors that could be placed all across Israel and algorithms to detect drones flying low in the sky.

The drones are picked up by R2's sensors in real time, before being classified and geolocated

The information would be automatically channelled to the IDF who could shoot the drones down with traditional weaponry or targeted air defence systems.

He said the IDF is working with R2 in "various contexts and locations to detect drones" but is yet to incorporate its new software.

In the meantime, the Pentagon confirmed it would send a missile battery to bolster Israel's defences in anticipation of a further barrage from Iran.

Asked on Sunday why he had taken the decision, Mr Biden replied: "To defend Israel."

The decision was taken after Iran fired 180 ballistic missiles at Israel, piercing its Iron Dome defence system in some places.

https://www.telegraph.co.uk/world-news/2024/10/14/israels-iron-domes-drone-flaw-and-how-to-fix-it/

### Pakistan

### Who is Pakistan's new spy chief Asim Malik? A decorated officer, Malik takes charge of an agency that's often caught in controversy but is central to the functioning of the armed forces.

Lieutenant General Asim Malik has been appointed as chief of Pakistan's premier intelligence agency ISI [Handout/Inter-Services Public Relations] By Abid Hussain Published On 24 Sep 2024 24 Sep 2024

#### https://www.aljazeera.com/news/2024/9/24/who-is-pakistans-new-spy-chief-asim-malik

Islamabad, Pakistan – Pakistan's military has announced the appointment of Lieutenant General Asim Malik as the new head of the country's premier intelligence agency, the Directorate of Inter-Services Intelligence (ISI).

Malik will assume his role on September 30.

Before this appointment, he served as the adjutant general (AG) at the army's general headquarters, overseeing military administrative affairs, including legal and disciplinary matters, for the past three years.

The ISI chief is often seen as the second-most powerful person in the military after the Chief of Army Staff — in a country where the military is the most powerful institution.

The outgoing ISI chief, General Nadeem Anjum, took office in November 2021 under then-Prime Minister Imran Khan. His tenure, extended by a year in September 2022, coincided with significant political upheaval, including Khan's ouster through a parliamentary vote of no confidence in April 2022 – a move Khan attributed to military interference, a charge that the military has consistently rejected.

Malik, a highly decorated officer who enjoys goodwill within Pakistan's close-knit military community, has not been immune from that tumult either.

Who is Asim Malik, the new ISI chief?

Malik, 59, has no direct experience in intelligence-related postings but has commanded infantry divisions in Balochistan and an infantry brigade in South Waziristan, areas that have been hotbeds of violence for nearly two decades.

He has also served as an instructor at Pakistan's National Defence University and the Command and Staff College in Quetta.

A top-performing cadet during his training, Malik is the son of Ghulam Muhammad Malik, who was a three-star general in the 1990s and held prominent positions during his career.

Asim Malik is a graduate of the Royal College of Defence Studies in London and Fort Leavenworth in the United States, where he wrote a thesis on mountain warfare.

Retired Lieutenant General Naeem Khalid Lodhi, who served with Malik's father, describes the incoming spy chief as a quiet yet highly respected officer.

"Even as the AG, he did substantial work for the welfare of retired soldiers, particularly concerning pensions and other related issues," Lodhi told Al Jazeera. He said Malik is credited with resolving concerns over delays in pensions and the medical treatment of veterans during his time as AG.

However, Malik's tenure as AG also coincided with a crackdown on former PM Khan and his Pakistan Tehreek-e-Insaf (PTI) party, leading to the arrest of numerous party supporters and leaders.

After Khan was detained briefly on May 9 last year, many PTI supporters went on a rampage and damaged public property and military installations. Thousands were arrested, and just about 100 individuals faced military trials under the supervision of the AG.

Last year, the army also announced prison sentences for two retired officers – a major and a captain – on charges of "inciting sedition" after court-martial proceedings. In August, former ISI chief General Faiz Hameed, along with three other former military officials, was also arrested for court-martial proceedings.

#### Advertisement

A former colleague of Malik, a retired general, says his appointment reflects the trust placed in him by General Asim Munir, the current army chief.

"In normal circumstances, with his career trajectory, Malik would have been given command of a corps. But with less than 20 months until his retirement, that's unlikely. His appointment to the ISI underscores the strong confidence Munir has in him," the former general said, requesting anonymity due to his familiarity with Malik.

However, he also acknowledged that the roles of AG and ISI chief come with inherent controversies and that, in many ways, Malik must now in his new job be willing to do the dirty tricks his current role would have needed him to drown upon.

"AG's job is to ensure complete discipline in the institution and to take to task those who fail to uphold it. Whereas in the ISI, the job requires one to undertake unsavoury tasks which are controversial by nature," he added. "Both these positions contradict each other."

#### The legacy of the outgoing ISI chief

Founded in 1948, the ISI is Pakistan's equivalent of the CIA in the US, the British MI6 or India's Research and Analysis Wing (RAW). While the agency officially reports to the prime minister, the army chief recommends the appointment of its head.

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However, the intelligence agency is also highly controversial, with its critics describing it as a "state within a state".

The Pakistani military itself remains the single most powerful institution in the country, which wields considerable influence on the country's political and foreign policy sphere, with the ISI often playing the role of enforcer.

Anjum's appointment as ISI chief in November 2021 was contentious, causing a rift between then-army chief General Qamar Javed Bajwa and then-Prime Minister Khan.

At the time, General Hameed, now facing a court martial, was the ISI chief, and Khan insisted he should continue in the role. Khan's critics say Hameed was seen as Khan's enforcer against his political rivals — a charge the former PM has repeatedly denied.

However, critics allege that under Anjum, the ISI continued to act in a manner that could be viewed by some as politically partisan, through its role in the crackdown against Khan's political party, PTI.

"I personally feel that Hameed was the wrong choice to lead ISI, but was brought by Bajwa, then army chief, to do his bidding," said the former general who was also Malik's colleague. "However, Anjum's era saw a doubling down on those policies of repression and surpassed those."

The military and the ISI have consistently denied acting against Khan and his party because of political reasons, arguing that the crackdown against the PTI has been driven by legal considerations alone.

#### What lies ahead for the ISI under Malik?

Lodhi said he doubts whether Malik's appointment could portend major changes in the ISI's functioning.

"The way institutions work, these appointments don't change direction or policies in a drastic manner," he said.

The former three-star general, also a former war college instructor, echoed this sentiment. "Every new leader brings some change. Malik is known as a 'gentleman officer' – decent and well-regarded. But whether he can significantly improve the institution's legacy remains to be seen."

Source: Al Jazeera

https://www.aljazeera.com/news/2024/9/24/who-is-pakistans-new-spy-chief-asim-malik

### Russia

## Russia expels 6 British diplomats it accuses of spying. The UK calls it 'completely baseless'

By DASHA LITVINOVA and JILL LAWLESS Updated 11:18 PM BST, September 13, 2024

https://apnews.com/article/russia-uk-spying-7845e3554c753388e8c952733589fb7f

Russia on Friday accused six British diplomats of spying and said it decided to expel them. The U.K. said the "completely baseless" move came weeks ago and was linked to its action in May to revoke the credentials of an attaché at the Russian Embassy and limit Moscow's diplomatic activities in London.

The latest East-West tensions unfolded as British Prime Minister Keir Starmer visits Washington for talks that will include Ukraine's request to use Westernsupplied weapons to strike targets inside Russia. President Vladimir Putin has warned that Kyiv's use of long-range weapons would put NATO at war with Moscow.

Russia's Federal Security Service said in an online statement that the Foreign Ministry withdrew the British envoys' accreditations, and Russian TV quoted an FSB official as saying it was decided to expel them.

The FSB said it received documents indicating the diplomats were sent to Russia by a division of the U.K.'s Foreign Office "whose main task is to inflict a strategic defeat on our country," and that they were involved in "intelligence-gathering and subversive activities." It did not identify the six diplomats.

The FSB warned that if other diplomats are found to be carrying out "similar actions," it "will demand early termination of their missions" to Russia

Foreign Ministry spokesperson Maria Zakharova said in a statement that the diplomats were carrying out "subversive actions aimed at causing harm to our people."

"We fully agree with the assessments of the activities of the British so-called diplomats expressed by the Russian FSB," she added in an online statement. "The British Embassy has gone far beyond the limits outlined by the Vienna Conventions."

Kremlin spokesperson Dmitry Peskov said breaking off diplomatic relations with the U.K. was not on the table right now.

In calling the Russian allegations "completely baseless," the U.K. Foreign Office said the expulsions happened weeks ago, linking them to Britain's decision in May to revoke the credentials of an attaché at Moscow's London embassy and to impose a five-year time limit on all Russian diplomats in Britain.

"The Russian authorities revoked the diplomatic accreditation of six U.K. diplomats in Russia last month, following action taken by the U.K. government in response to Russian state-directed activity across Europe and in the U.K.," the Foreign Office said in a statement. "We are unapologetic about protecting our national interests."

In May, the U.K. expelled Russia's defense attaché in London, alleging he was an undeclared intelligence officer, and it closed several Russian diplomatic properties in Britain that it said were being used for spying. About a week later, Russia reciprocated and expelled Britain's defense attaché.

Expulsions of diplomats — both Western envoys working in Russia and Russians in the West — have become increasingly common since Moscow launched its invasion of Ukraine in 2022.

Last year, the Russian news outlet RBC counted that Western countries and Japan expelled a total 670 Russian diplomats between the start of 2022 and October 2023, while Moscow responded by expelling 346 diplomats. According to RBC, that was more than in the previous 20 years combined.

On his way to visit the U.S., Starmer said Britain does not "seek any conflict with Russia."

"Russia started this conflict. Russia illegally invaded Ukraine. Russia could end this conflict straight away," he told reporters.

"Ukraine has the right to self-defense and we've obviously been absolutely fully supportive of Ukraine's right to self-defense — we're providing training capability, as you know. But we don't seek any conflict with Russia — that's not our intention in the slightest," he said.

Ukraine wants approval to use some weapons to strike deeper into Russia and there are signs that President Joe Biden might shift U.S. policy in response.

While the issue is expected to be at the top of the agenda for their meeting, it appeared unlikely that Biden and Starmer would announce any policy changes at this time, according to two U.S. officials familiar with planning for the talks. The officials spoke on condition of anonymity because they were not authorized to discuss the private deliberations.

Ukrainian officials renewed their pleas to use Western-provided long-range missiles against targets deeper inside Russia during this week's visit to Kyiv by U.S. Secretary of State Antony Blinken and British Foreign Secretary David Lammy.

Blinken said he had "no doubt" that Biden and Starmer would discuss the matter during their visit, noting the U.S. has adapted and "will adjust as necessary" as Russia's battlefield strategy has changed.

Litvinova reported from Tallinn, Estonia, and Lawless reported from London. Associated Press writer Aamer Madhani in Washington contributed.

https://apnews.com/article/russia-uk-spying-7845e3554c753388e8c952733589fb7f

### Turkey

### Turkey charges Mossad 'financier' with espionage against the state Case of spy agency backer comes amid major downturn in relations with Israel

Lizzie Porter Istanbul September 03, 2024

https://www.thenationalnews.com/news/mena/2024/09/03/turkeys-counter-terrorism-unit-arrests-chief-mossad-financier-in-istanbul/

Turkish authorities have charged a Kosovan national with "espionage against the state" after he channelled funds to agents for Israel's external spy agency Mossad, according to two security officials and state media, in a case likely to further strain relations between the two countries.

Liridon Rexhepi entered Turkey on August 25 and was arrested five days later in Istanbul by a counter-terrorism unit, following work by the Turkish intelligence service MIT. He is being remanded in custody awaiting trial and sentencing, a Turkish security source told The National.

"MIT determined that Liridon Rexhepi was the person who managed Mossad's money network in Turkey," the source said.

A second Turkish security source confirmed to The National that Mr Rexhepi has been charged with "espionage against the state," after authorities concluded that he transferred money to Mossad field agents in Turkey who were operating drones, conducting "psychological operations" against Palestinian politicians and compiling information about Syria for Israel. He admitted to making money transfers in a statement to the police, one of the sources added.

"As a result of operations conducted by the National Intelligence Organisation, it was determined that Mossad provided money transfers to its field personnel in Turkey from Eastern European countries, especially Kosovo," one of the sources said. Wires of unspecified amounts were made through Western Union, the source said, while other transactions involving agents in Syria used cryptocurrency. It was not clear when the transactions were made or over what period of time they continued.

Turkish security services said they arrested Mossad's chief financier in the country, a Kosovan citizen, Liridon Rexhepi. Photo: Turkish security services

In a statement, Istanbul's counter-terrorism directorate also said that Rexhepi held meetings with Israeli intelligence agents, "collected information and documents about individuals targeted by the Israeli intelligence service in Turkey", and "took photographs, videos and drone shots" at targets' homes.

A second individual identified only as Y. B. was detained at the same time as Rexhepi, but was later released, the statement added. The counter-terrorism directorate released video of the arrest operation, showing police officers leading two handcuffed men into an unmarked vehicle.

The Israeli embassy in Ankara has declined to comment.

Relations between Turkey and Israel have soured dramatically since the October 7 attacks by Hamas on southern Israel, which killed about 1,200 people and led to the war in Gaza. President Recep Tayyip Erdogan and other Turkish leaders have voiced support for Hamas and criticised Israel's conduct in its military operations, which have killed more than 40,800 people in the Palestinian enclave since the war began.

Turkey banned trade with Israel in May over the war and Mr Erdogan and Israeli Prime Minister Benjamin Netanyahu have traded barbs on social media.

Israeli officials have criticised the Turkish government for hosting Hamas members in the country and said the trade ban harms companies from both countries. Before the war, the two nations shared trade worth hundreds of millions of dollars a month and had been rebuilding bilateral relations bruised by previous rifts. Despite the current fallout, Israel and Turkey have not cut their diplomatic ties.

The Turkish government has come under significant public pressure over its ties with Israel. Hundreds of protesters gathered in Istanbul on Sunday to demand a boycott of companies they accuse of supporting Israel, and last week activists, including Palestinians, were arrested in the same city for protesting against Azerbaijani oil exports to Israel, which flow through a pipeline across Turkey before being shipped over the Mediterranean Sea, the demonstrators said.

Turkey has conducted previous operations to arrest alleged operatives from Mossad and other countries' intelligence services.

"The publication of stories about supposedly Mossad agents being arrested in Turkey are on the rise in recent years," Gallia Lindenstrauss, a senior research fellow at the Tel Aviv-based Institute for National Security Studies, told The National.

"They are a reflection of the sharp deterioration in the relations between Turkey and Israel and that the countries have fewer shared interests and hence it is also less important to maintain working security co-operation."

This year, Turkish security forces announced they had arrested about three dozen people across the country accused of spying for Israel. Turkish police and intelligence forces raided 57 sites across eight provinces, apprehending 33 people suspected of working for Mossad.

"Obviously, such stories are also meant to be embarrassing for Israel," Ms Lindenstrauss said. "In previous instances, Israel did not respond to the allegations and this is likely to be the case this time."

https://www.thenationalnews.com/news/mena/2024/09/03/turkeys-counter-terrorism-unit-arrests-chief-mossad-financier-in-istanbul/

### **United States**

### **Obituary:**

### Edward B Johnson, the other CIA officer who pulled off the Argo rescue of US diplomats from Iran He was left out of the Ben Affleck film because only his code-name 'Julio' was known – but the CIA identified him in a podcast last year

12 September 2024 6:00am

https://www.telegraph.co.uk/obituaries/2024/09/12/edward-johnson-argo-iran-america-diplomats-affleck/

Edward B Johnson receiving the CIA's Intelligence Star from John N McMahon, then the agency's deputy director for operations, in May 1980

Edward B Johnson, who has died aged 81, was a CIA officer who was recently revealed to have taken part in the flamboyant 1980 rescue of US diplomats from Iran under the guise of a B-movie production, an operation later dramatised in the Oscar-winning film Argo (2012).

The six diplomats had escaped the storming of the American embassy in Tehran on November 4 1979 and had spent 79 days in hiding at the residence of the Canadian ambassador. The plan eventually cooked up, nicknamed the "Canadian caper", was that they should emerge posing as a Canadian film crew, joined by Ed Johnson, an exfiltration specialist, and Tony Mendez, a CIA disguise expert, to scout Iranian locations for a cheap Star Wars knock-off with the working title Argo, and then leave by aeroplane under fake Canadian passports.

The Planet of the Apes make-up artist John Chambers tipped off Mendez about a long-binned script for a movie meant to promote a Middle Eastern-themed sci-fi theme-park ride, which already had concept art by the Marvel comic artist Jack Kirby.

The Hollywood version of the rescue depicted Mendez as a lone operative, although his 1999 memoir The Master of Disguise referred to a second CIA man, under the cover name "Julio". But Johnson's role was so heavily classified that even the commemorative painting of the pair at the CIA headquarters at Langley, Virginia, shows Mendez clearly but only the back of Johnson's head (and even that the painter had to model on the back of another CIA agent's head, for security).

A painting hanging at the CIA's headquarters in Langley, Virginia, of Antonio 'Tony' Mendez, face visible, and Edward B Johnson preparing documents to smuggle American diplomats out of Tehran in 1980

The identity of "Julio" was eventually disclosed in 2023 in the CIA's podcast The Langley Files, which described Johnson as "someone with years of experience in quietly getting people out of dangerous places". He and Mendez had worked together at the CIA's Office of Technical Services, essentially their gadget, makeup and forgery department.

When they landed in Tehran, Johnson impressed Mendez by deftly pilfering a stack of the yellow slips to be filled out by those entering and leaving Iran. But they ran into trouble when their inaccurate tourist's map took them not to the Canadian embassy but to the Swedish one, which was directly opposite the American embassy where the remaining staff were being held hostage by the Revolutionary Guard.

Johnson recalled that "all the demonstrators were there [but] they were quiet because the camera trucks weren't there... they were just chilling".

There was a nasty moment when a young Revolutionary Guard walked over to quiz Johnson and Mendez on what they were doing, but it turned out that he "had spent a year in Germany, was a student, so I spoke in German to him," recalled Johnson, "and we chatted a bit." The Iranian helpfully installed the CIA men in a taxi to the correct address, and even refused a tip.

Johnson and Mendez then drilled the hidden diplomats on how to pass for Hollywood players rather than State Department suits. "These are rookies. They were people who were not trained to lie to authorities. They weren't trained to be clandestine," recalled Johnson. "The biggest thing I think we did was to convince them that you can do it."

When they finally boarded the Swissair flight out of Tehran, Johnson was spooked by a number of coincidences: the word ARGAU was painted on the aircraft, and one of the answers in that day's Herald Tribune crossword was "Argonauts". Johnson later joked: "I didn't know that CIA was that good."

Edward Bernard Johnson was born in Brooklyn on July 29 1943, and brought up on Huntington Station, Long Island. His mother was a primary school teacher and his father was an accountant.

Ed was a natural linguist, and added French at university to the Spanish he had picked up from Cuban and Puerto Rican friends. Later he learnt Arabic in Saudia Arabia, then travelled in Jordan and Egypt, before being accepted into the CIA. He then had "considerable exfiltration experience" relating to the Soviet Union, according to Mendez.

While he was in Tehran the CIA took the unprecedented step of ringing his wife, who did not know where he was, to deliver the enigmatic and not reassuring message: "He's out."

For the "Canadian Caper" Johnson received the CIA's Intelligence Star, its second-highest award for valour.

In 1973, he married Aileen Heal, who survives him with five children.

Edward B Johnson, born July 29 1943, died August 27 2024

https://www.telegraph.co.uk/obituaries/2024/09/12/edward-johnson-argo-iran-america-diplomats-affleck/

## US sees increasing risk of Russian 'sabotage' of key undersea cables by secretive military unit

By Jim Sciutto, CNN

Published 8:00 AM EDT, Fri September 6, 2024

The US has detected increased Russian military activity around key undersea cables, and believes Russia may now be more likely to carry out potential sabotage operations aimed at disabling a critical piece of the world's communications infrastructure, two US officials told CNN.

Russia has put increasing emphasis on building up a dedicated military unit, which deploys a formidable fleet of surface ships, submarines and naval drones, according to one of the officials. The unit, the "General Staff Main Directorate for Deep Sea Research," is known by its Russian acronym GUGI.

"We are concerned about heightened Russian naval activity worldwide and that Russia's decision calculus for damaging US and allied undersea critical infrastructure may be changing," a US official told CNN. "Russia is continuing to develop naval capabilities for undersea sabotage mainly thru GUGI, a closely guarded unit that operates surface vessels, submarines and naval drones."

The US regularly tracks Russian ships that patrol close to critical maritime infrastructure and undersea cables often far from Russian shores, the official said. US concern about the secretive Russian unit's undersea operations has not been previously reported. CNN has requested comment from the Russian Ministry of Defense.

Undersea cables form a critical backbone of internet and telecommunications traffic around the world. Most communications and internet traffic travels across a vast network of high-speed fiber-optic cables installed along the ocean floor. A coordinated attack could significantly disrupt private, government and military communications along such cables as well as industries that rely on such communications, including financial markets and energy suppliers.

Undersea cables also carry vast amounts of electricity among several European countries.

The US and its allies closely monitor Russian naval activity over key undersea cables around the world. Commanders aboard a NATO patrol vessel in April 2023 told CNN they had witnessed an increase of such activity over undersea cables in the Baltic Sea in recent years.

The seas around Northern Europe are a focus of such Russian military surveillance and activity. Last year, a joint investigation by the public broadcasters of Sweden, Denmark, Norway and Finland found that Russia has a fleet of suspected spy ships operating in northern European waters for potential sabotage of both undersea cables and wind farms.

Using data analysis, intercepted radio communications and intelligence sources, the broadcasters tracked over several years some fifty ships operating in the area, using underwater surveillance to map sites for potential attacks.

Taiwanese and US forces have seen similar activity by the Chinese Navy in waters around Taiwan, as I reported in "The Return of Great Powers" in March. "The activity looks like targeted harassment by Beijing – or an exercise in preparation for cutting off the whole of Taiwan," Elisabeth Braw wrote in Foreign Policy magazine in February 2023.

Russia's threatening activity has not been disrupted by its ongoing war against Ukraine. The Russian leadership places great value on GUGI, a US official told CNN, continuing to fund the unit even while waging war in Ukraine.

A US official told CNN the US would consider any such sabotage of undersea infrastructure as a significant escalation in Russian aggression outside of Ukraine.

"Any activities that damaged seabed infrastructure including undersea cables especially during periods of heightened tensions risks misunderstandings and misperceptions that could lead to unintended escalation," the US official told CNN. "The US would be especially concerned about damage to our or our allies' critical undersea infrastructure."

https://edition.cnn.com/2024/09/06/politics/us-sees-increasing-risk-of-russian-sabotage-undersea-cables/index.html?cid=ios\_app

USS Manchester had a satellite secretly installed on the top of the ship for crew to access Wi-Fi in remote locations

A senior officer has been court-martialed after she and senior crew members secretly installed Wi-Fi on a US warship to watch movies, text and check sports scores.

Grisel Marrero was command senior chief of the USS Manchester when an investigation by the Navy found she and other members of her crew had hidden a Wi-Fi device in a printer while deployed in the western Pacific with the US 7th Fleet.

The scheme involved installing a Starlink satellite dish on top of the ship at a cost of 2,800 (£2,131) and organising a payment plan of 1,000 a month for the Starlink bill.

Starlink, an Elon Musk company, uses satellites to provide high-speed internet access in remote locations. Ms Marrero claimed the Wi-Fi system was to boost morale, but the investigation found it was a breach of security.

"The danger such systems pose to the crew, the ship and the Navy cannot be understated," the investigation said. "The installation and usage of Starlink, without the approval of higher headquarters, poses a serious risk to mission, operational security, and information security."

The investigation found the scheme was led by Ms Marrero and involved the entire, 15-member chief's mess. Rank-and-file sailors nor the ship's command were involved.

#### 'The gig is up'

The scheme was uncovered when junior sailors suspected there was Wi-Fi onboard but the password was hidden from them. Despite several searches by the ship's commanding officer, it was the Manchester's combat systems officer who took a photo of the dish on the ship's weather deck.

"The gig is up," Ms Marrero texted one of the scheme's participants.

When questioned about the network, Ms Marrero offered lies, false documents and misleading information to cover up the misdeed.

At a court martial earlier this year, Ms Marrero pleaded guilty to wilful dereliction of duty charge specifications, the Navy Times reported. Her rank was reduced to chief petty officer.

The officers who knew about but did not report the Wi-Fi were given administrative non-judicial punishment at commodore's mast.

"This agreement was a criminal conspiracy, supported by the overt act of bringing the purchased Starlink onboard USS Manchester," the investigation said.

https://www.telegraph.co.uk/world-news/2024/09/04/navy-commander-secretly-installed-wifi-american-warship/

### How a U.S. spy tapped into Russian communication lines

Published Fri, Sep 13 20248:00 AM EDT CNBC.com staff

https://www.cnbc.com/2024/09/13/how-a-us-spy-tapped-into-russian-communication-lines.html

In the late 1970s, American spy Jim Olson was stationed in Moscow. At the time, it was one of the riskiest and highest-stakes CIA stations in the world.

Olson, who served more than 30 years overseas, had been intercepting sensitive Russian information that was being sent over microwave transmissions. He knew that, if they were caught, it could mean spending the rest of their lives in a Soviet prison.

Many of the transmissions dealt with military and defense information, and they eventually discovered their tactic of intercepting these messages was under threat. Something more secure was in the works for the Russians: their communications were going underground.

"We know exactly what they're doing," Olson told CNBC Senior Washington Correspondent Eamon Javers on the latest episode of CNBC's new original podcast series "The Crimes of Putin's Trader."

For this series, Eamon Javers spent nearly a year investigating a criminal network and exploring how wealthy Russian hackers stole millions from U.S. investors. Javers interviewed FBI agents, prosecutors — and even spies like Olson — to reveal the shocking details of a massive criminal enterprise.

In episode six, Javers talks with Olson, who details his dangerous mission to retain a crucial well of information. After satellite images confirmed the Russians had already started digging the tunnels for the cable, the CIA operatives knew they had to do something quickly – before the well ran dry.

"We decided to go after it," he said.

Olson and two other operatives were designated for assignment in Moscow and trained on how to tap into those cables (and how to do it covertly).

But that mission wasn't easy: Olson had to disguise himself as a Russian peasant, taking a public bus out to the countryside on a route often patrolled by militia. He broke into a manhole on the side of a highway, monitored for potential poisonous gas (or Russian police) in the tunnel and lowered himself into the shadows.

Javers asked Olson what it feels like to go on such a mission, something he called "Mission Impossible stuff." He asked if fear ever entered his mind.

"Fear doesn't enter into it because you are so mission-focused," Olson said. "We just do what we're trained to do and it's a great sense of accomplishment when you carry something out like that."

For spies like Olson who put their lives on the line, motivation is everything.

"It's humbling because you have this sense that your country put that much trust in you to carry out that mission," Olson said. "And that you can make a significant contribution to our country's security – it's pretty heavy stuff."

https://www.cnbc.com/2024/09/13/how-a-us-spy-tapped-into-russian-communication-lines.html

## **Morse Stations**

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

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

#### UNID CW – UM05 The Mystery French Morse Station Changes Frequency

This odd station provides, what appears to be, slow Morse practice, gives no call sign or other identification & after some experimentation with frequency use settled on 5435.8kHz, where it had continued for some time.

Ary, (AB), notes that the station was missing on this frequency on 22 October & was rediscovered the following day on 7542.8kHz with the same output of repeated words or single letters – Although some English words are sent, the majority are French, but no accentuated letters are used.

7542.8 1103z 29 Oct Discussion Applaudissement T Soleil [etc...]

TUE

BR

Peter, (PoSW), monitored UM05 throughout September & October until it went silent on 5345.8kHz on 21 October. Thanks to Ary's report we now know that the station relocated to 7542.8kHz from 22 October onwards. Here are Peters logs & Comments:-

UM05 CW on 5345.8 kHz:- Has continued sending words in the French language and sometimes a single numeral or letter of the alphabet in September and October - but took a break in late September and has done so again in late October - at least on these occasions nothing was heard with any receiver and antenna combination available to me. Some observations from the past two months:-

01-Sept-24	Sunday:-	2013 UTC, sending "SCULPTURE".
02-Sept-24,	Monday:-	0614 UTC, "VILLĒ"; 1910 UTC, "DIMANCHE".
03-Sept-24,	Tuesday:-	0608 UTC, "V".
06-Sept-24,	Friday:-	2006 UTC, "LAC".
13-Sept-24,	Friday:-	1851 UTC, "ECOLE"; 1914 UTC, "POMME DE TERRE".
18-Sept-24,	Wednesday:-	0706 UTC, "DANSE"; 2031 UTC, "TRAIN".
20-Sept-24,	Friday:-	0658 UTC, "MIROIR".
		Nothing heard when checked at 1911 & 2120 UTC, unusual not to hear activity in the late evening hours of darkness.
21-Sept-24,	Saturday:-	Nothing heard when monitored for several minutes after 0600 UTC.
23-Sept-24,	Monday:-	Nothing heard when monitored for several minutes at 0612 & 2115 UTC & at similar times on the 24th, 25th, 26th & 27th.
30-Sept-24,	Monday:-	2019 UTC, UM05 is back, assuming the absence was the station taking a rest rather than propagation issues, sending "AVENTURE"
		2022 UTC, "NOVEMBRE", 2115 UTC, "A".
01-Oct-24, '	Tuesday:-	0542 UTC, "TERRE".
04-Oct-24,	Friday:-	0547 UTC, "PHRASE"; 2109 UTC, "TRAIN".
09-Oct-24,	Wednesday:-	0551 UTC, "TEXTE"; 2012 UTC, "VOLCAN".
14-Oct-24,	Monday:-	1857 UTC, "KOALA".
17-Oct-24, '	Thursday:-	1904 UTC, "COCCINELLE". I had to look his one up in the Collins Gem French Dictionary, translates as "ladybird".
20-Oct-24,	Sunday:-	2006 UTC, "TRAFIC".
21-Oct-24,	Monday:-	0618 UTC, "OCEAN".
		Nothing heard when monitored later in the day at 2125 UTC for several minutes.
		Nothing heard when monitored early and late on the following days of October, last monitored on the 29th.

Thanks for the report & Logs Peter. We hope you can catch up with UM05 on 7542.8kHz. (Unless it moves again!)

### **Morse - Number Stations**

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

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

#### September 2024:

5020	2000z 2000z 2000z 2000z	10 Sep 12 Sep 17 Sep	'463' $628$ $30 = = 43251$ $64783$ $$ $31428$ $56745 = =$ Fair, fast. Excellent Morse. Error grp23 $1248$ $15428$ '463' $385$ $30 = = 32788$ $87991$ $$ $88640$ $86700 = =$ Weak/Fair. Excellent Morse. Difficult copy in places         '463' $387$ $30 = = 85466$ $88324$ $$ $01254$ $00234 = =$ Good, fast. No errors. Many paired figures in groups         '462' $6523$ $20274$ $65823$ $0274$ $65823$ $0274$ $65823$ $0274$ $65823$ $0274$ $65823$ $0274$ $0274$ $0254$ $00254$	BR BR BR/HFD	TUE THU TUE
	2000z 2000z 2000z	19 Sep 24 Sep 26 Sep	$463^{\circ} 803^{\circ} 80^{\circ} = 65748^{\circ} 90254^{\circ} \dots 83625^{\circ} 98712^{\circ} = 7^{\circ}$ Fair, fast. Good Moise with one erfort. Gip14 sent once $463^{\circ} 803^{\circ} 30^{\circ} = 65744^{\circ} 65771^{\circ} \dots 78491^{\circ} 64381^{\circ} = 7^{\circ}$ Fair with QSB. Fast delivery. Excellent with no errors $463^{\circ} 893^{\circ} 30^{\circ} = 73654^{\circ} 24314^{\circ} \dots 48500^{\circ} 44567^{\circ} = 7^{\circ}$ Fair with QSB, Fast delivery. Several errors noted	BR BR	TUE THU
5475	1800z 1800z 1800z 1800z 1800z 1800z 1800z	03 Sep 10 Sep 12 Sep 17 Sep 19 Sep 24 Sep 26 Sep	'463' $857\ 30 = = 42740\ 61524\ \dots\ 15274\ 72946 = =$ Fair, fast. Excellent Morse. Only 29 grps sent'463' $380\ 30 = = 34589\ 23100\ \dots\ 09876\ 75821 = =$ Good, fast. Excellent Morse. No errors'463' $127\ 30 = = 75845\ 66123\ \dots\ 74533\ 82546 = =$ Fair, fast. Error grp20. Many paired figures in groups'463' $629\ 30 = = 86759\ 67448\ \dots\ 87231\ 87123 = =$ Fair, fast. Hesitant with several errors. Ending repeated'463' $389\ 30 = = 65712\ 65573\ \dots\ 78500\ 83907 = =$ Fair, fast. Excellent Morse. Perfect sending. No errors'463' $344\ 30 = = 35455\ 29899\ \dots\ 46544\ 30980 = =$ Fair, fast. QSB & static present. Errors noted	BR/HFD BR BR BR BR BR BR	TUE TUE THU TUE THU TUE THU
6260	1500z 1500z 1500z	07 Sep 14 Sep 28 Sep	'463' $301 \ 30 = = 37645 \ 73645 \ \ 28719 \ 29017 = =$ Corrected errors on starting group count & grp27'463'465 \ 30 = = 59637 \ 46534 \ \ 47563 \ 13245 = =Weak, fast. Excellent Morse. Difficult copy in places'463'439 \ 30 = = 18394 \ 73517 \ \ 64723 \ 32467 = =Fair, fast. Excellent Morse. Error grp26 \ 811729 \ 81729	AB/HFD BR BR	SAT SAT SAT
6510	0700z 0700z	01 Sep 08 Sep	'463 $302 \ 30 = = 51429$ '463' $104 \ 30 = = 45309 \ 10928 \ \ 01981 \ 01875 = =$ Late start. Corrected error on starting group count	HFD AB	SUN SUN
<u>October</u>	2024:				
5020	2000z 2000z 2000z 2000z 2000z 2000z 2000z 2000z 2000z	01 Oct 08 Oct 10 Oct 15 Oct 17 Oct 22 Oct 24 Oct 29 Oct 31 Oct	$ \begin{array}{ll} 76231 \ 74901 = = & \mbox{Fair} \ with QSB. \ Fast \ delivery. \ Error \ Grp23 \ 9001 \ 90041 \\ \ Weak. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult, \ partial \ copy \\ \ Fair \ with QSB. \ Fast \ delivery. \ Difficult \ copy \ errors \ noted \\ \ Fair \ with QSB. \ Fast \ delivery. \ Corrected \ twice \\ \ Fair \ with QSB. \ Fast \ delivery. \ Corrected \ error \ grp30 \\ \ Weak/Fair, \ fast. \ Many \ paired \ figures \ used \ in \ grps \\ \ Yeas \ Yas \ Yas$	BR BR BR AB/BR BR BR BR BR	TUE TUE THU TUE THU TUE THU TUE THU
5475	1800z 1800z 1800z 1800z 1800z 1800z 1800z	01 Oct 10 Oct 15 Oct 17 Oct 22 Oct 24 Oct 31 Oct	'463'101 $30 = = 76889\ 89004\ \dots\ 53480\ 57211 = =$ Fair with QSB. Fast delivery. Errors noted'463'944 $30 = = 90543\ 95809\ \dots\ 04938\ 28194 = =$ Fair, fast. Excellent Morse. No errors'463'822 $30 = = 61528\ 48096\ \dots\ 69264\ 67139 = =$ Fair, fast. Excellent Morse. Corrected error grp26'463'254 $30 = = 18456\ 66324\ \dots\ 95640\ 00560 = =$ Fair, fast. Excellent Morse. Many paired figures in grps'463'123 $30 = = 48372\ 95847\ \dots\ 4736543\ 3654 = =$ Fair with QSB. Fast delivery. Several errors inc. grp30'463'097 $30 = = 65428\ 65478\ \dots\ 85995\ 75438 = =$ Fair, fast. Excellent Morse. Corrected error grp05'463'178 $30 = = 42674\ 24167\ \dots\ 45167\ 24389 = =$ Fair with QSB. Fast delivery. Excellent Morse Perfect!	BR BR BR AB/BR BR BR BR	TUE THU TUE THU TUE THU THU
6260	1500z	26 Oct	'463' 178 30 = = 93462 81232 72314 48564 = = Weak, fast. Errors in grps16-17 & Grp25	BR	SAT

6510 0700z 13 Oct NRH

BR SUN

M01/2 6260kHz 1500z 07 September 2024	M01/2 6510kHz 0703z 08 September 2024
463 (R4m) 301 301 2EEEE 301 301 30 30 = =	104 104 104 104 1 EEE 463 (R) 104 104 30 $30 = =$
37645 73645 54152 40180 30918 60958 10381 90211 30948 46389 64739 17625 69040 40387 10361 29836 26354 17365 60541 29036 47091 30918 16524 26715 30918 18746 1/8EEE E 18746 16748 28719 29017 = = 301 301 30 30 000	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Courtesy AB	Courtesy AB
M01/2 5475kHz 1800z 17 September 2024	M01/2 5020kHz 2000z 17 September 2024
M01/2         5475kHz         1800z         17 September 2024           463 (R4m)         127         127         30         30 = =	M01/2         5020kHz         2000z         17 September 2024           463 (R4m)         387         387         30         =
M01/2         5475kHz         1800z         17 September 2024           463 (R4m)         127         127         30         30 = =           75845         66123         01232         66453         77453         88321         99564         73422         86754         83422           94533         82344         82335         01344         62664         77231         88453         87453         99231         00453           85463         77453         88564         88312         77342         85611         88312         99360         74533         82546           =         127         127         30         30         000         Courtesy BR	M01/2         5020kHz         2000z         17 September 2024           463 (R4m)         387         387         30         30         =           85466         88324         77342         77453         99123         00213         77453         99453         74552         99451           04352         77453         81240         00231         00345         80459         83324         88451         99234         77294           91233         51256         84351         88254         99234         99123         00342         22040         01254         00234           =         387         30         30         000         Courtesy BR

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

17437/15937/	0300/20/40z	03 Sep	495 000	(Via SDR Japan)	HFD	TUE
14942/13942/12142	0010/30/50z	06 Sep	991 1	(Via SDR Japan)	HFD	FRI
17437/15937/14537	0300/20/40z	01 Oct	495 1	(Via SDR Japan)	HFD	TUE
17429/16219/15929	0010/30/50z	04 Oct	429 1	(Via SDR Japan)	HFD	FRI

#### European M12 Logs

September 2024:	New scheds in bol	d type			
7961/6861/5861	2100/20/40z	06 Sep	988 1 (3426 105) 69700 47235	BR	FRI
	2100/20/40z	07 Sep	988 1 (3426 105) 69700 47235	BR/HFD	SAT
	2100/20/40z	13 Sep	988 1 (3426 105) 69700 47235	BR	FRI
	2100/20/40z	14 Sep	988 1 (3426 105) 69700 47235	BR	SAT
	2100/20/40z	20 Sep	988 1 (2978 137) 51473 20657	BR	FRI
	2100/20/40z	21 Sep	988 1 (2978 137) 51473 20657	BR	SAT
	2100/20/40z	27 Sep	988 1 (2978 137) 51473 20657	BR	FRI
	2100/20/40z	28 Sep	988 1 (2978 137) 51473 20657	BR	SAT
11109/10309/9209	2000/20/40z	02 Sep	385 000	HFD	MON
	2000/20/40z	05 Sep	385 000	BR	THU
	2000/20/40z	09 Sep	385 1 (8146 47) 47253 07078 02461 16560 000 000 [Note 1]	Gert	MON
	2000/20/40z	12 Sep	385 1 (8146 47) 47253 07078	BR	THU
	2000/20/40z	19 Sep	385 000	BR	THU
	2000/20/40z	23 Sep	385 1 (259 61) 58879 57514	BR	MON
	2000/20/40z	26 Sep	385 1 (259 61) 58879 5751486796 69464 000 000 Very Strong	Gert	THU
	2000/20/40z	30 Sep	385 000	BR	MON
11435/10598/9327	1800/20/40z	05 Sep	938 1 (7537 82) 93454 50163	BR	THU
	1800/20/40z	12 Sep	938 1 (2002 78) 76873 04159	BR/HFD	THU
	1800/20/40z	26 Sep	938 1 (2611 78) 73828 16363	BR	THU
11519/12194/13407	1100/20/40z	03 Sep	289 1 (6328 63) 98826 02725	BR/HFD	TUE
	1100/20/40z	10 Sep	289 1 (7450 55) 80731 69125	BR	TUE
	1100/20/40z	17 Sep	289 1 (3228 56) 26133 86373	BR	TUE
	1100/20/40z	24 Sep	289 1 (6738 54) 99761 64700	BR	TUE
13367/12167/10567	1900/20/40z	04 Sep	315 000	HFD	WED
	1900/20/40z	06 Sep	315 000	BR	FRI
	1900/20/40z	13 Sep	315 1 (2221 95) 06600 79305	BR	FRI
	1900/20/40z	18 Sep	315 1 (2221 95) 06600 79305	BR	WED
	1900/20/40z	20 Sep	315 1 (2221 95) 06600 79305	BR	FRI
	1900/20/40z	25 Sep	315 000	BR	WED
	1900/20/40z	27 Sep	315 000	BR	FRI

13368/12168/11168	2310/30/50z 2310/30/50z	04 Sep 08 Sep	311 1 (2371 189) 81992 69467 311 1	BR HFD	WED SUN
	2310/30/50z	11 Sep	311 1 (184 219) 39502 09065	BR	WED
	2310/30/50z	15 Sep	311 1 (184 219) 39502 09065	BR	SUN

[Note 1] The 20.00z transmission had an error and stopped briefly after group 43. Than 4 times preamble 385 385 385 1 and continued the message from group 36. 20.20z and 20.40z transmission normal. (*Gert*)

#### October 2024:

5794/6794/	2100/20/40z	04 Oct	770 000				HFD	FRI
	2100/20/40z	05 Oct	770 000				BR	SAT
	2100/20/40z	11 Oct	770 000				BR	FRI
	2100/20/40z	12 Oct	770 000				BR	SAT
	2100/20/40z	18 Oct	770 000				BR	FRI
	2100/20/40z	19 Oct	770 000				BR	SAT
10318/9218/8118	2000/20/40z	03 Oct	178 000				BR	THU
	2000/20/40z	07 Oct	178 1 (178 4447) 1029	2 00975			BR/HFD	MON
	2000/20/40z	10 Oct	178 1 (4447 97) 1029	2 00975			BR	THU
	2000/20/40z	14 Oct	178 000				BR	MON
	2000/20/40z	17 Oct	178 000				BR	THU
	2000/20/40z	21 Oct	178 1 (2087 33) 3379	2 23253 08	406 43593 000 000	1	Gert	MON
11135/10235/9235	1900/20/40z	02 Oct	122 1 (174 109) 5057	1 85080			BR/HFD	WED
	1900/20/40z	04 Oct	122 1 (174 109) 5057	1 85080			BR	FRI
	1900/20/40z	09 Oct	122 1 (174 109) 5057	1 85080			BR	WED
	1900/20/40z	11 Oct	122 1 (174 109) 5057	1 85080			BR	FRI
	1900/20/40z	16 Oct	122 000				BR	WED
	1900/20/40z	18 Oct	122 000				BR	FRI
	1900/20/40z	23 Oct	122 1 (2672 85) 0787	7 35482			BR	WED
	1900/20/40z	25 Oct	122 1 (2672 85) 0787	7 35482 11	018 96719 000 000	1	Gert	FRI
11435/10598/9327	1800/20/40z	03 Oct	938 1 (2674 76) 3790	8 96039			BR	THU
	1800/20/40z	10 Oct	938 1 (4370 80)? 6720	8 74387??	Poor copy – Deta	ul uncertain	BR	THU
	1800/20/40z	17 Oct	938 1 (7650 84) 7941	2 21814			BR	THU
11519/12194/13407	1100/20/40z	01 Oct	289 1 (9939 64) 4466	9 72341			BR	TUE
	1100/20/40z	15 Oct	289 1 (3248 63) 8070	6 07755			BR	TUE
	1100/20/40z	22 Oct	289 1 (5268 64) 9152	.6 00375			BR	TUE
12217/11517/10417	2310/30/50z	02 Oct	254 1				HFD	WED
	2310/30/50z	06 Oct	254 1 (670 111)		(	Distorted reception)	BR	SUN
	2310/30/50z	16 Oct	2541(.09)		(	Distorted reception)	BR	WED
	2310/30/50z	23 Oct	354 1 (4693 64) 4607	0 57063		· ·	BR	WED
M12 11109/1030	)9/9209kHz 2000/	/2020/2040z	09 Sep 2024	M12 111	3510235/9235kHz	1900/1920/1940z	25 Oct 2024	
385 385 385 1 (1	R2m) 8146 47 81	146 47		122 122 1	22 1 (R2m) 2672	2 85 2672 85		
47252 07077 027	17 92201 97620 2	25050 02464	5621 70564 27009	07977 254	82 67240 27907	70000 00520 50270	10262 06740 20	556
i HILDD UIUII 901	1/ 02301 0/030 2	20000 22404	JJUZI /UJUH J/UUA	1 0/0// 334	02 01340 21091	10044 00330 34313	0 IUJUZ 20/49 Z2	1 0.50

05425 61627 43536 39401 20426 31116 05652 35267 20982 68402

37243 81606 17332 81271 91823 63808 89947 77055 34629 03265

82564 86155 37306 99384 82393 61044 50244 65975 63313 94311

69727 25345 00799 26146 82258 23586 72750 34732 55968 08159 32155 78806 56509 86556 09142 35737 29428 94052 04332 35938

79716 49047 16158 29932 59928 56865 22458 00373 31480 81801

53465 64449 02214 45827 78704 35632 15866 27964 45392 30804

98297 54628 43272 11018 96719 000 000

 47253
 07077
 93717
 82301
 87630
 25050
 92464
 55621
 70564
 37008
 96571
 22634
 49363
 47686
 36379
 45569
 52419
 91827
 29730
 24304

 70120
 78476
 16846
 54315
 03140
 59773
 24956
 41959
 35698
 36565

 06908
 98127
 69749
 36741
 25123
 50871
 72115
 35181
 01820
 20368

 93305
 38571
 12064
 [Pause]
 385
 385
 1
 385
 385
 1
 385
 385
 1
 50871
 121064
 81007
 99199

 02461
 16560
 000
 000

 38571
 12064
 81007
 99199

Courtesy Gert Courtesy Gert Courtesy Gert Courtesy Gert

#### September 2024:

12211	<b>0502z</b> 0500z 0500z	02 Sep 03 Sep 04 Sep	952 (935 60) = 14608 4292703642 95692 = 935 60 00000 952 (180 54) = 09689 1359239431 35210 = 180 54 00000 952 (674 25) = 88587 4200345793 84876 = 674 25 952 (810 22) = 21472 09528	(Via SDR Japan) (Via SDR Japan)	AB/HFD AB/HFD AB	MON TUE WED
	0500z	05 Sep	952 (610 32) - 31472 9953613057 34996 - 810 32 00000 952 (674 25) = 88587 4200345793 84876 = 674 25 00000 952 (810 32) = 31472 99538 13037 34996 = 810 32 00000		AB	THU
	0500z	06 Sep	952 00000		AB	FRI
10243	0520z	02 Sep	No transmission		AB	MON
	0520z	03 Sep	952 (180 54) = 09689 1359239431 35210 = 180 54 00000	(Via SDR Japan)	AB/HFD	TUE
	0524z	04 Sep	952 (674 25) = 88587 4200345793 84876 = 674 25 952 (810 32) = 31472 9953813037 34996 = 810 32 00000		AB	WED
	0520z	05 Sep	952 (674 25) = 88587 4200345793 84876 = 674 25 00000 952 (810 32) = 31472 9953813037 34996 = 810 32 00000		AB	THU
	0500z	06 Sep	952 00000		AB	FRI

M14 IA MCW / ICW Short 0

<u>October 2024:</u>	
17458 0930z 10 Oct 617 000	HFD TH
10755 1555z 17 Oct 975 (284 60) = 11249 34 This transmission, caught by Ary, (2	439587376 47329 = 284 60 00000 AB TH AB), exhibiting problems completing the transmission! (See transcript below)
M14 12221kHz 0502z 02 September 2024	M14 12221kHz 0500z 03 September 2024
952 (R4m) 935 935 60 60 = = 14608 42927 35324 25344 10867 16808 69102 23450 84088 $^{\circ}$ 80679 50394 52285 28760 73279 66998 18089 45393 63194 $^{\circ}$ 52234 04120 04534 77390 49809 48708 32825 54461 57686 $^{\circ}$ 88388 10163 96588 74345 05453 68529 26218 74269 77910 26894 19134 37688 81127 96124 07397 06641 49528 83564 07924 52778 12787 63028 47775 76921 63303 91479 03642 = =	$\begin{array}{llllllllllllllllllllllllllllllllllll$
935 935 60 60 00000 <i>Courtesy A</i>	AB         180         180         54         54         00000         Courtesy AB
M14 12221kHz 0500z 04 September 2024	M14 10755kHz 1555z 17 October 2024
952 (R4m) 674 674 25 25 = =	975 (R4m) 284 284 60 60 = =
88587 42003 30173 39881 74720 15520 52938 34211 71852 7 76490 43092 15131 70393 46675 76104 29186 78512 40858 3 89859 13779 98846 45793 84876 = = 674 674 25 25 952 810 810 32 32 = =	43331         11249         34395         27229         24000         31359         13019         07504         45049         54414         14518           36740         31936         81100         50132         00336         47075         36561         73789         88244         23690         49811           15050         90203         14817         27228         86722         49930         12350         69854         76908         97355           88095         22444         12959         62173         30244         99548         10683         13651         11181         68356           07260         18901         47595         92941         01266         36794         38796         69639         48273         89707           94203         08215         85457 <b>80289</b> [1m15s silence]         [1m15s silence]
31472 99538 76981 87343 68018 06257 49532 40131 58181 20620 02024 46319 34571 36676 11317 29541 92946 42379 49321 49996 08644 09241 28927 35399 55645 59720 36319 13037 34996 = =	68587 975 (R) 71349 94203 08215 85457 <b>80289 85925</b> 38519 83641 45435 87376 47329 35528 [10s silence]
810 810 32 32 00000	975 (R) [6s silence] 975 (R) <b>85925</b> 38519 83641 45 [1m11s silence]
Courtesy A	$\begin{array}{c c} AB \\ 975 (R) \\ 08215 85457 80289 85925 38519 83641 45435 87376 47329 \\ = = 284 284 60 60 00000 \end{array}$

Courtesy AB

#### <u>M23</u> O ICW

#### M23 - Another New Format

Ary, (AB), reported a series of unidentified transmissions heard on 10916kHz sending a series of repeated groups before ceasing suddenly, followed later in the day by a further transmission consisting of an eight figure number string, also repeated. This later changed to a single string sent on a different frequency & time slot.

The station appeared around 23 September using several formats, including use of the phrase 'Salut le Gars'\*, that Ary recalled from previous transmissions logged in November 2020, using the same phrase, at that time on 8134kHz.

Our first thoughts were possibly M01a – A Russian designation covering a series of odd formats, however, the use of a long zero\*\* rules this out. Ary suggests M23 as a likely source & this would certainly seem to be correct. Further examination of the transmissions by Ary show the transmissions to be of French origin & the station also ends transmissions with short tones & the hourly markers between transmissions, both notable feature of M23 transmissions.

The purpose of the transmissions, as with those from previous M23 transmissions would appear to be for a 'fox hunt', direction finding exercises or for training operators searching the bands for the signals, which most likely emanate from the French Military.

M23 has appeared in a number of different formats over the years & now bears no resemblance to the message format that formed the basis of the original designation. The more recent formats were comprised of groups of three or so numbers or letters repeated.

#### \* Salut le Gars translates as 'Hey Guys'

\*\* A long zero is sent using five zeros whereas a short zero, much favoured by the Russian stations, uses a single zero.

#### Single String Changes to Two New Frequency & Time Slots

On 14 October the single string transmissions were heard on 6937kHz & 14930kHz with changed time slots. The hourly tones, a characteristic of M23 transmissions, were also heard on these frequencies. The 6937kHz was found by an associate DXer. relayed via AB.

#### **Another Frequency Added**

On 17 October, another frequency was discovered in use on 4822kHz by the Priyom monitoring group. This appeared to have issues & transmissions were incomplete & irregular, missing on the 19 October. M23 have been known to use this frequency in previous transmissions.

All four frequencies were in use daily on the same time slots. See logs below for more detail:-

Logs	(Represe	entative of the	he transmissions which were sent daily)			
0916	0900z	03 Oct	50505 55550 05550 05500 55005 (R17m 14s) Ends suddenly mid sequence 5050	)5 55550 0555	AB	THU
10916	1500z	03 Oct	15081769 (R 15m44s)			
10916	0900z	04 Oct	50505 55550 05550 05500 55005 (R17m 14s		AB	FRI
10916	1500z	04 Oct	15081769 (R 15m44s)		AB	FRI
10916	0900z	05 Oct	50505 55550 05550 05500 55005 (R17m)	AB/BR/	Jochen	SAT
10916		07 Oct	Hourly tones sent at hh59 – No regular transmissions sent		AB	TUE
10916	0859z	08 Oct	50505 55550 05550 05500 55005 (R 18m16s)		AB	TUE
10916	0900z	09 Oct	50505 55550 05550 05500 55005 (R 18m16s)		AB	WED
10916	0900z	10 Oct	50505 55550 05550 05500 55005 (R 18m26s) Hourly tones still present		AB	THU
10916		11 Oct	NRH – Poor conditions might be the reason		AB	FRI
10916	0900z	12 Oct	50505 55550 05550 05500 55005 (R18m)		AB	SAT
6937	0359z	14 Oct	15081769 (R15m48s)		AB	MON
10916	0859z	14 Oct	50505 55550 05550 05500 550005 (R19m)		AB/BR	MON
14930	1159z	14 Oct	15081769 (R 15m57s)		AB	MON
6937	0359z	15 Oct	15081769 (R15m48s)		AB	TUE
10916	0900z	15 Oct	50505 55550 05550 05500 55005 (R 18m21s)			
14930	1159z	15Oct	15081769 (R 15m51s)			
6937	0359z	16 Oct	15081769 (R15m44s)		AB	WED
10916	0900z	16 Oct	50505 55550 05550 05500 55005 (R 18m21s)			
14930	1159z	16 Oct	15081769 (R 15m51s)			
6937	0359z	17 Oct	15081769 (R15m49s)		AB	THU
10916	0859z	17 Oct	50505 55550 05550 05500 55005 (R 18m20s)			
14930	1159z	17 Oct	15081769 (R 15m51s)			
4822	2303z	17 Oct	Probably had issues as it sent only 505 and part of a 4th digit then off.	(Via Priyom)		
6937	0400z (I	P) 18 Oct	15081769 (R15m??s)		AB	FR1
10916	0859z	18 Oct	50505 55550 05550 05500 55005 (R18m20s)			
14930	1159z	18 Oct	15081769 (R15m51s)			
4822	2259z	18 Oct	50505 55550 05550 05500 55005 (R17m)	(Via Priyom)		
6937	0359z	19 Oct	15081769 (R15m47s)		AB	SAT
4822	2259z	19 Oct	Not active on 19-10. This is an irregular one			
6937	0359z	20 Oct	15081769 (R15m47s)		AB	SUN
6937	0359z	22 Oct	15081769 (R15m49s)		AB	TUE
10916	0859z	22 Oct	50505 55550 05550 05500 55005 (R18m22s)		AB/BR	TUE
14930	1159z	22 Oct	15081769 (R15m48s)		AB	TUE
4822	2259z	22 Oct	50505 55550 05550 05500 55005 (R17m)			
14930	1159z	30 Oct	15081769 (R15m)		BR	WED
4822	2303z	30 Oct	05505 05 555 <i><pause></pause></i> W Then heard from 2307z sending usual output – ver	y weak, only just audible	BR	WED
6937	0359z	31 Oct	15081769 (R15m44s)		AB	THU

Thanks for your logs & comments on this, Ary. Characteristics & signal strength would indicate either M23 or same organisation, I think. Many thanks to Ary, (AB), for his work on this & also Ary's associate, Priyom, BR & Jochen for additional logs & reports.

### Morse Stations - Not Number Related

#### <u>M51</u> XIX

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

No reports - M51b format in use

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

3881//6825

1130 - 1214z	30 Sep	Lundi-Leçon	01-2/1 Codé	01-2/2 Clair,	01-2/3 Codé,	01-2/4 Clair (420 grps/hr)	BR	MON
1130 - 1201z	01 Oct	Mardi-Leçon	02-2/1 Codé	02-2/2 Clair,	02-2/3 Codé,	02-2/4 Clair (600 grps/hr)	BR	TUE
1130 - 1207z	02 Oct	Mercredi- Leçon	03-2/1 Codé,	03-2/2 Clair,	03-2/3 Codé,	03-2/4 Clair (720 grps/hr)	BR	WED
1130 - 1156z	03 Oct	Jeudi- Leçon	04-2/1 Codé,	04-2/2 Clair,	04-2/3 Codé,	04-2/4 Clair (840 grps/hr)	BR	THU

<u>M51b</u>	Non-stop :	n-stop 5-character groups composed of M51a messages on 3881//6825kHz						
3881//6825 2110z		27 Oct	Non-stop	5-character groups composed of M51a messages	BR	SUN		
<u>M89</u> O								
4860// 6840	1945z	30 Oct. 24	Ļ	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	BR	WED		
M95 O XSV, XSV70, XSV85								
6936	Call Sign 2102z	SAQC	(Active dat 27 Oct	ily - only first marker log has been included) V YHXD (x3) DE SAQC (x2) (IP - Cont'd)	BR	SUN		

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

### Marker Beacons (MX MXI)

5153.7	1921z	22 Sep	MXI MXI	CW Beacon	"D" "D"	Sevastopol		BR	SUN
5153.9	1823z	27 Oct 22 Sep	MXI	CW Beacon	"S"	Severomorsk	Weak	BR	SUN
5156.7	1821z	22 Sep	MX	CW Beacon	"L"	St Petersburg	Fair	BR	SUN
7508.7	1820z	22 Sep	MXI	CW Beacon	"D"	Sevastopol		BR	SUN
	2051z	27 Oct	MXI	CW Beacon	"D"	Sevastopol		BR	SUN
7508.9	1819z	22 Sep	MXI	CW Beacon	"S" 3	Severomorsk		BR	SUN
7509	1819z	22 Sep	MXI	CW Beacon	"C"	Moscow		BR	SUN
	2052z	27 Oct	MXI	CW Beacon	"C"	Moscow		BR	SUN
	0943z	28 Oct	MXI	CW Beacon	"C"	Moscow	Weak	BR	MON
8494.8	0823z	18 Sep	MXI	CW Beacon	"P"	Kaliningrad	Good under fair STANAG	BR	WED
	1818z	22 Sep	MXI	CW Beacon	"P"	Kaliningrad	Fair under Strong STANAG	BR	SUN
8497.8	0822z	18 Sep	MX	CW Beacon	"L"	St Petersburg		BR	WED
	1816z	22 Sep	MX (	CW Beacon	"L"	St Petersburg		BR	SUN
	2051z	27 Oct	MX (	CW Beacon	"L"	St Petersburg		BR	SUN
	0944z	28 Oct	MX	CW Beacon	"L"	St Petersburg		BR	MON
10871.7	0821z	18 Sep	MXI	CW Beacon	"D"	Sevastopol		BR	WED
	1815z	22 Sep	MXI	CW Beacon	"D"	Sevastopol		BR	SUN
	2048z	27  Oct	MXI	CW Beacon	"D"	Sevastopol		BR	SUN
10871.8	09457	28 Oct	MXI	CW Beacon	"P"	Kaliningrad	Strong	, BR	MON
10871.9	0822z	18 Sep	MXI	CW Beacon	"S"	Severomorsk	Weak	BR	WED
100/11/	18167	22 Sep	MXI	CW Beacon	"S"	Severomorsk	Weak	BR	SUN
	2050z	22 Sep 27 Oct	MXI	CW Beacon	"S"	Severomorsk		BR	SUN
	0946z	27 Oct	MXI	CW Beacon	"S"	Severomorsk	Weak		MON
10872	20/18z	20 Oct	MXI	CW Beacon	"C"	Moscow	Wear	BR	SUN
10072	0946z	27 Oct	MXI	CW Beacon	"C"	Moscow		BR	MON
10872.1	2049z	27 Oct	MXI	CW Beacon	"A"	Astrakhan		BR	SUN
13527.7	08207	18 Sen	MXI	CW Beacon	"ח"	Sevestopol		BR	WED
15527.7	18127	22 Sep	MXI	CW Beacon	"D"	Sevastopol		BR	SUN
	00477	22 Sep 28 Oct	MYI	CW Beacon	"D"	Sevastopol		BD	MON
13527.0	08207	18 Sen	MXI	CW Beacon	"S"	Severomorsk		BR	WED
15521.9	18137	22 Sep	MXI	CW Beacon	"S"	Severomorsk		BR	SUN
	2046z	22 Sep 27 Oct	MXI	CW Beacon	"S"	Severomorsk		BR	SUN
	09/87	27 Oct	MXI	CW Beacon	"S"	Severomorsk		BR	MON
13528	09402	18 Sen	MXI	CW Beacon	"C"	Moscow		BR	WED
15520	18137	22 Sep	MXI	CW Beacon	"C"	Moscow		BR	SUN
13528.1	2047z	27 Oct	MXI	CW Beacon	"A"	Astrakhan	Weak	BR	SUN
16331 7	10057	04 Sep	MYL	CW Beacon	ית"	Savastopol		ЦEI	D WED
10551.7	08177	18 Sep	MXI	CW Beacon	"D"	Sevastopol		BR	J WED
	18007	10 Sep 22 Sep	MYI	CW Beacon	"D"	Sevestopol	Strong	, BD	SUN
	08587	22 Sep 28 Oct	MXI	CW Beacon	"D"	Sevastopol	Suong	, DR BR	MON
16331.8	00572	28 Oct	MYI	CW Beacon	"D"	Kaliningrad		BD	MON
16331.0	09372	28 Oct 18 Sep	MYI	CW Beacon	ירשיי	Savaromorsk	Weak	BD	WED
10551.9	18112	18 Sep	MYI	CW Beacon	ט ייפיי	Severomorsk	Weak		SUN
	00582	22 Sep 28 Oct	MYI	CW Beacon	ט ייפיי	Severomorek	weak		SUN
16332.0	10067	20 OCI 04 Son	MVI	CW Beacon	ъ "С"	Moscow			
16332.0	10072	04 Sep	MYI	CW Beacon	"A"	Astrokhon			
10332.1	0818z	18 Sep	MXI	CW Beacon	'А''	Astrakhan	Weak	BR	WED WED
200477	0814-	10 5	MVI	CW D	"D"	Coverate		חח	11 11-11-
20047.7	0014Z	10 Sep	MVI	CW Beacon	ע ייםיי	Sevasiopol		BK	WED
	1004Z	28 Oct	MAI	Cw Beacon	D	Sevastopol		BK	MON

20047.9	1005z	28 Oct	MXI	CW Beacon	"S"	Severomorsk		BR	MON
20048.1	0816z	18 Sep	MX	CW Beacon	"A"	Astrakhan	V.Weak	BR	WED
	1015z	28 Oct	MX	CW Beacon	"A"	Astrakhan		BR	MON

### **Oddities**

#### 'The Alarm'

4770	2055z	27	7 Oct	Marker Sig	anal (The Alarm)		USB	Good	BR	SUN
<u>828</u> 1831z 2056z	<u>'The Buzzer'</u> 22 27	Sep S23 Oct S23	28 28	Digital sigr 'The Buzze	nal present on freq r' Marker	Weak!!	USB USB		BR BR	SUN SUN
<u>830</u>	<u>'The Pip'</u>									
3756	2057z	27	7 Oct	S30	'Pip' marker (Night freq)		USB		BR	SUN
<u>New Add</u>	New Additional 'Pip' Markers									
6218	1830z 2059z	22 27	2 Sep 7 Oct	'Pip' Marke Strong con	er tinuous digital tones		USB USB		BR BR	SUN SUN
6402	1830z	22	2 Sep	'Pip' Marke	er Not synched with 6218kHz		USB		BR	SUN
6930	1829z	22	2 Sep		Buzzer / Goose? Marker		USB		BR	SUN

**Contributors:** 

AB, BR, Gert, HFD, Jochen, PoSW Thank you all for your logs.

## **Voice Number Stations**

## E06 Sept/Oct log:

From RNGB:

#### E06 Sept/Oct log:

 First /Third Thursday (repeats Friday)
 0500z
 14370kHz
 0600z
 16265kHz

 05/09
 '354' 297 60 95711 59134 26025 85694 78583 98177
 30894 87065 50235 99440 46265 79418 40547 49115 62055 79739 70411 46651 25495 49071

 44423 86981 45988 83128 59692 23307 02789 19474 85451 83884 22710 94783 93146 41263 20034 13156 41716 57392 15816 11385

 47726 53053 78771 32149 95043 75033 54935 41044 63786 59508 78274 48408 83149 15035 79446 21859 37880 73625 34889 00500

 297 60 00000

#### No reports for October [but read on]:

#### From PoSW

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

5-Sept-24:- 0500 UTC, 14370 kHz, calling "354", DK/GC "297 297 60 60", weak at first, became stronger. 0600 UTC, 16265 kHz, weak but reasonably clear signal.

6-Sept-24, Friday:- 0500 UTC, 14370 kHz, first sending of the "next day repeat", weak signal. 0600 UTC, 16265 kHz, also weak.

19-Sept-24:- Nothing readable at first from the first sending at 0500 UTC on 14370 kHz. 0508 UTC 14370 kHz, became readable about eight minutes in, gradually becoming stronger. Ended after 0514z with, "281 281 60 60 00000". 0600 UTC, 16265 kHz, much stronger.

20-Sept-24, Friday:- 0600 UTC, 14370 kHz, very weak signal down in the noise. 0600 UTC, 16265 kHz, stronger.

Lost track of this one in October, prediction list and last year's logs say a shift of one hour, 0600 UTC, 18425 kHz and 0700 UTC, 20230 kHz. Forgot to listen on Thursday the  $3^{rd}$  but nothing heard on Friday the  $4^{th}$  or on Thursday the  $17^{th}$  or Friday the  $18^{th}$ . It is not unusual for signals to be weak but even if very weak and unreadable it is usually possible to detect the presence of the carrier with the receiver in USB mode.

Peter's logs echo others findings as he writes:

Only two schedules left from this English language SSB number station, each appearing two days a week in the UK afternoon.

Tuesday + Friday Schedule, 1500 UTC Start:-3-Sept-24, Tuesday:- 1500 UTC, 17452 kHz, "428 428 428 42", message, DK/GC "147 99" x 2, signal strength up and down, ended at 1510:40s UTC. 1520 UTC, 16272 kHz, also varying in signal strength. Nothing heard of the third sending at 1540z - because I realised some time afterwards I had tuned to 14872 when in fact the there is a 3kHz offset with this one, i.e. 14875. 6-Sept-24, Friday:- 1500 UTC, 17452 kHz, very weak signal, unreadable. 1520 UTC, 16272 kHz, much stronger, "428" and "147 99" again. 1540 UTC, 14875 kHz, weak at first, became stronger around 1545z. 10-Sept-24, Tuesday:- 1500 UTC, 17452 kHz, "428 428 428 000". 1520 UTC, 16272 kHz, stronger. 13-Sept-24, Friday:- 1500 UTC, 17452 kHz, "428 428 428 000", strong signal. 1520 UTC, 16272 kHz, also strong. 20-Sept-24, Friday:- 1500 UTC, 17452 kHz, "428 428 428 1", message, DK/GC "249 169" x 2, good signal, ended at 1516:25s UTC. 1520 UTC, 16272 kHz, strong. 1540 UTC, 14875 kHz, weak signal. 24-Sept-24, Tuesday:- 1500 UTC, 17452 kHz, "428 428 428 000", good signal. 1520 UTC, 16272 kHz, weaker. 27-Sept-24, Friday:- 1500 UTC, 17452 kHz, "428...000" again, vanished off air after about one minute, came back and ended around 1503:30s UTC. 1520 UTC, 16272, good signal. 1-Oct-24, Tuesday:- 1500 UTC, 17461 kHz, "413 413 413 1", message, DK/GC "8727 70" x 2, good signal. 1520 UTC, 16161 kHz, weaker. 1540 UTC, 14361 kHz, weakest of the three transmissions. 4-Oct-24, Friday:- 1500 UTC, 17461 kHz, "413" and "8727 70" again, good signal. 1520 UTC, 16161 kHz, slightly weaker. 1540 UTC, 14361 kHz, weakest. 8-Oct-24, Tuesday:- 1500 UTC, 17461 kHz, very weak signal, unreadable. Nothing readable from the second sending at 1520 UTC on 16161. 11-Oct-24, Friday:- Again, nothing readable from any transmission. 15-Oct-24, Tuesday:- 1500 UTC, 17461 kHz:- "413 413 1", message, DK/GC "9195 158" x 2, strong signal today. Ended at 1515:35s UTC. 1520 UTC, 16161 kHz, slightly weaker. 1540 UTC, 14361 kHz, slightly weaker again. Everything much stronger than last week. 22-Oct-24, Tuesday:- 1500 UTC, 17461 kHz, "413 413 413 000". 1520 UTC, 16161 kHz, also strong. 25-Oct-24, Friday:- 1500 UTC, 17461 kHz and 1520 UTC, 16161 kHz, both good signals, "413 413 4000". 29-Oct-24, Tuesday:- 1500 UTC, 17461 kHz, "413 413 1", message, DK/GC "3654 104". Strong signal, ended 1511:10s UTC approx. 1520 UTC, 16161 kHz, slightly weaker. 1540 UTC, 14361 kHz, weakest of the three. 
 Thursday
 + Saturday
 Schedule,
 1410
 UTC
 Start: 

 5-Sept-24,
 Thursday: 1410
 UTC,
 16228
 kHz,
 "594
 594
 000".
 1430 UTC, 15928 kHz, weak. 7-Sept-24, Saturday:- 1410 UTC, 16228 kHz, "594 594 594 000", weak. 1430 UTC, 15928 kHz, very weak. 12-Sept-24, Thursday:- 1410 UTC, 16228 kHz, "594 594 594 1", message, DK/GC "6358 93" x 2. Weak, reasonably clear signal. 1430 UTC, 15928 kHz, slightly stronger. 1450 UTC, 14928 kHz, very weak at first, became stronger. 14-Sept-24, Saturday:- 1410 UTC, 16228 kHz, "594" and "6358 93" again, weak signal. 1430 UTC, 15928 kHz, weak at first, became stronger. 1450 UTC, 14928 kHz, very weak. 19-Sept-24, Thursday:- 1410 UTC, 16228 kHz, "594 594 594 000", good signal. 1430 UTC, 15928 kHz, weaker. 21-Sept-24, Saturday:- 1410 UTC, 16228 kHz and 1430 UTC, 15928 kHz, "594 594 504".

28-Sept-24, Saturday:- 1410 UTC, 16228 kHz, "594 594 594 1", message, DK/GC "557 145" x 2, good signal with some fading. A higher group count than most, ended around 1424:30s UTC.

1430 UTC, 15928 kHz, interference from a strong buzz extending from about 15923 to 15938 kHz. 1450 UTC, 14928 kHz, weak signal.

3-Oct-24, Thursday:- 1410 UTC, 15849 kHz, "746 746 746 000", good signal. 1430 UTC, 14849 kHz, also a good signal.

5-Oct-24, Saturday:- 1410 UTC, 15849 kHz, "746 746 746 000", good signal. 1430 UTC, 14849 kHz, weaker.

10-Oct-24, Thursday:- 1410 UTC, 15849 kHz, "746 746 746 1", message, DK/GC "4198 129" x 2. Transmission failed at 1422:30s approx, came back with "746...1" routine then into 5Fs just before 1424z. Ended around 1425:35s UTC. 1430 UTC, 14849 kHz, weak signal. 1450 UTC, 13449 kHz, weak, clear.

12-Oct-24, Saturday:- 1410 UTC, 15849 kHz, "746" and "4198 129" again, signal strength up and down. 1430 UTC, 14849 kHz, weak. 1450 UTC, 13449 kHz, strongest signal of the three transmissions.

17-Oct-24, Thursday:- 1410 UTC, 15849 kHz, "746 746 746 000", good signal. 1430 UTC, 14849 kHz, weaker.

26-Oct-24, Saturday:- 1410 UTC, 15849 kHz, "746 746 746 1", message DK/GC "7385 88" x 2, good signal, ended 1419:50s UTC. 1430 UTC, 14849 kHz, weaker. 1450 UTC, 13449 kHz, weakest of the three this afternoon.

In comparison logs from M8, HJH and PLdn

#### September 2024

#### Tuesday/Friday

#### September 2024

1500z	17452kHz		1520z	16272kHz	1540z	18542kHz	2
03/09		428 1 147	99 51687 t	o 19214 000 000			Weak, 1500z QSB2
06/09		428 1 147	99 51687	. 19214 000 000			1500z Weak, 1520z Fair, 1540z Strong
13/09		428 000					Strong
17/09		428 1 249	169 11992	05211 000 000			Weak
20/09		428 1 249	169 11992	05211 000 000			Strong, 1540z Weak
24/09		428 000					Fair
October 2	2024						
1500z	17461kHz		1520z	16161kHz	1540z	14361kHz	I

01/10	413 1 8727 70 86854 54991 000 000	1500z Weak, rest Fair
413 1 8727 70 86854 19368 91126 45280 9 60046 22616 53732 63109 7 80648 83372 66233 69303 9 17139 61582 52234 23395 9 13014 43934 60103 05809 9 44390 74757 33535 66033 4 50470 54368 73693 18911 2 000 000	28183 21958 63259 08472 92418 62150 28339 74489 81110 30177 28985 99833 77260 28199 67862 88020 28775 43515 3495 98531 16157 80854 02423 45056 7334 92510 29281 97233 30608 14147 22329 01349 46435 29781 94353 11235 25024 23960 59525 56420 31659 54991 <i>Courtesy dMHz</i>	
04/10	413 1 8727 70 86854 54991 000 000	1540z Fair, rest Strong
08/10	413 000	Weak [via Finnish SDR]
15/10	413 1 9195 158 19752	1540z Fair, rest Weak [Automatic recording. Time ran out for each session]
18/10	413 1 9195 158 19752 44304 000 000	Fair
24/10	413 000	Fair
29/10	413 1 3654 104 55344 50516 000 000	1520z Strong, rest Fair

Thursday/Saturday

#### September 2024

1410z	16228kHz	1430z	15928kHz	1450z	14928kH	z		
05/09		594 000				Weak		
12/09		594 1 6358 93 608	74 86922 000 000			1410z Fair, rest Weak		
14/09		594 1 6358 93 608	74 86922 000 000			Fair		
19/09		594 000				Fair		
21/09		594 000				Weak		
26/09		594 1 557 145 0669	93 86199 000 000			Weak	HJH	THU
28/09		594 1 557 145 0669	93 86199 000 000				Ary	SAT

#### 594 594 594 1 557 145 557 145

06993 12737 82932 14773 30741 90722 68713 73954 78998 57128 94529 72869 73728 87509 32745 19502 54764 29720 23982 15907 00814 03029 00902 19426 12016 62249 10724 71990 89558 52856 23188 87053 44895 18533 09666 00234 72741 66551 94024 59244 70447 33464 29667 43446 59693 16300 52689 68366 76409 50131 01770 48658 69873 00660 86791 24867 73505 58521 09420 93252 40060 16913 92148 71575 73686 60489 49307 45756 80836 90873 92573 05600 63785 89880 53109 07310 70670 83393 83521 63596 14831 44525 13190 10693 89230 13987 77195 27041 70608 15222 80348 99816 34643 02717 49601 15424 13627 54801 24994 41862 20846 30235 08283 36043 19156 46448 71402 57221 23649 44720 24984 17793 15103 58245 83223 50671 61413 81659 94040 30605 77660 18213 17825 10730 37297 95511 88108 71423 83210 13700 92004 46673 70023 30747 02817 57108 98551 82578 99841 63743 73863 33655 13364 43515 86199 000 000 Courtesy Ary

#### October 2024

1410z	15849kHz	z 1	430z	14849kHz	1450z	13449kHz	
03/10		746 000					Fair
05/10		746 000					Weak
10/10		746 1 4198	129 59873	3 48096 000 000			Weak
12/10		NOT MONI	TORED				
17/10		746 000					Fair, 1430z audio distorted
19/10		746 000					1410z NRH, 1430z Strong
24/10		746 1 7385 8	38 94078 .	27336 000 000			1410z Weak, rest Fair
26/10		746 1 7385 8	38 94078 .	27336 000 000			Fair
31/10		746 000					Fair

## E11 & E11a log Sept/Oct

4181kHz	1605z 1610z	04/09 [395/00] Out 1608z S2 07/09 [374/00] Out 1613z S2	Malc Malc	WED SAT
	1610z	11/09 [394/00] Out 1608z S2	Malc	WED
	1610z	21/09 [396/34 2163634549] Out 1620z S2	Malc	SAT
	1610z	25/09 [393/00] Out 1613z S5 (Finnish SDR)	Malc	WED
	1610z	02/10 [396/00] Out 1613z S2	Malc	WED
	1610z	05/10 [395/00] Out 1613z S4	Malc	SAT
	1610z	30/10 [390/00] Strong	dMHz, Gary H	WED
4505kHz	1645z	01/09 [369/00] Out 1648z S3 (Dutch SDR)	Malc	SUN
	1645z	07/09 [364/35 88947 22607] Out 1655z S4 (Dutch S	SDR) Malc	SAT
	1645z	14/09 [368/00] Out 1648z S3	Malc	SAT

	1645z	15/09 [364/00] Out 1648z S2	Malc	SUN
	16457	21/09 [365/00] Out 1648z \$3	Malc	SAT
	16452		Mal	GIN
	1645z	22/09 [369/00] Out 1648z S2	Malc	SUN
	1645z	05/10 [360/00] Out 1648z S3	Malc	SAT
	1645z	06/10 [368/00] Out 1648z S2	Malc	SUN
5176kHz	16057	01/00 [234/00] Out 1608z S3 (Dutch SDP)	Male	SUN
JI/UKIIZ	10052		Walc	SUN
	1605z	03/09 [233/39 6503437550] Out 1616z S5 (Finnish SDR)	Malc	TUE
	1605z	10/09 [236/00] Out 1608z S5 (Dutch SDR)	Malc	TUE
	16057	17/09 [236/00] Out 1608z S2 + ORM	Malc	TUF
	16052	22/00/1272/001 Out 10002 52 · OIM	M <sub>-1</sub>	CUN
	10052	22/09 [376/00] Out 16082 S2+QRM	Maic	SUN
	1605z	24/09 [230/00] Out 1608z S5 (Finnish SDR)	Malc	TUE
	1605z	01/10 [236/00] Out 1608z S3+ORM	Malc	TUE
	16057	06/10 [230/00] Out 1608z \$2+ OPM	Male	SUN
	16052	00/10 [235/00] Out 1002 321 QMM	Maic	JUN
	1605z	08/10 [237/00] Out 1608Z S2+QRM	Malc	TUE
	1605z	20/10 [233/00] Fair	dMHz	SUN
	1605z	22/10 232/31 70188 21741 85003 48405 21834 43890 80994 19964 574111	dMHz	TUE
	16057	29/10 [231/00] Out 1608z \$5+OPM	Malc	TUE
	10052	25/10 [251/00] Out 10002 05 (QMM	Wate	TOL
	1000			
53/1kHz	1300z	02/09 [314/00] Out 1303z S4 (Finnish SDR)	Malc	MON
	1300z	09/09 [315/00] Out 1303z S5 (Finnish SDR)	Malc	WED
	1300z	12/09 [311/00] Out 1303z S6 (Finnish SDR)	Malc	THU
	1200-	12(0) [21/(0)] Out 1202 52 (Dirich SDR)	Mala	MON
	1300Z	16/09 [516/00] Out 15052 S2 (Dutch SDR)	Maic	MON
	1300z	19/09 [310/00] Out 1303z S8 (Finnish SDR)	Malc	THU
	1300z	23/09 [316/37 4762612242] Out 1312z S7 (Finnish SDR)	Malc	MON
	13007	30/09 [311/00] Out 1303z S6 (Finnich SDR)	Malc dMHz	MON
	12002	$23(0)$ [217/00] $O_{\rm eff}$ (2022 65 (7) (1000 DDR)	M-1-	WION THE
	1300z	05/10 [510/00] Out 15052 S5 (Finnish SDR)	Maic	THU
	1300z	07/10 [312/00] Out 1303z S4 (Dutch SDR)	Malc, HfD	MON
	1300z	21/10 [311/00] Weak	dMHz	MON
	1300-	24/10 [315/00] Out 13037	dMHz	TUI
	1300Z			IHU
	1300z	28/10 [312/32 28051	Malc	MON
5737kHz	20007	01/09 [520/00] Out 2003z S6	Malc. Brixmis	SUN
5757RHZ	20002	05/00 [521/00] Out 20022 85	Mala Drimmia	TIU
	2000Z	05/09 [521/00] Out 20032 S5	Maic, Brixmis	THU
	2000z	15/09 [524/00] Out 2003z S6	Malc	SUN
	2000z	19/09 [521/00] Out 2003z S7	Malc	THU
	20007	22/09 [525/0] Out 20037 \$7	Male	SUN
	20002			501
	2000z	26/09 [521/32 85838 65948 21862 97999 02649 65408 81453 2084972651 16085]	Gary H	THU
	2000z	03/10 [524/00] Out 2003z S8	Malc	THU
	2000z	06/10 [521/00] Out 2003z \$5	Malc	SUN
	20002	0010 [521/00] 25(2) 11025 74095 2(254 47090 002(15(0)(2224)) 50(04 12(42)0	Duinunia	TUU
	2000Z	24/10 [520/57 25008 11025 74985 50254 47989 00501 50906 5554159094 15642 JOUT 20102	Brixmis	THU
	2000z	31/10 [528/00] Out 2003z S7	Malc	THU
6807kHz	0820z	05/09 [435/00] Out 0823z S3 (Dutch SDR)	Malc	THU
000711112	08202	06/00 [420/00] Out 09222 S4 (Dutch SDR)	Mala	EDI
	08202	00/09 [450/00] Out 08252 54 (Dutch SDR)	wate	ГКІ
	0820z	13/09 [431/00] Out 0823z S5 (Finnish SDR)	Malc	FRI
	0820z	19/09 [432/00] Out 0823z S5 (Finnish SDR)	Malc	THU
	08207	20/09 [430/00] Out 0823z S4 (Finnish SDR)	Malc	FRI
	00202	2009 [450/06] Out 00252 54 (1 minist 55K)	Whate	1 Ki
(02211	1715		26.1	EDI
6923khz	1715z	06/09 [975/00] Out 1715z S7	Malc	FRI
	1715z	11/09 [977/32 8368577185] Out 1725z S5	Malc	WED
	17157	18/09 974/001 Out 1718z S6	Malc	WFD
	17152	20/00 1077/00 0 ct 17102 50	Male	
	1/15Z	20/09 [977/00] Out 1718z S7	Malc	FKI
	1715z	25/09 [974/00] Out 1718z S5	Malc	WED
	1715z	02/10 [976/39 25854	Malc	WED
	17157	30/10 [974/00] Out 1718z	dMHz Male	WED
	1/152	50/10 [9/4/00] Out 1/182	ulvinz, Male	WED
6940kHz	0930z	04/09 [278/00] Out 0933z S3 (Dutch SDR)	Malc	WED
	0930z	05/09 [271/00] Out 0933z S2	Malc	THU
	09307	11/09 [278/00] Out 0933z S3 (Dutch SDR)	Malc	WED
	0020	12/00 [277/00] Out 0/352 05 (Cluck 150A)	Mala	
	0930Z	12/07 [27//00] Out 09552 55 (FIIIIISI 5DK)	wate	THU
	0930z	18/09 [2/6/34 4550571951] Out 0940z S3 (Dutch SDR)	Malc	WED
	0930z	25/09 [271/00] Out 0933z S4 (Dutch SDR)	Malc	WED
	09307	02/10 [279/00] Out 09337 S5 (Finnish SDR)	Malc	WED
	0000	02/10[277/00] O(10)22[35] (1 minin 3DR)	Maic No. 1	
	0930z	03/10 [2/5/00] Out 09332 S5 (Dutch SDR)	Malc	THU
	0930z	30/10 [276/00] Out 0933z S3 (Dutch SDR)	Malc	WED
	0930z	31/10 [278/00] Out 0933z S2	Malc	THU
				0
72171 11	1000	02/00 [641/00] Out 1002- 50	Mala	
/31/KHZ	1900Z		Maic	MON
	1900z	05/09 [648/00] Out 1903z S7	Brixmis	THU
	1900z	09/09 [649/40 49237 68804 45668 65808 63893 59746 1854955812 447931	Brixmis. Malc	MON
	1900-2	16/09 [649/00] Out 19037 \$7	Malc	MON
	10002	10/02 [01/100] Out 1902- 57	M-1-	WION THE
	1900z	19/09 [043/00] Out 19032 S7	Maic	THU
	1900z	23/09 [644/00] Out 1903z S5	Malc	MON
	19007	30/09 [643/00] Out 1903z \$5	Malc. Gary H	MON
	1000-	22/10 [64.4/00] Out 1902 g 6	Mala	TIU
	1900Z		wiaic	THU
	1900z	07/10 [641/36 9051066014] Out 1910z S4	Malc	MON
	1900z	17/10 [640/00]	Gary H	THU
	19007	28/10 644/001 Out 1903z S5	Malc dMHz	MON
	10002	21/10 [01/100] Out 1902-05	Mala	TION
	1900Z	51/10 [040/00] Out 1905Z S7	Maic	THU
8180kHz	0700z	03/09 [579/00] Good	RNGB, Malc	TUE
	0700z	06/09 [575/00] Good	RNGB	FRI
		<ul> <li>A state of the sta</li></ul>		

	0700z	10/09 [570/00] Out 0703z S3	Malc	TUE
	0700z	13/09 [571/00] Fair	RNGB	FRI
	0700z	13/09 [571/00] Out 0703z S2	Malc	FRI
	0700z	17/09 [575/00] Out 0703z S3	Malc	TUE
	0700z	20/09 [575/00] Good	RNGB	FRI
	0700z	24/09 [570/38 47625 50229 61619 28761 1346079073 24819 68853] Out 0711z S3	RNGB, Malc	TUE
	0700z	01/10 [576/00] Out 0703z S4	Malc	TUE
	0700z	04/10 [571/00] Good	RNGB, Malc	FRI
	0700z	08/10 [570/00] Out 0703z S2	Malc	TUE
	0700z	11/10 [577/00] Good	RNGB	FRI
	0700z	22/10 [575/00] Good	RNGB	TUE
	0700z	25/10 [57//00] Good 20/10 [571/00] Oct 0702= 85	KNGB Mala	FKI
	0700z	29/10 [5/1/00] Out 0/032 S5	Maic	IUE
8423kHz	0645z	24/09 [515/00] Out 0648z S4	Malc	TUE
	0645z	01/10 [518/00] Out 0648z S4	Malc	TUE
	0645z	03/10 [518/00] Out 0648z S3	Malc	THU
	0645z	08/10 [515/00] Out 0648z S2	Male, HfD	TUE
	0645z	29/10 [511/00] Out 0648z S7	Malc	TUE
8530kHz	1910z	01/09 [616/00] Out 1813z S9	Malc	SUN
	1910z	06/09 [616/37 94199 82295 48965 94270 12047 67216 0563099480 81996] Out 1921z S9	Brixmis, Malc	FRI
	1910z	13/09 [617/00] Out 1913z S5	Malc	FRI
	1910z	15/09 [611/00] Out 1913z S7	Malc	SUN
	1910z	20/09 [616/00] Out 1913z S5	Malc	FRI
	1910z	22/09 [610/00] Out 1913z S7	Malc	SUN
	1910z	06/10 [613/00] Out 1913z S6	Malc	SUN
	1910z	20/10 [618/00] Weak	dMHz	SUN
	1910z	25/10 [616/35 16730 57127 27246 29559 78192 32658 2361882737 06962]	dMHz	FRI
8680kHz	0600z	06/08 [353/00] Good	RNGB	FRI
	0600z	04/10 [359/00] Good	RNGB, Malc	FRI
9079kHz	0700z	01/09 [495/00] Out 0703z \$3	Malc	SUN
	0700z	07/09 [495/00] Out 0703z S5	Malc	SAT
	0700z	08/09 [492/00] Out 0703z S5	Brixmis	SUN
	0700z	14/09 [497/00] Out 0703z S4	Malc	SAT
	0700z	15/09 [498/00] Out 0703z S3	Malc	SUN
	0700z	21/09 [492/00] Out 0703z S4	Malc	SAT
	0700z	22/09 [498/00] Out 0703z S4	Malc	SUN
	0700z	29/09 [497/36 46234 14176 73206 56367 67890 32279 15348 27494 72485695963 10442]	RNGB, Malc	SUN
	0700z	05/10 [492/38 5952435542] Out 0711z S6	Malc	SAT
0150kHz	08207	04/10 [435/32 47388 64635] Out 08307 \$3	Male	FRI
JIJOKIIL	08202	10/10 [438/00]	HfD	THI
	08202	25/10 [435/00] Good	RNGR	FRI
	0820z	31/10 [439/00] Out 0823z S3	Malc	THU
0200111	1205	02/00 [4(2)/01] 0 (1200 - 52	N 1	
9399KHZ	1205Z	05/09 [465/00] Out 12082 55 04/00 [461/00] Out 1208z 52	Male	TUE
	12052	04/09 [401/00] Out 12082 55	Male	
	12052	10/09 [462/00] Out 12082 55 11/00 [465/00] Out 12082 55	Male	IUE
	12052	17/09 [465/00] Out 1208z S2	Male	
	12052	24/09 [460/30] Out (2002.52) 24/00 [460/33.82507 = 62550] Out (2157.85 = (Finnish SDR))	Male	TUE
	12052	01/10 [463/00] Out 1208z \$3	Male	TUE
	12052	02/10 [462/00] Out 1208z \$3	Male	WFD
	1205z	08/10 [461/00] Out 1208z S3	Malc	TUE
	1205z	22/10 [463/00] Out 1208z S2	Brixmis	TUE
	1205z	29/10 [469/38 00968 70822 56080 82445 18232 50341 19857 3484506252 53140]	dMHz	TUE
99511·U~	10007	03/09 [305/00] Out 1003z \$3	Male	TUE
//JINIIZ	10002	06/09 [300/00] Out 1003z S3	Malc	FRI
	10002	10/09 [300/25 26350	Malc	THE
	10002	17/09 [308/00] Out 1003z S6 (Dutch SDR)	Malc	THE
	1000z	20/09 [307/00] Out 1003z S4	Malc	FRI
	1000z	24/09 [308/00] Out 1003z S6	Malc	TUE
	1000z	01/10 [302/00] Out 1003z S2	Malc	TUE
	1000z	04/10 [309/00] Out 1003z S3	Malc	FRI
	1000z	08/10 [304/00] Out 1003z S3	Malc	TUE
	1000z	18/10 [300/24 71210 41976 09424 68244 93724 27828 37386 37508 82566 33350]	Gary H	FRI
	1000z	25/10 [304/00] Out 1003z	dMHz	FRI
	1000z	29/10 [302/00] Out 1003z S3	Malc	TUE
10213khz	07457	02/09 [260/00] Strong	RNGB. Malc	MON
10213KiiZ	07457	09/09 [267/38 76481	Malc	MON
	0745z	16/09 [264/00] Out 0748z S9	Malc	MON
	0745z	23/09 [264/00] Out 0748z S5	Malc	MON
	0745z	30/09 [269/00] Out 0748z S9	Malc	MON
	0745z	07/10 [269/00] Out 0748z S3+QRM	Malc, HfD	MON
	0745z	28/10 [268/32 2659887050] Out 0755z S9	Malc	MON
102201/11-	1520	05/00 [268/00] Out 15332 \$9	Male	тнл
10.1108 012	7 15307		wide	,
10330KHZ	1530z 1530z	12/09 [267/38 76481 11442 58895 83624 48212 85051 18837 60183 40423 23639]	Gary H	THU

153	2 19/09 [268/00] Out 1533z S9	Malc	THU
153	$\frac{12}{10} = \frac{10}{10} \frac{12}{10} \frac{10}{10} $	Maic	THU
153	22 = 10/10 [201/00]	Gary H	THU
153	2 31/10 [268/32 26598 36620 32210 55767 04138 15661 14434 08377	Gary H, Malc, dMHz	THU
		-	
11116kHz 181	5z 01/09 [927/00] Out 1818z S9	Malc	SUN
181	2 06/09 [926/00] Out 1818z S9	Malc	FRI
181	12 08/09 [922/00] 58	Brixmis	SUN
181	52 = 15/09 [922/00] Out 18182 S9 53 = 15/09 [924/00] Out 18182 S9	Male	SUN
181	57 = 20/09 [922/00]  Out  18182  S9	Male	FRI
181	5z 22/09 [929/00] Out 1818z S9	Malc	SUN
181	5z 04/10 [925/00] Out 1818z S7	Malc	FRI
181	iz 06/10 [921/00] Out 1818z S9	Malc	SUN
12202kbz 084	57 = 0.1/09 [711/00] Strong	RNGB	WFD
084	57 = 09/09 [716/36 17929	Malc	MON
084	z 16/09 [713/00] Out 0848z S6	Malc	MON
084	5z 18/09 718/00 Out 0848z S8	Malc	WED
084	5z 23/09 [713/00] Out 0848z S7	Malc	MON
084	5z 25/09 [714/00] Out 0848z S7	Malc	WED
084	5z 30/09 [711/00] Out 0838z S6	Malc	MON
084	2 02/10 [711/00] Out 0848z S7	Malc	WED
084	2 07/10 [718/00] Good With QKM 57 28/10 [718/38 63461 38993] Out 08557 S5	Malc	MON
12385kHz 104	5z 02/09 [693/29 6100650711] Out 1054z S4	Malc	MON
173	2 05/09 [414/32 81627 21391 65283 25509 24813 07237 8119993215 09429] Out 1740z S9	Ary, Malc	THU
104	12 07/07 [077/00] Out 10462 54 57 11/00 [608/00] Out 10/82 \$4	Male	MON
104	$\frac{11}{09} \begin{bmatrix} 0.98/00 \end{bmatrix} 0 \text{ ut } 10482 \text{ S4}$	Male	
173	12/09 [411/00] Out 1/32 37 16/09 [692/00] Out 1048z S9	Malc	MON
104	57 = 18/09 [691/00]  Out  10487  S6	Malc	WED
173	Dz 19/09 [410/00] Out 1733z S9	Malc	THU
104	5z 23/09 [697/00] Out 1048z S6	Malc	MON
104	5z 25/09 [692/00] Out 1048z S7	Malc	WED
104	5z 30/09 [691/00] Out 1048z S5	Malc	MON
173	0z 03/10 [410/00] Out 1733z S7	Malc, dMHz	THU
045	2 07/10 [412/00]	HfD	MON
104	12 = 0.0000000000000000000000000000000000	Maic	MON
1/3	IZ 1//10 [411/00] 37 23/10 [608/23 12800 00055 10571 67285 78301 05750 45140 72034 27475 64152]	HID Brixmic	I HU WED
104	52 = 25/10 [696/25 12609 00055 19571 07285 78591 95759 4514072054 27475 04152]	Malc	MON
104	30/10 [696/00]  Out  1048z  S8	Malc	WED
173	)z 31/10 [416/38 1006316334] Out 1740z S9	Malc	THU
125201-11- 122	h = 02/00 [222/00] Out 1222 - 05	M-1-	THE
12530KHZ 123	12  0.5/09  [5.52/00]  0.001  [12.532  55]  0.5  (0.5)  [5.52/00]  (0.001  [12.532  [5.5])  [5.52/00]  [5.52/00]  (0.001  [12.532  [5.5])  [5.52/00]  [5	Maic Privmia Mala	TUE
125	12  05/09 [557/00]  Out  1252 50 10/00 [338/00]  Out  12337  S3	Brixmis	
123	12 = 1000 [334/00]  Out  12332  S3	Malc	THU
123	12109 [338/34 11374	Malc	TUE
123	)z 24/09 [333/00] Out 1233z S7	Malc	TUE
123	)z 01/10 [334/00] Out 1233z S5	Malc	TUE
123	0z 03/10 [331/00] Out 1233z S5 (Finnish SDR)	Malc	THU
123	0z 08/10 [330/00] Out 1233z S2	Malc	TUE
123	z 17/10 [331/34 58545 59705 24610 20131 49016 56021 27892 46844 6082229786 50854]	Gary H	THU
123	$Z = \frac{22}{10} \begin{bmatrix} 338}{00} \end{bmatrix}$ Out 1233z	Brixmis	TUE
123	$\frac{12}{24}$ 24/10 [552/00] Out 12552 55 $\frac{1222}{20}$ 20/10 [229/00] Out 12232 55	Brixmis	
123	231/10 [337/00] Out 12332 S7	Malc	THU
13117kHz 090	)z 02/09 [535/00] Good	RNGB	MON
090	2 04/09 [535/00] Strong	RNGB	WED
090	$\frac{11}{100} \frac{530}{001} \frac{00032}{0002} \frac{55}{55}$	Male	MON
090	$\frac{11}{09} \begin{bmatrix} 534}{00} \end{bmatrix} 0 \begin{bmatrix} 09052 \\ 535 \end{bmatrix} 0 \\ \frac{16}{09} \begin{bmatrix} 535}{31} \\ 24741 \end{bmatrix} 0 \\ \frac{308}{10} \\ 0 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ $	Malc	MON
090	$2^{-10}$ $2^{-$	Malc	MON
090	25/09 [538/00] Out 0903z S7	Malc	WED
090	z 30/09 [533/00] Out 0903z S6	Malc	MON
090	)z 02/10 [530/00] Out 0903z S7	Malc	WED
090	07/10 [536/32 9507646135] Out 0910z S8	Malc	MON
090	23/10 [535/00] Good	RNGB	WED
090	28/10 [532/00] Good	RNGB, Malc	MON
090	2 30/10 [532/00] Out 0903z S9	Malc	WED
13470kHz 174	iz 01/09 [249/00] Out 1748z S9	Malc	SUN
174	5z 02/09 [244/00] Out 1748z S2	Malc	MON
064	iz 05/09 [517/00] Out 0648z S9	Malc	THU
174	iz 08/09 [244/00] Out 1748z	Brixmis	SUN
174	vz 09/09 [240/00] Out 1748z S9	Malc	WED
174	02 15/09 [248/00] OUT 1 /482 59 57 16/00 [245/40 03641 07559] Out 17567 S9 OSD 4	Male	SUN
1/4	2 10/07 [245/40 7504107550] Out 17502 80 QBD4	iviaic	WON

1745z	23/09 [245/00] Out 1748z S6	Malc	MON
17457	30/09 [247/00] Out 1748z \$5	Malc	WED
17452	30/07 [247/00] Out 17402 33		WED CIDI
1/45z	06/10 [247/00] Out 1748z S7	Malc, HfD	SUN
1745z	07/10 [248/38 5020422824] Out 1755z S3	Malc, HfD	MON
1745z	21/10 [242/00] Very Weak	dMHz	MON
1745z	28/10 [247/00] Out 1747z S9	Malc	MON
148651412 07452	02/00 [224/00] Good	DNCD Drivmia	THE
14803KHZ 0743Z	05/09 [224/00] Good	KINOD, DIIXIIIIS	IUE
0/45z	05/09 [225/00] Good	RNGB, Brixmis	WED
0745z	10/09 [220/35 59505 51951 46961 4824637772]	Brixmis, Malc	TUE
0745z	17/09 [226/00] Out 0748z S3 (Finnish SDR)	Malc	TUE
07452	10/00 [220/00] Out 07482 \$7	Mala	TUU
07452	19/09 [220/00] Out 07482 37	Iviaic	
0/45Z	24/09 [220/00] Out 0/48z SS	Maic	TUE
0745z	01/10 [220/00] Out 0748z S4	Malc	TUE
0745z	03/10 [229/00] Out 0748z S9+QRM	Malc	THU
07457	08/10 [227/00] Out 0748z S2 (Einnish SDR)	Male	TUF
07452	20/10 [227/00] Gut 0/40/52 2 (Timish 55K)	DNCD	TUE
0745Z		KINGB	TUE
0745z	31/10 [224/00] Out 0748z S9	Malc	THU
14972kHz 1430z	03/09 [915/00] Out 1433z S5	Malc, Brixmis	TUE
1430z	07/09 [911/00] Out 1433z S5	Malc	SAT
14202	10/00 [014/00] Out 14222 S6	Mala	THE
14302	10/09 [214/00] Out 1432 30	Naic Naic	TUE
1430z	14/09 [918/00] Out 1433z S6	Malc	SAT
1430z	21/09 [919/00] Out 1433z S4	Malc	SAT
1430z	24/09 [912/32 57186 77358 00607 17988 53346 84589 4063378912 87405] Out 1440z S4	Arv. Brixmis, Malc	TUE
1/307	01/10 [429/00] Out 1433z \$6	Malc	TUE
1420-	65/10[10200] 0.01[14322] 86	Mala	CAT
1430Z	05/10 [910/00] Out 14352 36	Maic	SAT
1430z	08/10 [919/34 5509937130] Out 1440z S4 (Finnish SDR)	Malc	TUE
1430z	15/10 [912/00]	Gary H	TUE
14307	22/10 [910/00] Out 1433z \$5	Brixmis Gary H dMHz	TUF
14202	22/10/10/10/00 Out 14322 85	Drivenia	TUE
1450Z	29/10 [914/00] Out 14552 85	BIIXIIIIS	IUE
15720khz 0715z	03/09 [639/00] Good	RNGB, Malc	TUE
0715z	06/09 [634/00] Good	RNGB	FRI
07157	10/09 [631/00] Out 07182 S9	Male	TUE
07152		DNCD	FDI
0/15Z	13/09 [637/00] Fair	RNGB	FKI
0715z	13/09 [637/00] Out 1718z S2	Malc	FRI
0715z	17/09 [630/00] Out 0718z S2 (Dutch SDR)	Malc	TUE
07157	20/09 [639/00] Fair	RNGB	FRI
07152	20/09 [05/00] 1 an 0/00 [05/00] 2 44214 592473 0 + 0726 59	MI	
0/15Z	24/09 [633/38 44314	Malc	TUE
0715z	01/10 [633/00] Out 0718z S7	Malc	TUE
0715z	04/10 [637/00] Good	RNGB	FRI
07157	04/10 [627/00] Out 0718z S7 OPM	Mala	EDI
07152	04/10[057/00] Out $0718237$ + QKM	Naic Naic	TKI
0/15z	08/10 [634/00]  Out  0/18z  S2+QRM (Dutch SDR)	Malc	TUE
0715z	11/10 [635/00] Good (Polish SDR)	RNGB	FRI
0715z	22/10 [630/36 75405 15701 68719 92178 36497 2994281393 97371] Good with ORM	RNGB	TUE
07157	29/10 [633/00] Out 0718z \$8	Malc	TUE
07152	2)10 [033/00] Out 0/102/00	Wale	TOL
17410111 0745	04/00 5242/40 004/00 04120 02002 21540 20050 51592 42070 224521 334 1	DNCD	WED
1/410kHz 0/45z	04/09 [343/40 89469 04128 96893 61540 20858 5158243978 26453] Weak	RNGB	WED
0745z	13/09 [349/00] Out 0748z S4	Malc	FRI
0745z	20/09 [344/00] Fair	RNGB	FRI
07457	25/09 [349/00] Out 0748z S2 (Dutch SDR)	Male	WED
07452	04/10 [247/00] G 1	DNCD	
0/45Z	04/10 [342/00] Good	RNGB	FKI
0745z	02/10 [346/00] Out 0748z S7	Malc	WED
0745z	04/10 [342/00] Out 0748z S3+QRM	Malc	FRI
07457	09/10 [3/1/00] Weak	RNGB	WED
07452	22/10 [24/00] C = 1	DNCD	WED
0/452	25/10 [340/00] O000		WED
0745z	25/10 [346/00] Fair	RNGB	FRI
0745z	30/10 [343/00] Out 0748z S4	Malc	WED
18168kHz 0845z	03/09 [157/00] Out 0848z S5	Malc	TUE
00/57	05/09 [155/00] Out 08/8z S9	Malc	TUIT
0045Z	05/07 [155/00] Out 00402 57 10/00 [152/00] Out 00402 64 (D + 1 0DD)		
0845z	10/09 [152/00] Out 0848z S4 (Dutch SDR)	Malc	TUE
0845z	12/09 [154/00] Out 0848z S5	Malc	THU
0845z	17/09 [154/00] Out 0848z S3 (Finnish SDR)	Malc	TUE
08/157	19/09 [154/00] Out 08/8z \$2	Male	THU
00452	2/101 = 100 = 001 = 0001 = 0001 = 001 = 001 = 001 = 001 = 001 = 001 = 001 = 001 =	Mala	
U845Z	24/09 [150/27 50776	wate	IUE
0845z	01/10 [151/00] Out 0848z S3	Malc	TUE
0845z	03/10 [154/00] Out 0848z S7	Malc	THU
08457	08/10 [15?/?? 80510	Malc	TUF
0045-	20/10 [15//00] Good	PNCB	TUE
0845Z	29/10 [154/00] COOU 21/10 [152/00] Cool		TUE
0845z	31/10 [152/00] Good	RNGB	THU
19184kHz 0820z	04/09 [138/38 9527709067] Out 0831z S9	Malc	WED
0020L	11/00 [132/00] Out 08237 \$4	Male	WED
08202	17/07 [132/00] Out 00232 34		WED
0820z	17/09 [132/00] Out 0823z S2 (Finnish SDR)	Malc	TUE
0820z	24/09 [136/00] Out 0823z S2	Malc	TUE
08207	25/09 [136/00] Fair	RNGB	WED
00202	01/10 [135/00] Fair	PNCB	
08202	01/10 [155/00] Fall		TUE
0820z	01/10 [135/00] Out 0823z S4	Malc	TUE
0820z	02/10 [133/00] Out 0823z S7	Malc	WED
08207	09/10 [132/00] Fair	RNGB	WED
00202		DNCD	
U820Z	22/10 [132/30 00320 70/40 33040 135/0 83415 00745 280/0 4082221084 43131] GOOd	NINOD	IUE

0820z	29/10 [131/00] Out 0823z S7	Malc	TUE
0820z	30/10 [130/00] Good	RNGB	WED
19515kHz 0715z	02/09 [753/00] Weak	RNGB. Malc	MON
0715z	04/09 [752/00] Fair	RNGB	WED
0715z	09/09 [753/35 74337	Malc	MON
0715z	16/09 [751/00] Out 0718z S2 (Dutch SDR)	Malc	MON
0715z	18/09 [757/00] Out 0718z S2 (Dutch SDR)	Malc	WED
0715z	23/09 [750/00] Out 0718z S2	Malc	MON
0715z	25/09 [757/00] Out 0718z S3 (Finnish SDR)	Malc	WED
0715z	30/09 [753/00] Out 0718z S3	Malc	MON
0715z	02/10 [759/00] Fair	RNGB, Malc	WED
0715z	07/10 [752/30 03384	Malc	MON
0715z	23/10 [754/00] Fair	RNGB	WED
0600z	28/10 [940/30 8660696495] Out 0610z S5 (Finnish SDR)	Malc	MON
0715z	28/10 [752/00] Out 0718z S5	Malc	MON
0715z	30/10 [759/00] Out 0718z S2	Malc	WED
20170kHz 0830z	02/09 [184/00] Out 0833z \$2	Malc	MON
0830z	06/09 [184/00] Out 0833z S4	Malc	FRI
0830z	09/09 [185/27 16027 59928 43428 68401 67255 87189 0306592794 23373 15283] Fair	RNGB. Malc	MON
0830z	16/09 [188/00] Out 0833z S2 (Dutch SDR)	Malc	MON
0830z	20/09 [188/00] Out 0833z S2 (Finnish SDR)	Malc	FRI
0830z	23/09 [181/00] Out 0833z S7	Malc	MON
0830z	30/09 [185/00] Out 0833z S5 (Finnish SDR)	Malc	MON
0830z	07/10 [188/00] Good	RNGB, HfD	MON
0830z	21/10 [189/28 37905 78966 65636 30472 24322 78248 5077575915 63068 37014] Fair	RNGB	MON
0830z	28/10 [188/00] Good	RNGB	MON

Peter sends ome of the stronger examples over the last two months from this very active number station. As usual the vast majority are of the "oblique zero zero" - "no message" format lasting just over three minutes.

5737 kHz 2000 UTC 1-Sept-24, Sun:- "520/00" 5-Sept-24, Thu:- "521/00" 15-Sept-24, Sun:- "521/00" 19-Sept-24, Thu:- "521/00" 29-Sept-24, Sun:- "521/32", message, "Out" at 2009:44s UTC. 3-Oct-24, Thu:- "524/00" 6-Oct-24, Sun:- "521/00" 10-Oct-24, Thu:- "528/00" 13-Oct-24, Sun:- "521/00" 17-Oct-24, Thu:- "520/00" 20-Oct-24, Sun:- "524/00" 24-Oct-24, Thu:- "520/37", message, "Out" at 2010:40s UTC.

#### 7317 kHz 1900 UTC

2-Sept-24, Mon:- "641/00"
5-Sept-24, Thu:- "648/00"
9-Sept-24, Mon:- "649/40", message, "Out" at 1911:22s UTC.
12-Sept-24, Thu:- "649/40" again.
19-Sept-24, Thu:- "643/00"
26-Sept-24, Thu:- "641/00"
3-Oct-24, Thu:- "644/00"
7-Oct-24, Mon:- "641/36", message, "Out" at 1910:38s UTC.
10-Oct-24, Thu:- "641/36" again.
14-Oct-24, Mon:- "649/00"
17-Oct-24, Thu:- "640/00"
24-Oct-24, Thu:- "649/00"

#### 8180 kHz 0700 UTC

3-Sept-24, Tue:- "579/00" 6-Sept-24, Fri:- "575/00" 10-Sept-24, Tu:- "570/00" 10-Sept-24, Tu:- "570/00" 17-Sept-24, Tu:- "575/00" 20-Sept-24, Fri:- "575/00" 27-Sept-24, Fri:- "570/38", message, "Out" at 0710:48s UTC. 1-Oct-24, Tue:- "576/00" 8-Oct-24, Tue:- "570/00" 15-Oct-24, Tue:- "579/39", message, "Out" at 0710:56s UTC. 18-Oct-24, Fri:- "579/39" again. 22-Oct-24, Tue:- "575/00" 25-Oct-24, Fri:- "577/00"

#### 8530 kHz 1910 UTC

1-Sept-24, Sun:- "616/00" 6-Sept-24, Fri:- "616/37", message, "Out" at 1920:49s UTC. 8-Sept-24, Sun:- "616/37" again. 13-Sept-24, Fri:- "617/00" 22-Sept-24, Sun:- "610/00" 27-Sept-24, Fri:- "617/00" 29-Sept-24, Sun:- "610/00"

4-Oct-24, Fri:- "617/00" 6-Oct-24, Sun:- "613/00" 11-Oct-24, Fri:- Very weak signal, unreadable. 13-Oct-24, Sun:- "617/00", strong signal this evening. 20-Oct-24, Sun:- "618/00" 25-Oct-24, Fri:- "616/35", message, "Out" at 1920:11s UTC.

#### 12202 kHz 0845 UTC

2-Sept-24, Mon:- "710/00" 4-Sept-24, Wed:- "711/00" 11-Sept-24, Wed:- "716/36", message, "Out" at 0855:20s UTC. 16-Sept-24, Mon:- "713/00" 18-Sept-24, Wed:- "718/00" 2-Oct-24, Wed:- "711/00" 2-Oct-24, Mon:- "718/00" 9-Oct-24, Mon:- "718/00" 14-Oct-24, Mon:- "711/00" 16-Oct-24, Wed:- "718/00" 21-Oct-24, Mon:- "718/00" 28-Oct-24, Mon:- "718/38", message, "Out" at 0855:55s UTC.

#### 14972 kHz 1430 UTC

3-Sept-24, Tue:- "915/00"
7-Sept-24, Sat:- "911/00"
10-Sept-24, Tue:- "914/00"
14-Sept-24, Sat:- "918/00"
17-Sept-24, Tue:- Nothing readable, unusual for this one, presumably due to propagation.
21-Sept-24, Sat:- "919/00", reasonable signal today.
28-Sept-24, Sat:- "912/32", message, "Out" at 1439:42s UTC.
1-Oct-24, Tue:- "917/00"
5-Oct-24, Sat:- "910/00"
8-Oct-24, Tue:- Again, nothing readable, probably a weak signal down in the noise.
12-Oct-24, Sat:- "919/34", message, weak, became unreadable.
15-Oct-24, Tue:- "911/00"
22-Oct-24, Tue:- "910/00"
26-Oct-24, Sat:- "910/00"

#### 17410 kHz 0745 UTC

4-Sept-24, Wed:- "343/40, message, "Out" at 0756:24s UTC.
6-Sept-24, Fri:- 343/40 again.
11-Sept-24, Wed:- "346/00"
13-Sept-24, Fri:- "349/00"
2-Oct-24, Wed:- "346/00"
4-Oct-24, Fri:- "342/00", interference from strong buzz extending from about 17405 to 17417 kHz.
18-Oct-24, Fri:- "343/34", message, "Out" just before 0755 UTC.
23-Oct-24, Wed:- "340/00"
25-Oct-24, Fri:- "344/00"

#### 19184 kHz 0820 UTC

4-Sept-24, Wed:- "138/38", message, strong signal, "Out" at 0830:53s UTC. 11-Sept-24, Wed:- "132/00" 1-Oct-24, Tue:- "135/00" 2-Oct-24, Wed:- "132/38", message, "Out" at 0830:45s UTC. 23-Oct-24, Wed:- "132/38" again.

## <u>S06</u>

RNGB's intercepts:

Friday 1st 06/09 20/09	<b>&amp; 3rd</b> '842' 00000 '842' 00000	1900z	9925khz	2000z	7505kHz
04/10	·842' 00000	2000z	9925kHz	2100z	7505kHz

PoSW finds:

#### First + Third Fridays in the Month Schedule:-

As expected, based on observations in past years, in September uses similar frequencies to those logged in March and April. 6-Sept-24:- 1900 UTC, 9925 kHz, "843 843 843 00000", strong enough to be heard above local RF noise interference. 2000 UTC, 7505 kHz, good signal.

20-Sept-24:- 1900 UTC, 9925 kHz, "842 842 842 00000". Missed the second sending at 2000 UTC.

As expected, advanced by one hour in October:-4-Oct-24:- 2000 UTC, "842 842 842 00000", over-riding local interference. 2100 UTC, 7505 kHz, good signal.

18-Oct-24:- 2100 UTC, 7505 kHz - missed the first sending at 2000 - "842 842 842 00000", good signal.

## S11a log Sept/Oct

04558112	118 3117	01/09/1379/001 Good	RNGB	ST IN
	0830z	07/09 [378/00] Weak	RNGB	SAT
	08302	0//0 [270/00] Cood	DNCD	SUN
	08302	06/09 [570/00] G00d	M-1-	SUN
	08502	14/09 [5/5/39 02209	Mal	SAT
	0830z	21/09 [3/1/00] Konyetz 08332 S2	Malc	SAI
	0830z	22/09 [3/6/00] Konyetz 08332 S/	Malc	SUN
	0830z	29/09 [376/00] Konyetz 0833z S5	Malc	SUN
	0830z	05/10 [379/00] Fair	RNGB	SAT
	0830z	06/10 [370/00] Konyetz 0833z S2	Malc	SUN
6480khz	0915z	02/09 [486/00] Weak	RNGB	MON
	0915z	06/09 [486/00] Konyetz 0918z S3 (Dutch SDR)	Malc	FRI
	0915z	09/09 [481/00] Konyetz 0918z S2 (Dutch SDR)	Malc	MON
	0915z	13/09 [480/00] Konvetz 0918z S9 (Finnish SDR)	Malc	FRI
	0915z	16/09 [485/00] Konvetz 0918z S3 (Dutch SDR)	Malc	MON
	0915z	20/09 [483/00] Konvetz 0918z S7 (Finnish SDR)	Malc	FRI
	0915z	23/09 [486/36 2292] 31187] Konvetz 0918z S7 (Finnish SDR)	Malc	MON
	0915z	30/09 [483/00] Konvetz 0918z S5 (Finnish SDR)	Malc	MON
	09152	07/10 [484/00] Konvetz 0918z S2 (Dutch SDR)	Male HfD	MON
	09152	25/10 [482/00] Fair	RNGB	FRI
	0915z	28/10 [487/00] Konvetz 0918z S3 (Dutch SDR)	Malc	MON
8597kHz	0700z	02/09 [479/00] Konyetz 0703z S2	Malc	MON
	0700z	05/09 [472/00] Strong	RNGB	THU
	0700z	09/09 [475/00] Konyetz 0703z S3	Malc	MON
	0700z	12/09 [472/00] Strong	RNGB, Malc	THU
	0700z	16/09 [472/00] Konyetz 0703z S5	Malc	MON
	0700z	19/09 [472/00] Konyetz 0703z S2	Malc	THU
	0700z	23/09 [477/40 84768 89289 41041 65368 91807 60618 9676112096 30158] Konyetz 0713z	RNGB, Malc	MON
	0700z	30/09 [470/00] Konyetz 0703z S4	Malc	MON
	0700z	03/09 [478/00] Good	RNGB	THU
	0700z	03/10 [478/00] Konyetz 0703z S3	Malc	THU
	0700z	07/10 [475/00] Konyetz 0703z S3	Malc, HfD	MON
	0700z	10/03 [477/00] Good	RNGB	THU
	0700z	28/10 [471/00] Konvetz 0703z S4	Malc	MON
	07007	21/10 1477/001 Konveta 0702a 85		
	07002	51/10 [477/00] Konyetz 07052 35	Malc	THU
10213kHz	1850z	04/09 [280/00] Konvetz 1853z S9	Malc	WED
10213kHz	1850z	04/09 [280/00] Konyetz 1853z S9 07/00 [287/00] Konyetz 1853z S9	Malc Malc	WED SAT
10213kHz	1850z 1850z 1850z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/00 [288/00] Konyetz 1853z S9	Malc Malc Malc	WED SAT WED
10213kHz	1850z 1850z 1850z 1850z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/09 [288/00] Konyetz 1853z S9	Malc Malc Malc Malc	WED SAT WED
10213kHz	1850z 1850z 1850z 1850z 1850z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/09 [288/00] Konyetz 1853z S9 14/09 [284/00] Konyetz 1853z S9 14/09 [284/00] Konyetz 1853z S9	Malc Malc Malc Malc Malc Malc	WED SAT WED SAT
10213kHz	1850z 1850z 1850z 1850z 1850z 1850z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/09 [288/00] Konyetz 1853z S9 14/09 [284/00] Konyetz 1853z S9 18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED
10213kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/09 [288/00] Konyetz 1853z S9 14/09 [284/00] Konyetz 1853z S9 18/09 [281/33 5770193228] Konyetz 1901z S9 25/09 [282/00] Konyetz 1853z S9	Malc Malc Malc Malc Malc Malc Malc, Gary H	WED SAT WED SAT WED WED
10213kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/09 [288/00] Konyetz 1853z S9 14/09 [284/00] Konyetz 1853z S9 18/09 [281/33 5770193228] Konyetz 1901z S9 25/09 [282/00] Konyetz 1853z S9 02/10 [284/35 5693713036] Konyetz 1902z	Malc Malc Malc Malc Malc Malc, Gary H Malc	WED SAT WED SAT WED WED WED
10213kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/09 [288/00] Konyetz 1853z S9 14/09 [284/00] Konyetz 1853z S9 18/09 [281/33 5770193228] Konyetz 1901z S9 25/09 [282/00] Konyetz 1853z S9 02/10 [284/35 5693713036] Konyetz 1902z 30/10 [281/00] Konyetz 1853z S9	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc	WED SAT WED SAT WED WED WED
10213kHz 10728kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z	31/10 [477/00] Konyetz 07032 S3         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc	WED SAT WED SAT WED WED WED TUE
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc HfD Malc	WED SAT WED SAT WED WED WED TUE
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc HfD Malc Malc	WED SAT WED SAT WED WED WED TUE TUE
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z	31/10 [477/00] Konyetz 10/32 S3         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1400z 1400z 1400z	31/10 [477/00] Konyetz 10/32 S3         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE FRI TUE FRI
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         10/09 [422/00] Konyetz 1403z S4         10/09 [424/37 7887386704] Konyetz 1412z S6         17/09 [427/00] Konyetz 1403z S5         20/09 [424/00] Konyetz 1403z S5         20/09 [424/00] Konyetz 1403z S5	Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4         10/09 [424/37 7887386704] Konyetz 1412z S6         17/09 [427/00] Konyetz 1403z S5         20/09 [424/00] Konyetz 1403z S5         20/09 [424/00] Konyetz 1403z S5         20/09 [424/00] Konyetz 1403z S5         20/09 [427/00] Konyetz 1403z S6         01/10 [427/00] Konyetz 1403z S6         01/10 [427/00] Konyetz 1403z S6	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc HfD Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4         10/09 [424/37 7887386704] Konyetz 1412z S6         17/09 [427/00] Konyetz 1403z S5         24/09 [427/00] Konyetz 1403z S5	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z 1400z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         01/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4         10/09 [424/37 78873	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1400z 1400z 1400z 1400z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4         10/09 [424/37 78873	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE
10213kHz 10728kHz 11420kHz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 1400z 1400z 1400z 1400z 1400z 1400z 1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         01/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4         10/09 [424/37 7887386704] Konyetz 1412z S6         17/09 [427/00] Konyetz 1403z S5         24/09 [427/00] Konyetz 1403z S5         24/09 [427/00] Konyetz 1403z S5         24/09 [427/00] Konyetz 1403z S5         29/10 [422/00] Konyetz 1403z S5         29/10 [422/00] Konyetz 1403z S5         29/10 [422/00] Konyetz 1403z S5	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE TUE
10213kHz 10728kHz 11420kHz 21854khz	1850z         0445z         1400z	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         11/09 [287/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 56937	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE WED
10213kHz 10728kHz 11420kHz 21854khz	1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 1850z 0445z 1400z 14	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         11/09 [287/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/35 56937	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc HfD Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE
10213kHz 10728kHz 11420kHz 21854khz	1850z         1400z         140z     <	31/10 [477/00] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         11/09 [287/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc HfD Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE
10213kHz 10728kHz 11420kHz 21854khz	1850z         1400z         140z         140z </td <td>31/10 [47//00] Konyetz 0/032 S3         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701</td> <td>Malc Malc Malc Malc Malc Malc, Gary H Malc Malc HfD Malc Malc Malc Malc Malc Malc Malc Malc</td> <td>WED SAT WED SAT WED WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED</td>	31/10 [47//00] Konyetz 0/032 S3         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc HfD Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED
10213kHz 10728kHz 11420kHz 21854khz	1850z         1400z         0725z	31/10 [47//00] Konyetz 0/032 S3         04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc, Gary H Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED FRI
10213kHz 10728kHz 11420kHz 21854khz	1850z         0445z         1400z	31/10 [47/700] Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         11/09 [287/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/20] Konyetz 1853z S9         02/10 [284/35 56937	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED FRI WED
10213kHz 10728kHz 11420kHz 21854khz	1850z         0445z         1400z         0725z	31/10 [47/700] Konyetz 1853z S3         04/09 [280/00] Konyetz 1853z S9         11/09 [287/00] Konyetz 1853z S9         11/09 [287/00] Konyetz 1853z S9         18/09 [281/03] Konyetz 1853z S9         02/10 [284/35 56937	Malc Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED WED
10213kHz 10728kHz 11420kHz 21854khz	1850z           1400z           0725z           0725z </td <td>04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701</td> <td>Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc</td> <td>WED SAT WED SAT WED WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED FRI WED FRI WED</td>	04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 57701	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED FRI WED FRI WED
10213kHz 10728kHz 11420kHz 21854khz	1850z         1400z         0725z	04/09 [280/00] Konyetz 1853z S9         07/09 [287/00] Konyetz 1853z S9         11/09 [288/00] Konyetz 1853z S9         14/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [281/00] Konyetz 1853z S9         02/10 [284/35 5693713036] Konyetz 1902z         30/10 [281/00] Konyetz 1853z S9         08/10 [790/00]         03/09 [422/00] Konyetz 1403z S4         10/09 [422/00] Konyetz 1403z S4         10/09 [422/00] Konyetz 1403z S5         24/09 [427/00] Konyetz 1403z S5         29/10 [422/00] Konyetz 143z S5         04/09 [387/00] Weak         06/09 [382/00] very weak         11/09 [381/31 15237	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED FRI WED FRI WED FRI FRI
10213kHz 10728kHz 11420kHz 21854khz	1850z         1400z         0725z	04/09 [280/00] Konyetz 1853z S9 07/09 [287/00] Konyetz 1853z S9 11/09 [288/00] Konyetz 1853z S9 14/09 [284/00] Konyetz 1853z S9 18/09 [281/33 5770193228] Konyetz 1901z S9 25/09 [282/00] Konyetz 1853z S9 02/10 [284/35 5693713036] Konyetz 1902z 30/10 [281/00] Konyetz 1853z S9 08/10 [790/00] 03/09 [422/00] Konyetz 1403z S4 06/09 [422/00] Konyetz 1403z S4 10/09 [422/00] Konyetz 1403z S4 10/09 [422/00] Konyetz 1403z S4 10/09 [422/00] Konyetz 1403z S4 10/09 [422/00] Konyetz 1403z S5 24/09 [427/00] Konyetz 1403z S5 10/10 [422/00] Konyetz 1403z S5 29/10 [422/00] Konyetz 1403z S5 04/09 [387/00] Weak 06/09 [382/00] Very Weak 11/09 [381/31 1523728675] Konyetz 0735z S4 (Finnish SDR) 18/09 [382/00] Konyetz 0728z S4 (Finnish SDR) 25/09 [389/00] Konyetz 0728z S4 (Finnish	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED FRI WED FRI WED FRI WED
10213kHz 10728kHz 11420kHz 21854khz	1850z         0445z         1400z         1400z         1400z         1400z         1400z         1400z         1400z         0725z	31/10 (477/00) Konyetz 1853z S9         04/09 [280/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         11/09 [284/00] Konyetz 1853z S9         18/09 [281/33 5770193228] Konyetz 1901z S9         25/09 [282/00] Konyetz 1853z S9         02/10 [284/00] Konyetz 1853z S9         02/10 [284/00] Konyetz 1853z S9         02/10 [284/00] Konyetz 1853z S9         02/10 [281/00] Konyetz 1853z S9         02/10 [281/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4         06/09 [422/00] Konyetz 1403z S4         00/09 [424/00] Konyetz 1403z S5         20/09 [424/00] Konyetz 1403z S5         20/09 [424/00] Konyetz 1403z S5         00/10 [422/00] Konyetz 1403z S5         00/10 [422/00] Konyetz 1403z S5         09/10 [422/00] Konyetz 1403z S2         29/10 [422/00] Konyetz 1433z S5         04/09 [387/00] Weak         06/09 [382/00] Very weak         11/09 [381/31 15237	Malc Malc Malc Malc Malc Malc, Gary H Malc Malc Malc Malc Malc Malc Malc Malc	WED SAT WED SAT WED WED WED WED TUE FRI TUE FRI TUE FRI TUE FRI TUE FRI WED FRI WED FRI WED FRI WED FRI WED FRI WED FRI WED FRI WED FRI WED FRI

## <u>V07</u>

Sunday

September 2024

0200z	17431kHz	Z	0220z	16131kHz	0240z	14431kHz		
17431kH	z0200z	01/09 NR	Н				DanAR	SUN
17431kH	z0200z	08/09 414	1 498 101	70736 49243	000 000		DanAR	SUN
414 414	414 1							
498 101	056 76266 0	03515 0208	20					
56324 94	488 57279 5	51882 9860	)1					
40707 01	887 13871 (	06594 2483	1					
53094 19	865 71085 8	35232 3369	2					
16191 73	083 02799 9	92580 7075	i8					
20331 20.	275 08089 7 096 97340 1	/9680 2240 16776 2353	15					
70056 36	296 12916 2	26884 1861	2					
68136 45	974 29928 5	50250 6298	34					
59802 78	994 10864 8 702 54570 7	34369 2800	)8 20					
00760 41	792 34370 7 798 33637 8	3651 6800	9 10					
89025 57	515 07474 4	46999 7930	)3					
90044 00	927 90249 3	36091 6550	)5					
59346 77	077 33471 8	39799 8669 17556 8707	)1 /0					
01981 11	387 38692 5	51709 1676	9					
23536 15	879 52158 8	31302 4671	9					
46137 32	239 29994 7	75799 1542	27					
12008 49	907 40815 1 0 000 <i>Cour</i>	16879 0341 tasy Dan Al	.0 D					
49243 00	0 000 Cour	iesy DanAi	A.					
17431kHz	z0200z	15/09 414	1 1028 82	34306 67409	000 000	Weak QSB2	DanAR	SUN
414 414	414 1							
1028 82	001 00700 2	105 5 1576	6					
99713 45	567 87928 3	33725 7784	0 17					
69917 87	201 24094 2	21263 5574	9					
58491 18	23 14967 6	8779 1532	24					
65704 23	38 2 947 2							
74500 40	024 20882 4	7400 000	000					
74320 42	034 29882 Col	urtesy Dan	AR					
174211-11	-0200-	22/00/414	1 207 115	04094 70152	000 000	West	DonAD	SUN
1/451KH	202002	22/09 414	1 527 115	94904 79132	000 000	WEak	DallAK	SUN
414 414 327 115	414 1							
94984 51	524 55198 3	33153 7559	95					
45141 92	873 84204 5	59321 0146	50					
78099 35	717 67326 9	99220 6108	35					
22287 07	207 49070 8 492 78070 8	32606 4082	2					
72831 76	149 62784 6	53749 3635	i6					
34802 00	350 71003 4	42391 8639	9					
90199 16	673 89043 2 063 60256 2	21038 4946	6 12					
52797 99	903 00230 3 924 21235 2	28934 0157	20					
30828 65	760 55392 1	15264 6859	00					
81031 67	445 66562 1	6034 5788	36					
098/638	488 95048 ( 463 14098 5	56896 1415 56869 4509	15 11					
02873 10	821 26033 8	33722 7713	0					
88445 64	310 62756 3	34408 5820	)4					
47557 06	758 38422 6	53509 6925	50					
59147 84 42104 18	/99 41123 7 944 97087 /	//161/3159 11425 4510	19 15					
36388 67	273 48237 (	)7390 8976	51					
18083 60	105 79569 7	73531 2100	00					
14037 37	155 75789 1	0488 0557	9					
10596 474	438 41906 I Cour	19655 7915 tesy DanAi	r∠ R					
	2041							

#### October 2024

0200z	18217kHz	0220z 16317kHz	0240z	15817kH	Z		
06/10	233	8 1 4034 123 00905 80418 000 000	18217kHz	only	Weak	DanAR	SUN
238 238 4034 12 00905 73 58751 10 08907 84 62566 04 16345 69 62359 95 89786 12 87997 73 15215 82 09910 01 34514 00 95009 31 50121 42 21542 02 37916 06 96420 04 61485 22 61981 06 13829 43 40454 47 38252 65 44289 71 47425 64 34973 59 18601 86 <i>Courtesy</i>	238 1 3 3930 60376 6799 9934 80661 9456 1934 75828 7456 4355 48904 0134 9955 15413 0675 5981 31830 0862 2239 16007 6131 3493 88795 8974 2388 39770 6620 1326 78321 8725 0536 95967 9886 1090 93417 6588 2388 78240 4644 2701 59606 5684 5278 37815 1190 4211 70906 8309 2097 45995 3715 5111 17480 4144 8015 38213 7500 7849 01796 1071 5362 64054 4191 1973 01660 8476 4483 72148 1705 9939 12287 4985 5285 80418 000 6 9 DanAR	$\begin{array}{c} 0 \ 26790 \\ 0 \ 97723 \\ 792485 \\ 0 \ 41906 \\ 4 \ 78044 \\ 2 \ 44049 \\ 6 \ 80305 \\ 5 \ 23613 \\ 7 \ 00264 \\ 4 \ 14203 \\ 0 \ 06218 \\ 4 \ 23613 \\ 9 \ 73470 \\ 4 \ 21487 \\ 5 \ 12638 \\ 2 \ 17075 \\ 8 \ 38731 \\ 0 \ 36523 \\ 15 \ 09600 \\ 8 \ 06630 \\ 6 \ 86598 \\ 13 \ 66109 \\ 4 \ 73448 \\ 2 \ 08821 \\ 000 \end{array}$					
13/10	23	8 1 1859 125 04137 29150 000 000	18217kHz	only	Weak	DanAR	SUN
238 238 1589 12 04137 77 59912 34 86775 25 50194 30 17342 52 96416 19 45281 78 21049 95 73074 23 52215 48 79574 02 78503 37 06205 64 12267 73 29905 37 79303 05 47899 83 37719 16 67381 10 35689 81 90313 45 73116 95 83833 82 99593 08 26570 81 000 000	238 1 5 7716 48693 9822 4150 81532 4356 5148 30117 7150 5062 43829 7373 2120 77899 6944 2022 69173 6743 3510 49076 4866 5552 72024 6790 3750 30153 3842 3419 41585 5381 2236 85539 4766 7124 59743 8505 4865 45206 3236 3098 81020 6712 7247 58839 7247 5415 04461 3613 3116 46325 0252 5275 67935 8569 0450 57591 5936 1085 00230 5621 5027 11335 0836 5738 97809 5769 2460 35853 5521 3655 72975 8758 1649 06056 6897 <i>Courtesy Dan</i>	$\begin{array}{c} 112210\\ 0&67938\\ 3&93907\\ 0&88240\\ 6&97316\\ 3&14475\\ 0&89047\\ 1&79771\\ 9&77477\\ 1&94665\\ 2&94283\\ 3&43671\\ 1&28375\\ 9&04478\\ 9&904478\\ 9&96758\\ 7&87252\\ 9&977093\\ 6&94232\\ 2&06967\\ 4&50034\\ 7&62732\\ 8&44868\\ 3&73238\\ 3&98413\\ 3&29150\\ AR\end{array}$					
20/10 238 238 3030 59 77776 78 47515 80 10880 46 85167 50 35114 60 23846 80 95494 02 59069 42 81587 76 12577 83 80438 04	238 238 3095 46559 9877 0065 95583 1876 5522 60252 8764 0462 82111 5497 0697 36961 1364 0113 27619 5906 2614 29147 3630 2614 29147 3630 2614 29147 3630 2614 29147 3630 2614 29147 3630 2619 29260 374 04692 9360 4519 14091 2213	8 1 3030 59 77776 34459 000 000 5 82907 5 8293 1 15877 4 99512 6 38156 6 31848 16 52212 9 58182 9 90813 17 89241 18 32983	18217kHz	: only	Weak	DanAR	SUN

08352 32508 50185 34459 000 000 Courtesy DanAR

27/10	238 1 4896 87 23702 38028 000 000	18217kHz only	Weak	DanAR	SUN
238 238 238 12					
4896 87					
23702 34470 461	29 05244 32906				
82687 56765 984	33 44258 94858				
77057 46967 628	397 61790 45827				
25519 88859 987	69 66847 29534				
72334 24073 746	540 23442 34988				
15202 76563 434	79 36499 88951				
14053 54149 195	61 86474 48772				
62113 63470 867	08 69327 07956				
96428 91324 359	018 91969 13901				
69073 22305 118	321 13094 85116				
73861 88533 756	573 33837 03468				
41484 11581 629	030 60296 86011				
27011 05088 008	34 17600 37363				
59651 95297 670	018 19268 02946				

V13

49375 38028 000 000 Courtesy DanAR

#### Please read new definitions in Editorial

31208 79142 46569 24299 85862 67939 02346 85539 30471 30360 08133 31198 52380 14372 95684

Ary writes:

An odd one that I copied yesterday. All messages are identical, and there were two copies of the message for each unit. Group counts were stated as 114 in the call up, almost certainly referring to both copies of the message added together.

1397415-10-20241200V13USBNew Star Broadcasting. Station 3. Messages to units3495 and67591494415-10-20241200V13USBNew Star Broadcasting. Station 3. Messages to units3495 and6759

Unit IDs: 3495 and 6759 Group Counts: 57, 57, 57, 57

4697 0772 0457 9151 7363 2253 6728 1071 1106 0814 6170 3639 7613 1549 3615 0689 2376 7754 6439 6839 1606 4954 3911 1353 3219 3681 9312 0927 7050 8388 9265 1684 2956 4009 9212 2622 5310 2378 0891 5464 5242 5249 1033 7780 1180 1323 3298 2313 6745 2643 5992 4460 2169 8289 9809 9134 1590

4697 0772 0457 9151 7363 2253 6728 1071 1106 0814 6170 3639 7613 1549 3615 0689 2376 7754 6439 6839 1606 4954 3911 1353 3219 3681 9312 0927 7050 8388 9265 1684 2956 4009 9212 2622 5310 2378 0891 5464 5242 5249 1033 7780 1180 1323 3298 2313 6745 2643 5992 4460 2169 8289 9809 9134 1590

4697 0772 0457 9151 7363 2253 6728 1071 1106 0814 6170 3639 7613 1549 3615 0689 2376 7754 6439 6839 1606 4954 3911 1353 3219 3681 9312 0927 7050 8388 9265 1684 2956 4009 9212 2622 5310 2378 0891 5464 5242 5249 1033 7780 1180 1323 3298 2313 6745 2643 5992 4460 2169 8289 9809 9134 1590

4697 0772 0457 9151 7363 2253 6728 1071 1106 0814 6170 3639 7613 1549 3615 0689 2376 7754 6439 6839 1606 4954 3911 1353 3219 3681 9312 0927 7050 8388 9265 1684 2956 4009 9212 2622 5310 2378 0891 5464 5242 5249 1033 7780 1180 1323 3298 2313 6745 2643 5992 4460 2169 8289 9809 9134 1590

Thanks Ary!



No Reports

## **Polytones**

## XPA1 Wed/Fri

#### Wednesday/Friday

#### September 2024

1210z	12137kH	z 1230z	11137kHz	1250z	10237kHz	
04/09		112 000 nnnnn 00001	00000 3565n			1210z Weak QSB4
06/09		112 000 02159 00001	00000 36257			1210z Fair, rest Unworkable
11/09		112 000 06562 00001	00000 34664			1210z Weak, rest Unworkable
13/09		Null Message.				1210z Unworkable, rest NRH Poor condx
18/09		112 000 05298 00001	00000 36266			1250z Unworkable, rest Weak
20/09		Not monitored, Lightr	ning			
25/09		112 000 04754 00001	00000 36662			Weak, 1230z Unworkable
27/09		112 000 05136 00001	00000 34660			Weak, QSB3
October	2024					
1210z	14564kHz	z 1230z	13564kHz	1250z	11464kHz	
02/10		554 1 00615 00081 31	517 70657			Weak
554 554 554	1 554 544 554	1 554 554 554 1				
00615 00081 63656 16588 53293 04570 79491 75811 84792 64537 70085 81007 87134 61856	1 31517 36301 8 3 91675 14718 3 0 90075 06854 2 1 89804 56039 9 7 16776 43933 9 7 17162 52963 2 5 44576 96181	9639 13294 55931 30682 706 6489 30773 61656 84021 015 0326 83038 75037 81557 838 2846 28465 28584 56683 988 7639 42398 91029 01808 181 0261 72496 62038 48566 455	43 89561 91 41447 59 61846 11 46483 88 71107 70 96906			
95392 05344 70839 60563	4 67989 12099 9 3 02052 29503 5	8025 25087 10219 46766 492: 2592 92351 54870 28939 730: Courte:	59 58197 31 70657 sy PLdn			
04/10		554 1 00615 00081 31	517 70657			Weak
09/10		554 1 00615 00081 31	517 70657			1250z Weak, rest Fair
11/10		NOT MONITORED				
16/10		554 1 00615 00081 31	517 70657			1250z Unworkable, rest Weak 1210z QSB4 on last group
18/10		554 1 00615 00081 31	517 70657			1250z Weak, rest Fair
23/10		554 000 08508 00001	00000 37660			1250z Weak, rest Fair
25/10		554 000 4421 00001 0	00000 33656			1250z Weak, rest Strong
30/10		554 000 09175 00001	00000 34270			1250z Unworkable, rest Weak

## XPA2 p Mon/Wed

#### Monday/Wednesday

September 2024

0700z	12152kHz	0720z	13552kHz	0740z	13952kHz	I
02/09		08002 00001 00000 .	32260			Fair
04/09		06402 00001 00000 .	34256			0700z Fair, rest Weak
09/09		08758 00117 16814 .	55454			Weak
11/09		08758 00117 16814 .	55454			Weak QSB3/4
16/09		08758 00117 16814 .	55454			0740z Unworkable, rest Weak

18/09	08758 00117 16814 55454	0700z Strong, rest Fair
23/09	08758 00117 16814 55454	Strong
25/09	08758 00117 16814 55454	Weak, 0700z QSB3
Here COSS		
30/09	02012 00001 00000 32253	Strong [As above]
0700z	13372kHz 0720z 14762kHz	0740z 15872kHz
02/10	07928 00001 00000 41661	Strong
07/10	09151 00098 93917 26124	0700z Very strong, rest Strong
09151 00098 9 85593 78246 7 17784 24708 5 27012 90686 1 04747 45513 2 81052 76752 0 28519 01681 4 92310 86671 8 86633 15263 6 78292 11510 9 26124	03917 47473 59698 31648 46279 15442 56979 03654 0349 77367 07939 83099 94769 15480 68344 88741 0091 68139 93739 29746 35379 39292 52155 92446 18873 09921 08605 27119 85060 24035 55042 66858 18873 09921 08605 27119 85060 24035 55042 66858 18873 943625 25985 07116 67419 72096 61394 91090 18389 87837 20399 39160 17314 10951 04107 97012 16422 13856 78026 74964 36881 15130 65716 79548 10250 23704 71117 22933 02069 18533 80330 71761 13338 73817 45299 50140 20362 38789 94727 36752 14197 49143 30729 44844 92036 49701 25728 09334 Courtesy PLdn	
09/10	09151 00098 93917 26124	Strong
14/10	09151 00098 93917 26124	Very strong
16/10	09151 00098 93917 26124	Strong
21/10	05874 00001 00000 37264	0700z Weak, rest Strong. QRM2 0700/0740z
23/10	09690 00001 00000 34272	Very strong
28/10	08800 00128 14848 43741	Strong, 0720/0740z QRM2
08800 00128 1 85043 16248 1 99268 27682 0 83436 08099 4 22500 51057 9 35152 51150 4 13128 00707 9 26323 33816 0 49087 86886 7 29545 50052 9 29545 50052 9 29545 50052 9 217116 86026 6 92377 57202 6 43741	4848 54960 27774 71028 09348 30700 17356 52651 2405 72290 64156 97029 73388 22224 46445 69623 4939 88524 75198 34960 31610 68948 70951 89575 16520 98237 33248 27553 33089 62036 73126 27187 7739 15459 72942 71010 10125 29578 09535 73746 15031 50337 23979 40632 43434 78252 61475 14956 96656 60887 63342 05513 54156 30370 60330 42411 16037 45450 64721 83593 40253 85283 05430 59792 19995 55575 64411 79975 91260 62601 77130 93172 77542 31329 60811 37437 88047 98557 44849 04845 10197 62840 80733 50454 66811 98603 25307 65548 51128 65188 30350 75507 68925 39309 58861 92775 50077 69393 27099 55759 99215 17589 28975 04582 <i>Courtesy PLAn</i>	

## **XPA2 Mon/Sat**

1500z 13906kHz 1520z 12106kHz

28/10

09736 00001 00000 ... 37664

1540z 10906kHz

Fair, 1500z Missed

## XPA2 Tuesday/Friday

September 2024

13431kHz 1100z

1120z 12131kHz 1140z

11431kHz

03/09	02853 00111 39843 52674	1120z Weak QSB3, 1100z Missed, 1140z NRH
06/09	Not Monitored, Lightning	
10/09	Not Monitored, threat of lightning	
13/09	Unworkable. poor condx	
17/09	Not monitored, Lightning	
20/09	Not monitored, Lightning	
24/09	00123 00191 41142 10403	Weak, 1100/1120z QSB3
27/09	00123 00191 41142 10403	Weak

#### October 2024

1100z	14537kHz	1120z	13437kHz	1140z	10737kHz	Z
01/10	08604	00063 80734	16116			1100z Weak QSB2, rest Unworkable
04/10	08604	00063 80734	16116			1100z Weak QSB2, rest Unworkable
08/10	Not m	onitored, Light	ning			
11/10	Not M	Ionitored				
15/10	00361	00021 30905	75300			1140z Unworkable, rest Weak [See below]



14537kHz 1100z 15/10/20024 [short message]

18/10	00361 00021 30905 75300
22/10	00361 00021 30905 75300
25/10	00361 00021 30905 75300
29/10	09707 00001 00000 40261

### **Other XPA2:**

Other XPA2 [from Ary]

Weak	[See above]
Weak	
1100z Fa	air, rest Weak
1140z W	/eak QSB3, rest Fair

55034 22605 28854 00065 30883 88765 99995 64023 75526 38016 07567 61886 13608 33718 93655 08806 56688 33183 57067 39663 63722 48767 77833 78255 55732 77703 55558 88664 19318 00002 78295 44661 50331 03908 11538 00855 00870 55800 70955 32284 32224 66443 18385 50824 40001

 19604
 12-09-2024
 1310
 XPA2
 MFSK-16/20Bd

 19181
 12-09-2024
 1320
 XPA2
 MFSK-16/20Bd

 17429
 12-09-2024
 1340
 XPA2
 MFSK-16/20Bd

#### Fm dMHz:

XPA2 22-Oct-2024 1600z 13542kHz strong 00487 00150 01723..... 13154

XPA2 23-Oct-2024 0950z 14406kHz

06594 00090 82580 07203 48508 25071 57196 83008 67070 07514 58023 44124 59356 50094 91237 88458 11420 77804 20052 59716 94924 67739 41619 67296 52692 82611 23189 46522 95837 54123 70795 13826 45691 29018 03613 93917 63070 41889 95805 30188 24452 44391 17766 62467 98249 02166 49765 58805 32832 72671 33404 55012 63231 03023 11611 28914 18999 61763 22418 65485 91427 23805 36720 65700 71212 95912 63086 21561 59960 18619 97417 69517 82438 07916 11343 95015 64740 22228 78697 01087 54686 89642 11109 51179 70278 19916 61565 04376 92544 96581 80299 31374 41461 Courtesy dMHz

## F01 & F06

1A F01 Mon 07.10.2024 1015Z 11129 FSK 200/500 6:48 via KiwiSDR RUS Mon 07.10.2024 1025Z 9082 FSK 200/500 via KiwiSDR RUS Mon 07.10.2024 1035Z 7344 FSK 200/500 via KiwiSDR RUS

F06 Fm dMHz

F06 23-Oct-2024 0915z 26185kHz FSK200/1000

11166 40023 74523 23001 00049 00000 00000 00000 00000

#### From H-FD

#### 1B XPA2

Tue 03.09.2024 0500Z 10221 msg Tue 03.09.2024 0520Z 11121 msg Tue 03.09.2024 0540Z 12221 msg

Tue 03.09.2024 1100Z 13431 msg Tue 03.09.2024 1120Z 12131 msg Tue 03.09.2024 1140Z 11431 msg

Wed 04.09.2024 1800Z 16351 msg Wed 04.09.2024 1820Z 14851 msg Wed 04.09.2024 1840Z 13951 msg

Mon 09.09.2024 1500Z 14373 msg Mon 09.09.2024 1520Z 13373 msg Mon 09.09.2024 1540Z 11573 msg

Thu 12.09.2024 0910Z 15859 msg Thu 12.09.2024 0930Z 14659 msg Thu 12.09.2024 0950Z 13459 msg

Thu 12.09.2024 1100Z 16117 msg Thu 12.09.2024 1120Z 14917 msg Thu 12.09.2024 1140Z 13517 msg

Thu 19.09.2024 1600Z 13887 msg Thu 19.09.2024 1620Z 13387 msg Thu 19.09.2024 1640Z 11587 msg

#### 1B XPA2

Tue 01.10.2024 1100Z 14537 msg Tue 01.10.2024 1120Z 13437 msg Tue 01.10.2024 1140Z 10737 msg

Thu 03.10.2024 1600Z 13542 msg Thu 03.10.2024 1620Z 12142 msg Thu 03.10.2024 1640Z 11442 msg

Fri 04.10.2024 1800Z 14518 msg Fri 04.10.2024 1820Z 13418 msg Fri 04.10.2024 1840Z 12218 msg

Sat 05.10.2024 0910Z 17438 msg Sat 05.10.2024 0930Z 16338 msg Sat 05.10.2024 0950Z 15938 msg

Sat 05.10.2024 1500Z 13906 msg Sat 05.10.2024 1520Z 12106 msg Sat 05.10.2024 1540Z 10906 msg

Mon 07.10.2024 0910Z 17476 msg Mon 07.10.2024 0930Z 16149 msg Mon 07.10.2024 0950Z 14406 msg

Thu 17.10.2024 1100Z 14672 msg Thu 17.10.2024 1120Z 13472 msg Thu 17.10.2024 1140Z 12172 msg

## **XPB1 Wednesday/Saturday**

#### September 2024

13521kHz 11	00z	04/09	Weak	4m29s	PLdn	WED
13421kHz 11	107	04/09	Weak	4m29s	PI dn	WFD
100011-II- 11	20-	04/00	We ala	420-	DL	WED
12221KHZ 11	20z	04/09	weak	4m29s	PLan	WED
11521kHz 11	30z	04/09	NRH		PLdn	WED
11021kHz 11	40z	04/09	NRH		PL dn	WED
10521kHz 11	507	04/00	NDII		DI de	WED
10521KHZ 11	50Z	04/09	NKH		PLan	WED
13521kHz 11	007	07/09	Fair	4m29s	PI dn	SAT
124211-11-11	10-	07/00	Fair	4112/3	DL	CAT
13421KHZ 11	10z	07/09	Fair	4m29s	PLan	SAT
12221kHz 11	20z	07/09	Weak	4m29s	PLdn	SAT
11521kHz 11	307	07/09	Weak	4m29s	PL dn	SAT
110211-11-11	40-	07/00	NDU	111295	DL	CAT
11021KHZ 11	40Z	07/09	NKH		PLan	SAI
10521kHz 11	50z	07/09	NRH		PLdn	SAT
12521111 11	00	11/00	<b>XX</b> 7 1	4 20	DI 1	WED
13521kHz 11	00z	11/09	Weak	4m29s	PLdn	WED
13421kHz 11	10z	11/09	Weak	4m29s	PLdn	WED
12221kHz 11	20z	11/09	Weak	4m29s	PL dn	WED
115211/11/2 11	307	11/00	Week	4m29s	DI dn	WED
113218112 11	. 50Z	11/09	Weak	411278	T Luii	WED
11021kHz 11	40z	11/09	Weak	4m29s	PLdn	WED
10521kHz 11	50z	11/09	Weak	4m29s	PLdn	WED
	~~	1.1/00		4 . 20	<b></b>	a
13521kHz 11	.00z	14/09	Weak	4m29s	PLdn	SAT
13421kHz 11	10z	14/09	Weak	4m29s	PLdn	SAT
12221kH= 11	207	14/09	Weak	4m29s	PI dn	SAT
12221KHZ 11	202	14/00	NDU	411273	DI 1	CAT
11521KHZ 11	30Z	14/09	NKH		PLan	SAT
11021kHz 11	40z	14/09	Weak	4m29s	PLdn	SAT
10521kHz 11	50z	14/09	Weak	4m29s	PLdn	SAT
13521kHz 11	00z	18/09	Weak	2m50s	PLdn	WED
13421kHz 11	10z	18/09	Weak	2m50s	PLdn	WED
12221kHz 11	207	18/09	Weak	2m50s	PI dn	WFD
12221KHZ 11	202	10/07	Weak	2 50	DI 1	WED
11521KHZ 11	30Z	18/09	weak	2m50s	PLan	WED
11021kHz 11	40z	18/09	NRH		PLdn	WED
10521kHz 11	50z	18/09	NRH		PLdn	WED
13521kHz 11	00z	21/09		Not monitored, Lightning	PLdn	SAT
13421kHz 11	107	21/09		Not monitored Lightning	PI dn	SAT
100011-II- 11	20-	21/00		Net mentioned, Lightning	DL	CAT
12221KHZ 11	20Z	21/09		Not monitorea, Lignuing	PLan	SAI
11201111 11	20	21/00		N - t	DI J.,	SAT
11521kHz 11	30Z	21/09		Not monitored, Lightning	PLan	SAI
11521kHz 11 11021kHz 11	30z 40z	21/09		Not monitored, Lightning	PLdn PLdn	SAT
11521kHz 11 11021kHz 11 10521kHz 11	.30z .40z	21/09 21/09 21/09		Not monitored, Lightning	PLdn PLdn PLdn	SAT
11521kHz 11 11021kHz 11 10521kHz 11	30z 40z 50z	21/09 21/09 21/09		Not monitored, Lightning Not monitored, Lightning Not monitored, Lightning	PLdn PLdn PLdn	SAT SAT SAT
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11	.30z .40z .50z .00z	21/09 21/09 21/09 25/09	Fair	Not monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s, ORM3	PLdn PLdn PLdn PLdn	SAT SAT SAT
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11	.302 .40z .50z .00z	21/09 21/09 21/09 25/09	Fair	Not monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m20s	PLdn PLdn PLdn PLdn	SAT SAT SAT WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11	302 40z 50z 00z 10z	21/09 21/09 21/09 25/09 25/09	Fair Fair	Not monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s	PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11	40z 50z 00z 10z 20z	21/09 21/09 21/09 25/09 25/09 25/09	Fair Fair Fair	Not monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11	302 40z 50z 00z 10z 20z 30z	21/09 21/09 21/09 25/09 25/09 25/09 25/09	Fair Fair Fair Weak	Not monitored, Lightning         Not monitored, Lightning         Vot monitored, Lightning         4m30s         4m30s         4m30s         4m30s         4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11	302 40z 50z 00z 10z 20z 30z 40z	21/09 21/09 21/09 25/09 25/09 25/09 25/09	Fair Fair Fair Weak MISSED	Not monitored, Lightning         Not monitored, Lightning         Not monitored, Lightning         4m30s         4m30s         4m30s         4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 11021kHz 11	302 40z 50z 00z 10z 20z 30z 40z 50	21/09 21/09 21/09 25/09 25/09 25/09 25/09 25/09	Fair Fair Fair Weak MISSED	Add monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 11021kHz 11 10521kHz 11	302 402 502 002 102 202 302 402 502	21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09	Fair Fair Fair Weak MISSED Weak	Add monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED WED WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 10521kHz 11 10521kHz 11	30Z 40z 50z 00z 10z 20z 30z 40z 50z	21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09	Fair Fair Fair Weak MISSED Weak	Add monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED WED
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11	302 40z 50z 00z 10z 20z 30z 40z 50z 00z	21/09 21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09	Fair Fair Fair Weak MISSED Weak Strong	Add monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED WED SAT
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 15221kHz 11 11521kHz 11 10521kHz 11 10521kHz 11 13521kHz 11 13421kHz 11	302 40z 50z 00z 10z 20z 30z 40z 50z 00z 10z	21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 28/09	Fair Fair Fair Weak MISSED Weak Strong Fair	Aot monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s 4m30s 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED SAT SAT
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11	302 402 502 002 102 202 302 402 502 002 102 202	21/09 21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 28/09 28/09 28/09	Fair Fair Fair Weak MISSED Weak Strong Fair Weak	Aot monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s 4m30s 4m30s 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED WED SAT SAT SAT
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 10521kHz 11 13521kHz 11 13521kHz 11 12221kHz 11 12221kHz 11	302           40z           50z           00z           10z           20z           30z	21/09 21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 28/09 28/09 28/09	Fair Fair Fair Weak MISSED Weak Strong Fair Weak Weak	Add monitored, Lightning Not monitored, Lightning Not monitored, Lightning 4m30s QRM3 4m30s 4m30s 4m30s 4m30s 4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED WED SAT SAT SAT
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 10521kHz 11 13521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11	302 402 502 002 102 202 302 402 502 002 102 202 302	21/09 21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 28/09 28/09 28/09 28/09	Fair Fair Fair Weak MISSED Weak Strong Fair Weak Weak	Not monitored, Lightning         Not monitored, Lightning         4m30s QRM3         4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED WED SAT SAT SAT
11521kHz 11 11021kHz 11 10521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 10521kHz 11 13521kHz 11 13521kHz 11 13421kHz 11 12221kHz 11 11521kHz 11 11521kHz 11	302 402 502 002 102 202 302 402 502 002 102 202 302 402	21/09 21/09 21/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 25/09 28/09 28/09 28/09 28/09 28/09	Fair Fair Fair Weak MISSED Weak Strong Fair Weak Weak MISSED	Not monitored, Lightning         Not monitored, Lightning         4m30s QRM3         4m30s	PLdn PLdn PLdn PLdn PLdn PLdn PLdn PLdn	SAT SAT SAT WED WED WED WED WED SAT SAT SAT SAT SAT
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11425kHz 1150z	09/10	Weak	4m28s	PLdn	WED
16245kHz 1100z	12/10		Not Monitored	PLdn	SAT
15825kHz 1110z	12/10		Not Monitored	PLdn	SAT
14925kHz 1120z	12/10		Not Monitored	PLdn	SAT
13525kHz 1130z	12/10		Not Monitored	PLdn	SAT
12125kHz 1140z	12/10		Not Monitored	PLdn	SAT
11425kHz 1150z	12/10		Not Monitored	PLdn	SAT
16245kHz 1100z	16/10	Weak	4m28s	PLdn	WED
15825kHz 1110z	16/10	Fair	4m28s	PLdn	WED
14925kHz 1120z	16/10	Weak	4m28s	PLdn	WED
13525kHz 1130z	16/10	Weak	4m28s	PLdn	WED
12125kHz 1140z	16/10	Weak	4m28s	PLdn	WED
11425kHz 1150z	16/10	Weak	4m28s	PLdn	WED
16245kHz 1100z	19/10	Weak	4m28s	PLdn	SAT
15825kHz 1110z	19/10	Weak	4m28s	PLdn	SAT
14925kHz 1120z	19/10	Weak	4m28s	PLdn	SAT
13525kHz 1130z	19/10	Weak	4m28s	PLdn	SAT
12125kHz 1140z	19/10	Weak	4m28s	PLdn	SAT
11425kHz 1150z	19/10	Weak	4m28s	PLdn	SAT
16245kHz 1100z	23/10	Fair	4m28s	PLdn	WED
15825kHz 1110z	23/10	Fair	4m28s	PLdn	WED
14925kHz 1120z	23/10	Fair	4m28s	PLdn	WED
13525kHz 1130z	23/10	Fair	4m28s	PLdn	WED
12125kHz 1140z	23/10	Fair	4m28s	PLdn	WED
11425kHz 1150z	23/10	Weak	4m28s	PLdn	WED
16245kHz 1100z	26/10	Fair	4m28s	PLdn	SAT
15825kHz 1110z	26/10	Fair	4m28s	PLdn	SAT
14925kHz 1120z	26/10	Fair	4m28s	PLdn	SAT
13525kHz 1130z	26/10	Fair	4m28s	PLdn	SAT
12125kHz 1140z	26/10	Fair	4m28s	PLdn	SAT
11425kHz 1150z	26/10	Weak	4m28s	PLdn	SAT
16245kHz 1100z	30/10	Weak	1m40s	PLdn	WED
15825kHz 1110z	30/10	Weak	1m40s	PLdn	WED
14925kHz 1120z	30/10	Weak	1m40s	PLdn	WED
13525kHz 1130z	30/10	Weak	1m40s	PLdn	WED
12125kHz 1140z	30/10	Weak	1m40s	PLdn	WED
11425kHz 1150z	30/10	NRH		PLdn	WED

#### Other XPB1 H-FD

#### 1B XPB1

Tue 03.09.2024 0500Z 19668 MFSK-16 4:29 x13435 Tue 03.09.2024 0510Z 19268 MFSK-16 x13935 Tue 03.09.2024 0520Z 18268 MFSK-16 x14435 Tue 03.09.2024 0530Z 17468 MFSK-16 x14835 Tue 03.09.2024 0540Z 16268 MFSK-16 x15935 Tue 03.09.2024 0550Z 15868 MFSK-16 x16225

Mon 23.09.2024 1300Z 20017 MFSK-16 4:30 Mon 23.09.2024 1310Z 19317 MFSK-16 Mon 23.09.2024 1320Z 18037 MFSK-16 Mon 23.09.2024 1330Z 17417 MFSK-16 Mon 23.09.2024 1340Z 16217 MFSK-16 Mon 23.09.2024 1350Z 15817 MFSK-16

#### 1B XPB1

Mont 07.10.1020 0540Z 16244 MFSK-16 x17471 Mon 07.10.2024 0500Z 19544 MFSK-16 x13471 Mon 07.10.2024 0510Z 19044 MFSK-16 x14771 Mon 07.10.2024 0530Z 17444 MFSK-16 x16271 Mon 07.10.2024 0550Z 15844 MFSK-16 x18271

Thu 17.10.2024 1330Z 17475 MFSK-16

Fri 18.10.2024 1300Z 20075 MFSK-16 4:30 Fri 18.10.2024 1310Z 19575 MFSK-16 Fri 18.10.2024 1310Z 18175 MFSK-16 Fri 18.10.2024 1340Z 16275 MFSK-16 Fri 18.10.2024 1350Z 14975 MFSK-16

## HM01 Hybrid

## Nil Report ; see Editorial

## X06 Mazielka (1c) logs section

20240903       Tue 0830-0835       154263       Andrew       2.2         20240903       Tue 0835-0836       13401       154263       Andrew       2.2         20240904       Wed 1228-1237       18078       231654       Dawe/AU       TX to Amman, G24         20240904       Wed 1528-1259       12186       214356       RadiotennikaT       TX to Amman, G24         20240908       Wed 1528-1259       12186       214356       RadiotennikaT       TX to Amman, G24         20240908       Wed 1528-159       12186       214356       RadiotennikaT       TX to Amman, G24         20240909       Wen 0521-0930       19425       214356       RadiotennikaT       TX to Amman, G24         20240901       Wen 0521-0930       19425       543125       Ary, Dave       TX to Rabat, G77         20240910       Tue 0557       17473       1-6       Andrew       X06b         20240910       Wen 0521-071       17473       1-6       Andrew       X06b         20240910       Wen 100821       17427       1-6       Andrew       X06b         20240910       Tue 1016       16317       612534       Anon0344       2.2         20240910       Tue 1219       10258 <t< th=""><th>Date</th><th>Day</th><th>UTC</th><th>Freq</th><th>Scale</th><th>Monitor</th><th>Comments</th></t<>	Date	Day	UTC	Freq	Scale	Monitor	Comments
20240903 Tue 0835-0836 13401 154263 Andrew       2.2         20240903 Tue 1231       18037 16 Schorschi       X06b         20240904 Wed 1528-1559 12186 214356 RadiotehnikaT       TX to Amman, G24         20240908 Sun 116-1124 14865 261453 Ary, Andrew       TX to Cairo, G138         20240909 Mon 0856-0904 17475 156234 Dave, Ary       TX to Kampala, G68         20240909 Mon 0856-0904 17475 156234 Dave, Ary       TX to Rampala, G68         20240910 Tue 0757       17473 16 Andrew       X06b         20240910 Tue 0821 - 17424 16 Andrew       X06b         20240910 Tue 0823       17421 16 Andrew       X06b         20240910 Tue 0847       17424 16 Andrew       X06b         20240910 Tue 009-1011 20813 216354 Andrew       Alert2 (TX to Ashgabat, G89) 1         20240910 Tue 1009-1011 20813 216354 Andrew       X1 to Chennai, G388(1)         20240910 Tue 1009-1011 20813 216354 Andrew       X06b         20240910 Tue 1016       16317 612534 Anon03344       2.2         20240910 Tue 1211       16272 16 Andrew       X06b         20240910 Tue 1211       16272 16 Andrew       X06b         20240910 Tue 1406       18208 16 RadiotehnikaT       X06b         20240910 Tue 1406       18208 1-6 Andrew       X06b         20240911 Tue 1615-1647 18513 1-6 KadiotehnikaT	20240903	Tue	0830-0835	15687	154263	Andrew/SE	Alert2 (TX to Rome, G7) 1
20240903 Tue 1231         18037 16-         Schorschi         X06b           20240904 Wed 1258-1559         12186 214356 RadiotehnikaT         TX to Amman, G24           20240904 Wed 1558-1559         12186 214356 RadiotehnikaT         TX to Amman, G24           20240906 Fri 0826-0828 16219         324615 Dave         TX to Amdrid, G52           20240909 Mon 0856-0904 17475 156234 Dave, Ary         TX to Kampala, G68           20240910 Tue 0757         17473 16 Andrew         X06b           20240910 Tue 0802         17419 16 Andrew         X06b           20240910 Tue 0802         17417 16 Andrew         X06b           20240910 Tue 0802         17417 16 Andrew         X06b           20240910 Tue 0802         17427 16 Andrew         X06b           20240910 Tue 1003-1008         17520 612534 Andrew         TX to Chennai, G388(1)           20240910 Tue 1009-1011         10813 216354 Andrew         TX to Chennai, G388(1)           20240910 Tue 1009-1011         16317 1-6 Andrew         X06b           20240910 Tue 1219         10258 16 Andrew         X06b           20240910 Tue 1219         10258 16 Andrew         X06b           20240910 Tue 1406         18328 216341 Darew         TX to Bacha, G429           20240911 Tue 1815-1647 18513         16463 4162481	20240903	Tue	0835-0836	13401	154263	Andrew	2.2
20240904 Wed 1228-1237 19878 231654 Dave/AU       TX to Abuja, C422         20240906 Fri 0826-0828 16219 324615 Dave       TX to Madrid, G52         20240906 Sun 1116-1124 14865 261453 Ary, Andrew       TX to Cairo, G138         20240909 Mon 0856-0921 17475 156234 Dave, Ary       TX to Kampala, G68         20240910 Tue 0757       17473 1-6 Andrew       X06b         20240910 Tue 0823       17419 1-6 Andrew       X06b         20240910 Tue 0823       17424 1-6 Andrew       X06b         20240910 Tue 0823       17421 1-6 Andrew       X06b         20240910 Tue 0823       17421 1-6 Andrew       X06b         20240910 Tue 1003-1011 20813 216354 Andrew       Alert2 (TX to Ashgabat, G89) 1         20240910 Tue 1009-1011 20813 216354 Andrew       TX to Chennai, G386(1)         20240910 Tue 1009-1011 20813 216354 Andrew       TX to Chennai, G388(1)         20240910 Tue 1016       16317 612534 Andrew       TX to Chennai, G388(1)         20240910 Tue 1027       13387 1-6 Andrew       X06b         20240910 Tue 1211       16272 1-6 Andrew       X06b         20240910 Tue 1406       18208 1-6 Andrew       X06b         20240910 Tue 1406       18208 1-6 Andrew       X06b         20240910 Tue 1406       18208 1-6       X01ew         20240911 Tue 100-1013 14463 51243 S	20240903	Tue	1231	18037	16	Schorschi	X06b
20240904 Wed 1558-1559 12186 214356 RadiotehnikaT       TX to Amman, C4         20240908 Sun 1116-1124 14865 261453 Ary, Andrew       TX to Cairo, G138         20240909 Mon 0856-0904 17475 155234 Dave, Ary       TX to Rabat, G68         20240910 Tue 0757       17473 1-6 Andrew       X06b         20240910 Tue 0802       17441 1-6 Andrew       X06b         20240910 Tue 0802       17441 1-6 Andrew       X06b         20240910 Tue 0825       17471 1-6 Andrew       X06b         20240910 Tue 0825       17427 16 Andrew       X06b         20240910 Tue 0825       17427 16 Andrew       X06b         20240910 Tue 1003-1008 17520 612534 Andrew       TX to Chennai, G388(1)       20240910 Tue 1009-1011 20613 216354 Andrew       TX to Chennai, G388(1)         20240910 Tue 1016       16317 612534 Andrew       X06b       20240910 Tue 1207       13387 16 Andrew       X06b         20240910 Tue 1219       10258 16 Andrew       X06b       20240910 Tue 1219       10258 16 Andrew       X06b         20240910 Tue 1219       10258 16 Andrew       X06b       20240910 Tue 1216 1637 18513 16 Andrew       X06b         20240910 Tue 1219       10258 1-6 Andrew       X06b       20240910 Tue 1216 16451 4873 Schorschi       TX to Barba, G439         20240910 Tue 1615-1647 18513 16 Andrew <t< td=""><td>20240904</td><td>Wed</td><td>1228-1237</td><td>19878</td><td>231654</td><td>Dave/AU</td><td>TX to Abuja, G422</td></t<>	20240904	Wed	1228-1237	19878	231654	Dave/AU	TX to Abuja, G422
20240906       Fri 0826-0828       16219       324615       Dave       TX to Madrid, G52         20240908       Non 0856-0904       17475       156234       Dave, Ary       TX to Kampala, G68         20240909       Mon 0821-0930       19235       463125       Ary, Dave       TX to Rabat, G77         20240910       Tue 0802       17434       16       Andrew       X06b         20240910       Tue 0802       17434       16       Andrew       X06b         20240910       Tue 0802       17441       16       Andrew       X06b         20240910       Tue 0825       17427       16       Andrew       X06b         20240910       Tue 1003-1008       17526       612534       Andrew       TX to Chennai, G388(1)         20240910       Tue 1009-1011       2013       216354       Andrew       X06b         20240910       Tue 1211       16272       1-6       Andrew       X06b         20240910       Tue 1219       10258       1-6       Andrew       X06b         20240910       Tue 1219       10258       1-6       Andrew       X06b         20240910       Tue 1219       10258       1-6       Andrew       <	20240904	Wed	1558-1559	12186	214356	RadiotehnikaT	TX to Amman, G24
20240908 Sun 1116-1124 14865 261453 Ary, Andrew       TX to Cairo, C138         20240909 Mon 0856-0904 17475 156234 Dave, Ary       TX to Kampala, G68         20240909 Mon 0921-0930 19235 463125 Ary, Dave       TX to Rabat, G77         20240910 Tue 0802 17433 16 Andrew       X06b         20240910 Tue 0823 17419 16 Andrew       X06b         20240910 Tue 0823 17417 16 Andrew       X06b         20240910 Tue 0825 17427 16 Andrew       X06b         20240910 Tue 0825 17427 16 Andrew       X06b         20240910 Tue 1003-1008 17520 612534 Andrew       Alert2 (TX to Ashgabat, G89) 1         20240910 Tue 100-1011 20813 216354 Andrew       TX to Chennai, G388(1)         20240910 Tue 100-111 16727 1-6 Andrew       X06b         20240910 Tue 1201       16317 612534 Andrew       TX to Chennai, G388(1)         20240910 Tue 1219       10258 16 Andrew       X06b         20240910 Tue 1615-1647 18513 16 Andrew       X06b         20240913 Tri 1240 19610 216435 RadiotehnikaT       TX to Geneva, G127         20240916 Mon 0750-0757 12152 432516 Andrew       TX to Dakha, G439         20240917 Tue 0840-0843 17454 325614 Andrew       TX to Nairohi, G400         20240919 Thu 1322-1334 20627 436512 Dave       TX to Harare, G180         20240919 Thu 1322-1334 20627 436512 Dave       TX to Harare, G180         2	20240906	Fri	0826-0828	16219	324615	Dave	TX to Madrid, G52
20240909       Mon       0856-0904       17475       156234       Dave, Ary       TX to Kampala, G68         20240901       Tue       077       17473       16       Andrew       X06b         20240910       Tue       0802       17434       16       Andrew       X06b         20240910       Tue       0825       17421       16       Andrew       X06b         20240910       Tue       0825       17421       16       Andrew       X06b         20240910       Tue       0825       17421       16       Andrew       X06b         20240910       Tue       1003-1008       15205       612534       Andrew       TX to Chennai, G388(1)         20240910       Tue       1016       16317       612534       Anon03344       2.2         20240910       Tue       1201       10238       16       Andrew       X06b         20240910       Tue       1406       18208       16       Andrew       X06b         20240910       Tue       1406       18208       16       Andrew       TX to Geneva, G127         20240913       Fri 0815       14863       15243       Schotanitat       T	20240908	Sun	1116-1124	14865	261453	Arv, Andrew	TX to Cairo, G138
20240909       Mon 0921-0930       19235       463125       Ary, Dave       TX to Rabat, G77         20240910       Tue 0757       17473       16       Andrew       X06b         20240910       Tue 0823       17419       16       Andrew       X06b         20240910       Tue 0823       17424       16       Andrew       X06b         20240910       Tue 0825       17424       16       Andrew       X06b         20240910       Tue 0847       17424       16       Andrew       X16o         20240910       Tue 1003-1008       17520       612534       Andrew       X1c       C Ashgabat, G89)       1         20240910       Tue 1016       16317       612534       Andrew       X1c       C C Kashgabat, G89)       1         20240910       Tue 1217       16327       16       Andrew       X06b       22240910       Tue 1219       10258       16       Andrew       X06b         20240910       Tue 1219       10258       16       Andrew       X06b       2240910       Tue 1219       10258       1-6       Andrew       X1c       D Bakha, G439       2240910       Tue 1406       121435       Sadothandrew       T	20240909	Mon	0856-0904	17475	156234	Dave, Arv	TX to Kampala, G68
2240910       Tue 0757       17473       16       Andrew       X06b         20240910       Tue 0802       17434       16       Andrew       X06b         20240910       Tue 0825       17424       16       Andrew       X06b         20240910       Tue 0825       17424       16       Andrew       X06b         20240910       Tue 00825       17424       16       Andrew       X06b         20240910       Tue 1003-1008       17520       612534       Andrew       Tx to Chennai, G388(1)         20240910       Tue 1003-1011       20813       216354       Andrew       Tx to Chennai, G388(1)         20240910       Tue 1010       16317       612534       Andrew       X06b         20240910       Tue 1207       13387       16       Andrew       X06b         20240910       Tue 1615-1617       18513       1-6       Andrew       X06b         20240910       Tue 1615-1617       18513       1-6       Andrew       Tx to Geneva, G127         20240911       Tue 1615-1617       18513       1-6       Andrew       Tx to Bern, G341         20240913       Fri 0815       14663       615243       Schotrak	20240909	Mon	0921-0930	19235	463125	Arv, Dave	TX to Rabat, G77
20240910       Tue 0802       17434       16       Andrew       X06b         20240910       Tue 0823       17419       16       Andrew       X06b         20240910       Tue 0825       17424       16       Andrew       X06b         20240910       Tue 1003-1008       17520       612534       Andrew       Alert2 (Tx to Ashgabat, G89)       1         20240910       Tue 1009-1011       20813       216354       Andrew       TX to Chennai, G388(1)         20240910       Tue 1016       16317       612534       Anon03344       2.2         20240910       Tue 1207       13387       16       Andrew       X06b         20240910       Tue 1211       16272       16       Andrew       X06b         20240910       Tue 1615-1647       18513       16       Andrew       X06b         20240910       Tue 1615-1647       18513       16       Andrew       Tx to Barba, G439         20240915       Fri 1240       19610       216435       Radrew       Tx to Careva, 6127         20240915       Fri 0815       14453       S2614       Andrew       Tx to Rarba, G439         20240916       Mon 0810-0813       11438       <	20240910	Tue	0757	17473	16	Andrew	X06b
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22240910       Tue       0847       17424       16       Andrew       X06b         20240910       Tue       1003-1008       17520       612534       Andrew       Alert2 (TX to Ashgabat, G89)       1         20240910       Tue       1016       16317       612534       Anon03344       2.2         20240910       Tue       1016       16317       612534       Anon03344       2.2         20240910       Tue       1210       1387       16       Andrew       X06b         20240910       Tue       1211       16272       16       Andrew       X06b         20240910       Tue       1219       10258       16       Andrew       X06b         20240910       Tue       1219       10258       16       Andrew       X06b         20240910       Tue       1615-1647       18513       16       Andrew       TX to Geneva, G127         20240913       Fri       0815       14863       615243       Schorschi       TX to Dakha, G439         20240916       Mon       0810-0813       11438       532614       Andrew       TX to Daris, G147         20240917       Tue<0840-0642	20240910	Tue	0825	17427	16	Andrew	X06b
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20240910       Tue 1009-1011       20813       216354       Andrew       TX to Chennai, G388(1)         20240910       Tue 1016       16317       612534       Anon03344       2.2         20240910       Tue 1207       13387       16       Andrew       X06b         20240910       Tue 1211       16272       16       Andrew       X06b         20240910       Tue 1219       10258       16       Andrew       X06b         20240910       Tue 1615-1647       18513       16       Andrew       Xto Geneva, G127         20240913       Fri 10815       14863       615243       Schorschi       TX to Geneva, G127         20240916       Mon 0750-0757       12152       432516       Andrew       TX to Bern, G341         20240917       Tue 0829-1000       14358       532614       Andrew       TX to Nairobi, G400         20240917       Tue 0840-0843       17454       325614       Andrew       TX to Beirut, G169         20240918       Wed 1605       12186       214356       Shortwavemills       TX to Antananarivo, G178         20240919       Thu 032-1334       20627       436512       Dave       TX to Cairo, G285         20240923       Mon 0828	20240910	Tue	1003-1008	17520	612534	Andrew	Alert2 (TX to Ashgabat, G89) 1
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20240910       Tue       1207       13387       16       Andrew       X06b         20240910       Tue       1211       16272       16       Andrew       X06b         20240910       Tue       1219       10258       16       Andrew       X06b         20240910       Tue       1406       18208       16       Andrew       X06b         20240910       Tue       1615-1647       18513       16       Anon39689       Very long X06b         20240913       Fri       0815       14863       615243       Schorschi       TX to Geneva, G127         20240916       Mon       0750-0757       12152       432516       Andrew       TX to Bern, G341         20240917       Tue       0829-000       14358       154263       Dave       Vy long TX to Rome, G148(2)         20240917       Tue       0840-0843       17454       325614       Andrew       TX to Mainan, G344         20240918       Wed       0640-0642       13838       256341       Dave       TX to Anman, G344         20240919       Thu       1332-1334       20627       436512       Dave       TX to Ananan; G304         20240923       Mon       0828 </td <td>20240910</td> <td>Tue</td> <td>1016</td> <td>16317</td> <td>612534</td> <td>Anon03344</td> <td>2.2</td>	20240910	Tue	1016	16317	612534	Anon03344	2.2
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20240918Wed0640-064213838256341DaveTXtoBeirut,G16920240918Wed160512186214356ShortwavemillsTXtoAmman,G39420240919Thu0719-072021825314265AndrewTXtoAntananarivo,G17820240919Thu1332-133420627436512DaveTXtoAntananarivo,G17820240922Sun0935-094214865261453AndrewTXtoAntananarivo,G28520240923Mon082817475156234Anon11537TXtoKampala,G20320240923Mon092716117463125AryX06cX06c20240924Tue0806-081213420534216Ary,AndrewTXtoBagdad,G23220240924Tue0806-081213420534216Ary,DaveTXtoBagdad,G24220240925Wed0810-081311153465132Ary,DaveTXtoAddisababa,G40220240925Wed0852-085413985134265DaveZ.2 </td <td>20240917</td> <td>Tue</td> <td>0840-0843</td> <td>17454</td> <td>325614</td> <td>Andrew</td> <td>TX to Nairobi, G400</td>	20240917	Tue	0840-0843	17454	325614	Andrew	TX to Nairobi, G400
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 20241002 Wed 1239
 203/4 231034 Dave, more than 1, 1000 D 20241003 Thu 1312-1318 19405 352416 Anon23724TX to Ho Chi Minh City, (20241004 Fri 1000-1002 16161 2-4616 Anon05898X06b20241007 Mon 0737-0748 14377 432516 AndrewTX to Bern, G620241007 Mon 0950-1012 12450 6-1-6- ArvX06b 20241007 Mon 0950-1012 12450 6-1-6- Ary X06b, moved from 12450 kHz 20241007 Mon 1013-1028 13450 6-1-6- Ary X06b(5) 20241007 Mon 1031-1041 13450 6-1-6- Ary 20241007 Mon1056-1121134506-1-6-AryX06b20241007 Mon1124-1305124506-1-6-AryVery long final X06b20241008 Tue0757-080210767534216DaveTX to Bagdad, G8720241009 Wed0728-073111483412356DaveTX to Budapest, G9720241009 Wed0815-081611153465132DaveTX to Sofia, G10020241011 Fri0847-084912177356412AndrewTX to Berlin, G12620241013 Sun082316060261453AndrewTX to Cairo, G13820241014 Mon0815-082017475156234AndrewTX to Kampala, G6820241016 Wed1114-112016115215346AndrewTX to Abuja, G42320241017 Thu0750-075217534351264Ary, DaveTX to Abu Dhabi, G43420241017 Thu1119-112418250161-6-ScarachX06b20241017 Thu1134-114319250161-6-RadiotehnikaTX06b 20241007 Mon 1056-1121 13450 6-1-6- Ary X06b 20241017 Thu 1134-1143 19250 161-6- RadiotehnikaT X06b 20241017 Thu 1215-1218 19511 314265 AndrewTX to Antananarivo, G178(6)20241018 Fri 0826-0832 13954 213546 Ary, DaveTX to Islamabad, G390 20241021 Mon 0644-0649 13452 165324 Ary, Anon13928 TX to Vienna, G145(7) 20241021 Mon 0744-0750 12152 432516 Ary, Andrew TX to Bern, G341 20241022 Tue 0801-0806 17523 542136 Dave TX to Beijing, G88 20241022 Tue 0811-0814 11545 534216 Andrew TX to Bagdad, G232 20241022 Tue 1009-1011 17470 216354 Dave TX to Chennai, G228 

 20241023 Wed 0742-0747 11483 412356 Ary, Dave
 TX to Budapest, G243

 20241023 Wed 0824-0825 11153 465132 Ary, Dave
 TX to Sofia, G246(8)

 20241028 Mon 0740-1043 12100 123456 Ary, Kopf, Andrew X06c i. p., strong and very long 20241028 Mon 0931-0936 16117 463125 Andrew, Eddy TX to Rabat, G222 1) 1012 UTC: serdo FSK 2) From 0825-0828 UTC: MFSK-66 3) 0819, 0825 and 0830-31 UTC: M42 Serdolik v2 4) Rare sequence, started about an hour previously 5) Break between 1031 and 1032 UTC 6) 1209-1212 UTC: MFSK-66 7) 0649 UTC: MFSK-66

8) 0823 UTC: Serdo v2

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

Jochen Schäfer, Numbers-, X06 Database and Teamkopf

## \*Thank you to all our contributors\*

## Giv' us a Job!





### MEET JAMES. A PEOPLE PERSON WITH A FLAIR FOR Learning Languages. Sound like you?

BECOME AN Intelligence officer And Help Shape World Events.









Image of Plaque erected at site of the 'Bridge over the River Kwae' where allied prisoners of war were used as slave labour by Imperial Japanese Forces



Plaque erected by the Kanchanaburi Municipality of Thailand in Remembrance of those souls who perished and whose remains are interred in the War Graves nearby

# Chart Section Index

**Predictions** 

**M01 Schedule** 

**Family III** 

Polytones, XPA1, XPA2

## En145

## November 2024

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MC	Ē	Мe	Ţ	н Гн	ŝ	SL	UIC	WК	SUN	Fall	kHz, ID,	kHz, ID,
						37	0700		MO1	010	5465	5465
						~	0700		MOT	UID	197	197
	v			v			0710		MOIA	14	10651	10651
	Δ			Λ			0710		110 171	11	297/358	297/358
		x	x				0710		M01A	14	9175	9175
			23				0710		110 111		146/208	146/208
x		x					0715		E11	03	x11104	x11104
											75# <b>search</b>	75#
	х			x			0715		E11	03	14975	14975
											63#	63#
					x	х	0715		M01	14	9566	9566
											475	475
	х			х			0720		M01A	14	9151	9151
											728	728
		х		х			0725		S11A	03	23486	23486
									700		38#	38#
						х	0730/0800		EU6	01A		9463/7377
									S06		10010	480
х							0745		E11	03	10213	10213
											20#	20#
	х		х				0745		E11	03	13908	13908
											22#	22# 17270
		х		х			0745		E11	03	1/3/8	1/3/8
							0000		171 2	0	15250	10040
X	X	X	X	X	X	X	0800/0820/0840		VIJ VDA2	018	11520/13/20/13020	11/03/13303/13003
		Δ					00007002070040		ALAZ	UID	14611	14611
	х	х					0820		E11	03	13#	13#
											6986	6986
			Х	х			0820		E11	03	43# check	43#
											23353	23353
Х				Х			0830		E11	03	18#	18#
											5371	5371
					х	х	0830		S11A	03	37#	37#
											12067	12067
Х		Х					0845		E11	03	71#	71#
											13046	17378
	Х		Х				0845		ETT	03	15#	15#
							0.000		<b>D</b> 11	0.2	15915	15915
X		Х					0900		中十十	03	53#	53#
Х		Х					0910/0930/0950		XPA2	01B	17413/15852/13363	13562/11583/10281
			Х		х		0910/0930/0950		XPA2	01B	15985/14885/13885	13919/11519/10719
v				v			0915		Q117	03	6252	6252
Δ				^			0913		DIIN	05	48#	48#
		v	v				0930		E11	03	7469	7469
		Δ	Δ								27#	27#
											17458 10.&25.	17458 10.&25.
Х	Х	Х	Х	Х	х	Х	0930		M14	01A	15994 11.&26.	15994 11.&26.
											when msg	when msg
		x					0930/1030		506	01A		9463/ 9073
										~		480
	x			x			1000		E11	03	9079	9079
											30#	30#
Х	Х	Х	Х	Х	Х	Х	1000		V13	0		
	Х	Х	Х	Х			1015/1025/1035		F01	01A	12177/10671/ 8024	12164/10336/ 8016

Ц	Ð	g	ŋ	-1	L L	u	TIE O		Q have	<b>D</b>	Nov	Dec
MO	С Н	M€	E	ц	S 0	SC	UTC	WK	Sth	Fam	kHz, ID,	kHz, ID,
							1045		<b>D</b> 11	0.2	x11100	x11100
X		х					1045		ETT	03	69# search	69#
							1100/1120/1140		M1 0	01D	11519/12194/13407	11519/12194/13407
	х						1100/1120/1140		MIZ	UIB	289	289
	х			х			1100/1120/1140		XPA2	01B	10653/ 9353/ 8153	9265/ 8165/ 7665
		х	х				1100/1120/1140		XPA2	01B	13393/12193/11093	11579/10979/10279
v	v	v	v	v	v	v	1200		V13	0	9276/13974	7688/13974
21	25	25	25	21	21	21	1200		V10	Ŭ	5270715571	/ 000/ 100/ 1
		x			x		1200/1210/1210		XPB1	01B	16353/15953/14953	14978/13978/13378
		25			21		1230/1240/1250		ML D1	UID	13453/12153/11453	12178/11078/10278
		Х		Х			1200/1220/1240		XPA2	01B	13968/15968/17468	14841/16241/18241
	x	x					1205		E11	03	11559	11559
											46#	46#
x			x				1300		E11	03	4909	4909
											31#	31#
х	х	х	х	х	x	x	1300		V13	0	7688/11430	7688/11430
	х			х			1300/1310/1310		XPB1	01B	20021/19521/18421	20044/19344/18544
							1330/1340/1350				17421/16321/15921	17444/16244/14944
		х		х			1310/1330/1350		XPA1	01B	13875/13375/10875	13465/12165/10265
							1005 (1005				838	412
	х	х	х				1325/1425		S06	01A	search	search
				-			sporadic				10440	10440
	х			х			1400		S11A	03	10448	10448
											42#	42#
			х		х		1410/1430/1450		E07	01B	115/4/102/4/ 92/4	10226/ 9226/ 8126
											13363	13363
	х				х		1430		E11	03	Q1 #	13305 91 #
											5010	5010
					х		1500		M01	14	197	197
							1500/1600				13307/010/	1.57
	х	х	х				sporadic		S06	01A	387	search
							Sporaare				1/1737/13537/12137	13539/12139/10239
	х			х			1500/1520/1540		E07	01B	751	512
	-	-	-	-							5409	5409
			Х				1530		E11	03	26#	26#
					x		1600/1620/1640		XPA2	01B	8126/ 6826/ 5326	6984/5884/4784
	х		х				1600/1620/1640		XPA2	01B	10223/ 9223/ 8123	8184/ 7864/ 6784
<u> </u>							1 000 / 1 000		E06			6792/ 5380
					Х		1600/1630		S06	01A		480
							1 605		<b>D</b> 11	0.2	5432	5432
	Х					х	1605		ETT	03	23#	23#
							1 ( 1 0		<b>D</b> 11	0.0	4505	4505
		Х			Х		1610		ETT	03	39#	39#
							1645		<b>E</b> 11	0.2	4909	4909
					X	X	1040		다 ㅜ ㅜ	0.5	36#	36#
		.,		\$7			1715		<b>5</b> 11	0.3	5082	5082
		X		х					다 ㅜ ㅜ	0.5	97#	97#
			v				1730		<b>F</b> 11	03	5779	5779
			~				± / J U			00	41# <b>check</b>	41#
v						v	1745	<u>-</u>	F11	03	12924	12924
^						^	± / = J				24#	24#
	v		v				1800		M01	14	5320	5320
	Δ		Δ				1000			± ±	197	197

n	Ð	g	n	-1	۳ ۲	un	IIIIC		C+n	Fom	Nov	Dec
M	Ē	Ме	Τŀ	Еı	S 0	١S	UIC	wк	SUN	Falli	kHz, ID,	kHz, ID,
			v				1900/1920/1940		м1 2	010	11435/10598/ 9327	11435/10598/ 9327
			Δ				1000/1020/1040		14172	UID	938	938
				~		v	1815		<b>F</b> 11	03	6849	6849
				<		4	1015		<u>п</u> тт	05	92#	92#
		v			v		1950		Q117	03	11486	11486
		~			~		1000		SIIA	0.5	28#	28#
			4				1 9 0 0		<b>D</b> 11	03	6849	6849
~			Δ				1900		<u>БТТ</u>	0.5	64#	64#
		37					1900/1920/1940		M1 2	010	8047/ 6802/ 5788	8047/ 6802/ 5788
		~					1900/1920/1940		14172	UID	463	463
				v			1900/2000	1/3	906	013	7923/ 5943	
				<			1900/2000	1/5	500	UIA	842	
				v		v	1910		<b>F</b> 11	03	10487	10487
				<		4			<u>п</u> тт	05	61#	61#
	~			v			1910/1950/2000	1	F01	013	8172/ 6791/ 4546	7681/ 5326/ 1020
	~			Λ			1940/1930/2000		FUI	UIA	check	/004/ 3320/ 4029
			v			v	2000		<b>F</b> 11	03	5082	5082
			Δ			Δ	2000			0.5	52#	52#

### M01 FREQUENCY LIST

### Frequencies may vary by a few kHz

JAN FEB NOV DEC	<b>M01/1</b>	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	Wed	Thu	Fri	Sat	H UTC	wk	Stn	Fam	Sep kHz, ID,	Oct kHz, ID,	Nov kHz, ID,	Dec kHz, ID,	Remarks
x	x				0315		E11	03	11420 25#	11420 25#	x8456 25# <b>search</b>	x8456 25#	since 01/14, last log 10/24
	x	x			0445		S11A	03	10728 79#	10728 79#	11559 79#	11559 79#	since 05/22, last log 10/24
x					0450		E11	03	12385 41#	12385 41#	4909 41# check	4909 41#	since 02/10, last log 10/24 2nd transmission Thu 1730z
	x	x			0505		E11	03			12153	12153	since 10/11, last log 02/24
x	x				0510		S11A	03	23004	23004	21906	21906	<pre>mar/Apr/Sep/Oct at 12302, Mai-Aug at 16452 since 08/19, last log 10/24</pre>
x	×				0.600		E11	03	65# 19515	65# 19515	65# 23004	65# 23004	since 07/17. last log 10/24
								0.0	94# 8680	94# 8680	94# 7850	94# 7850	
			x		x 0000		P11	0.5	35# 8423	35# 8423	35# 7840	35# 7840	Since 04/13, last 10g 10/24
	x	x			0645		E11	03	51#	51#	51#	51#	since 07/09, last log 10/24
х		x			0700		S11A	03	47#	47#	47#	47#	since 04/10, last log 10/24
	x		x		0700		E11	03	57#	57#	57#	57#	since 01/12, last log 10/24
				x	x 0700		E11	03	9079 49#	9079 49#	5371 49#	5371 49#	since 07/15, last log 10/24
x	x				0715		E11	03	19515 75#	19515 75#	<b>x11104</b> 75# <b>search</b>	×11104 75#	since 06/21, last log 10/24
	x		x		0715		E11	03	15720 63#	15720 63#	14975 63#	14975 63#	since 02/11, last log 10/24
	x		x		0725		S11A	03	21854	21854 38#	23486 38#	23486 38#	since 05/14, last log 10/24
x					0745		E11	03	10213	10213	10213	10213	since 03/14, last log 10/24
	x	x			0745		E11	03	14865	26# 14865	13908	13908	since 01/20, last log 10/24
	×		×		0745		E11	03	22# 17410	22# 17410	22# 17378	22# 17378	since 06/17, last log 10/24
					0.930		E11	0.2	34# 19184	34# 19184	34# 14611	34# 14611	since 12/18, lost log 10/24
	××				0820		EII	03	13# 9150	13# 9150	13# 6986	13# 6986	since 12/18, last log 10/24
		x	x		0820		E11	03	43#	43#	43# check	43#	since 10/09, last log 10/24
x			x		0830		E11	03	18#	18#	18#	18#	since 07/15, last log 10/24
				x	x 0830		S11A	03	6433 37#, check	6433 37#	37#	37#	since 02/14, last log 10/24
x	x				0845		E11	03	12202 71#	12202 71#	12067 71#	12067 71#	since 09/10, last log 10/24
	x	x			0845		E11	03	18168 15#	18168 15#	13046 15#	17378 15#	since 07/17, last log 10/24
x	x				0900		E11	03	13117 53#	13117 53#	15915 53#	15915 53#	since 10/05, last log 10/24
x			x		0915		S11A	03	6480	6480	6252	6252	since 04/19, last log 10/24
	x	x			0930		E11	03	6940	40# 6940	7469	7469	since 02/14, last log 10/24
	x		x		1000		E11	03	9951	27# 9951	27# 9079	27# 9079	since 11/16, last log 10/24
					1045		F11	0.3	30# 12385	30# 12385	30# <b>x11100</b>	30# ×11100	cinco 03/18 loct log 10/24
^	^				1045	-		0.5	69# 9399	69# 9399	69# <b>search</b> 11559	69# 11559	since 03/10, last log 10/24
	××				1205		E11	03	46# 12530	46# 12530	46#	46#	2nd transmission Mon 0450z since 10/11, last log 10/24
	x	х			1230		E11	03	33#	33#	4909	4909	May-Aug at 1645z, Nov-Feb at 0505z
x		x			1300		E11	03	31#	31#	31#	31#	since 07/14, last log 10/24
	x		x		1400		S11A	03	42#	42#	42#	42#	since 02/10, last log 10/24
	x			x	1430		E11	03	14972 91#	14972 91#	13363 91#	13363 91#	since 10/15, last log 10/24
ΙT		x		Ī	1530		E11	03	10330 26#	10330 26#	5409 26#	5409 26#	since 06/14, last log 10/24 2nd transmission Mon 0745z
	x				x 1605		E11	03	5176 23#	5176 23#	5432 23#	5432 23#	since 11/15, last log 10/24
	x			x	1610		E11	03	4181 39#	4181 39#	4505 39#	4505 39#	since 02/14, last log 10/24
	x	x			1645		E11	03	551	5.5 m	55m	55 m	since 10/11, last log 08/24
				x	x 1645		E11	03	4505	4505	4909	4909	since 03/14, last log 10/24
H	×		x		1715	-	E11	03	36# 6923	36# 6923	36# 5082	36# 5082	zna transmission Thu 1530z since 02/15, last log 10/24
$\square$	+				1730	+	E11	03	97# 12385	97# 12385	97# 5779	97# 5779	since 03/10, last log 10/24
$\mid$	+	×	+		1,00	-			41# 13470	41# 13470	41# check 12924	41# 12924	2nd transmission Mon 0450z
x	+				x 1745	-	Ell	03	24# 11116	24# 11116	24#	24#	since 04/18, last log 10/24
		1	x		x 1815	_	E11	03	92#	92#	92#	92#	since 05/16, last log 10/24
	x			x	1850		S11A	03	28#	28#	28#	28#	since 06/17, last log 10/24
x		x			1900		E11	03	7317 64#	7317 64#	6849 64#	6849 64#	since 05/16, last log 10/24
			x	I	x 1910		E11	03	8530 61#	8530 61#	10487 61#	10487 61#	since 04/17, last log 10/24
Π		x			x 2000		E11	03	5737 52#	5737 52#	5082 52#	5082 52#	since 05/15, last log 10/24

### XPA1 Wednesday/Friday schedule

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

### XPA2 p Schedule [Mon/Wed]

Zulu > Month v	XPA2 Sch Monday/Wedney H 00 H+20 0700 /	ned p sday ) H+40 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:

'E' Thanks for what you have sent. Merry Christmas and a good New Year for you and yours.



#### **RELEVANT WEBSITES**

ENIGMA 2000 Website:

Mystery Signals

Time zone information:

Encyclopedia of Espionage, Intelligence, and Security

2024

http://www.enigma2000.org

http://www.mysterysignals.signalshed.com/

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

http://www.espionageinfo.com/

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	J	anua	ary					F	Feb	ru	ary						Aar	ch					
S M	Т	W	Т	F	S	S	1	М	Т	W	T	F	S	S	M	Т	W	Т	F	S	LANULADY	FERRUARY	
1	2	3	4	5	6					_	1	2	3						1	2	JANUARY	FEBRUARY	MARCH
8	9	10	11	12	13	4		5	6	7	8	9	10	3	4	5	6	7	8	9			
15	16	\$ 17	18	19	20	1	1 1	12	13	14	15	16	17	10	11	12	13	14	15	16	Mo Tu We Th Fr Sa S	Mo Tu We Th Fr Sa Su	Mo Tu We Th Fr S
22	23	3 24	25	26	27	11	8 1	19 :	20	21	22	23	24	17	18	19	20	21	22	23	6 7 8 9 10 11 1	2 3 4 5 6 7 8 9	3 4 5 6 7
29	30	31				2	5 1	26	27	28	29			24	25	26	27	28	29	30	13 14 15 16 17 18 1	9 10 11 12 13 14 15 16	10 11 12 13 14 1
														31							20 21 22 23 24 25 2	6 17 18 19 20 21 22 23	17 18 19 20 21 2
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22	23	\$ 24	25	26	27	1	9 3	20	21	22	23	24	25	16	17	18	18	20	21	22	7 8 9 10 11 12 1	5 6 7 8 9 10 11	2 3 4 5 6
29	30	2				20	6	27 :	28	29	30	31		23	24	25	26	27	28	29	14 15 16 17 18 19 2		9 10 11 12 13 1
														30	8						21 22 23 24 25 26 2	19 20 21 22 23 24 25	16 17 18 19 20 2
					- 8								- 31	6							28 29 30	26 27 28 29 30 31	30
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M	Т	W	Т	F	S	S		М	Т	W	Т	F	S	S	M	Т	W	Т	F	S		AUGUST	SEDTEMRE
1	2	3	4	5	6	100	_				1	2	3	1	2	3	4	5	6	7	JOLI	AUGUST	SEFTEMBE
8	9	10	11	12	13	4	1	5	6	7	8	9	10	8	9	10	11	12	13	14	Mo Tu We Th Fr Sa S	Mo Tu We Th Er Sa Su	Mo Tu We Th Fr (
15	10	17	18	19	20	4		12	13	14	15	16	17	15	16	17	10	19	20	21	1 2 3 4 5 6	1 2 3	1 2 3 4 5
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22	2.	24	20	20	21	1		13	20	21	22	20	24	22	20	24	20	20	21	20	14 15 16 17 18 19 2	11 12 13 14 15 16 17	15 16 17 18 19 2
29	30	31				2	5 1	26	27	28	29	30	31	29	30	E.					21 22 23 24 25 26 2	18 19 20 21 22 23 24	22 23 24 25 26 2
																					28 29 30 31	25 26 27 28 29 30 31	29 30
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	т	101	Т	F	S	0		M	т	10/	T	F	0	e	14	T	U.	T	F	e	OCTOBER	NOVEMBER	DECEMBE
- MI	4	2	2	4	6	0				44		1	2	-	2	2	-	F		7	SCIODER	HOTE MEEN	DEVENIDE
-		-	10		10	-				•	7		-		-	10	-	-	12		Mo Tu We Th Fr Sa S	Mo Tu We Th Fr Sa Su	Mo Tu We Th Fr 5
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