ENIGMA 2000 NEWSLETTER

http://www.enigma2000.org

[Thanks KW]

UK Embassy Kabul, Afghanistan

Note the now redundant communications equipment.
What of the antennas atop the peak, whose are they and what for?

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http://www.enigma2000.org

Editorial

New Domain Name for ENIGMA 2000

Due to problems with our old domain, ENIGMA 2000 now has a new address;

www.enigma2000.org

This replaces our old domain name of enigma2000.org.uk which is now inactive.
Apologies to anyone affected by this during the change-over.
Our hosting domain of www.signalshed.com remains unchanged and active
[*Many thanks to Brian for his help with this small problem*]

New Signals? Ideas please

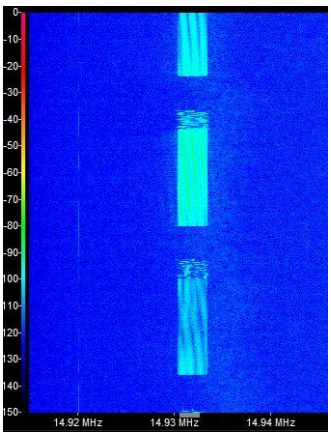


Fig01

Unknown Transmission

The waterfall shown in Fig01 is a digital transmission intercepted on 14930kHz 1020z 01/11/2021. There are a series of transmissions.

Prior to the 1020z intercept a previous series were found at 1010z 13965kHz again on 01/11/2021.

These put me in mind of the hybrids we had been seeing from Cuba but I don't think this is from there.

Fig02 illustrates each 'packet' anf the contents, Fig03 the 'FSK component' if that is what it is.

So, any ideas are welcome

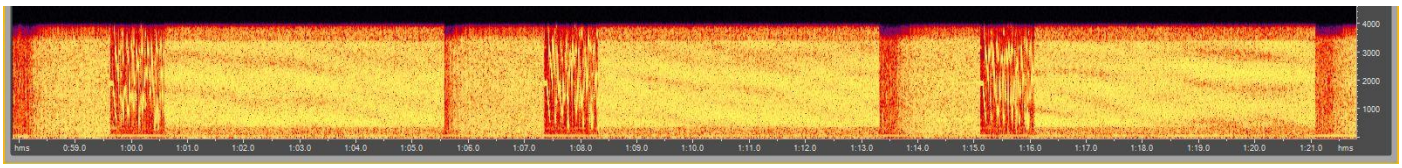


Fig02

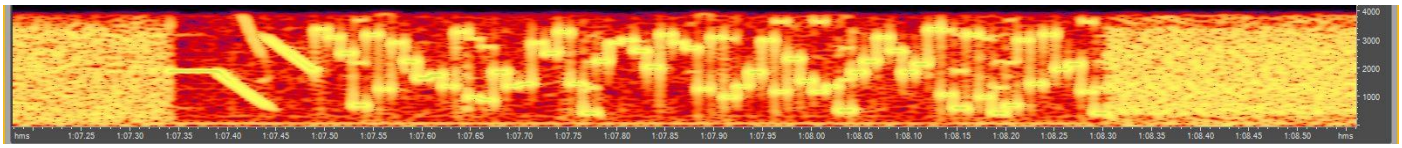


Fig03

A SAMPLE OF THE TRANSMISSION CAN BE FOUND IN GROUP FILES AS: unknown tx.wav

Propagation

As we approach the clock change the propagation for September has been variable once again. Some frequencies chosen obviously will not offer much chance of the target station being heard unless an online SDR unit it used; however, some lifts have occurred with surprising results throughout the September month. October saw a CME affecting propagation around 13th and 14th. On the morning of 14th I noted that most activity to be noted was between 80 to 30m with little to be seen above 11MHz. On the morning of 18/10 PLdn found XPA2 p as NRH and poor condx; more disturbances. The day before a contact with MRE20 was had during Exercise BlueHam, a fair stretch from PLdn's QTC with Weak and Fair Readable exchanged over a noisy 60m frequency. That said there were other stations working satisfactorily upto 18MHz but this morning [18th] there were few around and mostly 80m. Not helpful propagation by far ☹

Peter, PoSW notes: Propagation remains variable as always, the variation in signal strengths of some of the regular number station schedules from week to week, S06s for example, quite noticeable.
Moving towards winter in the northern hemisphere with increasing hours of darkness the lower short-wave frequencies are perking up somewhat; the Canadian time signal station on 3330 kHz has been strong enough to over-ride local interference at around 0600 UTC on several occasions in October and amateur stations from the United States in QSO with stations in Europe have been heard at the top end of the 80 metre band at around the same time.

In the last days of October the higher frequencies have come alive; on Saturday 30-October a tune around the 10 metre band showed a great deal of activity, no doubt greatly assisted by the fact that a contest was in progress, with many SSB stations mostly from parts of the former Soviet Union, UA4, UT3, RK4, and RL4 during a quick tune around just after 0915 UTC and later on 4X1, Israel and OD5, Lebanon? There had been a great deal of activity on ten in the late spring and early summer when most activity was from southern Europe.

Peter also noted additional transmissions which in his logs sent to ENIGMA2000 headed as "Something Completely Different" he noted Well, I don't recall having heard this one before; a female voice version of the E07 station:-
2-Oct-21, Saturday:- 1501 UTC, 8157 kHz, YL voice calling "504 504 504 1", unlike the E07 OM voice this was in AM with LSB suppressed, or USB with carrier. Weak signal,somewhat muffled audio, difficult copy. DK/GC "7159 2" x 2, short message, "313?6 36653" (?) x 2 followed by the usual "000 000" finish, cut carrier approx 1503z.
A repeat found at twenty minutes past the hour:-
1520 UTC, 7649 kHz, as heard earlier, even weaker signal and more difficult to hear.
Searched lower down at 1540z for a possible third sending but nothing found.
Nothing more heard on the following days but on the Friday there was activity on 8157, not the gender-reassigned E07 but the related M12 Morse station:-

8-Oct-21, Friday:- 1500 UTC, 8157 kHz, M12 with, "068 068 068 1", DK/GC "4397 1" x 2, so another short message – in fact messages don't come much shorter, just one 5F group,
"03400". Followed, after a short pause, by the usual, "000 000".
Listened for a repeat at 1520z on 7649 but nothing heard.
Nothing heard on Saturday 9-Oct.

Nothing heard on most of the following days on these frequencies but something heard on the 14th which may have been from the same source:-
14-Oct-21, Thursday:- 1500 UTC, 8157 kHz, tuned in a bit after the hour in time to hear some kind of digital-data type signal, ended a few seconds afterwards.
1520 UTC, 7649 kHz, similar data signal as heard earlier, lasted approx 50 seconds..

Listened on most days at 1500z, 4 PM UK time but nothing further heard – although on Friday 29-October there was a strong "XJT" churning away on 8157, or very close to it, not noticed before.

Which leads us nicely into the following information sent to us by 'E' who heard another style of transmission also:

ZAPAD-21 [*WEST -21*] [Noting 'E' heard Russian numbers 11360kHz 1306z 12/09]

Russia's Zapad-21: Lessons Learned

September 20, 2021

https://cepa.org/russias-zapad-21-lessons-learned/

The glimmer of hope is that Russia might be more willing to avoid miscalculation and tactical errors with NATO and its allies.
The live-fire elements of the Zapad-21 military exercises took place between 10-16 September across 14 training ranges in Belarus and Russia.

Western countries were not invited to observe the drills but it featured hundreds of troops from "friendly" states like India and Kazakhstan, among others.

The Zapad drills have always been about rehearsing operational-strategic warfighting at the regional level against NATO, with a particular focus on force mobility, joint operations across army branches, and high-level Command and Control (C2).

With the active phase of the Zapad-21 Russian strategic exercise now over, and Western attention subsiding, it is time to assess what U.S. and NATO policymakers should remember from this year's drills.

1) Sealing the military deal with Belarus

While Belarus president Aliaksandr Lukashenka walked unwillingly into Zapad-17, this year he plunged head first into the drills. Not least because the geopolitical context has changed tremendously for him since the August 2020 presidential election and subsequent public upheaval.

With Belarus' foreign policy options severely constrained with the West, Zapad-21 re-enshrined the military importance of the Union State and the increased military integration — if not the "merger" — between Russia and Belarus.

In September, both countries signed yet another strategic partnership that opens the way to greater military-technical cooperation and arms sales. Russia will not have a permanent base in Belarus after all, but the debate has now shifted. In March, Russia announced the creation of three joint training centers — one of which will open in Grodno in Belarus.

Meanwhile, the Baranovitchi airbase will reportedly host Russian Su-30 fighter aircraft for training and border patrol purposes, as well as air defense systems. This marks the continued integration of Belarus within Russia's joint regional air defense network, further deepening military interoperability between both countries.

Russia could potentially use Belarusian territory for military operations towards Kaliningrad and other "Suwalki gap" scenarios still get plenty of policy attention in Western capitals. In the aftermath of Zapad-21, it will be interesting to look at what stays behind, namely whether Russian troops or hardware present in Belarus during the drills completely relocate to Russia or not.

It is one thing to leave troops behind, but it is another to pre-position fuel dumps or ammunition. This might be a telling sign of future Russian intentions with Belarus.

2) A defensive exercise (really) aimed at countering NATO

Every Zapad is the same: the official rhetoric sold by the Russian Ministry of Defense presents the exercise as "purely defensive in nature." The drills might be, but the intentions behind them are not.

Again, Zapad is about fighting a technologically advanced peer or near-peer competitor (read, NATO and its allies) at the regional level — with the possibility of moving to strategic conflict and the use of nuclear weaponry.

The drills clearly send a message about the Kremlin's willingness to defend Russian territory in case of aggression. This further needs to be contrasted with the recent comment by Deputy Foreign Minister Ryabkov that the United States is an "adversary."

This is particularly relevant as the proposed scenario of this year's exercises was an initial act of aggression from a coalition of states vaguely resembling NATO territory, against which the Union State of Russia and Belarus had to defend. And ultimately repel by organizing a counter-offensive through a regional combat grouping of forces.

The goal of the exercise is to show the ability of the Russian armed forces to move fast and well in a Western strategic direction. And while the Western Military District is the main actor in Zapad, it was also supported by troops from the Central Military District, reservists, and security forces such as Rosgvardia and the FSB.

Ultimately, Zapad signals to NATO and its allies that pre-emptive "enemy" operations will be met with decisive Russian force, which therefore raises the cost of deterrence.

Correction: A previous version of this article stated that the Grodno base would host Russian Su-30s rather than Baranovitchi base.

3) Zapad-21 will inform Russia's upcoming military doctrine

Zapad-21 tested the features of how Russia strategizes regional warfare against a technologically advanced competitor, honed by recent evolutions in military strategy and military thinking. This notably encompasses "active defense," a theory officially introduced in 2019 by Chief of the General Staff of the armed forces Valery Gerasimov. His legacy (but not his doctrine) will undoubtedly be inscribed in the upcoming, updated Russian military doctrine.

Active defense is linked primarily to the pre-emptive neutralization of threats through limited action in order to counter perceived Trojan horses and other fifth-column color revolutions. According to this view, Western powers are seeking to undermine Russia's political stability by instrumentalizing potential internal protest.

Such encroachments must be countered with pre-emptive force through a strategy of limited action, and notably by using asymmetric warfare capabilities, covert operations, and other non-conventional measures.

Both these features were rehearsed during Zapad-21, and lead to two observations. First, Russian military planners are increasingly thinking in terms of an initial period of war (IPW), a Soviet-inherited concept aimed at achieving operational surprise at the onset of a conflict.

Second, there is a renewed emphasis on peacetime pre-positioning of force and equipment, and combat readiness. Accordingly, past Zapad drills have always been linked to stress-testing strategic mobility and military logistics (especially railway and vertical mobility) with an onus on speed.

After the reduction of military support systems in the 2010s, the Russian armed forces are focusing again on peacetime organization and the pre-positioning of forces and equipment in key nodes in order to increase combat readiness and general preparedness. The latest example took place in Voronezh and Crimea earlier this year.

4) The drills showcased Russia's modern warfare capabilities

Zapad-21 offered a snapshot of how Russia operates at the operational-strategic level. Much has already been written about what happened on training ranges during the "hot" phase of the drills.

Beyond rapid deployment and combat readiness, the centerpiece of Zapad-21 related to testing the integration of Russia's Command and Control (C2) systems, further to lessons learned on the battlefield in Syria and (less officially) in Ukraine.

This year, the drills prominently featured ground-air combined operations, air superiority, and air support missions, as well as the testing of multi-layered air defense capabilities and precision-guided munitions. These were strengthened with electronic warfare counter-measures as well as the integration of aerial drones and counter-drone capabilities.

Another focus was force mobility, with combined ground operations employing airborne assault units (VDV), vertical mobility and airlifts, and assault landings. With the logic of moving fast and well, military sapper units and engineer assault battalions rehearsed the usual mix of engineering support (pontoons, river crossings, etc.), demining, minesweeping, and chemical, biological, radiological, and nuclear (CBRN) solutions. Furthermore, combat service support units practiced direct repair and maintenance of critical pieces of hardware.

Finally, Zapad-21 tested "new generation warfare" through the use of modern military technology and advanced systems — of notable interest, electronic warfare, cyber warfare, and military robotics. These systems are force-multiplier technologies offering the Russian armed forces asymmetric advantages against the perceived military superiority of peer or near-peer competitors.

5) The Arctic featured noticeably during Zapad-21

The naval component is always an integral part of Zapad and it did not disappoint this year. In particular, the Northern Fleet played an important role in and around Zapad-21. This falls within the context of the creation of OSK Sever (Northern Fleet Joint Strategic Command) in January 2021, which now operates as a new fully-fledged military district.

One of the notional enemies fighting the Union State of Russia and Belarus was dubbed the Polar Republic and (un)intended to loosely represent Nordic countries — notably Norway - and attacking Russia from the Barents Sea.

The Northern Fleet responded by carrying out its own Freedom of Navigation Operation (FONOP) in the European High North, with the clearly-established aim to defend sea approaches on the Kola Peninsula and ensure unhampered access to the Northern Sea Route (NSR), Russia's main sea line of communication in the Arctic.

This is particularly important since military tension in the High North seems to be crystallizing around successive FONOPs and other demonstrations of uncontested regional access. After the US-UK joint operations in the Barents Sea in May 2020, the Kremlin is now expecting NATO to contest Russian claims over the NSR.

Beyond the FONOP, Northern Fleet troops practiced amphibious assault landings in order to retake captured seaports from enemy forces - notably in Dudinka. Other drills included anti-ship and air defense, anti-submarine warfare, or counter-mine operations.

Zapad-21 has tremendous internal military value for the Russian armed forces, and notably incorporates lessons learned in the military and logistical sustainability of regional warfighting against a peer competitor.

Geopolitical propaganda aside, the Kremlin reportedly behaved this time and avoided the global positioning system (GPS) jamming and other provocative behavior from four years ago. The glimmer of hope is that Russia might be more willing to avoid miscalculation and tactical errors with NATO and its allies.

https://cepa.org/russias-zapad-21-lessons-learned/

The following stations/frequencies have also been noted [thanks to all those involved here]

Last year, and around the same time Daniel and Ary were aware of an exercise involving E17z as well as polytones and F06.

For E07 [and using the same voice as the also new V07] both posted by Ary we have:

E07 with the same voice as the new V07

7649kHz1520z	02/10	504 504 504 1 7159 2 71519 2 31336 36653 000 000	Ary	SAT

Also E17z

Courtesy of Edd [note date here]

10240kHz 1200z 14/09 strong

274 509 16
51809 31808 71909 83981 24035
48115 14151 51809 23807 15521
96111 10544 98003 68909 45279
43828
509 16
00000
Courtesy Edd Smith via. SDR Enschede.
then intercepted fm Ary:

10240kHz1250z	02/10	Msg below	Ary	SAT
8080kHz1205z	02/10	Msg below	Ary	SAT

274 963 15
88620 58069 61732 74537 57440 10597 23521 47660 92883 69901
39534 11160 43494 37638 16070
96 15 00000

10240	24-10-2021 1515 E17z	USB	Ary	SUN
8080	24-10-2021 1528 E17z	USB	Ary	SUN

274 903 18
33796 13577 74526 45547 79302 53516 25616 56069 96812 14199
65906 66610 20336 17301 88554 82045 42994 84116
903 18 00000

10240	31-10-2021 1440 E17z	USB	Ary	SUN
8080	31-10-2021 1507 E17z	USB		

247 518 30
39534 17228 15636 47891 23247 17099 94961 35826 65906 77288
88146 57856 98835 46186 16945 80744 86200 84706 42227 61736
09394 76911 75155 92918 97067 58604 41438 03092 68362 01653
518 30 00000

10240 had many problems. It took them 22 mins to deliver the message
8080 khz is still going on/off/restarts at 1536z
Followed by tests after.

V07

7649kHz0605z	02/10	367 367 367 1 4103 1 4103 1 25199 000 000	Ary	SAT
7649kHz1435z	02/10	367 367 367 1 5352 1 5352 1 31552 000 000	Ary	SAT
7649kHz0605z	03/10	367 367 367 1 3611 2 3611 2 83543 43218 000 000	Ary	SUN
7649kHz0735z	03/10	367 367 367 1 6262 1 6262 1 02652 000 000	Ary	SUN

It didn't stop there!

Previously on Tuesday 14/09 Edd contacted us to say that he had intercepted an E17z transmission suggesting it mght be a training message:

10240kHz 1200z	14/09 strong	Edd	TUE

274 509 16
51809 31808 71909 83981 24035
48115 14151 51809 23807 15521
96111 10544 98003 68909 45279
43828

509 16
00000
Courtesy Edd Smith via. SDR Enschede.

On Saturday 02/10 Ary heard two transmissions from E17z, one at 1250z on 10240kHz, with the repeat 15m later at 1305z on 10240kHz

10240kHz1250z 02/10 Msg below Ary SAT
8080kHz1305z 02/10 Msg below Ary SAT
274 963 15
88620 58069 61732 74537 57440 10597 23521 47660 92883 69901
39534 11160 43494 37638 16070
96 15 00000

10230 27-10-2021 1340 E17z USB Synthesized lady Ary WED
274 861 23
96419 81652 91791 11309 87389 84672 27426 02027 28156 49834
33684 off

10240 27-10-2021 1358 E17z Live. Male operator Ary WED
8080 27-10-2021 1405 E17z Live. Male operator. Including microphone feedback Ary WED
274 861 23
96419 81652 91791 11309 87389 84672 27426 02027 28156 49834
33684 93413 13805 93922 06191 80833 58135 11133 80873 15119
17201 32388 20981
861 23 00000

8080 27-10-2021 1418 E17z USB
Synthesized lady. 11min transmitter test. On/off voice: 274 Ary WED

But it is not only voice transmissions where this has been occurring; Brian wrote in to offer:

'There were also several unscheduled M12 transmissions reported by Edd Smith, Andre & Ary.
12158kHz 0850z 21 Sep Tue
8157kHz 0810z 22 Sep Wed
8148kHz 0850z 22 Sep Wed
All using an '068' ID.

Brian suggested these may not be related – but in all earnest, who knows?

Returning to the V07 transmissions Ary reported a French Language V07 transmisson [designated V07F] kindly made known from Priyom [Thanks indeed]:

V07F

12158 02-10-2021 1600
12153 02-10-2021 1605
11588 02-10-2021 1610
11434 02-10-2021 1615
10643 02-10-2021 1620
10427 02-10-2021 1625

367 367 367 1 7711 2 7711 2
56429 34444 000 000
Returning to the Spanish Language version transmissions were found to be occurring every five minutes as shown; again thanks Ary:

V07

7534kHz0600z 02/10
7649kHz0600z 02/10
8157kHz0600z 02/10
9283kHz0600z 02/10
8148kHz0600z 02/10
8094kHz0600z 02/10

367 367 367 1 4103 1 4103 1
25199 000 000

7534kHz0600z 03/10
7649kHz0605z 03/10
8157kHz0610z 03/10
9283kHz0615z 03/10
8148kHz0620z 03/10
8094kHz0625z 03/10

367 367 367 1 3611 2 3611 2
83543 43218 000 000

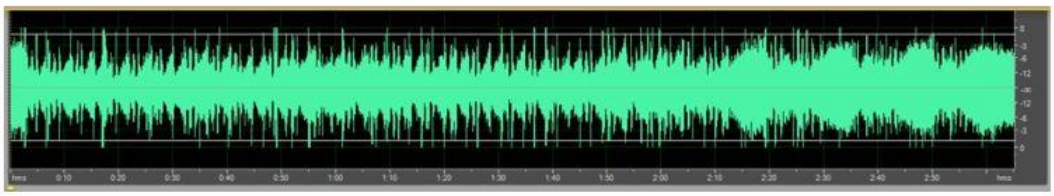
7534kHz0730z 03/10
7649kHz0735z 03/10
8157kHz0740z 03/10
9283kHz0745z 03/10
8148kHz0750z 03/10
8094kHz0755z 03/10

367 367 367 1 6262 1 6262 1
02652 000 000

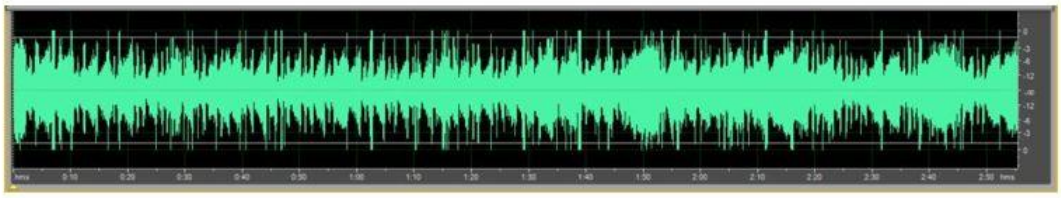
V07

1600z 7534kHz
1605z 7649kHz
1610z 8157kHz
1615z 9283kHz
1620z 8148kHz
1625z 8094kHz

16/12	367 1 5936 1 5936 1 48244 000 000	Ary	SAT
17/10	367 1 5928 1 99932 000 000	Ary	SUN



E07 Spectral Image 7649kHz



V07 Spectral Image 7649kHz

Not much to be seen here to suggest the transmissions are anything but correct; the reasons for the new transmissions may well be other than sending actual messages and more along the lines of a need to over burden those who professionally monitor this stuff and those who apply signals analysis.

[Sent in by E]

It is well known that Russia is taking a lot of diplomatic and other flak from a variety of governments. This happened before with Ukraine and the Crimea matter [2014?]; on this occasion frequencies around 10240kHz were utilised and rebroadcasts of past E07 and M12 stations were heard as well as polytones.

On 7th October RNGB posted:
S06s found using a new male synthesised voice.
Weak tx on 12415kHz
Nothing heard at 1210z on 14212kHz

175 492 5 22272 64385 82606 05234 33526 492 5 00000

This was followed up by Jochen who said “This was live-traffic, not synthesised. You can note this, when you compare the 5 0s at the end, because they are different articulated.”

With additional stations and modes as seen ? Note use of 8157kHz [With thanks to Ary]
Also E06 with slow delivery, passed to Ary by friend, thanks:

11123 16-10-2021 0900 E06
13532 16-10-2021 0930 E06

980 764 31
32911 85927 51038 48901 85738 62349 06571 53751 46224 47416
52428 22271 68090 68608 95318 09560 09620 06274 56687 96348
17020 79220 44411 66238 04375 13213 39051 55700 97361 28322
74335
764 31 00000

XPA1

8157 16-10-2021 1000 XPA1 MFSK-20/10Bd
8157 16-10-2021 1010 XPA1 MFSK-20/10Bd
8157 16-10-2021 1020 XPA1 MFSK-20/10Bd

471 471 471 1 471 471 471 1 471 471 471 1
01699 00051 52816 29968 21493 35904 89052 64511 97166 96183
05336 19113 61332 62280 74748 40833 63173 25791 63484 74739
74375 67841 00877 20699 04373 40990 02535 20317 56270 65611
77838 30630 68940 85424 26524 42567 94773 34152 14001 67872
10369 11594 04961 20106 33902 76517 64846 90182 18201 74398
66708 71231 46417 34023

8157 17-10-2021 1000 XPA1 MFSK-20/10Bd
8157 17-10-2021 1010 XPA1 MFSK-20/10Bd
8157 17-10-2021 1020 XPA1 MFSK-20/10Bd
471 471 471 1 471 471 471 1 471 471 471 1
08442 00067 66219 90831 02312 32472 26494 04819 79604 61887
27916 99468 69715 91378 42633 05275 13500 46234 09133 81544
58192 90685 37716 23700 29927 51305 80820 22571 30470 31061
44432 68917 77526 38504 07996 14114 31791 46404 33403 64217
46921 64460 16774 50611 74550 63960 62049 62574 01792 65667
68190 01314 34863 96387 35861 56534 17383 81038 48331 53153
02783 19485 36073 51925 85093 51555 15094 99452 96285 24613
Courtesy Ary

XPA2 others

8157 17-10-2021 1210 XPA2 MFSK-16/20Bd (AB)
09663 00086 21656 14302 45258 47023 81753 18042 73088 02921
91250 82076 78017 03014 23975 05378 17713 69155 98384 93817
61779 52509 38394 90970 12565 30025 76191 90918 43161 05434
84005 46125 51242 66385 91796 81944 86776 25136 29762 31634
31585 76147 37676 93489 05912 03163 64591 60929 54663 52993
96844 82364 45410 82660 94183 68386 73234 96053 46285 00554
36384 45917 98596 03071 11035 22232 62843 10399 47973 61324
79842 15031 22581 60154 09176 42299 18085 63412 59987 21166
50774 77178 93149 31625 26939 09393 20623 10347 10507
Courtesy Ary

XPB1 [fm Ary]

8157 16-10-2021 0610 XPB1 MKSK-16
8148 16-10-2021 0620 XPB1 MKSK-16
8084 16-10-2021 0625 XPB1 MKSK-16

7534 17-10-2021 1430 XPB1 MFSK-16
7649 17-10-2021 1435 XPB1 MFSK-16
8157 17-10-2021 1440 XPB1 MFSK-16
9238 17-10-2021 1445 XPB1 MFSK-16
8148 17-10-2021 1450 XPB1 MFSK-16
8094 17-10-2021 1455 XPB1 MFSK-16

16306 22-10-2021 0715 XPB1 MFSK-16 Ary FRI
15856 22-10-2021 0720 XPB1 MFSK-16 Ary FRI

8145 22-10-2021 1300 XPB1 MFSK-16 Ary FRI
7751 22-10-2021 1315 XPB1 MFSK-16 Ary FRI
6954 22-10-2021 1320 XPB1 MFSK-16 Ary FRI
Ary noted, "I was unable to find the other frequencies."

7534	22-10-2021 1705	XPB1	MFSK-16		Ary	FRI
6843	22-10-2021 1710	XPB1	MFSK-16		Ary	FRI
5875	22-10-2021 1720	XPB1	MFSK-16		Ary	FRI

XPB1 - MFSK-16, both 16bd and 32bd was used

17462	23-10-2021 0700				Ary	SAT
16306	23-10-2021 0710					
15856	23-10-2021 0720					
20083	23-10-2021 0700					
19309	23-10-2021 0710					
18238	23-10-2021 0720					
17442	23-10-2021 0800					
15825	23-10-2021 1110					
9387	23-10-2021 1410					
9057	23-10-2021 1420					

17462	24-10-2021 0700					
16306	24-10-2021 0710					
15856	24-10-2021 0720					
20083	24-10-2021 0700					
18238	24-10-2021 0720					
17442	24-10-2021 0800					
20658	24-10-2021 0800					
8144	24-10-2021 1300					
7751	24-10-2021 1310					
6954	24-10-2021 1312					
9387	24-10-2021 1410					
9057	24-10-2021 1420					

8136	24-10-2021 1430z				Ary	SUN

11123	26-10-2021 1220	XPB1	MFSK-16		Ary	MON
13545	26-10-2021 1230	XPB1	MFSK-16		Ary	MON

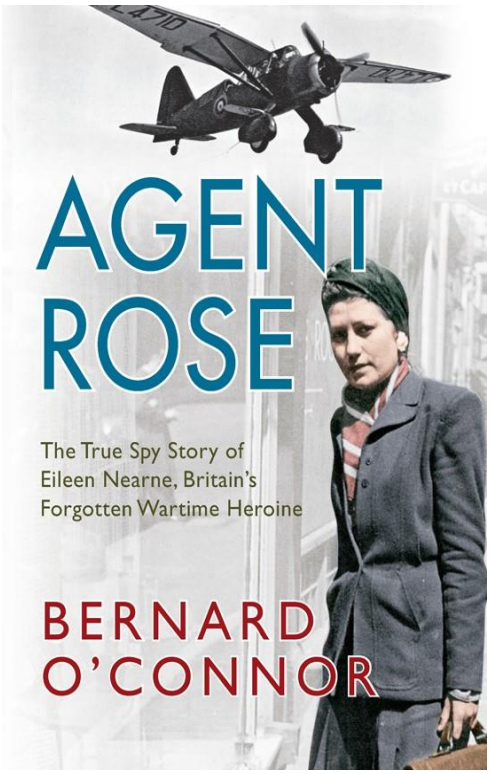
A short occurrence list can be found on our website on the issue of the temporary ‘n90n’ series. It is thought this latest event with V07 and E07 [reported once] is similar.
Obviously if the matter changes then this latest analysis will be disproved; one must remember the thoughts of Daniel and Ary last year concerning an ‘Exercise.’

Remember the Lincolnshire Poacher [E03]?

A recent event involving the clandestine activities of an ENIGMA2000 officer 😊 at a certain Public House/B&B in Lincolnshire [to later scope out a particular fighter bomber] and determine a certain frequency of 190Mc/s resulted in these two images, you'll get the idea.

Thanks DGW05

Book Review



Agent Rose by Bernard O'Connor
Review by BR
On 02 September 2010, the body of an 89 year old woman was discovered in a rented flat in Torquay, Devon. Neighbours knew very little about her. She had been a fairly reclusive person in life. Council officials searching the flat for details of relatives discovered that the woman was Eileen Nearne & that during WWll she had worked as a radio operator in occupied France. Following a local newspaper article on her death about this forgotten hero the story spread, first nationally then worldwide.

The book by its very title claims to tell the story of Eileen, (Didi), Nearne, but very early on in the narrative the author's admission that his publisher was looking for 60,000 words & that he had less than 4,000 words sets the style for this book. Despite much research there is still very little known about Didi's life & activities so much of the book consists of general details of training & operation that was given to all agents at the time Didi was active.

Had this book been written as a general work on how SOE agents were trained & operated, it would have been a more honest & enjoyable read. However, the continual use of 'maybe', 'perhaps', 'possibly' to try to make the narrative fit into the largely unknown activities of Didi made the reading of this book somewhat strained & frustrating at times.

I'm left feeling uncomfortable that this brave woman's name has seemingly been used to market a book to fulfil a demand following the huge media interest that followed her death. Didi was a deeply private person & had no wish to make her story public in life. It may have been better if that wish had been respected following her death.

This will be the last newsletter of 2021; the list owner and moderators particularly wish all those who have contributed throughout 2021, our members, those of N&O and Priyom and all other readers Compliments of the Season.

We start our newsround with something a little different sent in by our NI Asset:

Motorola facing competition inquiry over emergency services radio network

The CMA has launched an investigation amid concerns that the telecoms company could be 'cashing in' on its position.
Motorola is being investigated by the competition watchdog over its Airwave emergency services radio network (Nick Ansell/PA)
By Henry Saker-Clark, PA City Reporter

October 25 2021 11:37 AM

https://www.belfasttelegraph.co.uk/news/uk/motorola-facing-competition-inquiry-over-emergency-services-radio-network-40982235.html

The UK competition watchdog is investigating Motorola's UK emergency services network Airwave.

Bosses at the Competition and Markets Authority (CMA) have launched the probe amid concerns that the telecoms company could be "cashing in" on its position, costing both customers and the taxpayer more than necessary.

Motorola bought Airwave – a mobile radio network used by all UK emergency services to communicate with one another – in February 2016.

The acquisition was cleared by the CMA, with the understanding that the Government would shut down the Airwave network by 2019, but this has now been delayed until the end of 2026.

In July, the regulator said it was consulting over whether to investigate the tech firm over worries about its dual role as both owner of Airwave and as a key supplier for its planned replacement.

On Monday, the CMA said that, after gathering initial evidence, it is concerned that "the market for the supply of the mobile radio network used by all emergency services in Great Britain might not be working well".

It added that this may therefore be "resulting in a more expensive service for customers and, ultimately, the taxpayer".

The watchdog highlighted worries that the Home Office has insufficient information for pricing negotiations, potentially placing it in a weak bargaining position.

The CMA also flagged concerns that Motorola's dual role means it has an incentive to delay or shape the rollout of the new Energy Network Service (ESN) to its advantage.

CMA chief executive Andrea Coscelli said: "As the sole provider of critical mobile radio network services used by our emergency services, we're concerned that Motorola could be cashing in on its position, leaving taxpayers to cover the cost.

"We're now referring this market for a full investigation so that we can thoroughly examine these concerns and, if necessary, take action to address any problems."

We strongly believe that a market investigation is not warranted.

A Motorola Solutions spokeswoman said: "We strongly believe that a market investigation is not warranted.

"The Airwave service delivers exceptional value for money for the UK taxpayer.

"Motorola Solutions has provided price reductions even while making significant investments to maintain the network, which is relied upon by the UK emergency services every day and continues to function at the highest levels.

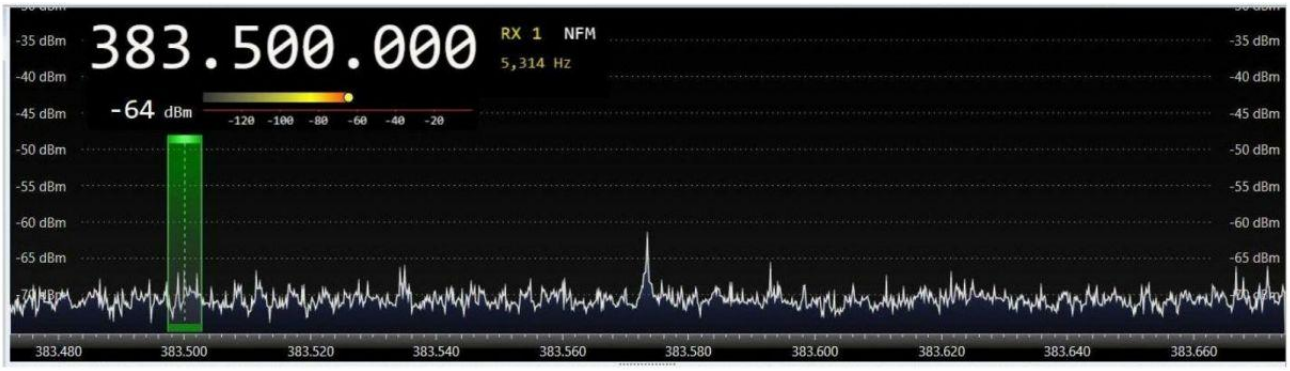
"We reject the assertion that we have an incentive to delay the implementation of the ESN.

"In fact, we continue to deliver on our commitments and invest heavily in the ESN programme and its launch remains our key priority for the benefit of public safety professionals and citizens across the country.

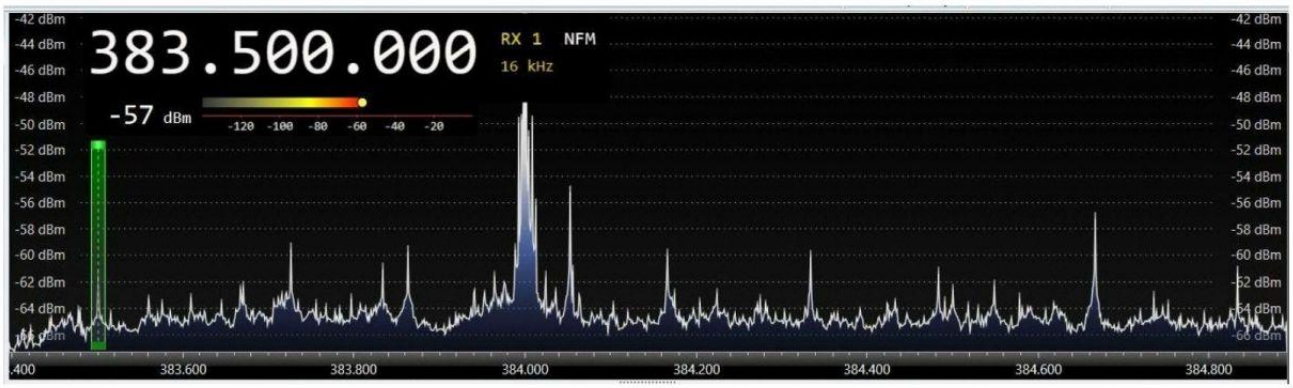
"We look forward to working with the CMA independent group to demonstrate that Motorola Solutions continues to provide exceptional value for the UK emergency services."

https://www.belfasttelegraph.co.uk/news/uk/motorola-facing-competition-inquiry-over-emergency-services-radio-network-40982235.html

NI Asset: Many thanks for info about something when being installed cost very much more than its estimate; its operation likewise to the point officers in some areas/forces were asked to limit its use due to costing. Then, there's the national failure when users had to resort to using mobile phones whilst the system failed December 2020 as illustrated in this first image:



Not a lot of activity to be seen



With Airwave functioning again one can see the variation of signal strength depending on transmitting unit location.

This failure was confirmed in conversation with an officer who was returning SD cards with evidential CCTV of a local crime back to me.

Under investigation? Cash cow? It's an interesting system at least and took away much interest from 'scannerists' who plotted whole analogue systems by frequency and CTCSS use to the point of official interest and that from the tabloids too.

The old Storno VHF system in the METPOL was replaced by a Motorola; at its introduction a Motorola rep was asked [and how did this bloke get into the forum] 'Can it be heard with a scanner?' The reply was 'For each talkgroup you'll need at least eleven scanners.' What a load of piffle because it was soon found the channels could be identified and with judicial use of the scanner squelch and possibly inserting the odd attenuator it was almost business as normal.

Obviously there was need for secrecy and that has been achieved. There's certainly no offence watching the spectrum but for most the technicalities are of no interest and would never replace *exciting* spoken messages and following foot or vehicle chases. A sad but necessary loss to the radio scene.

Police given 'bazookas' to shoot down rogue drones

Constance Kampfner
Wednesday October 27 2021, 12.01am, The Times

https://www.thetimes.co.uk/article/police-given-bazookas-to-shoot-down-rogue-drones-lwh0wqf8q

Police officers in Scotland will be equipped with bazooka-like devices that can fire electromagnetic pulses to down rogue drones during Cop26.

The weapons work by blocking signals from the devices' controllers, and are capable of taking down planes. "There will be Police Scotland officers with EMPs [electromagnetic pulses] stationed around airports including Glasgow and Prestwick," a source told the Scottish Sun.

"They have had extensive training on how to use them safely and effectively. If an unauthorised drone is spotted or picked up by the radar these guys will take them out. The EMPs shoot a ray which then makes the drone think it's been disconnected from its user."

Drones which have been disabled by EMPs will usually have been programmed to land safely or return to their starting points, however some may simply fall out of the sky.

Temporary airspace restrictions, banning the use of drones and hot air balloons, will come into force across large swathes of Scotland at midnight on October 31 and will come to an end late on November 13.

The Civil Aviation Authority and police said the rules would cover Glasgow and the west, parts of Dumfries and Galloway, Argyll and Bute, Stirling and Edinburgh and the Lothians.

A Police Scotland spokeswoman said: "Drones are able to fly in certain areas but it is the pilot's responsibility to fly safely and legally — we would ask all aviators to check the NATS website or Drone Assist app prior to any flight to check the restrictions in their area."

More than 100 world leaders will be attending the climate change conference. Defences are being ramped up across the city.

https://www.thetimes.co.uk/article/police-given-bazookas-to-shoot-down-rogue-drones-lwh0wqf8q

Submarine pact with Australia against China

Larisa Brown
Wednesday September 15 2021, 10.00pm, The Times

https://www.thetimes.co.uk/article/submarine-pact-with-australia-against-china-qnjv9rskn

Britain and the US will help Australia to build nuclear-powered submarines as part of a strategic alliance created in the face of an increasingly provocative China.

In a joint statement, Boris Johnson, President Biden and Scott Morrison, the Australian prime minister, said last night: "We will leverage expertise from the United States and the United Kingdom, building on the two countries' submarine programmes to bring an Australian capability into service at the earliest achievable date."

The pact comes as antagonism between the US and China deepens, with Biden dragooning allies into a more robust posture at a Nato meeting in June. It is likely to cause further friction between China and the West.

The UK considers it to be the most significant capability collaboration signed globally in the last few decades.

Biden heralded Britain's involvement as part of a broader trend of European nations playing a greater role in the Indo-Pacific.

A senior US official said: "Great Britain is very focused on the concept of 'global Britain' and their tilt is about engaging much more deeply with the Indo-Pacific, and this is a down payment on that effort. This alignment is about . . . a new architecture of meetings and engagements among our senior defence and foreign policy officials to share perspectives, to align views.

"But we will also announce efforts to spur co-operation across many new and emerging arenas: cyber, AI — particularly applied AI; quantum technologies; and some undersea capabilities as well . . . You're going to see a much more dedicated effort to pursue integration of security and defence-related science, technology, and industrial bases, and supply chains."

China has been investing billions in its navy and is becoming more aggressive in the region.

Australia is expected to tear up a $90 billion deal with France to receive new diesel-electric submarines in favour of nuclear-driven ones which stay underwater for longer, move faster and are considered to be almost "undiscoverable" by navy experts.

Johnson said that while the three nations were separated geographically, "our interests and values are shared", adding that they were "natural allies".

The prime minister added: "The AUKUS alliance will bring us closer than ever, creating a new defence partnership and driving jobs and prosperity.

He said that it would be "one of the most complex and technically demanding projects in the world" that would last for decades and require the most advanced technology. He said that it would draw on the expertise that the UK had acquired over generations.

Biden said that the nations recognised the "imperative of ensuring peace and stability in the Indo-Pacific over the long term".

It is still unclear which component parts Britain will provide for the submarines, although businesses are expected to win sizeable defence contracts as a result, creating hundreds of highly skilled scientific and engineering jobs. The submarines would typically go about 8 knots faster than diesel-electric vessels. They can sustain that speed indefinitely, whereas a diesel-electric has to recharge its batteries regularly. A diesel-electric submarine also emits exhaust gases which makes it detectable, while a nuclear-powered one is much harder to locate.

Britain has built nuclear-powered submarines for 60 years, with work carried out by Rolls-Royce near Derby and BAE Systems in Barrow-in-Furness, Cumbria. The Royal Australian Navy is already procuring as many as nine of Britain's Type 26 frigates.

Biden was forced to deny reports yesterday that President Xi turned down his invitation to meet after a 90-minute phone call between the leaders last week. The official Xinhua News Agency said that Xi expressed concerns in the call that US policy towards China caused "serious difficulties" in relations.

The Chinese embassy in Washington responded to news of the pact by saying that "countries should shake off their Cold War mentality and ideological prejudice".

On a single day in April, China added three vessels to its navy: a destroyer, an amphibious assault ship and a Jin-class Type 094A ballistic-missile submarine.

Its naval battle force has more than trebled in two decades. The formidable force is conducting operations in more distant waters.

Meanwhile, its relations with Australia — a crucial US ally — are in a downward spiral, with a freeze on high-level diplomatic talks.

It is against this backdrop that Australia turned to the US and the UK to ask for help in building a new fleet of nuclear-powered submarines. The three nations are already part of the Five Eyes intelligence sharing partnership. The new defence and security partnership reflects concern over China's strength and the US's desire to beef up the capabilities of its neighbours.

The pact, to be signed formally in Washington next week, reflects the growing concern over China's military strength and a US desire to beef up the capabilities of its neighbours.

The project will make Australia only the seventh country in the world to have nuclear-powered submarines. Britain has been operating nuclear-powered submarines since the 1960s.

According to Royal Navy sources, they will be a step change in capability compared with the diesel electric submarines that Australia had previously agreed to buy off France. Rolls-Royce, in Derby, could supply the reactors.

The submarines will likely take years to develop but once at sea, they will be able to remain there for long periods of time and travel without detection.

To compare a future Australian navy with China's would be absurd. However, no future conflict would occur without the backing of its allies.

https://www.thetimes.co.uk/article/submarine-pact-with-australia-against-china-qnjv9rskn

Inside abandoned secret torpedo testing station in Cornwall

The doors have been unlocked for an exclusive look inside before it is demolished
ByGreg MartinPhotojournalist
17:23, 25 SEP 2021
NEWS

https://www.cornwalllive.com/news/cornwall-news/gallery/inside-abandoned-secret-torpedo-testing-5966290?utm_source=sharebar&utm_medium=email&utm_campaign=sharebar

Abandoned MOD torpedo testing station at Porthkerris Point in Cornwall (Image: Greg Martin)
In August 2019, CornwallLive were given exclusive access to an abandoned MOD observation post in Cornwall, which, for decades, was used as a secret torpedo testing station.

With new plans for the site, the doors were opened for one last look inside, ahead of its imminent demolition. But now, more than two years later, the mysterious building still stands - its past locked inside.

Behind a high barbed wire fence, the imposing Cold War era building perched on the rocks at a remote cove on the Lizard Peninsula was built by the Ministry of Defence after the Second World War.

Between 1952 and 1993, run by the RAF, the Aircraft Torpedo Development Unit (ATDU) and eventually the Royal Navy, the station at Porthkerris Point functioned as the main control centre for an airborne torpedo testing range off the Cornish coast.

Triangulating with a secondary observation post at Nare Point, both stations recorded the precise trajectories and entry angles of dummy torpedoes as they were dropped into the sea, in the early years from planes, and then from Wessex and Sea King helicopters.

Nevertheless, at the time, the data gathered and the means of recording it were so secret that some rooms were out of bounds even to those who were stationed at the post.

Inside the 18th century bathroom hidden in a Cornish cliff

In more recent years, the three-storey building was used as accommodation for military personnel taking part in diving training exercises and other outward bound activities, but has since been described as "in a significant state of disrepair and is not safe for occupation."

Once inside - after the pages of protocol to unlock the gates and access the building have been strictly followed - the basic kitchen, training rooms, and sleeping quarters which have been used in recent years do not allude to the station's clandestine past.

However, the cylindrical tower sticking out from the south-eastern corner of the building and sealed off with huge, rusting shutters, indicates that not all of the rooms in this station were quite so benign.

Taped onto the door that is the entrance to the round room behind the metal shutters, is a sign that reads 'Out of Bounds'. Its recent addition will have been for health and safety, to keep people staying on the site away from the many hazards inside. But in the years when the room was operational, it was still out of bounds even to some of the personnel working at the station.

One such serviceman who was stationed at Porthkerris, and never saw behind this closed door, is Dave Goodrum, who served in the Navy for 37 years, and is now retired and living nearby in Falmouth.

In 1967, as part of his five year apprenticeship as an artificer in the Navy (artificer is the title used in the armed forces for a skilled engineer,) Dave Goodrum was sent to RNAS Culdrose for nine months of field training. During the summer, he spent around four weeks stationed at Porthkerris, looking after the army radar truck which was positioned on the cliff edge directly above the torpedo range building.

The purpose of the radar truck was to provide radar coverage of the torpedo testing range, an area of water below the high cliffs which, at the time, could not be covered by the existing radar at Culdrose. Radar coverage was essential, especially at night, when many of the torpedo tests were carried out.

Although he was never allowed inside the circular room at the observation post, Dave caught glimpses of it when the shutters were opened and says that this is where a powerful rangefinder camera was used during the tests, to accurately record the performance of the dummy torpedoes, with an overall aim to develop the capability of airborne launched anti-submarine torpedoes.

Underneath the discarded furniture and debris, there is a raised platform in the circular room with metal tracks in the floor and steps leading up to it. This is undoubtedly where the large camera would have been positioned, with a panoramic view of the bay when the metal shutters were opened.

A smaller, secondary observation post with similar curved shutters and the same recording technology was set up at Nare Point, so that the exact speed, direction and position of the torpedoes could be calculated using the data from both stations.

When the MOD shut down the torpedo testing facility in 1993, the range building at Nare Point lay abandoned for over a decade, until it was handed over to the National Coastwatch Institution in 2005, who still use it to keep watch over boats in the bay to this day.

Above the out of bounds circular room, on the third storey of the station, was the Ops Room.

Inside the Ops Room, which was essentially an air traffic control tower, a helicopter controller would stay in contact with the helicopters as they flew into the range with the torpedoes, and could monitor all movements in the bay on a plan position indicator (PPI) radar display (one of those round screens that bip with a flashing dot), which was fed directly from the radar truck on the cliff top.

After the dummy torpedoes were dropped and reached their intended position underwater, they would jettison lead weights from inside the torpedo heads, so that the torpedoes would then float to the surface, ready to be recovered by Navy boats.

These boats would then bring the recovered torpedoes back to the station at Porthkerris, where there are steps leading down to the sea.

Torpedo tests did not happen every day, and even in his short time at Porthkerris, Dave Goodrum admits to having plenty of free time to 'laze around on the beach and do a spot of fishing' during what he remembers to be a pretty good summer. Thinking back to those days, Dave says smiling: "It was a very good number for us!"

However, he does remember one night which was not quite so relaxing. During an operation, one of the large Wessex helicopters got a technical warning, meaning that the pilot had to put it down immediately.

Rather than ditching it in the sea, he decided to land it within the small compound of the station. At 2am, in almost complete darkness, Dave and his fellow radio man, guided the helicopter in and safely landed it next to the building. When they went out in the morning to see it, they realised they had done it with only about two foot of clearance room around it.

Eventually, the radar truck on the cliff top that Dave Goodrum had looked after during the summer of '67, was replaced by a more permanent radar building slightly further inland, which still fed directly into the station at Porthkerris Point.

After the torpedo testing operations ceased at Porthkerris in the nineties, the building continued to be used by the armed forces for diving, which the cove is now well-known for.

In 2019, pre-application advice was sought to demolish the abandoned torpedo testing station and replace it with a brand new, single story building specifically designed 'to provide improved sleeping and dining facilities capable of serving a wider range of naval personnel including younger and older family members plus those with disabilities.'

However, within the advice offered by Cornwall Council's Principle Development Officer, it was highlighted that the "Historic Environment Service has commented that the existing building is a Cold War observation post recorded in the HER (MCO43114) and would oppose its demolition in the absence of justification within a Heritage Statement assessing its significance."

The MOD observation post at Porthkerris is one of the last remaining torpedo testing stations in the country.

The pre-application form confirms that 'the building will remain an MOD asset providing facilities for military personnel.' However, if and when it is built, it is unlikely that whatever happens in the new building, will be quite so secretive.

https://www.cornwalllive.com/news/cornwall-news/gallery/inside-abandoned-secret-torpedo-testing-5966290?utm_source=sharebar&utm_medium=email&utm_campaign=sharebar

Well worth looking at original article for the imagery

Spying Diplomats

On 11th July 2011 the then British Foreign Secretary William Hague announced that he was calling for five Libyan Diplomats to be expelled from Britain because their presence 'posed a threat to national security.'
This action had been announced in Parliament by Hague, "To underline our grave concern at the regime's behaviour, ... we have today taken steps to expel five diplomats at the Libyan embassy in London, including the military attache," The diplomats were given seven days to leave British shores.

This action was made as Britain and other nations intervened in the governing of Libya by Muammar Gaddafi and feasibly against warnings that to remove Gaddafi may open a Pandora's Box of terror and dissent.

This act of expelling diplomats is not new. Britain expelled ninety Russian Diplomats on 25th September, 1971 after an in-depth investigation by MI5, MI6 and MI7 officers aided by the defection of a KGB officer holding the rank of Major who worked under the cover as a diplomat. What he told MI5 officers left no doubt as to the accuracy of their product from months of an intensive investigation.

The then Foreign Secretary, Sir Alec Douglas-Home had previously written two courteous and personal letters over this matter which were never answered; the lack of an answer angering the then Prime Minister Edward Heath.

In addition to the ninety diplomats, many employed within the embassy but others in the Trade Delegation, Moscow Narodny Bank, Intourist, Aeroflot and AMO Plant another 15 diplomats who were outside of the British Isles had their visas cancelled to deny their planned re-entry to Britain.

It was believed that Russian spies had been gathering information necessary to disrupt communications and transport along with destruction of power and water supplies. It was also feared that spy rings had been formed around such military sites as Adermaston [atomic weaponry], Orfordness [over the horizon radar tests] and Portland Admiralty Underwater Weapons Establishment.

Such a belief would have been fuelled by the previous arrests of the Portland Spy Ring [Peter and Helen Kroger, Gordon Lonsdale, Harry Houghton and Ethel 'Bunty' Gee] in 1961 and RAF Chief Technician Douglas Britten arrested in 1968 for passing secrets to his handler whilst working in a SIGINT Unit in Britain and whilst overseas.

The Major who defected and gave important information to Security Officers was named as Oleg Lyalin, who was aged 35 at the time and was arrested on suspicion of driving whilst under the influence of alcohol. Lyalin was having an affair with his secretary Irina Teplyakova who also defected. It was during his arrest that Major Lyalin decided to ask for help from MI5. After matters had settled the couple moved quietly to the seaside town of Bournemouth, changed identities and married. Oleg Lyalin passed away in February 1995.

These activities took place against the Cold war backdrop and the almost mythical struggle of the Free West against the evil intent of 'Iron Curtain' Russia and the countries that supported it or fell within the Union of Soviet Socialist Republic and whilst this game has been played for decades a more modern setting shows it exists on both sides of whatever divide is crossed.

In 1963 the public at large was treated to a scandal that involved a society osteopath, a Minister for War, a Viscount, two Caribbean 'musicians,' a pair of good time girls and a Russian spy. The effect of this scandal was such that it ultimately destroyed Prime Minister Harold Macmillan's government, the career of Jack Profumo – the Minister for War – and caused the defendant in a subsequent trial for 'Living on Immoral Earnings,' Stephen Ward to commit suicide.

The two girls involved in this affair were Christine Keeler and the late Mandy Rice-Davies. It was Keeler who was sleeping with Jack Profumo at the same time she was sleeping with a Russian diplomat, the now late Evegni Ivanov. Both persons were introduced to Christine Keeler by osteopath Stephen Ward and bature took its course.
Unfortunately for all parties involved Evegni Ivanov was no ordinary diplomat; he was the Assistant Soviet Naval Attaché. Not only that but he lived at 16 Kensington Palace Gardens, London W8. This street, known locally as KPG is home to several billionaires and more importantly a host of Embassies, including the Russian Embassy which is number 5 KPG.

The address used by Ivanov, whilst sounding somewhat innocent, was in fact an operational installation of Soviet Russia and judging by the antennae that abounded around the building, vertical HF and VHF rods, and the VGDSh cage antenna widely used by Soviet installations and their supporters, the building was at least a communications hub for its nearby embassy, or more probably a SIGINT/ELINT, signals or electronic intelligence intercept site.

Russian Diplomatic Facility
16 Kensington Palace Gardens
London W8 (circa 1997)

As seen on cover of En117 and also where PLdn was chased off from whilst photographing a satellite dish inside the grounds [when I could run]!

Indeed, Peter Wright makes mention of this building and the Embassy when employing RAFTER [utilised the product of the received frequency plus or minus the Intermediate Frequency stage of the target receiver] to listen to or determine what frequency the Embassy or 16KPG were listening. The now late Peter Wright and late Tony Sale [rebuild of Colossus Computer at Bletchley Park] some years earlier, in 1958, used a modified bakers van to make a number of passes to determine what frequencies were being used by Moscow Centre to contact Soviet Agents in London with their 'allo or Number Station message. RAFTER was also used to provide evidence in the arrest of a man named Linney who was working for the RAF on missile simulators and passing certain items of interest on to his Soviet masters.

The MI5 watchers, who at the time operated their communications in a band of frequencies termed 'P' Band that fell in the middle of the then emergent, but now common VHF FM broadcast band 88 to 108MHz, were proven to being monitored by the Russian facility by the RAFTER method. The signals then employed by both MI5 and the Metropolitan Police 'main set' transmissions used a split frequencies for transmission within 82 to 84MHz also.

At the time there was a claim and more lately strongly denied by Keeler, that she had been asked by Ivanov to ask the Minister for War certain details about Britain's nuclear deterrents.

Russia was not alone in using diplomatic cover for espionage activities; as late as May 2013 Russian authorities caught a US Diplomat allegedly spying. The diplomat in question was Ryan Christopher Fogle working as a Third Secretary at the US Embassy, Moscow. Intercepted by the FSB, allegedly on his way to meet and recruit a Russian to spy for the CIA, certain items associated with espionage were confiscated at the time of his arrest. After being detained overnight, Fogle was expelled from Russia the very next day.

For America the worst discovery of some of its diplomats activities came on two events involving forced entry to its embassies; one was in Saigon, Vietnam where CIA files, insufficiently shredded and left unsullied in burn bags were subsequently reconstructed.
These files not only showed the full extent of US espionage but gave the emergent government the name of its citizens who had not only helped the US in its actions against the Vietcong but were also left to their fate.

There was, at least, one US agent working in the Vietcong controlled north who was successfully removed to safety but also received his instruction via a US transmitted OWVC – one-way voice channel – or better known as a Number Station.

The other was the forced entry of the US Embassy in Iran by 'students' who were loyal to Ayatollah Khomeini during which most of the embassy staff were held prisoner for 444 days. During that time the embassy was searched and files, intact or shredded were analysed as was the cryptological, radio and associated equipment leading to the conclusion that the US Embassy in Tehran was a 'Nest of Spies.'

MI5 in Britain announced that the level of Russian spies in the UK was at 'Cold War levels' but equally one could also say that China too will have increased its interest in Britain. Adverts for Russian and Chinese language analysts perhaps reflect this worry. Whilst military matters will be of interest of greater interest will be financial movements and energy supplies. However, matter in the Ukraine may well have made the search for additional supplies from elsewhere to safeguard the level of supply should the 2% of natural gas supplied by Russia become threatened.

[*Only 2% - from what newspapers are saying 20/09/2021 you'd think its 100% given the predicted effects of the media from Cde Putin's geopolitical movements at the moment*]!

Sweden, the home of the original 'Whiskey on the Rocks' scandal on 27th October 1981 when a Russian Whiskey Class submarine S363 ran aground some 10km away from the Swedish Naval Base at Karlskrona.
Whilst this event was merely a maritime accident the Swedish navy used advanced techniques to determine that the boat was carrying at least one nuclear warhead and a standoff developed as to the return, or not, of the stricken vessel to Russian control. The boat was eventually towed off the rocks and out to sea but not before radar emissions were operated in frequency hopping mode and radio jamming took place. The view from the Swedish government was that their coastline was being regularly penetrated.

Thirty three years later, on Sweden's Baltic coast a lone male, dressed in black and carrying a back pack was seen and disappeared out of view. This prompted a search for the elusive Russian submarine since it was thought this person was a spy being picked up by a Russian submarine. Helpfully the Russian Defence Ministry denied any Russian Naval activities in the area; whether that was just useful propaganda is not known but TASS, the official Russian News Agency made a noticeable media release.

Perhaps not wishing to be outdone the Swedish Security Service, SAPO, recently claimed that Russia is the biggest intelligence threat against Sweden. Going further they stated that one in three of accredited diplomats in Russia's consulate and embassy in Gothenburg are engaged in a variety of espionage taks against Sweden.

Like the concerns stated by MI5 China is also active in Sweden along with Iranian operatives also.

Sweden has invested in advanced technology, some of which can undoubtedly be seen in the five corvettes of the Visby class vessel, capable of stealth mode and powered by waterjets each is capable of a speed in excess of 35 knots. One of the features of the craft is its lightness being constructed using sandwiched composites.

With futuristic naval craft one can at least see why other nations would be interested is such technology; that Russia is perhaps enthusiastic is no surprise whatsoever.
From the files of PLdn

CIA agent suffers 'Havana syndrome'

The Times30 Sep 2021David Charter Washington

A CIA agent in Serbia is believed to have suffered a directed-energy attack after experiencing symptoms consistent with the condition known as "Havana syndrome" that has affected 200 US officials worldwide.

The removal of the agent from Serbia follows recent suspected cases in Austria, Germany, India and Vietnam that have led to growing frustration among US diplomats and spies.

As research continues into the cause of complaints such as dizziness, headaches, nausea and ringing sounds, the rise in cases is said to be sapping morale among intelligence staff and depressing interest in serving overseas.

Congress unanimously passed a bill last week to provide healthcare for officials complaining of Havana syndrome.

"In the past 60 to 90 days there have been a number of other reported cases" in the US and globally, James Giordano, a Georgetown University professor of neurology, told The Wall Street Journal.

Marc Polymeropoulos, a veteran CIA officer who retired in 2019 after persistent symptoms following a 2017 visit to Moscow, added: "The lights are blinking red now. This is a crisis for ... officers overseas."

Havana syndrome was named after two dozen US spies and diplomats became unwell in the Cuban capital in 2016. Investigators believe that there are too many cases for it to be a coincidence but some researchers maintain that they represent a kind of hysteria.

William Burns, the CIA director, has appointed a veteran of the agency's hunt for Osama bin Laden to lead a task force seeking the cause and tripled the number of staff focused on the issue.

When Burns visited India this month a member of his team reported symptoms and received medical treatment.

Kamala Harris, the vice-president, temporarily delayed her arrival in Vietnam last month after the State Department reported a "possible anomalous health incident", the US government's formal name for Havana syndrome. Suspicion has fallen on Russia's military-intelligence unit, the GRU, because of its technological capabilities and its suspected presence in countries where cases have occurred. Moscow has denied any involvement.

Giordano said that the cause could be a rapidly pulsed microwave, a form of ultrasonic or acoustic device or a laser.

In July two dozen American officials developed unexplained illnesses resembling Havana syndrome in Vienna.

In August it was reported that two officials at the US embassy in Berlin who complained of Havana syndrome were working on projects relating to Russia. One female member of staff in the team defending against Russian cyberattacks and a male staff member working on the Nord Stream 2 pipeline were sent back to the US, Bild reported.

Another patient from Europe who returned to the Walter Reed military hospital in Maryland said doctors diagnosed a brain injury similar to exposure to the shock waves from explosions.

From The Times

Now onto the Intercepts ……..

If you have not already done so, please read the Editorial/Intros

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.

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UNID CW

An Unusual Series of Continuous Cyrillic 5-Letter Groups Appear Suddenly from the Moscow Area.

First Report – 8230kHz:

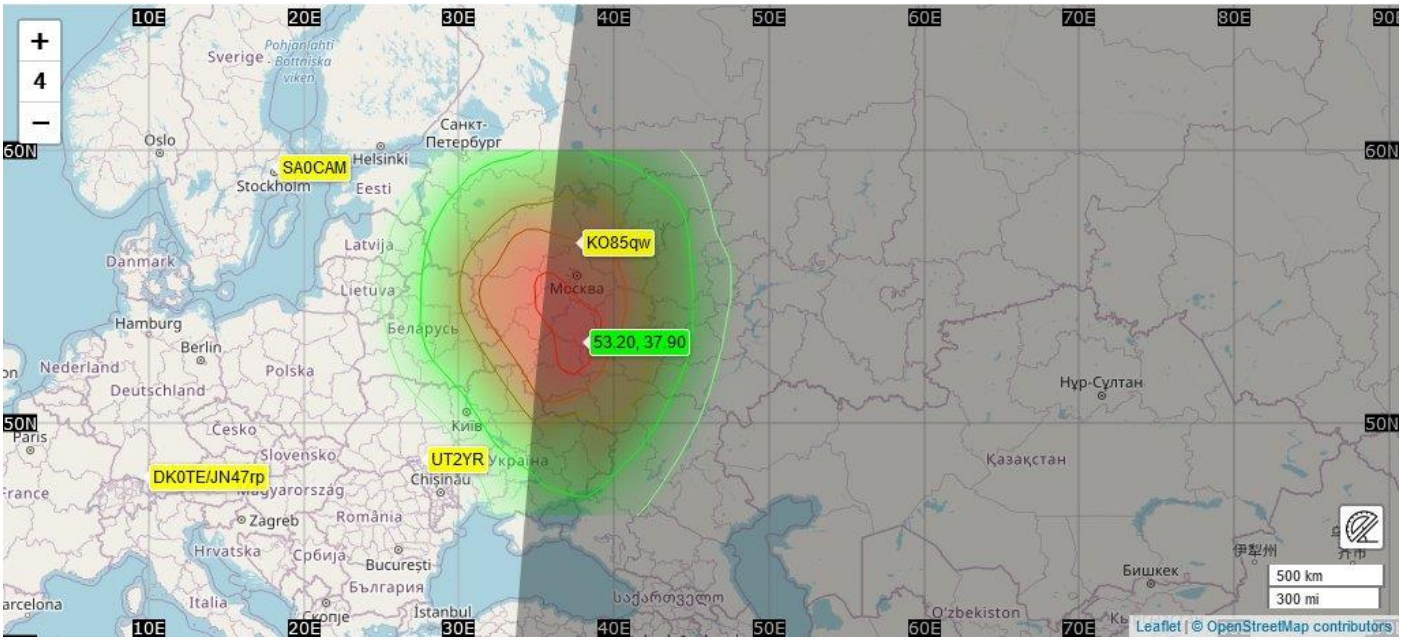
First reported at 1439z, in progress, on 14 September with a very strong signal into S.E. England, sending continuous, fast 5-letter Cyrillic groups with no pauses, headers or identification. The speed & use of continuous groups makes it sound very much like a Cyrillic version of M51.

This was picked up by a number of members & was shown to be a very strong signal in the UK, the Netherlands & Germany.

Later information provided by Ary, (AB), showed that the transmission started at 1325z on Tuesday, 14 September & ceased at 0625z on Wednesday, 15 September, but had previously been present on 8250 kHz on Monday night, 13 September before switching to 8230 kHz.

8230	1325 – 0625z	14/15 Sep	5-Ltr Cyrillic continuous groups with no pauses, headers or identification	TUE

The reason for the transmission is unknown, but most likely Morse training or possibly searching or direction finding exercise. Ary, (AB), reports the origin of the signal as the Moscow area which is convincingly confirmed by this excellent DF result supplied by Gert using the online kiwi-sdr receivers TDoA function.



Result of TDoA DF using Kiwi-SDR Receivers *Courtesy Gert*

Second Appearance – 9000/9001/9002kHz:

The transmissions reappeared on 07 October, found by Gert, in progress at 1700z, using three carriers on 9000, 9001 & 9002 kHz, with strong signals of S9+20db into the Netherlands.

9000//9001//9002	1700z (IP) - 0700z	07/08 October	5-Ltr Cyrillic continuous groups with no pauses, headers or identification	THU

Logged by BR in the UK, still going at 0127z on 08 October, but now weak on Twente, (was very strong around 1900z). Strongest frequency 9001kHz with weaker sigs on 9002 & 9003, as reported.

Andre, F5JBR, confirmed frequencies of 9001, 9002 & 9003 with a 599 + 10db in France & 599 + 30db via Finnish SDR. Despite searches between 2 – 18 MHz no simulcast transmissions were found.

Gert reports the transmission ended at 0700z on 08 October – A continuous transmission of 14 hours from first log of signal in progress.

Third Appearance – 12320kHz:

12320	1833z (IP)	13/14 Oct	5-Ltr Cyrillic continuous groups with no pauses, headers or identification	WED

Once again reported with a very strong signal into the UK & Europe, fading during the late hours. Confirmed still active at 0600z on 14 October.

PoSW also monitored this unusual M12 activity.

On several occasions in September and October some very strong CW was noted, on various frequencies, mainly 5-letter groups with occasional punctuation symbols, in fact very similar to the traffic heard from the French CW station on 6825 and 3881:-

14-Sept-21, Tuesday:- 1831 UTC, 8230 kHz, extremely strong CW, S9+ and then some, groups as described above, checked with two receivers and was not in parallel with the French CW on 3881 which was a good signal at this time. Continuous with no breaks or pauses. Checked from time to time throughout the evening and was always on, still strong at 2200 UTC.

15-Sept-21, Wednesday:- 0535 UTC, early morning check, still on with a very strong signal. However, had gone when monitored at 0625z, not heard on this

01-Oct-21, Friday:- 0658 UTC, 11301 kHz, strong CW similar to the above, keyed carrier lightly modulated with an audio tone, still on at 0720z, gone when checked at 0745.

07-Oct-21, Thursday:- 1504 UTC, 9001 kHz, strong CW as above, again lightly modulated with tone. Still on throughout the rest of the day, going strong at 2105z.

08-Oct-21, Friday:- Still on when checked at 0535 UTC, not quite as strong as the previous evening but was stronger at 0640z, well over S9. Had gone when checked at 0740z.

26-Oct-21, Tuesday:- 1509 UTC, 10381 kHz, strong CW with 5-letter groups, keyed carrier with low-level tone modulation, checked several times throughout the rest of the day, still on at 1920z although weaker than earlier, gone when checked at 2040z.

29-Oct-21, Friday:- 1239 UTC, 12101 kHz, very strong CW with similar format to the above, no sign of any audio tone modulation on the keyed carrier. Checked at roughly one hour intervals and was always on with a strong signal. Was still going strong at 1835 UTC but had gone when checked at 1950.
This frequency is inside the 25 metre broadcast band and when checked on the following morning, Saturday 30-October just after 0800 UTC there was a strong station on 12100 kHz – The Overcomer Ministry with preacher Brother Stair in full flow, a remarkable performance considering he died earlier this year.

(Thanks for the detailed logs, as usual, Peter. Indeed, Brother Stair's demise does not seem to have prevented his ability to broadcast!)

Cyrillic Morse:
The majority of Cyrillic Morse letters have Latin approximations based on similar sounding letters. There are, however, four characters used that have no equivalent & the presence of these will allow the listener to identify the Morse as Cyrillic. These are;

Ш CH ▬▬▬▬ Ю Ü ..▬▬ Я Ä .▬.▬ Ч Ö ▬▬▬.

Thanks to AB, BR, F5JBR, Gary, Gert, Jochen_Kopf & PoSW for logs, info & comments.

[I might add it's been a few years since DoK/G3LKO passing. If only he had waited – a good Morse man, trained at the expense of the RAF as an intercept operator he relished the Cyrillic characters even when taking text at near 40wpm. We'll likely not seem those skills too often nowadays]

Morse - Number Stations

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

Use of the variant formats appears to have largely ceased – At least for now. Four variant formats have been identified.

Standard Format:	197 (R4m) 117 117 30 30 = = 93447 .... 20478 = = 117 117 30 30 000	(Still the most commonly used format)
Variant Format 1:	197 (R4m) 147/30 147/30 78902 ... 86083 147/30 000	(Not in use)
Variant Format 2:	197 (R4m) 521=30 = = 521=30 = = 46547 ... 88305 = 521=30 = = 521=30 0=0=0	(Not in use)
Variant Format 3:	463 (R4m) 127 30 = = = = 84820 ... 82607 = = = = 127 127 30 30 000	(Last used 2019)
Variant Format 4:	197 (R4m) 589 589 = 30 30 = = 40728 .... 58918 = = 589 589 = 30 30 000	(Used in Jan/Feb & Sep/Oct 2021)

The Format 4 variant makes a reappearance & was used a number of times in the September & October period, last seen in January & February of this year.

A new development first noted in July 2021 is the occasional change to the ending where 0.0.0. is sent using periods in place of the usual 000. Also, on 11 Sep, 16 Sep & 28 Sep, 6 x 'dits' were sent instead of the period character between the ending short zeros.

In September, a number of transmissions carried the incorrect call-up, with '025' used in place of the correct '463'.

September 2021:

5020	2000z	02 Sep	**'025'** 581 30 = = ... … 73485 = = Fair. Fast. Sent incorrect call-up. Numerous errors	BR	THU
	2000z	07 Sep	**'025'** 291 = 30 = = ... … . 9565 = = Weak. Poor copy. Ended 0.0.0 Format 4	BR	TUE
	2000z	09 Sep	**'025'** Very weak. Mostly unreadable. Ended 0.0.0.	BR/HFD	THU
	2000z	14 Sep	**'025' then '463'** 671 30 = = 84732 … 63382 = = Fair, fast. Several errors noted.	BR/HFD	TUE
	2000z	16 Sep	'463' 387 30 = = 46573 … 12386 = = Weak/Fair, fast. Numerous errors. Ending 0 [six dits](x3)	BR/HFD	THU
	2000z	21 Sep	'465' 619 30 = = 09128 … 45687 = = Weak/fair, fast. With errors. Call-up sent as 465 vs 463.	BR	TUE
	2000z	23 Sep	554 30 = = ... … 4 . .87 = = Weak, very fast. Poor copy	BR	THU
	2000z	28 Sep	'463' 925 30 = = 47285 … 71846 = = Weak, very fast. With errors. Ended 0 [six dits](x3)	BR	TUE
	2000z	30 Sep	'463' 183 30 = = ... … 05638 = = Weak, fast. Number of grps joined with no pauses	BR	THU
5475	1800z	02 Sep	35789 = = Fair via Twente, fast Missed start. Ended 0.0.0.	BR	THU
	1800z	14 Sep	**'025' then '925'** 653 30 = = 64738 … 94734 = = Fair, very fast. Several errors noted.	BR	TUE
	1800z	16 Sep	'463' 543 30 13467 … 90586 Fair/Good, fast. Error grp21. = = omitted from ending	AB/BR/HFD	THU
	1800z	21 Sep	**'465'** 404 30 = = = 66066 … 65787 = = = Fair, fast. With errors. Call-up sent as 465 vs 463.	BR	TUE
	1800z	23 Sep	'463' 973 30 = = 36 . . . … 49650 = = Fair via Twente, very fast. Ended 0.0.0.	BR	THU
	1800z	28 Sep	'463' 351 30 = = 36473 … 74925 = = Weak/Fair, med-fast. Corrected error grp11	BR	TUE
	1800z	30 Sep	'463' 620 30 = = 84920 … 96480 = = Weak/Fair, fast. Nigh noise. Poor copy	BR	THU
6260	1500z	04 Sep	'463' 528 30 = = 47285 … 67017 = = Weak/fair. Heavy QSB. No errors noted (Via Twente)	BR	SAT
	1500z	11 Sep	'463' 571 30 = = 36452 … 64736 = = Fast. With errors. Ended with 0 [six dits] (x3)	AB/BR/HFD	SAT
	1500z	18 Sep	'463' 911 30 = = 33945 … 47366 = = Fair, fast. Several errors noted	AB/BR	SAT
	1500z	25 Sep	'463' 980 30 = = 89372 … 30195 = = Fair, med-fast. Excellent Morse. No errors	BR	SAT
	1500z	30 Oct	'463' 740 30 = = 45643 … 45696 = = Weak/fair. Very fast. Extra 4 between ending DKs	BR	SAT
6510	0700z	12 Sep	'463' 588 30 = = 46573 … 85734 = =	AB	SUN
	0700z	19 Sep	'463' 358 30 = = 30782 … 28943 = = Started fair faded to weak. Many grps with no pauses	BR	SUN

October 2021:

5020	2000z	05 Oct	'463' 408 30 = = 68097 … 78787 = = Weak/Fair, fast. Poor copy. Part msg repeated?	BR	TUE
	2000z	12 Oct	'463' 465 30 = = 35465 … 46578 = = Weak/Fair, fast. Difficult copy at times due to QSB	BR	TUE
	2000z	14 Oct	Very weak – No useful copy	BR	THU
	2000z	19 Oct	'463' 860 30 = = 98456 … 60708 = = Good, fast. Excellent Morse. No errors. Perfect sending	BR	TUE
	2000z	21 Oct	'463' 151 30 = = 12321 … 65456 = = Weak/Fair, fast. Poor copy. Many grps using few numbers	BR	THU
	2000z	26 Oct	'463' 707 30 = = 09089 … 76889 = = Weak, fast. No errors noted. Via Twente – V.weak in UK	BR	TUE
5475	1800z	05 Oct	'463' 323 30 = = 32094 … 87923 = = Fair, fast. Errors noted. Gps using 12345 45678 noted	BR	TUE
	1800z	07 Oct	'463' 878 = 30 = = 93054 … 18256 = = Fair, fast. Many very similar grps. Format 4	BR	THU
	1800z	12 Oct	'463' 221 = 30 = = 46537 … 38676 = = Weak, med-fast. Format 4 format used at start of msg.	BR	TUE
	1800z	21 Oct	'463' 150 = 30 = = 12321 … 54345 = = Weak/Fair, Fast. Poor copy Format 4	BR	THU
	1800z	26 Oct	'463' 547 30 = = 64756 … 36098 = = Weak, fast. Two errors noted. Via Twente – V.weak in UK	BR	TUE
6260	1500z	02 Oct	'463' 115 = 30 = = 21345 … 76896 = = Fair, fast. One repeat error noted. Format 4	BR	SAT
	1500z	09 Oct	'463' 828 30 = = 36524 … 36547 = = Fair, fast. Several errors. Pause before ending DK GC	BR	SAT
	1500z	23 Oct	'463' 163 30 = = 64523 … 27451 = = Fair, fast. Excellent Morse. One noted error grp07	BR	SAT
6510	0700z	03 Oct	'463' 545 30 = = 10938 … 84732 = = Fair, med-fast. Excellent Morse. No errors	BR	SUN

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

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

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

4028	0755z	10 Sep	676 (x4) 111 000		F5JBR	FRI
4498	0825z	10 Sep	333 60761 (x3) 333 60478		F5JBR	FRI
4932	0837z	10 Sep	111 999 103 10 = 34309 … 53261 19574 74299 21002 28972 = 103 10 111 000	(Via SDR Finland)	F5JBR	FRI
4886	1305 – 1309z	10 Sep	683 000 (x3)		F5JBR	FRI
4824	1322 – 1329z	10 Sep	613 000 (x4)	(Via SDR Finland)	F5JBR	FRI
4808	1333z	10 Sep	738 (x3) 20463 (x2) 333 20450 (x2) 111 999 187 10 = 77322 09242 23599 44430 74886 37366 08645 12952 67142 15899 = 187 10 111 = 44430 111 000	(Via SDR Finland)	F5JBR	FRI
4227	1350z	10 Sep	407 (x3) 49760 (x2) 111 000	(Via SDR Finland)	F5JBR	FRI
4498	1405z (IP)	10 Sep	…. 93511 111 333 (x2) 333 61915 (x2) 333 61915 (x2) 333 61915 (x2) 436 61915 (x2)	(Via SDR Finland)	F5JBR	FRI
4542	1409 - 1412z	10 Sep	433 (x3) 65939 (x2) 111 000	(Via SDR Finland)	F5JBR	FRI
4574	1422z	10 Sep	593 593 593 000 (x3)	(Via SDR Finland)	F5JBR	FRI
4542	0815 - 0825z	11 Sep	433 (x3) 65778 (x2) 111 433 (x3) 65815 (x2) 111 111 000		F5JBR	SAT
4976	1250z	13 Sep	111 999 098 10 = 75124 02301 74102 43625 56763 45656 87978 87907 34245 85631 = 098 10 111 000		F5JBR	MON
4282	1311z	13 Sep	903 (x3) 16360 (x2) 903 (x3) 16379 (x2)		F5JBR	MON
4227	1436z	13 Sep	074 (x3) 28158 (x2) 111		F5JBR	MON
4117	1440z	13 Sep	111 333 22 111 000		F5JBR	MON
4012	1644z	13 Sep	111 333 118 333 111 333 120 111 333 121 111 333 129 111 333 133 111 333 137 333 137 111 3333 140 111 333 144 333 144 111 000 111 000		F5JBR	MON
5898	0652z (IP)	14 Sep	In progress. Groups 5 Figures = 423 15 111 000		F5JBR	TUE
5898	0702z 273	14 Sep	273 (x3) 63578 (x2) 111 999 647 12 = 56811 63604 52091 72704 83832 89920 51379 41745 57137 66085 22560 45615 = 647 12 111 000		F5JBR	TUE

6798	0900z	750	14 Sep	750 (x3) 37311 (x2) 750 (x3) 37561 (x2)	F5JBR	TUE
4641	0835z		17 Sep	333 111 = 03611 54205 85631 111 000	F5JBR	FRI
4641	0907z		17 Sep	111 999 349 10 = 45120 24561 14523 64852 77117 75361 12109 86102 75423 45957 = 349 10 111 000	F5JBR	FRI
4641	0920z		17 Sep	375 (x3) 82340 (x2) 375 (x3) 111 111 999 985 10 = 14230 43625 56763 35656 88978 87907 34245 23421 46588 12342 = 985 10 111 000	F5JBR	FRI
4836	0943z		17 Sep	182 (x3) 17918 (x2) 182 (x3) 17041 (x2) 111 999 830 10 = 09854 14230 75423 45957 24851 14230 24654 12345 32141 67657 = 830 10 111 000	F5JBR	FRI
5106.1	1557 (IP) - 1700z		22 Sep	Training Log (Fair via SDR Silec, Poland)	E.SMITH	WED

Machine sent slowly with good timing. * = Operator error.

597 (x3) 111
111 02059 02059
333 04349 04349 (Rx5)
333 00672 00672 (Rx5)
333 01472 01472 (Rx3)
333 05961 05961 (Rx6)
[Switched to hand sent]
597 (x3) 333 06368 06368 (Rx8)
597 (x3) 333 09464 09464 (Rx8)
111 999
98518 = 54679 58023 38* 39087 00062 7*
*1 99501
9642 99
111
98518 = 54679 58023 38951 49087 00062 78349 71852 87551 99501 34588
21195 69642 99365 62750 97998 51861 63477 29998 = 985 18
111 54679
111 99501 34588
111 29998
111 999
8751 = 28595 = 8751
040 02
597 (x5) 333 145 (x4)
597 (x3) 18386 18386 (Rx8)
040 02 (x2)

Switches back to hand keying. Judging by the slow amateur keying start and then sudden speed increase I would say it was a previously recorded sample. Playback of hand sent recordings can be common in the Tuesday to Friday Schedule.

040 02 (Rx2)
597 (Rx5)
111 0 0 0

After a fifteen minute pause in activity M32a traffic sends on this this frequency.

V V V RFX42...

Recorder left on until 1930z, no more M01a traffic was sent.

5221	0721x		08 Oct	123 123 123 73872 73979 123 123 123 73979 73979 123 123 73979 73979 123 123 123 73397 73397 123 123 123 71497 73497 123 123 123 73497 73497 123 123 73497 123 123 123 73497 73497 123 123 123 000	AB	FRI

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.

Out of Course Transmissions (Unscheduled)

More unscheduled transmissions from M12 logged by our Morse team on 21 & 22 September. First we have this intercept by Edd Smith who reports that this transmission on 12158 kHz was sent 40 minutes after an X06 transmission logged 1 kHz lower on 12157 kHz. Whether there is any connection between the X06 & M12 transmissions is unknown.

12157	0759 – 0810z	21 Sep	X06 (In progress) 165423	(Via SDR Eschende)	USB	E.SMITH	TUE
12158	0850 - 0912z	21 Sep	068 1 (9838 240) 79117 23394 … 45009 90012 000 000	(Via SDR Eschende)	CW	E.SMITH	TUE

068 (x3) 1 *[43secs]* 068 (x3) 1 *[40secs]* 068 (x3) 1 *[41secs]* 068 (x3) 1 *[21secs]*
068 1 [Rx2m20s] 9838 240 9838 240
79117 23394 85428 33030 42586 89684 54480 60416 85978 63392 58945 44248 37458 30621 28962 83700 45758 75025 27023 10494
57179 69217 16234 80960 80469 58621 78855 73961 82854 55685 01786 52573 72009 27687 40342 61813 92770 51099 47124 52852
89700 08350 44444 54204 17682 79006 32395 95760 78595 03789 09710 23873 07286 10584 97606 31632 41216 45283 67939 95634
98839 23747 06558 85122 58657 28207 75382 53813 07702 01340 44308 11267 31670 52723 56991 80636 05703 32291 40249 90007
84115 74390 05996 83637 39718 43502 70658 53555 88390 91370 54624 86020 49372 08301 48089 46809 30706 33310 83340 85660
07265 73739 18926 42308 65202 15670 90299 67048 06918 03086 62574 55144 27930 16030 61818 05021 74714 64444 15606 26616
43679 54394 94927 79883 72689 14755 38967 38029 21504 65339 37879 27888 06830 15353 99691 56542 50452 50165 69248 62193
02809 41853 51352 91204 03696 96204 35602 32368 41630 56619 40142 75840 79800 04339 78620 87390 30010 34184 73950 43530
03321 63834 91836 78706 52581 48016 42099 06894 95735 54693 56464 88507 83679 71836 00767 04125 92170 87451 20716 68047
45223 59893 36248 52871 97313 92690 14641 39845 88418 58330 39237 72083 22882 80734 63422 12138 19297 12373 18912 69690
50083 95006 50702 20910 56093 84296 15123 09357 61208 00980 50594 80055 52145 99571 36343 44002 75390 10284 08801 30748
15176 97150 49937 98244 96721 48220 36521 23620 49670 08531 58309 47852 14856 74714 61930 00920 52904 53426 45009 90012
000 000 *[1m20secs]* 068 (x3) 1 *[44secs]* 068 (x3) 1 Frequency monitored until 1020z, no further traffic.

Andre, (F5JBR), followed this up with two logs from the morning of 22 September – which used the same ID, 068, but on different frequencies. It's interesting to note that although different messages were sent, the message length for both days was 240 groups.

8157	0810 – 0826z	22 Sep	068 1 (x3) (3034 240) 66789 93673 … 43534 16023 36970 69253 06334 … / … 000 000	F5JBR	WED
8148	0850 – 0906z	22 Sep	068 1 (x3) (3034 240) 43534 16023 36970 69253 06334 … / … 000 000	F5JBR	WED

Ary, (AB), has submitted a log of the complete message for 22 Sep;

068 068 068 1 3034 240 3034 240
66789 93673 43535 65661 16023 36970 69253 06334 72319 60313 03726 96545 33877 51095 02223 92826 32840 21083 31970 33643
59352 70586 77272 15475 30161 93510 66490 38212 16226 68158 78899 58733 45379 02378 33253 77995 02032 77595 50887 62426
40065 36351 79882 24051 27313 25477 53631 58378 14977 52954 12903 61233 81686 42477 40260 88637 06825 24604 36040 78003
27170 19294 75862 23333 05424 80850 07504 24124 31656 87318 64763 62932 01694 09810 81190 89956 06673 50967 94793 14706
89210 43854 73371 45958 09130 33158 42887 04478 21310 61088 64116 97817 12270 54400 90166 86034 23372 90628 36307 98614
16078 63457 27464 78540 57227 36196 90892 52685 65155 51659 03119 34894 01587 19549 52793 96762 29595 69799 14635 40374
65264 86270 76262 05520 21557 15338 83926 66957 06991 42915 95061 40793 22882 47005 36040 52632 96289 32301 69025 87067
72951 34565 23464 69099 13999 45892 71054 66766 86749 34378 87175 42967 76538 13827 92430 46496 91004 09200 46098 21368
96109 53871 78007 55497 10822 21548 33816 20018 71592 66013 66486 88977 37487 49834 55300 95996 51311 78957 40245 97618
68667 03386 39001 24270 50360 52481 29700 74730 45084 50133 54812 54062 74874 31903 86865 00424 41515 80584 23112 06341
41195 85252 59817 68715 25151 44735 46010 39667 28059 25946 19188 80570 38997 89713 61043 45568 84274 55121 34853 49070
38754 98754 34991 85152 37490 22419 54754 16174 67688 84944 87557 63906 74659 97440 23416 50611 73061 78288 77107 21188
000 000

Followed by this log - also from Ary;

8157	1830z	28 Sep	068 1 (1784 5) 83999 31290 02980 01778 15755 000 000	AB	TUE
8147	1840z	28 Sep	068 1 (1784 5) 83999 31290 02980 01778 15755 000 000	AB	TUE

And more observations from PoSW;

8157	1500z	08 Oct	068 1 (4397 1) 03400 000 000	(No repeat heard at 1520z)	PoSW	FRI

Nothing heard on most of the following days on these frequencies but something heard on the 14th which may have been from the same source:-

8157	1500z	14 Oct	Tuned in a bit after the hour in time to hear digital-data type signal, ended a few secs afterwards.	PoSW	THU
7649	1520z	14 Oct	Similar data signal as heard earlier, lasted approx. 50 seconds.	PoSW	THU

Listened on most days at 1500z, 4 PM UK time but nothing further heard – although on Friday 29-October there was a strong "XJT" churning away on 8157, or very close to it, not noticed before.

(Thanks Peter. The appearance of XJT / STANAG signals on active frequencies is frequently noted – Maybe it's just coincidence)

Regular M12 Schedules

Asiatic M12 Logs

10836/10136/9136	0700/20/40z	09 Sep	811 1 (8633 184)	13523 46840.....etc.	(Via Hong Kong SDR)	HFD/RNGB	THU
	0700/20/40z	16 Sep	811 1 (8633 184)	13523.....etc.	(Via Chinese SDR)	RNGB	THU
14942/13942/12142	0010/30/50z	20 Sep	991 1		(Via Japan SDR)	HFD	MON
17429/16219/15929	0010/30/50z	11 Oct	429 1			HFD	MON

European M12 Logs

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

6942/8142/9284	0030/0050/0110z	03 Sep	912 1 (389 76)	89047 00592 … 09332 56827 000 000	AB	FRI
	0030/0050/0110z	07 Sep	912 000		Gert/HFD	TUE
	0030/0050/0110z	10 Sep	912 000		Gert	FRI
	0030/0050/0110z	14 Sep	912 000		Gert	TUE
	0030/0050/0110z	17 Sep	912 000		Gert	FRI
	0030/0050/0110z	21 Sep	912 000		Gert	TUE
	0030/0050/0110z	28 Sep	912 1 (1285 79)	30776 60242 … 27430 17164 000 000	Gert	WED
7961/6861/5861	2100/20/40z	04 Sep	988 1 (4148 120)	96596 26497 … 66265 00618 000 000	BR/Gert/HFD/Kopf	SAT
	2100/20/40z	11 Sep	988 000		BR/Gert	SAT
	2100/20/40z	17 Sep	988 000		BR/Gert	FRI
	2100/20/40z	18 Sep	988 000		BR/Gert	SAT
	2100/20/40z	25 Sep	988 000		BR	SAT
9246/8146/6846	2110/30/50z	02 Sep	218 1 (7083 97)	98652 06648 … 30346 43395 000 000	AB	THU
	2110/30/50z	06 Sep	218 000		BR/Gert	MON
	2110/30/50z	09 Sep	218 000		BR/Gert/HFD	THU
	2110/30/50z	13 Sep	218 000		BR/Gert	MON
	2110/30/50z	16 Sep	218 000		BR/Gert	THU
	2110/30/50z	20 Sep	218 1 (3882 92)	52381 17915 … 62221 07631 000 000	BR/Gert	MON
	2110/30/50z	23 Sep	218 1 (3882 92)	52381 17915….	BR	THU
	2110/30/50z	27 Sep	218 1 (3882 92)	52381 17915 … 62221 07631 000 000	BR/Gert	TUE
	2110/30/50z	30 Sep	218 1 (3882 92)	52381 17915 … 62221 07631 000 000	BR/Gert	THU
9317/10484/11552	0530/0550/0610z	07 Sep	135 1 (1111 112)	Rest unworkable	Gert/HFD	TUE
	0530/0550/0610z	14 Sep	135 1 (2536 109)	49880 09318 … 80677 41055 000 000	Gert	TUE
	0530/0550/0610z	21 Sep	135 1 (1821 114)	88244 75158 … 71824 16312 000 000	Gert/XAH	TUE
	0530/0550/0610z	28 Sep	135 1 (3322 113)	91834 20431 … 17233 85213 000 000	Gert	WED
10836/10136/9136	0700/20/40z	02 Sep	811 1 (8312 144)	26916 12894 … 37770 49828 000 000	AB	THU
11109/10309/9209	2000/20/40z	02 Sep	385 1 (302 90)	79697 62814 … 19660 40666 000 000	AB/BR/HFD	THU
	2000/20/40z	06 Sep	385 000		Gert	MON
	2000/20/40z	09 Sep	385 000		BR/Gert	THU
	2000/20/40z	13 Sep	385 1 (109 100)	00080 82733 … 08494 16064 000 000	BR/Gert	MON
	2000/20/40z	16 Sep	385 1 (109 100)	00080 82733 … 08494 16064 000 000	BR/Gert	THU
	2000/20/40z	20 Sep	385 1 (109 100)	00080 82733 … 08494 16064 000 000	BR/Gert	MON
	2000/20/40z	23 Sep	385 1 (109 100)	00080 83733….	BR	THU
	2000/20/40z	27 Sep	385 000		BR/Gert	TUE
	2000/20/40z	30 Sep	385 000		BR/Gert	THU
12162/11566/10711	1710/30/50z	01 Sep	546 1 (9144 111)	07649 77935 … 10076 51263 000 000	AB/Gert/HFD	WED
	1700/20/40z	02 Sep	546 1 (1212 112)	85151 32791 … 01659 71107 000 000	AB/BR/HFD	THU
	1800/20/40z	02 Sep	546 1 (8455 105)	53836 16819 … 41207 28865 000 000	AB/BR/HFD	THU
	1710/30/50z	08 Sep	546 1 (9126 111)	78673 94088 … 73300 52599 000 000	BR/XAH	WED
	1700/20/40z	09 Sep	546 1 (4893 111)	75506 11385 … 35340 42844 000 000	Gert	THU
	1800/20/40z	09 Sep	546 1 (6011 113)	15315 35452 … 23405 17650 000 000	BR/Gert	THU
	1710/30/50z	15 Sep	546 1 (5510 107)	29083 27455 … 47063 01171 000 000	BR/Gert/XAH	WED
	1700/30/50z	16 Sep	546 1 (3155 110)	15479 79292 … 47899 40379 000 000	Gert	THU
	1800/30/50z	16 Sep	546 1 (7575 109)	23898 93530 … 56216 39482 000 000	BR/Gert	THU
	1710/30/50z	22 Sep	546 1 (9973 107)	86748 66345 … 37502 19495 000 000	BR/Gert	WED
	1700/20/40z	23 Sep	546 1 (4310 106)	28940 92131….	BR	THU
	1800/20/40z	23 Sep	546 1 (5447 112)	98714 11501….	BR	THU
	1710/30/50z	29 Sep	546 1 (9663 105)	03576 63821….	BR	WED
	1700/20/40z	30 Sep	546 1 (4359 107)	57475 67581 … 82122 78533 000 000	BR/Gert	THU
	1800/20/40z	30 Sep	546 1 (3404 108)	14612 31659 … 23762 95697 000 000	BR/Gert	THU
12218/11118/10218	2210/30/50z	01 Sep	212 1 (698 46)	72301 40234 … 39737 21983 000 000	AB/BR/Gert/HFD	WED
	2210/30/50z	04 Sep	212 1 (698 46)	72301 40234 … 39737 21983 000 000	BR/Gert	SAT
	2210/30/50z	11 Sep	212 1 (707 58)	93058 47601 … 67712 37728 000 000	BR/Gert	SAT
	2210/30/50z	15 Sep	212 000	Very weak	Gert	WED
	2210/30/50z	18 Sep	NRH		BR	SAT
	2210/30/50z	25 Sep	212 1 (9114 84)	12544 12971…. Very weak	BR	SAT
	2210/30/50z	29 Sep	212 1 (171 36)	77701 58135….	BR	WED
13386/12189/11491	1110/30/50z	02 Sep	725 1 (3511 96)	62354 10138 … 90215 98161 000 000	AB/E.SMITH/HFD	FRI
	1110/30/50z	09 Sep	725 1 (5709 93)	42728 15215 … 81101 19978 000 000	BR/Gert	THU
	1110/30/50z	23 Sep	725 1 (8013 96)	70416 72759….	BR	THU
14377/13461/12114	2000/20/40z	02 Sep	317 1 (5063 109)	87230 97636 … 45578 50635 000 000	AB/BR/HFD	THU
	2000/20/40z	09 Sep	317 1 (6536 110)	43908 53003….	BR	THU
	1130/1150/1210z	13 Sep	317 1		HFD	MON
	2000/20/40z	16 Sep	317 1 (7783 102)	766 .3 99155….	BR	THU
	1130/1150/1210z	20 Sep	317 1 (5137 93)	22252 74358 … 64052 10193 000 000	Gert	MON
	1130/1150/1210z	27 Sep	317 1 (1846 99)	22976 60523 … 43453 59895 000 000	Gert	MON
	2000/20/40z	30 Sep	317 1	Very weak	BR	THU

14927/1392712227	1600/20/40z	01 Sep	992 000		Gert/HFD	WED
	1600/20/40z	05 Sep	992 000		BR/Gert/XAH	SUN
	1600/20/40z	08 Sep	992 000		XAH	WED
	1600/20/40z	12 Sep	992 000		Gert/XAH	SUN
	1600/20/40z	15 Sep	992 1 (661 68)	68140 10205 … 9903 78957 000 000	Gert/ XAH	WED
	1600/20/40z	22 Sep	992 000		Gert/XAH	WED

October 2021:

5794/6794/8094	2100/20/40z	01 Oct	770 1 (3039 140)	92862 25962….	BR	FRI
	2100/20/40z	02 Oct	770 1 (3039 140)	92862 25962 … 26742 87099 000 000	Gert	SAT
	2100/20/40z	08 Oct	770 000		Gert	FRI
	2100/20/40z	15 Oct	770 000		Gert	FRI
	2100/20/40z	16 Oct	770 000		Gert	SAT
	2100/20/40z	22 Oct	770 1 (632 95)	01478 27814 … 78300 05557 000 000	BR/Gert	FRI
	2100/20/40z	23 Oct	770 1 (632 95)	01478 27814 … 78300 05557 000 000	Gert	SAT
6837/8037/9237	0030/0050/0110z	05 Oct	802 000		Gert	TUE
	0030/0050/0110z	08 Oct	802 000		Gert	FRI
	0030/0050/0110z	12 Oct	802 1 (307 91)	05816 60514 … 15091 99197 000 000	Gert/HFD	TUE
	0030/0050/0110z	19 Oct	802 000		Gert	TUE
	0030/0050/0110z	22 Oct	802 000		Gert	FRI
	0030/0050/0110z	26 Oct	802 1 (3057 67)	68687 09740 … 06181 60272 000 000	Gert	TUE
	0030/0050/0110z	28 Oct	802 1 (3057 67)	68687 09740 … 06181 60272 000 000	Gert	THU
8164/6964/5764	2110/30/50z	04 Oct	197 000		BR/Gert	MON
	2110/30/50z	07 Oct	197 000		Gert/HFD	THU
	2110/30/50z	11 Oct	197 1 (5998 95)	78920 83588 … 82311 14246 000 000	BR/Gert/HFD	MON
	2110/30/50z	18 Oct	197 1 (5998 95)	78920 83588 … 82311 14246 000 000	Gert	MON
	2110/30/50z	21 Oct	197 1 (5998 95)	78920 83588 … 82311 14246 000 000	BR/Gert	THU
	2110/30/50z	25 Oct	197 000		Gert	MON
	2110/30/50z	28 Oct	197 000		Gert	THU
9317/10484/11552	0530/0550/0610z	05 Oct	135 1 (4049 107)	50911 18672 … 26452 68320 000 000	Gert	TUE
	0530/0550/0610z	19 Oct	135 1 (6927 107)	01637 79899 … 90573 80884 000 000	Gert	TUE
	0530/0050/0610z	26 Oct	135 1 (8430 105)	85594 55433 … 99591 37210 000 000	Gert	TUE
10318/9218/8118	2000/20/40z	04 Oct	178 1 (9347 96)	34348 15912 … 68802 44347 000 000	Gert/HFD	MON
	2000/20/40z	07 Oct	178 1 (9347 96)	34348 15912 … 68802 44347 000 000	Gert	THU
	2000/20/40z	11 Oct	178 000		BR/Gert	MON
	2000/20/40z	14 Oct	178 000		BR/Gert	THU
	2000/20/40z	18 Oct	178 1 (3536 63)	70089 17779 … Rest unreadable	Gert	MON
	2000/20/40z	21 Oct	178 1 (3536 63)	70089 17979 … 00023 94695 000 000	BR/Gert	THU
	2000/20/40z	25 Oct	178 1 (3536 63)	70089 17979 … 00023 94695 000 000	BR/Gert	MON
	2000/20/40z	28 Oct	178 1 (3536 63)	70089 17979 … 00023 94695 000 000	Gert	THU
10936/9336/8136	2210/30/50z	02 Oct	931 1 (171 36)	77701 58135 … 78413 18061 000 000	BR/Gert	SAT
	2210/30/50z	06 Oct	931 1 (2369 118)	84609 46045….	BR	WED
	2210/30/50z	16 Oct	931 1 (9630 86)	12778 52440 … 72603 19715 000 000	Gert/HFD	SAT
11135/10235/9235	**1900/20/40z**	**06 Oct**	**122 1 (1463 81)**	**82392 00574 … 26990 73745 000 000**	AB	WED
	1900/20/40z	**08 Oct**	**122 1 (1463 81)**	**82392 00574 … 26990 73745 000 000**	Gert	FRI
	1900/20/40z	13 Oct	122 000		BR/Gert	WED
	1900/20/40z	15 Oct	122 000		Gert	FRI
	1900/20/40z	22 Oct	122 1 (700 74)	81256 90171….	BR	FRI
	1900/20/40z	27 Oct	122 000		BR/Gert	WED
11435/10598/9327	**1800/20/40z**	**16 Oct**	**938 1 (3652 79)**	**08321 58953 … 68659 86837 000 000**	Gert	SAT
12162/11566/10711	1710/30/50z	06 Oct	546 1 (3148 110)	63024 90657 … 92188 64333 000 000	BR/Gert	WED
	1700/20/40z	07 Oct	546 1 (3996 110)	75037 34993 … 59409 42772 000 000	BR/Gert	THU
	1800/20/40z	07 Oct	546 1 (9022 112)	47356 30395 … 11057 44567 000 000	BR/Gert	THU
	1710/30/50z	13 Oct	546 1 (4469 104)	87551 00208 … 85164 83875 000 000	BR/Gert	WED
	1700/20/40z	14 Oct	546 1 (7835 108)	75946 50869 … 91318 24420 000 000	BR/Gert	THU
	1800/20/40z	14 Oct	546 1 (1260 110)	69075 42614 … 38108 10249 000 000	BR/Gert	THU
	1710/30/50z	20 Oct	546 1 (6046 111)	32133 64427….	BR	WED
	1700/20/40z	20 Oct	546 1 (2294 107)	76231 17077….	BR	THU
	1800/20/40z	21 Oct	546 1 (8227 108)	46478 90183 … 72724 98734 000 000	BR/Gert	THU
	1720/30/50z	27 Oct	546 1 (3599 110)	03329 52758 … 70316 17806 000 000	Gert	WED
	1700/20/40z	28 Oct	546 1 (2308 113)	20718 60112 … 70412 17751 000 000	BR/Get	THU
	1800/20/40z	28 Oct	546 1 (1628 108)	15429 16247….	BR	THU
13386/12189/11491	1110/30/50z	14 Oct	725 1 (8841 98)	26652 86976 … 47039 47727 000 000	Gert	THU
14377/13461/12114	1130/1150/1210z	11 Oct	317 1 (5033 90)	56600 41071 … 58856 48400 000 000	Gert	MON
17441/18641/19241	0800/20/40z	06 Oct	462 000		Gert	WED
	0800/20/40z	13 Oct	462 1 (709 59)	42304 20250 … 92736 28126 000 000	Gert	WED
	0800/20/40z	17 Oct	462 1 (709 59)	42304 20250 … 92736 28126 000 000	Gert/HFD	SUN
	0800/20/40z	24 Oct	462 000		Gert	SUN

20168/19468/16268	**1400/20/40z**	**11 Oct**	**142 1 (621 79)**	**71819 05792….**	AB/Gert	MON
	1400/20/40z	28 Oct	142 000		Gert	THU

M12 6942/8142/9284kHz 0030/0050/0110z 03 Sep 2021

912 912 912 1 (R2m) 389 76 389 76

89047 00592 33453 77522 47131 38402 63616 41663 65602 58539
81203 78787 94255 78491 91163 03177 58328 01015 01726 79509
45894 84186 27158 11485 24962 55823 00557 38602 18726 00142
75700 32907 58500 10314 10803 50483 97247 69114 22150 64168
72500 63170 29873 63970 13970 05689 87596 20062 88371 21916
92786 05121 37148 74725 04084 49396 34212 72200 24945 36594
50588 75610 34816 88861 30867 36845 41709 79805 68564 82216
79010 85731 11865 30671 09332 56827 000 000

Courtesy AB

M12 17441/18641/19241kHz 0800/0820/0840z 17 Oct 2021

462 462 462 1 (R2m) 709 59 709 59

42304 20250 88544 75150 58221 85873 57803 64654 60443 23476
17668 67359 61470 33295 73902 52948 60644 91931 83868 23657
71427 13571 99898 26578 14242 21700 77919 75992 81755 16347
86332 18458 93438 30380 12180 40931 15044 33924 80795 51174
52500 03900 39600 24795 43393 74606 82041 21019 89721 77669
79064 83343 04090 21045 56225 46164 92736 28126 00000

Courtesy Gert

M14 IA MCW / ICW Short 0

September 2021:

10243	0520z	07 Sep	952 (730 51) = 92628….		HFD	TUE
	0520z	13 Sep	952 (603 53) = 70340 53399 … 58797 48664 = 603 53 00000	CW	AB	MON
12211	0500z	07 Sep	952 (730 51) = 92628….		HFD	TUE
	0500z	13 Sep	952 (603 53) = 70340 53399 … 58797 48664 = 603 53 00000	CW	AB	MON
16347	0930z	10 Sep	617 00000		AB	FRI
	0930z	25 Sep	617 00000 (SDR Utwente)		ER	SAT

October 2021:

17458	0930z	25 Oct	617 00000 (SDR Utwente)		ER/HFD	MON

M14 12211kHz 0500z 13 September 2021

952 (R4m) 603 603 53 53 = =

70340 53399 81161 69172 14412 87558 18162 71012 37013 13578
43278 21611 64593 71963 75431 72474 14224 20810 43744 37455
71357 43314 18860 18090 60255 18667 61156 13408 36779 04758
28037 25148 58229 06145 07496 94324 09934 25704 70133 30082
93248 23411 56830 16765 04678 30696 44234 10154 60798 93790
55282 58797 48664 = =

603 603 53 53 00000

Courtesy AB

M23 O ICW

No reports

Morse Stations - Not Number Related

M51 XlX

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

No reports – M51b format in use

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

3881//6825

1130 - 1200z	05 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 - 1155z	30 Sep	Jeudi- Leçon	24-2/1 Codé,	24-2/2 Clair,	24-2/3 Codé,	24-2/4 Clair (840 grps/hr)	BR	THU
1130 - 1203z	01 Oct	Vendredi- Leçon	25-2/1 Codé,	25-2/2 Clair,	25-2/3 Codé,	25-2/4 Clair (960 grps/hr)	BR	FRI

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

3881//6825

0133z	30 Sep	Non-stop 5-character groups composed of M51a messages		BR	THU

M89 O

This is a summary of activity from the M89 stations.

Traffic & Operator Chat from M89

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

3035	4018	5191	6140	7013	8001
3160	4043	5258	6380	7560	8436
3174	4143	5340	6543	7764	8777.2
3187	4238	5456	6666	7962	8877
3612	4242	5522	6812	7980	
3752	4243	5555			
3777	4254	5565			
3800	4321	5779			
3838	4802				
3879					

New Scheds for Sep/ Oct 2021: From logs submitted from JPL & F5JBR

4042	New frequency & Round Slip	First heard 13 September	V L5S3 (x3) DE Z4Y6 (x2)	F5JBR
4043	New frequency & Round Slip	First heard 01 September	V L5S3 (x3) DE Z4Y6 (x2)	F5JBR
	New Round Slip for this frequency	First heard 26 September	V IW6S (x3) DE 5D6T(x2)	JPL
6140	New frequency for this Round Slip	First heard 10 October	V IW6S (x3) DE 5D6T(x2)	JPL
7847	New frequency & Round Slip	First heard 10 October	V OST7 (x3) DE EDB8(x2)	JPL

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

Freq in KHz	Call Slip
3565//4718	V BSA5 (x3) DE TP4C (x2)
3565//4718//6378//7045	V BSA5 (x3) DE TP4C (x2)
3850/4620//4860//5640//6320//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
3850/4620//5640//6320//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4042	**V L5S3 (x3) DE Z4Y6 (x2)**
4043	**V L5S3 (x3) DE Z4Y6 (x2)** **V IW6S (x3) DE 5D6T(x2)**
4620	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4620//4860//5640//6320//6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4718	V BSA5 (x3) DE TP4C (x2)
4718//6378//7045	V BSA5 (x3) DE TP4C (x2)
4718//7045	V BSA5 (x3) DE TP4C (x2)

Freq in kHz	Call Slip
4720//NRH	V WNF(x3) DE FXM (x2) (R5) (Hand sent)
4720//5150	V WNF(x3) DE FXM (x2) (R5) (Hand sent)
4860//5640//6920//6320//6840//8290//8360	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4860//5640//6320//6840//8290//8360	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
4860//5640//6320//6840//8290//8360/10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
5640//6320//6840//8290//8360	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
6140	**V IW6S (x3) DE 5D6T(x2)**
6543	V 8RVF (x3) DE CV4K (x2)
7045//NRH	V BSA5 (x3) DE TP4C (x2)
7620//8350	V WNF(x3) DE FXM (x2) (R5) (Hand Sent)
7847	**V OST7 (x3) DE EDB8(x2)**

3800		1916z (IP)	07 Oct	VV BGH DE OKB QSA ? K (Unsure of 1st call sign - run together)	(Remote Hong Kong)	JPL	THU
4018		1713z (IP)	10 Sep	NR 2061 10 24 0911 0100 K RMSK TRC99 TO 4AT4 K	(Remote tuner Khabarovsk)	JPL	FRI
4043	Z4Y6	1333z	01 Sep	Z4Y6 Working L5S3 (only : L5S3 de Z4Q6 V) in Broadcast	(Via SDR Japan)	F5JBR	WED
	Z4Y6	1244z	04 Sep	Z4Y6 Working L5S3 (only : L5S3 de Z4Q6 V) in Broadcast	(Via SDR Japan)	F5JBR	SAT
4243		1145z (IP)	24 Sep	NR 2490 CK 91 53 0924 1800 RMKS BT 9495 TO 6769 AR K	(Remote tuner Japan)	JPL	FRI
4254		1207z (IP)	24 Sep	RMKS 8479 TO 0006 BT D.T2/R7 AR9 AR NR 9841 CK 20 47 0924 2000 RMKS 551 K E 8479 TO 0006 K	(Remote tuner Japan)	JPL	FRI
4802		1918z (IP)	15 Sep	NR 9107/EX 0318 BT Q5P4/53W2	(Remote tuner Hong Kong)	JPL	WED
6140	Z4Y6	0915z	05 Sep	Z4Y6 Working L5S3 (only : L5S3 de Z4Q6 V) in Broadcast	(Via SDR Japan)	F5JBR	SUN

6543	CV4K	1202z (IP) 21 Oct	V 8RVF (x3) DE CV4K (x2) NR 381/EX 2000 BT NR 382/EX 2003 BB NR 383/EX 2006 BT NR 384/EX 2009 BT NR 385/EX 2012 BT NR 386/EX 2015 BT	AJB2/C3D4 AR (From Round Slip - 1205z) F2D9/N8T7 AR P856/M9N5 AR YHU3/T2PJ AR A5B7/IBE . AR OBC3/N9J8 AR	(Remote tuner Japan)	JPL	THU
7764	DFG4	1102z (IP) 10 Oct	NR 003/EX 1906 BT	QBZ9/AKR5 AR	(Remote tuner Novosibirsk)	JPL	SUN
7962		1107z (IP) 10 Oct	BT OPR6/AUT3 AR QSY TO 25 QSY TO 25 VV		(Remote tuner Novosibirsk)	JPL	SUN
7980		1058z (IP) 24 Sep	BT 615/XZ373/5295/08/72/33/X673A/COMM/1167 AR NR 510 HR WK N 510 NIL SK NIL SK		(Remote tuner Novosibirsk)	JPL	FRI
8436	AQR8	1108z (IP)10 Oct	NR 005/EX 1912 BT	UFO2/ZTH1 AR	(Remote tuner Novosibirsk)	JPL	SUN
8777.2	VLB7	0036z (IP) 10 Oct	NR 3406/EX 0842 BT	VLB7/W4YIII	(Remote tuner Quzhou)	JPL	SUN
8877		1936z (IP) 07 Oct	IEC BT 4726 AR K Exercise related		(Remote tuner Hong Kong)	JPL	THU

M89 4143kHz 1730 (IP) - 1733z 12 September 2021

R RPT 49W K (IP – 1730z)
R RPT 49 49W K K (1730z) (Other station N/H on this frequency)
R RPT 62W K (1731z)
R RPT 71W K
R RPT 73W K (1732z)
R RPT 79W K
R R QSL QSL 132 EEEE QSL 0132 0132 K K (1733z)
RRR SK GB K (1733z)

M89 4802kHz 1918 (IP) - 1919z 15 September 2021

FFF **NR 9107/EX 0318 BT 5P4/53W2 AR** (IP – 1918z)
NR 9107/EX 0318 BT Q5P4/53W2 AR
NR 9107/EX 0318 BT Q5P4/53W2 AR
QSY 12 QSY 12 VVV (1919z)

Courtesy JPL

M89 4243kHz 1145 (IP) - 1149z 24 September 2021

5D43 AR K K (IP – 1145z)
AS AS (Other station also on this freq.)
RPT 61W K
61W BT BT 763A AR K
RPT 63W K
R RPT 63W BT N635 AR K (1146z)
R QSL 1947 AR
R R MSG GA K
GA K (1148z)
R R **NR 2490 CK 91 53 0924 1800 RMKS BT 9495 TO 6769 AR** K
R R GA K
R BT BT 763A U4D5 NA43 46T5 N3TA 74UD DUTN 7A65 5D63
74TN 3D67 U4A5 T64U (Cont'd – 1149z)

Courtesy JPL

M95 O XSV, XSV70, XSV85

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

3642//NRH	Call Sign 3A7D	(Active daily - only first marker log has been included)				
3642//7602	Call Sign 3A7D	(Active daily - only first marker log has been included)				
3955	1300 (IP) - 1301z	09 Oct	MSG NR 78/CCK CK 41 49 1009 2040 RMKS 51.3 TO 6403 BT (Remote Chongzuo)		JPL	SAT
3968//NRH	Call Sign SAQC (Previously3A7D) Suspect change in frequency and Round Slip for DKG6 DE 3A7D					
	1714z	30 Sep	V YHXD (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	THU
3968//6936	Call Sign SAQC (Previously3A7D) Suspect change in frequency and Round Slip for DKG6 DE 3A7D					
	1816z	12 Sep	V YHXD (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	SUN
	1410z	07 Oct	V YHXD (x3) DE SAQC (x2)	(Remote tuner Novosibirsk)	JPL	THU
4243//NRH	Message number differs from current XSV70 and XSV85 message numbers.					
	1143 (IP) - 1156z	03 Sep	NR 04 CK 17 49 0903 15.4 BT NR 047 CK 28 35 0903 1553 BT NR .3 CK 1735 0903 1629 BT NR 06 CK 187 35 0903 17.. BT	(Remote tuner Taiwan)	JPL	FRI
	1151 - 1153z	10 Sep	NR 24 CK 173 35 0912 1547 BT	(Remote tuner Japan)	JPL	SUN
	1150 - 1159z	21 Oct	NR 044 CK 38 35 1021 1523 BT (Sending unusually slow) NR 42 CK 174 35 1021 1540 BT	(Remote Taiwan)	JPL	THU
	1147 (IP) - 1200z	22 Oct	NR 05 CK 25 48 1021 2000 BT NR 44 CK 139 35 1022 1526 BT	(Remote tuner Taiwan)	JPL	FRI
4243//9054	Message number differs from current XSV70 and XSV85 message numbers.					
	1141 (IP) – 1206z	24 Sep	NR 089 CK 29 35 0924 1508 BT NR 026 CK 22 35 0924 1600 BT NR 48 CK 141 35 0924 1626 BT	(Remote tuner Japan)	JPL	FRI
	1143 (IP) – 1200z	30 Sep	NR 002 CK 45 35 0930 1510 BT NR 60 CK 147 35 0930 1610 BT	(Remote tuner Taiwan)	JPL	THU
	1156 (IP) - 1202z	10 Oct	NR 022 CK 50 35 1010 1521 BT NR 20 CK 168 35 1010 1547 BT	(Remote tuner Japan)	JPL	SUN

4364//8073	Call Sign XSV85					
	1130 - 1139z	03 Sep	NR 0713 CK 176 35 0903 1558 BT	(Remote tuner Taiwan)	JPL	FRI
	1130 - 1151z	10 Sep	NR 0746 CK 487 35 0910 1651 BT	(Remote tuner Hong Kong)	JPL	FRI
	1131 - 1145z	12 Sep	NR 0762 CK 272 35 0912 1636 BT	(Remote tuner Hong Kong)	JPL	SUN
	1130 – 1140z	24 Sep	NR 08.. CK 214 35 0934 1539 BT	(Remote tuner Hong Kong)	JPL	FRI
	1131 - 1141z	30 Sep	NR 0812 CK 139 35 0930 1620 BT	(Remote tuner Hong Kong)	JPL	THU
	1135 - 1151z	10 Oct	NR 0853 CK 594 35 1010 16UD BT	(Remote tuner Taiwan)	JPL	SUN
	1141 - 1143z	21 Oct	NR 0..5 CK 315 35 1021 1619 BT	(Remote tuner Taiwan)	JPL	THU
			(As luck would have it, audio issue with SDR happens when msg nr is being sent...)			
	1130 - 1145z	22 Oct	NR 0910 CK 345 35 1022 1553 BT	(Remote tuner Hong Kong)	JPL	THU
	0014 (IP) - 0021z	24 Oct	NR 0918 CK 034 051 1024 0703 BT	(Remote tuner Taiwan)	JPL	SUN
5479//NRH	Call Sign SAQC		(Active daily - only first marker log has been included)			
	1300z	04 Sep	YHXD de SAQC V in Broadcast	(Via SDR Japan)	F5JBR	SAT
5479//10722	Call Sign SAQC		(Active daily - only first marker log has been included)			
	1104z	03 Sep	V YHXD (x3) DE SAQC (x2) (IP - Cont'd)	(Remote tuner Novosibirsk)	JPL	FRI
	1057 - 1058z	10 Oct	NR 024/CCK CK 199 1110 1019 RMKS CQ BT	(Remote tuner Novosibirsk)	JPL	SUN
6558	0051 (IP) - 0550z	10 Oct	0/CCK CK 19 09 1010 0818 RMKS 8937 TO 8.48 K NR VVV 8.RD. RD DE KMMX K (Msg format indicates M95 family) R HS2I HS2I DE AJYX K	(Remote tuner Quzhou)	JPL	SUN
7980	1205 (IP) - 1210z	10 Oct	RMKS 4482 TO 0320 0072 9.33 9898 9532 8791 BT MSG NR 22/CCK CK 2 41 1010 2000 RMKS 4482 TO 9321 9872 9533 9898 9532 879. BT	(Remote tuner Japan)	JPL	SUN
8690	1115 (IP) - 1119z	10 Oct	IEC BT 6658 AR K (Exercise related) TKF2 TKF2 DE ADWF R QSA 2 QSA ? K IEC BT 6658 AR K NR 045/CCK CK 91 54 1010 1910 RMKS 4077 TO 4094 BT	(Remote tuner Novosibirsk)	JPL	SUN
8777	0104 (IP) - 0107z	10 Oct	NR 3407/CCK CK 73 24 1010 0900 RMKS CQ BT (Msg format indicates M95 family) (Repeat of above message at 0104z)	(Remote tuner Quzhou)	JPL	SUN
9054/NRH	Call Sign XSV85					
	2341z	30 Oct	NR 057 CK 39 35 1031 0617 BT (// 4243 NRH)	(Remote tuner Taiwan)	JPL	SAT
	0001z	31 Oct	NR 057 CK 39 35 1031 061 BT (From old day log - Repeats message – 0001z) NR 063 CK 69 35 1031 0655 BT		JPL	SUN
10722//NRH	Call Sign 3A7D					
	0608z	02 Sep	YHXD de SAQC V (//5479 NRH)	(Via SDR Japan)	F5JBR	SAT

M95 4243//9054kHz 1141 (IP) - 1206z 24 September 2021

In progress in voice USB 1141z Female operator
Switched to Chinese digital 4+4 QPSK 75/3000 LSB 1143z
Switched to CW - Handsent 1153z

VV HR MSG TO YR PSE CY (1153z)
NR 089 CK 29 35 0924 1508 BT
5AA UTT TU4 3U6 3A4 5T7 5TD N44 5TN 75U
353 N3D 354 373 4T7 446 3DU 4D3 5AA 75U
353 N3D 354 373 4T7 446 467 3DU 4D3 AR MSG AGN (1157z)
NR 089 CK 29 35 0924 1508 BT (Repeats message – 1157z)
AR A HR MSG GA
NR 026 CK 22 35 0924 1600 BT
UT5 TU4 3U6 3A4 TTA TTU TT3 773 354 346
N3U 373 445 TTA TTU 773 466 4D6 365 N54
4D3 3DA AR MSG AGN (1202z)
NR 026 CK 22 35 0924 1600 BT (Repeats message – 1103z)
AR A HR MSG GA
NR 48 CK 141 35 0924 1626 BT
UTU TU4 3U6 3A4 TTU 773 354 373 4T7 446 (Cont'd – 1206z)

M95 4243//9054kHz 1143 (IP) - 1200z 30 September 2021

In progress Chinese digital 4+4 QPSK 75/3000 LSB 1143z
Switched to CW - Handsent 1153z

VV HR MSG TO YR PSE CY (1150z)
HR MSG TO YR PSE CY (1151z)
NR 002 CK 45 35 0930 1510 BT
5AA UTT T3T 3U6 3A4 5T7 5TD 75U 35A N3D 354 (Cont'd – 1153z)
AR 7G AGN
NR 002 CK 35 35 0930 1510 BT (Repeats message – 1155z)
AR A HR MSG GA
NR 60 CK 147 35 0930 1610 BT
UTU T3T 3U6 3A4 TTU 773 354 373 N3D 353 4T3 NAT (Cont'd – 1200z)

Courtesy JPL

M95 4364//8073kHz 1130 - 1139z 03 September 2021

BNGC DE XSV85
Into voice USB 1130z Chinese Female 1130z
Switched to Chinese digital 4+4 QPSK 75/3000 LSB 1131z
Switched to CW – Handsent – 1137z

BNGC (x3) DE XSV85 (x2) (Cont'd – 1137z)
HR MSG GA PSE CY (1138z)
NR 0713 CK 176 35 0903 1558 BT (1138z)
TT3 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773
TAN 773 TU4 773 356 4AD NN3 (Cont'd – 1139z)

M95 4364//8073kHz 1131 (IP) - 1145z 12 October 2021

BNGC DE XSV85
In progress In Chinese digital 4+4 QPSK 75/3000 LSB 1131z
Switched to CW – Handsent 1141z

V BNGC (x3) DE XSV85 (x2) ((1141z)
HR 7GS GA PSE CY (1142z)
NR 0762 CK 272 35 0912 1636 BT
TAU 3U6 3AN 3U7 TAU 773 357 374 4AA NN3 (Cont'd – 1145z)

M95 4364//8073kHz 1131 (IP) - 1145z 12 October 2021

BNGC DE XSV85
Into voice USB Chinese Male 1130z
Switched to Chinese digital 4+4 QPSK 75/3000 LSB 1131z
Switched to CW Handsent 1137z
V BNGC (x3) DE XSV85 (x2) (1137z)
HR 7GS GA PSE CY (1138z)
NR 08.. CK 214 35 0934 1539 BT
TU4 3U6 3AN 3U7 TAU 773 TU4 773 TU5 773 356 (Cont'd – 1140z)

Courtesy JPL

Marker Beacons (MX MXI)

3657	0130z	30 Sep	MX CW Beacon "V" Khiva	Weak	BR		THU
4557.7	1655z	24 Sep	MXI CW Beacon "D" Sevastopol		XAH		FRI
	0120z	30 Sep	MXI CW Beacon "D" Sevastopol		BR		THU
4557.9	2202z	30 Sep	MXI CW Beacon "S" Severomorsk		BR		THU
5153.8	0845z	23 Sep	MXI CW Beacon "P" Kaliningrad		XAH		THU
5154.1	1526z	20 Sep	MXI CW Beacon "A" Astrakhan		BR		MON
	1655z	24 Sep	MXI CW Beacon "A" Astrakhan		XAH		FRI
5156.8	1609z	10 Sep	MX CW Beacon " L" St Petersburg		BR		FRI
5342.1	1202z	25 Sep	MXV CW Beacon "V"	(Fair via SDR Novosibirsk)	E.SMITH		SAT
	0912z	27 Sep	MXV CW Beacon "V"	(Weak via SDR Novosibirsk)	E.SMITH		MON
	1137z	28 Sep	MXV CW Beacon "V"	(Fair via SDR Novosibirsk)	E.SMITH		TUE
7508.7	1145z	14 Sep	MXI CW Beacon "D" Sevastopol		BR		TUE
	0845z	23 Sep	MXI CW Beacon "D" Sevastopol		XAH		THU
	1655z	24 Sep	MXI CW Beacon "D" Sevastopol		XAH		FRI
7508.8	1630z	20 Sep	MXI CW Beacon "P" Kaliningrad		BR		MON
	0845z	23 Sep	MXI CW Beacon "P" Kaliningrad		XAH		THU
7508.9	1145z	14 Sep	MXI CW Beacon "S" Severomorsk		BR		TUE
	0845z	23 Sep	MXI CW Beacon "S" Severomorsk		XAH		THU
	1655z	24 Sep	MXI CW Beacon "S" Severomorsk		XAH		FRI
7509.1	1605z	10 Sep	MXI CW Beacon "A" Astrakhan		BR		FRI
	1655z	24 Sep	MXI CW Beacon "A" Astrakhan		BR		FRI
7714	1212z	25 Sep	MXV CW Beacon "V"	(Good via SDR Novosibirsk)	E.SMITH		SAT
	0913z	27 Sep	MXV CW Beacon "V"	(Good via SDR Novosibirsk)	E.SMITH		MON
	1137z	28 Sep	MXV CW Beacon "V"	(Good via SDR Novosibirsk)	E.SMITH		TUE
8494.8	1604z	10 Sep	MXI CW Beacon "P" Kaliningrad		BR		FRI
8494.9	1144z	01 Jan	MXI CW Beacon "S" Severomorsk		AB		TUE
8495.1	0143z	30 Sep	MXI CW Beacon "A" Astrakhan		BR		THU
8497.8	1603z	10 Sep	MX CW Beacon "L" St Petersburg		BR		FRI
	0845z	23 Sep	MX CW Beacon "L" St Petersburg		XAH		THU
	1655z	24 Sep	MX CW Beacon "L" St Petersburg		XAH		FRI
10871.7	1601z	10 Sep	MXI CW Beacon "D" Sevastopol		BR		FRI
	1655z	24 Sep	MXI CW Beacon "D" Sevastopol		XAH		FRI
10871.8	0845z	23 Sep	MXI CW Beacon "P" Kaliningrad		XAH		THU
10871.9	1601z	02 Oct	MXI CW Beacon "S" Severomorsk		BR		FRI
	0845z	23 Sep	MXI CW Beacon "S" Severomorsk		XAH		THU
10872.1	1600z	10 Sep	MXI CW Beacon "A" Astrakhan		BR		FRI
	0147z	30 Sep	MXI CW Beacon "A" Astrakhan		BR		THU
13527.7	1557z	10 Sep	MXI CW Beacon "D" Sevastopol		BR		FRI
	0845z	23 Sep	MXI CW Beacon "D" Sevastopol		XAH		THU
	1655z	24 Sep	MXI CW Beacon "D" Sevastopol		XAH		FRI
13527.9	1637z	13 Oct	MXI CW Beacon "S" Severomorsk		BR		WED
13528	1557z	10 Sep	MXI CW Beacon "C" Moscow		BR		FRI
	0845z	23 Sep	MXI CW Beacon "C" Moscow		XAH		THU
	1655z	24 Sep	MXI CW Beacon "C" Moscow		XAH		THU
13528.1	1559z	10 Sep	MXI CW Beacon "A" Astrakhan		BR		FRI
16331.7	1133z	14 Sep	MXI CW Beacon "D" Sevastopol		BR		TUE
	0845z	23 Sep	MXI CW Beacon "D" Sevastopol		XAH		THU
16331.9	1131z	14 Sep	MXI CW Beacon "S" Severomorsk		BR		TUE
16332.1	1140z	14 Sep	MXI CW Beacon "A" Astrakhan		BR		TUE
20046	0845z	23 Sep	MX CW Beacon "A" Astrakhan		XAH		THU

Unidentified Beacon

Andrė, (F5JBR), reports this beacon active on two frequencies – Any information welcome;

4916	1311z	V91H	10 Sep	V91H : UNID CW Beacon : Send only V91H	(Via SDR Finland)	F5JBR	FRI
7374	0645z	V91H	11 Sep	V91H : UNID CW Beacon : Send only V91H	(Via SDR Finland)	F5JBR	SAT
4916//7374	0730z	V91H	11 Sep	V91H : UNID CW Beacon : Send only V91H	(Via SDR Finland)	F5JBR	SAT

Oddities

Continuous Tones (From PoSW)

Casual tuning around the short-wave bands often reveals a transmission with just a fixed audio tone which will be on for several hours and quite often after it has gone off there will be an "XJT" noise-maker centred on the same spot on the dial which suggests some kind of connection although there is such a thing as coincidence:-

6-Sept-21, Monday:- 0821 UTC, 8033 kHz, strong signal, modulated by audio tone, steady enough to give a stable reading on my ancient frequency counter connected to the low-level audio output on the receiver which showed 605- 606 Hz. A tone of this same frequency had also been noted on 6414 kHz on 23-August. Was on throughout the day, still there at 1825z. Not there on the following morning when checked at around 0600z but there was a very strong "XJT" on 1325z.

29-Oct-21, Friday:- 0643 UTC, 8140 kHz, steady audio tone, frequency counter said 1 kHz, signal strength up and down, still on at 1410 UTC.
Not there on the following morning when checked at 0825z but there was a strong "XJT" in residence.

XC **'The Crackle'**

Quite a rare catch these days, but still occasionally active, 'The Crackle' was found on Saturday, 25 September, in progress, on 5569kHz at 1430z with a fair signal on Twente. A quick scan round some online SDRs found the strongest signal, about S7 on a Swedish SDR.

'The Crackle' is a strange signal & it's not clear if this is an intelligent signal - sending some form of communication or just a spurious artefact. The signal ceased abruptly at 1550z.

5569	1430 (IP) – 1550z	25 Sep	XC	'The Crackle' A good S5 into S.E. UK. Found to be S7 via Swedish SDR			BR	SAT

3510	**'The Air Horn'**							
3510	0127z	30 Sep	Marker signal (Air Horn)		Strong		BR	THU
	0353z	18 Oct	Normal sound with minor QSB 0354z		Good	USB	chpa	MON
	1855z	27 Oct	The Air Horn sounds loud and clear		Excellent	USB	chpa	WED
4310	**'The Goose'**							
4310	1547z	11 Oct	Normal sound from the Goose		Excellent	USB	chpa	MON
	1513z	13 Oct	Normal sound from the Goose		Excellent	USB	chpa	MON
3243	**'The Goose'**							
3243	0355z	18 Oct	'The Goose. Normal sound from the Goose		Moderate	USB	chpa	MON
	1853z	27 Oct	The Goose sounds with QSB and minor QRM		Weak		chpa	WED
4770	**'The Alarm'**							
4770	1616z	13 Oct	The Alarm is on		Good	USB	chpa	MON
	0401z	18 Oct	Normal sound from the Alarm		Moderate	USB	chpa	MON
	1900z	27 Oct	The Alarm sounds loud and clear		Good	USB	chpa	WED
S28	**'The Buzzer'**							
4625	2325z	06 Sep	S28	'The Buzzer' Signal is a rising/falling note, which is a new mode for me.			Gary	MON
	0148z	30 Sep	S28	'The Buzzer' Back to sending the 'normal' single, modulated note			BR	THU
	1548z	11 Oct	S28	Normal sound from the Buzzer	Excellent	USB	chpa	MON
	1512z	13 Oct	S28	Normal sound from the Buzzer	Excellent	USB	chpa	MON
	0400z	18 Oct	S28	Normal sound from the Buzzer with minor QSB	Weak	USB	chpa	MON
	1859z	27 Oct	S28	The Buzzer buzzes loud and clear with minor QRM	Good	USB	chpa	WED

Ary,(AB), reports pirate stations are bugging the Buzzer on 4625 kHz, 05 October. A countdown in German is transmitted and other stations send music. Unreadable voices in the background. The buzzer is buzzing as always.

S30 **'The Pip'**

3756	0132z	30 Sep	S30	'Pip' marker (Night freq) USB			BR	THU
	1543z	11 Oct	S30	Normal pip sound with lots of QRM from HAMs	Moderate	USB	chpa	MON
	0357z	18 Oct	S30	Normal pip sound with some QSB	Weak	USB	chpa	MON
	1857z	27 Oct	S30	The Pip sounds loud and clear	Excellent	USB	chpa	WED
5448	1526z	13 Oct	S30	'Pip marker (Day freq) Normal pip sound with QRM	Moderate	USB	chpa	MON

S32 **'Squeaky Wheel'**

3828	0151z	30 Sep	S32	'Squeaky Wheel' marker (Night freq)		USB	BR	THU
	1550z	11 Oct	S32	The weak Squeaky Wheel is heard	Weak	USB	chpa	MON
	1515z	13 Oct	S32	Squeaky Wheel is heard, minor QRM	Weak	USB	chpa	MON
	0358z	18 Oct	S32	Normal sound from the Squeaky Wheel with QSB	V.weak	USB	chpa	MON
	1858z	27 Oct	S32	The Squeaky Wheel sounds loud and clear	Good	USB	chpa	WED

Contributors: AB, BR, chpa, ER, E.SMITH, F5JBR, Gary, Gert, HFD, Jochen_Kopf, PoSW, RNGB, XAH *Thank you all for your logs.*

Voice Number Stations

E06 Sept/Oct log:

Monday **0210z 11528kHz 0310z 14613kHz**
25/10 '537' 280 49 64000…….etc (via KiwiSDR RUS) Thanks HfD

Thursday (repeats Friday) **0300z 13557kHz 0400z khz**
09/09 '36'1 429 35 12096…..etc (via Russian KiwiSDR) Thanks HfD

First /Third Thursday (repeats Friday) **0500z 14370kHz 0600z 16265kHz**
02/09 '354' 982 61 38858 58020 91183 37651 67607 02286 09165 81040 03046 27297 50175 50146 90210 78232 15087 99197 24641 29738 36860 66709 42435 54957 19483 38900 81111 48581 46919 63213 90949 02322 54278 72872 01519 56279 78361 08407 73058 74617 29803 47089 87415 18994 53979 76222 58223 18184 72869 71204 64994 57334 25065 64327 40841 35275 46112 15227 68485 63350 56369 18933 64263 982 61 00000

16/09 '354' 197 60 25727 71983 10520 57412 83072 50254 37241 87625 42233 80765 86272 29918 13090 00683 57289 58461 04648 10382 03899 74960 68758 60792 14128 61419 99794 20533 89834 95956 07473 08768 54738 11691 05006 04717 45742 72116 79773 69774 67250 61438 38707 43154 13159 13271 45558 97011 86208 26161 92257 61971 69392 39364 71542 59013 29098 67309 43033 98627 54674 16196 197 60 00000

0600z 18425kHz 0700z 20230kHz
07/10 '186' 392 50 98727 00978 43490 78541 10690 54577 16272 76090 57226 24712 54117 00694 54685 72011 29589 67751 12592 45240 67245 78743 06780 40737 09603 25326 65915 28757 17568 35247 19825 88881 16278 45313 83088 21714 22300 81097 72313 29023 13100 48070 80546 79529 24743 63841 57246 02533 88754 86210 67260 76548 392 50 00000

21/10 '186' 407 52 65092 79694 92360 58972 58469 63275 24506 44709 81245 92821 76639 57762 60293 16246 31072 98431 15637 03298 54699 66891 52243 68267 56245 68167 76643 31840 39309 96110 12571 58056 30901 94822 00817 27299 90147 20949 04665 31265 26866 55298 61722 00834 84692 37207 49512 02794 68437 20103 57023 66345 72925 64201 407 52 00000

Other: **0900z 11123kHz 0930z 13532kHz**
16/10 '980' 764 31 32911 85927 51038 48901 85738 62349 06571 53751 46224 47416 52428 22271 68090 68608 95318 09560 09620 06274 56687 96348 17020 79220 44411 66238 04375 13213 39051 55700 97361 28322 74335 764 31 00000 Thanks Ary

1400z 10189kHz (very slow and different voice) Thanks Ary
26/10 '192' 857 39 04576 79534 91786 22778 63643 08652 17888 13974 13582 80797 54061 87986 28972 82326 74341 01297 98732 65421 52607 63124 43054 76531 23517 33834 74192 04042 39625 04303 62027 49881 48136 73424 90364 54727 35725 65953 14884 31528 14858 857 39 00000

E07

Before we move on to others' logs we start, as ever in this section, with PoSW's logs and analysis:

Sunday + Wednesday Schedule, 1700 UTC Start:-
5-Sept-21, Sunday:- 1700 UTC, 12139 kHz, "161 161 161 000", strong signal.
1720 UTC, 10639 kHz, much weaker.

8-Sept-21, Wednesday:- 1700 UTC, 12139 kHz, "161 161 161 000", strong.
1720 UTC, 10369 kHz, very weak.

12-Sept-21, Sunday:- 1700 UTC, 12139 kHz, "161 161 161 000", strong signal.
1720 UTC, 10639 kHz, nothing heard, too weak to copy, must have been buried in the local interference.

15-Sept-21, Wednesday:- 1700 UTC, 12139 kHz, full message, "161 161 161 1", DK/GC "9767 50" x 2, strong signal.
1720 UTC, 10639 kHz, very weak, unreadable at first, became a bit stronger after 1724z.
1740 UTC, 9139 kHz, third sending back up to being strong, peaking well over S9.

22-Sept-21, Wednesday:- 1700 UTC, 12139 kHz, good signal and 1720 UTC, 10639 kHz,
weak, "161 161 161 000".

26-Sept-21, Sunday:- 1700 UTC, 12139 kHz, strong signal, "161 161 161 000".
1720 UTC, 10639 kHz, weak.

3-Oct-21, Sunday:- 1700 UTC, 11156 kHz, "130 130 130 1" for a full message, very weak, sank into noise, unreadable.
1720 UTC, 9356 kHz, much stronger, S9, DK/GC "474 61" x 2.
1740 UTC, 8056 kHz, also strong, well over S9.

6-Oct-21, Wednesday:- 1700 UTC, 11156 kHz, "130 130 130 000", S8.
1720 UTC, 9356 kHz, weaker.

10-Oct-21, Sunday:- 1700 UTC, 11156 kHz, "130 130 130 000", weak.
1720 UTC, 9356 kHz, much stronger, peaking over S9.

13-Oct-21, Wednesday:- 1700 UTC, 11156 kHz, full message mode, “130 130 130 1”, DK/GC “3999 78” x 2, strong signal.
1720 UTC, 9356 kHz, weaker.
1740 UTC, 8056 kHz, back up to a strong signal.

17-Oct-21, Sunday:- 1700 UTC, 11156 kHz, “130” and “3999 78” again, peaking S8 with deep QSB.
1720 UTC, 9356 kHz, weaker, S4 to S5.
1740 UTC, 8056 kHz, stronger, S8.

24-Oct-21, Sunday:- 1700 UTC, 11156 kHz, “130” and still “3999 78”, S7.
1720 UTC, 9356 kHz, weaker.
1740 UTC, 8056 kHz, stronger, over S9.

27-Oct-21, Wednesday:- 1700 UTC, 11156 kHz, “130 130 130 000”, S9.
1720 UTC, 9356 kHz, weaker.

Saturday Schedule, 1300 UTC Start:-
4-Sept-21:- 1300 UTC, 12176 kHz, “114 114 114 000”, good signal.
1320 UTC, 11576 kHz, weaker.

11-Sept-21:- 1300 UTC, 12176 kHz, a full message, somewhat unusual for this schedule, “152 152 152 1”, DK/GC “889 41” x 2, strong signal.
1320 UTC, 11576 kHz, weaker, S5 to S6.
1340 UTC, 10276 kHz, also S5 to S6.

18-Sept-21:- 1300 UTC, 12176 kHz, “152 152 152 000”, strong signal.
1320 UTC, 11576 kHz, weaker.

25-Sept-21:- Another full message, missed the 1300z sending:-
1320 UTC, 11576 kHz, “152 152 152 1”, DK/GC “765 43” x 2, strong.
1340 UTC, 10276 kHz, peaking S8 with QSB.

2-Oct-21:- Missed the first sending again, getting to be a habit!
1320 UTC, 11576 kHz, “152 152 152 000”, peaking well over S9.

9-Oct-21:- 1300 UTC, 12176 kHz, “152 152 152 000”, strong.
1320 UTC, 11576 kHz, slightly weaker.

23-Oct-21:- 1300 UTC, 12176 kHz, “152 152 152 1”, DK/GC “895 178” x 2, long message,
the longest from any E07 for some time, total transmission time just over twenty minutes.
S9 signal.
1325:15s approx, 11576 kHz, running late, good signal, S8.
1350:30s UTC, 10276 kHz, S7 to S8.

30-Oct-21:- 1300 UTC, 12176 kHz, “152” and “895 178” again, very strong S9+ signal.
1325 UTC, after, 11576 kHz, S9.
1350:30s UTC, 10276 kHz, S8.

Sunday Schedule, 0600 UTC Start:-
5-Sept-21:- 0600 UTC, 9261 kHz, “224 224 224 000”, S7.
0620 UTC, 10261 kHz, weaker.

12-Sept-21:- 0600 UTC, 9261 kHz, as expected a full message since this schedule is a repeat of that heard on the previous day starting at 1300z. “224 224 224 1”, DK/GC “889 41” x 2, peaking S8.
0620 UTC, 10261 kHz, S6 to S7.
0640 UTC, 11461 kHz, S7 with QSB.

19-Sept-21:- 0600 UTC, 9261 kHz, “224 224 224 000”, over S9.
0620 UTC, 10261 kHz, weaker.

26-Sept-21:- 0600 UTC, 9261 kHz, “224 224 224 1”, DK/GC as per yesterday's 1300z sending, “765 43” x 2, S8.
0620 UTC, 10261 kHz, S5 to S6.
0640 UTC, 11461 kHz, back up to a strong signal, over S9.

3-Oct-21:- 0600 UTC, 10317 kHz, “312 312 312 000”, weak signal.
0620 UTC, 11117 kHz, stronger.

10-Oct-21:- 0600 UTC, 10317 kHz and 0620 UTC, 11117 kHz, both weak, “312 312 312 000”.

17-Oct-21:- 0600 UTC, 10317 kHz, “312 312 312 000”, good signal around S8.
0620 UTC, 11117 kHz, S8 to S9.

24-Oct-21:- 0600 UTC, 10317 kHz, “312 312 312 1”, DK/GC as expected, “895 178” x 2, weak signal at first, became stronger by 1305z.
0625:15s UTC, 11117 kHz, S5 to S6.
0650:30s UTC, 12217 kHz, strong, over S9.

Others' Logs:

Sunday

September 2021

0600z	**9261kHz**	**0620z**	**10261kHz**	**0640z**	**11461kHz**	
05/09	224 000					0600z Strong 0620z Fair
12/09	224 1 889 41 71888 ... 35451 000 000					V.strong [XAH]
26/09	224 1 765 43 49125 ... 59003 000 000					Strong

Sunday/Wednesday

September 2021

1700z	**12139kHz**	**1720z**	**10639kHz**	**1740z**	**9139kHz**		
01/09	161 000					[1720z QRM2]	Fair
05/09	161 000						Fair
08/09	161 000					[1720z QRN2]	Fair
12/09	161 000					1700z Fair, 1720z Weak	
15/09	161 1 9767 50 46052 ... 28645 000 000					[1720z Weak]	Fair

161 161 161 1
9767 50
46052 05188 65828 73000 75953
95192 34655 05573 39649 89153
16471 07099 44899 91707 14000
24605 96803 40056 90680 02472
02685 92317 78636 85072 60169
73128 67611 23795 60812 29087
79047 84735 69822 34179 90362
19472 69527 26713 21610 36250
97223 35443 66504 07246 72553
86366 58136 64102 78575 28645
000 000 *Courtesy XAH*

19/09	161 1 9767 50 46052 ... 28645 000 000					[1720z Unworkable]	Weak, QRM3
22/09	161 000					1700z Strong, 1720z Weak	
26/09	161 000						Strong
29/09	161 1 474 61 99666 ... 82102 000 000						Fair, QRM3

October 2021

1700z	**11156kHz**	**1720z**	**9356kHz**	**1740z**	**8056kHz**		
04/10	130 1 474 61 99666 ... 82102 000 000					[1700z Weak, 1740z TTYQRM2]	Strong
06/10	130 000						Fair QRM3
10/10	130 000						Fair
13/10	130 1 3999 78 20970 ... 31866 000 000						Strong
18/10	130 1 3999 78 20970 ... 31866 000 000					[1740z Strong QRM3]	Fair QRM3
20/10	130 1 3999 78 20970 ... 31866 000 000					[1740z Fair]	Weak
24/10	130 1 3999 78 20970 ... 31866 000 000					[1720z Weak QRM2]	Fair
27/10	130 000					1700z Fair, 1720z Weak	
31/10	130 000						Weak

Monday/Wednesday

September 2021

1900z	**14584kHz**	**1920z**	**13384kHz**	**1940z**	**11584kHz**

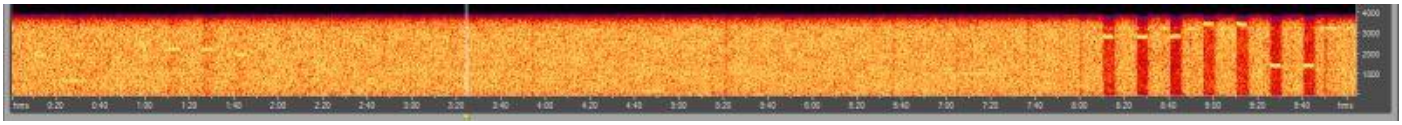
NRH throughout September schedule

October 2021

1900z	**11359kHz**	**1920z**	**10139kHz**	**1940z**	**9139kHz**

04/10 NRH

06/10 NRH 1920z slot: 1921z, 1928 and 1929z a series of tones heard with some variation in frequency. Those at 1928 to 1929z much stronger; See below



Tuesday/Friday

September 2021

0700z	**16354kHz**	**0720z**	**18664kHz**	**0740z**	**19354kHz**

07/09	363 000		Weak, Dutch SDR
14/09	363 000		Weak, DutchSDR
21/09	363 000	[0720z Weak Dutch SDR]	Fair
24/09	363 000		0700z Fair, 0720z Weak

October 2021

0700z	**15962kHz**	**0720z**	**17462kHz**	**0740z**	**18542kHz**

05/10	945 1 1987 102 63867 ... 92026 000 000	[0740z Dutch SDR]	Weak
08/10	945 1 1987 102 63867 ... 92026 **ATTENTION [**single repeat]		Weak
12/10	945 000		Weak FinnishSDR
19/10	945 000		Weak Dutch SDR
22/10	945 000		Weak
26/10	945 1 6216 87 48780 ... 86114 000 000	[0700z Strong]	Weak
29/10	945 1 6216 87 48780 ... 86114 000 000		Weak

Thursday/Saturday

September 2021

1410z	**16228kHz**	**1430z**	**15928kHz**	***1450z***	***kHz***

02/09	594 1 319 87 34714 ... 23994 000 000	[1410/1430z Unworkable]	Strong
04/09	594 1 319 87 34714 ... 23994 000 000	1410z Fair, 1430z Weak, 1450z S9 QSB5	
09/09	594 000		Weak
11/09	594 000	[1410z Dutch SDR]	Weak
23/09	594 000		Weak
25/09	594 000		Weak
30/09	594 1 6548 64 69004 ... 92966 000 000	[1450z Strong]	Weak

October 2021

1410z	**15849kHz**	**1430z**	**14849kHz**	**1450z**	**13449kHz**		
07/10	746 1 294 64 98215... 49671 000 000						Weak
09/10	746 1 294 64 98215... 49671 000 000					[0740z QRM]	Weak
14/10	746 1 294 64 98215 ... 49671 000 000					[1450z Weak]	Strong
16/10	746 1 294 64 98215... 49671 000 000						Weak
21/10	746 000						Weak
23/10	746 000						Weak
28/10	746 000						Weak
30/10	746 000						Fair

Saturday

September 2021

1300z	**12176kHz**	**1320z**	**11576kHz**	**1340z**	**10276kHz**		
04/09	152 000						Weak [Strong via XAH]
11/09	152 1 889 41 71888 ... 35451 000 000					[1300z Fair]	Weak [Strong via XAH]
25/09	152 1 765 43 49125 ... 59003 000 000						Strong

October 2021

09/10	152 000	[1320z QRM2]	Strong
16/10	152 000	[1320z QRM2]	Strong

Malahit SDR receiver at PLdn's QTH for 152 152 152 000 on 12176kHz 1200z 16/10/2021.
[11576kHz 1220z was noisy but Noise Reducer, NR, handled extremely well]

23/10	152 1 895 178 09071 ... 88843 000 000 Revised start times: 1325/1350z due to msg length of 20m	Weak
30/10	152. 1 895 178 89071 ... 88843 000 000 [1325z Fair]	Very strong

E07a

We open with others' logs:

Wednesday

September 2021

2000z	**8144kHz**	**2020z**	**6944kHz**	**2040z**	**5744kHz**	
01/09	197 000					Very strong
08/09	197 000					Very strong
15/09	197 000					Very strong
22/09	197 000					Very strong
29/09	197 000					Very strong

October 2021

2000z	**8144kHz**	**2020z**	**6944kHz**	**2040z**	**5744kHz**	
06/10	197 1 60300 7598 72 03533 ... 45768 000 000					Very strong
13/10	197 1 60300 7598 72 03533 ... 45768 000 000					Very strong

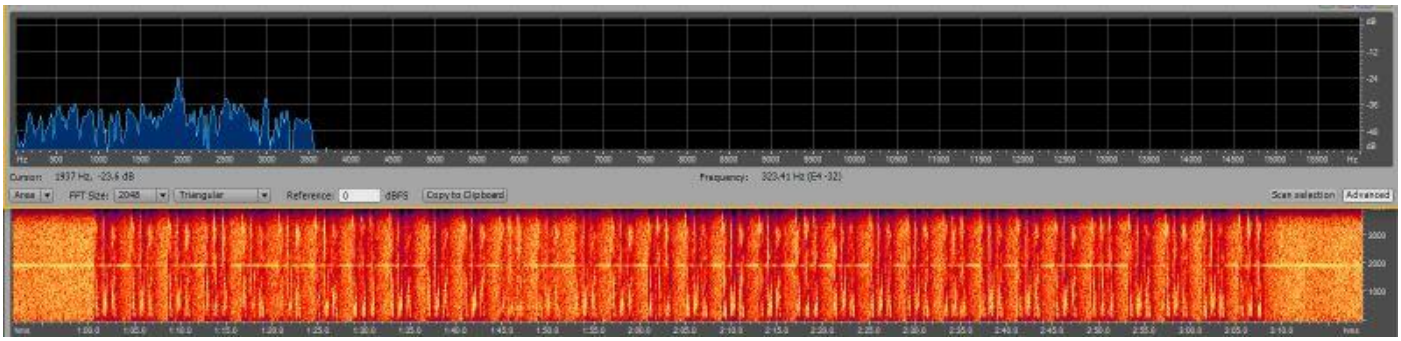
197 197 197 1 60300
7598 72 7598 72
03533 75102 33700 03157 76522 64076 68341 04937 69979 59807
03170 56894 74565 40894 52886 51454 41955 98617 83951 10068
28599 12090 36324 53247 84057 90263 88306 56674 41691 79067
00502 45665 15982 25411 89847 80073 05842 94256 52565 01572
53313 71566 10370 09322 10865 48412 91231 32699 34797 12056
08615 25934 00139 19165 00460 99495 08157 06626 09708 00996
21301 50658 98064 18308 44137 94171 04511 27678 78128 92918
43617 45768
000 000 *Courtesy BRIXMIS*

20/10	197 000					Strong
27/10	197 000					Strong

Thursday

September 2021

0430z	**6788kHz**	**0450z**	**7488kHz**	**0510z**	**8188kHz**		
02/09	741 000						Very strong
09/09	741 000						Very strong
16/09	741 000						Very strong
23/09	741 000						Strong QRM2
30/09	741 000					[0450zHetQRM2, see image below]	Very strong



E07a 0450z 30/09 1937Hz HETQRM2 '741 741 741 000'

October 2021

0430z	**6788kHz**	**0450z**	**7488kHz**	**0510z**	**8188kHz**		
07/10	741 1 60300 7598 72 03533 ... 45768 000 000						Strong QRM3
14/10	741 1 60300 7598 72 03533 ... 45768 000 000					[0430zStrong QRN2]	Weak QRN3
21/10	741 000					[0450zHETQRM2 - 1921Hz]	Strong
28/10	741 000						Strong QRM2

Friday

September 2021

1510z	**10583kHz**	**1530z**	**9383kHz**	**1550z**	**8183kHz**		
03/09	531 000			M8 QTH: Weak		[1510z V.weak]	Strong, QRM2
24/09	531 000						1510z Strong 1530z Fair

October 2021

1510z	**11424kHz**	**1530z**	**10124kHz**	**1550z**	**9124kHz**		
01/10	411 000						Fair QRM3
08/10	411 1 12825 593 64 91125 ... 77538 000 000						Fair

411 1 12825 593 64
91125 41648 40718 60981 34258 75603 90805 46041 74489 19324
24722 00671 25247 51825 86809 08376 78050 88328 74049 28681
11360 56363 15710 96781 95480 68792 17659 79459 16264 85713
79618 74408 46724 91522 87787 16041 76244 56335 60360 82794
80754 42043 44890 92352 64019 41399 61927 21293 24389 13302
99637 68596 05056 58689 62672 01227 83530 79836 40379 60500
92931 31393 76397 77538 000 000 *Courtesy HJH*

15/10	411 1 12825 593 64 91125 ... 77538 000 000						Strong
22/10	411 000						1510z Strong, 1530z Fair
29/10	411 000						Fair QRM2

Saturday

September 2021

0800z	**11153kHz**	**0820z**	**12153kHz**	**0840z**	**13453kHz**		
04/09	114 000						Weak
11/09	114 000						Weak
25/09	114 000					[0800z QRM4]	Fair [Weak with M8]

October 2021

0800z	**11484kHz**	**0820z**	**12184kHz**	**0840z**	**13384kHz**		
09/10	413 1 12825 593 64 91125 ... 77538 000 000					[0800z Weak]	Fair
16/10	413 1 12825 593 64 91125 ... 77538 000 000						Weak
30/10	413 000					0800z Fair 0820z Strong	

For this section PoSW offers his logs and analysis:

Wednesday Schedule, 2000 UTC Start:-
1-Sept-21:- 2000 UTC, 8144 kHz, “197 197 197 000”, very strong signal.
2020 UTC, 6944 kHz, also very strong. As expected, moving to lower frequencies in September.

8-Sept-21:- 2000 UTC, 8144 kHz, “197 197 197 000”, very strong.
2020 UTC, 6944 kHz, very strong.

15-Sept-21:- 2000 UTC, 8144 kHz and 2020 UTC, 6944 kHz, both S9+, “197 197 197 000”.

29-Sept-21:- 2000 UTC, 8144 kHz, “197 197 197 000”, very strong.
2020 UTC, 6944 kHz, also very strong.

6-Oct-21:- 2000 UTC, 8144 kHz, full message this evening, “197 197 197 1 60300, DK/GC “7598 72” x 2, very strong.
2020 UTC 6944 kHz, very strong.
2040 UTC, 5744 kHz, slightly weaker but still over S9.

20-Oct-21:- 2000 UTC, 8144 kHz and 2020 UTC, 6944 kHz, both strong – although not as strong as on most Wednesdays - “197 197 197 000”.

27-Oct-21:- 2000 UTC, 8144 kHz and 2020 UTC, 6944 kHz, “197 197 197 000”, both strong.

Friday Schedule, 1510 UTC Start:-
3-Sept-21:- 1510 UTC, 10583 kHz, “531 531 531 000”, weak signal.
1530 UTC, 9383 kHz, much stronger, peaking well over S9.

10-Sept-21:- 1510 UTC, 10583 kHz, very weak, unreadable.
1530 UTC, 9383 kHz, weak but clear, “531 531 531 000”.

17-Sept-21:- 1510 UTC, 10583 kHz, S6 and 1530 UTC, 9383 kHz, peaking S8, “531 531 531 000”.

24-Sept-21:- 1510 UTC, 10583 kHz and 1530 UTC, 9383 kHz, both strong – unusually, “531 531 531 000”.

1-Oct-21:- 1510 UTC, 11424 kHz, “411 411 411 000”, peaking around S7.
1530 UTC, 10124 kHz, weak at first then came up to S6 – S7.

8-Oct-21:- 1510 UTC, 11424 kHz, “411 411 411 1 12825” for a full message. DK/GC “593 64” x 2, S5 to S6.
1530 UTC, 10124 kHz, stronger, S7 to S8.
1550 UTC, 8124 kHz, even stronger, well over S9.

15-Oct-21:- 1510 UTC, 11424 kHz, “411...1...12825” and “593 45” for the second week in a row. Weak signal.
1530 UTC, 10124 kHz, stronger.
1550 UTC, 8124 kHz, strongest, over S9.

22-Oct-21:- 1510 UTC, 11424 kHz, “411 411 411 000”, strong with QSB.
1530 UTC, 10124 kHz, weaker.

29-Oct-21:- 1510 UTC, 11424 kHz, S8 and 1530 UTC, 10124 kHz, weaker, “411 411 411 000”.

Saturday Schedule, 0800 UTC Start:-
4-Sept-21:- 0800 UTC, 11153 kHz, “114 114 114 000”, very weak, only became readable just before 0802z.
0820 UTC, 12153 kHz, much stronger, S7 to S9.

11-Sept-21:- 0800 UTC, 11153 kHz, “114 114 114 000”, weak signal.
0820 UTC, 12153 kHz, much stronger.

18-Sept-21:- 0800 UTC, 11153 kHz and 0820 UTC, 12153 kHz, both around S6, “114 114 114 000”.

25-Sept-21:- 0800 UTC, 11153 kHz, weak signal and 0820 UTC, 12153 kHz, stronger, “114 114 114 000”.

2-Oct-21:- 0800 UTC, 11484 kHz, “413 413 413 000”, good signal, peaking around S8.
0820 UTC, 12184 kHz, strong, over S9.

9-Oct-21:- 0800 UTC, 11484 kHz, “413 413 413 1 12825”, as expected the same message as heard on Friday the 8th, DK/GC “593 64” x 2. S5 to S6.
0820 UTC, 12184 kHz, also S5 to S6.
0840 UTC, 13384 kHz, weak.

23-Oct-21:- 0800 UTC, 11484 kHz, “413 413 413 000”, S6 to S7.
0820 UTC, 12184 kHz, stronger.

30-Oct-21:- 0800 UTC, 11484 kHz and 0820 UTC, 12184 kHz, both good signals, 2413 413 413 000”.

E11 & E11a log Sept/Oct

4181kHz	1910z	01/09 [392/00] Out 1913z S9	Malc, HfD	WED
	1910z	04/09 [392/00] Out 1913z S9+10	Malc	SAT
	1910z	08/09 [396/00] Out 1913z S7	Malc	WED
	1910z	11/09 [393/00] Out 1913z S7	Malc	SAT
	1910z	15/09 [391/40 81985…….11975] Out 1916z S9	Malc	WED
	1910z	22/09 [395/00] Out 1913z S9	Malc	WED
	1910z	25/09 [392/00] Out 1913z S9	Malc	SAT
	1910z	29/09 [392/00] Out 1913z S7	Malc	WED
	1910z	06/10 [390/00] Out 1913z S9	Malc	WED
	1910z	09/10 [396/00] Out 1913z S7	Malc	SAT
	1910z	13/10 [396/37 57388 48091 05514…….51536] Out 1920z S7	Malc, Brixmis	WED
	1910z	16/10 [396/37 57388…..etc] Repeat of Wednesday	Malc	SAT
	1910z	20/10 [390/00] Out 1913z S9	Malc, Brixmis	WED
	1910z	23/10 [396/00] Out 1913z S9	Malc	SAT
	1910z	27/10 [392/00] Out 1913z S8	Malc, Brixmis	WED
	1910z	30/10 [395/00] Out 1913z S9	Malc	SAT
4505kHz	1530z	04/09 [365/00] Out 1533z S3 (Dutch SDR)	Malc, HfD	SAT
	1530z	05/09 [366/00] Out 1533z S2	Malc, XAH	SUN
	1530z	11/09 [364/00] Out 1533z S2	Malc	SAT
	1530z	12/09 [365/00] Out 1533z S2	Malc	SUN
	1530z	25/09 [366/35 84603……59355] Out 1540z S3	Malc	SAT
	1530z	26/09 [366/35 84603…..etc] Repeat of Saturday	Malc	SUN
	1530z	10/10 [366/00]	Brixmis, Malc	SUN
	1530z	16/10 [368/00] Out 1533z S4	Malc	SAT
	1530z	17/10 [368/00] Out 1533z S2	Malc	SUN
	1530z	23/10 [364/00] Out 1533z S2	Malc	SAT
	1530z	24/10 [524/00] Out 1533z S3	Malc	SUN
	1530z	30/10 [363/00] Out 1533z S3	Malc	SAT
	1530z	31/10 [363/00] Out 1533z S3	Malc	SUN
5082khz	1605z	05/09 [237/00] Out 1608z S2	Malc, XAH, HfD	SUN
	1605z	07/09 [238/34 09990……..66520] Out 1615z S4	Malc	TUE
	1605z	12/09 [238/34 09990….etc] Repeat of Tuesday	Malc	SUN
	1605z	21/09 [233/00] Out1608z S2	Malc	TUE
	1605z	26/09 [237/00] Out 1608z S5	Malc	SUN
	1605z	28/09 [238/00] Out 1608z S4	Malc	TUE
	1605z	05/10 [235/00] Out 1608z S4	Malc	TUE
	1605z	10/10 [238/00] Out 1608z S5	Malc	SUN
	1605z	12/10 [236/00] Out 1608z S3	Malc	TUE
	1605z	17/10 [231/00] Out 1608z S3	Malc, Brixmis	SUN
	1605z	19/10 [238/38 41679 50755 99605 50074 70828 85976 20205 94218…….61738 26389]	Gary H	TUE
	1605z	24/10 [238/38 41679….etc] Repeat of Tuesday	Malc	SUN
	1605z	26/10 [236/00] Out 1608z S4	Malc, Gary H	TUE
	1605z	31/10 [235/00] Out 1608z S5	Malc	SUN
5371kHz	1300z	02/09 [311/00] Out 1303z S3 (Dutch SDR)	Malc, HfD	THU
	1300z	06/09 [315/00] Out 1303z S2 (Dutch SDR)	Malc	MON
	1300z	09/09 [319/00] Out 1303z S3 (Dutch SDR)	Malc	THU
	1300z	13/09 [310/00] Out 1303z S2	Malc	MON
	1300z	16/09 [313/00]	XAH	THU
	1300z	20/09 [314/32 46017 02656 82630 08381 64146 42825 23010 74260……52769 03394]	RNGB	MON
	1300z	23/09 [314/32 46017 02656 82630 08381 64146 42825 23010.....52769 03394] Out 1310z S3	XAH, Malc	THU
	1300z	27/09 [316/00] Out 1303z S4 (Dutch SDR]	Malc	MON
	1300z	30/09 [310/00] Out 1303z S2	Malc	THU
	0450z	04/10 [412/00]	HfD	MON
	1300z	04/10 [313/00] Out 1303z S2	Malc	MON
	1300z	07/10 [310/00] Out 1303z S2	Malc	THU
	1300z	11/10 [316/39 44356…….47653] Out 1311z S2	Malc	MON
	1300z	14/10 [516/39 44356……etc] Repeat of Monday	Malc	THU
	1300z	18/10 [319/00] Out 1303z S2	Malc	MON
	0450z	18/10 [415/00]	HfD	MON
	1300z	25/10 [314/00] Out 1333z S2	Malc	MON
	1300z	28/10 [310/00] Out 1303z S3	Malc	THU

5737kHz	1330z	02/09 [524/36 65352……..06698] Out 1341z S2	Malc, HfD	THU
	1330z	09/09 [524/00] Out 1333z S3 (Dutch SDR)	Malc	THU
	1330z	12/09 [527/00] Out 1333z S2	Malc	SUN
	1330z	16/09 [525/00]	XAH	THU
	1330z	23/09 [522/00] Out 1333z S3 (Dutch SDR)	Malc, XAH	THU
	1330z	26/09 [521/00] Out 1333z S2	Malc	SUN
	1330z	30/09 [520/00] Out 1333z S2	Malc	THU
	1330z	14/10 [527/00] Out 1333z S3	Malc	THU
	1330z	17/10 [528/00] Out 1333z S3	Malc	SUN
	1330z	24/10 [524/00] Out 1333z S3 (Dutch SDR)	Malc	SUN
	1330z	28/10 [521/39 90590…….41606] Out 1341z S2	Malc	THU
5941kHz	0820z	09/09 [434/31 34593 60364 35721 31889 63877 28282 34765……08850 50199] Out 0829z S3	RNGB, Malc, HfD	THU
	0820z	10/09 [434/31 34593….etc] repeat of Thursday	Malc	FRI
	0820z	17/09 [438/00]	RNGB	FRI
	0820z	23/09 [435/00] Out 0823z S2	Malc, XAH	THU
	0820z	24/09 [432/00] Out 0823z S2 (Dutch SDR)	Malc	FRI
	0820z	01/10 [439/00]	RNGB	FRI
	0820z	07/10 [435/00] Out 0823z S4	Malc, RNGB	THU
	0820z	14/10 [434/00] Out 0823z S2	Malc, RNGB	THU
	0820z	15/10 [431/00] Out 0823z S3	Malc, RNGB	FRI
	0820z	22/10 [431/32 66759 86400 78946 66056 42794 89840 59645 36673…….01954] Out 0830z S3	RNGB, Malc	FRI
	0820z	28/10 [439/00] Out 0823z S2	Malc	THU
	0820z	29/10 [432/00] Out 0823z S2	Malc	FRI
6923kHz	1205z	01/09 [465/00] Out 1208z S2	Malc, HfD	WED
	1625z	01/09 [974/00] Out 1628z S4	Malc, HfD	WED
	1625z	05/09 [975/00] Out 1628z S3	Malc, XAH	SUN
	1205z	07/09 [466/35 82226……02904] Out 1215z S3	Malc	TUE
	1205z	08/09 [466/35 82226…..etc] Repeat of Tuesday	Malc	WED
	1625z	08/09 [975/00] Out 1628z S5	Malc, XAH	WED
	1625z	12/09 [970/00] Out 1628z S4	Malc	SUN
	1205z	15/09 [463/00] Out 1208z S3	Malc	WED
	1625z	15/09 [976/00] Out 1628z S7	Malc	WED
	1205z	21/09 [460/00] Out 1208z S2	Malc, XAH	TUE
	1205z	22/09 [462/00] Out 1208z S2	Malc	WED
	1625z	22/09 [972/32 42904……12150] Out 1235z S5	Malc	WED
	1625z	26/09 [972/32 42904….etc] Repeat of Wednesday	Malc	SUN
	1205z	28/09 [463/00] Out 1208z S2	Malc	TUE
	1205z	29/09 [461/00] Out 1208z S2	Malc	WED
	1625z	29/09 [977/00] Out 1628z S3	Malc	WED
	1205z	05/10 [465/00] Out 1208z S2	Malc	TUE
	1715z	06/10 [974/00]	Ary	WED
	1205z	06/10 [465/00] Out 1208z S2	Malc	WED
	1205z	12/10 [463/34 74476……..27722] Out 1215z S2	Malc	TUE
	1205z	13/10 [463/34 74476…..etc] Repeat of Tuesday	Malc	WED
	1715z	13/10 [975/00] Out 1718z S5	Malc	WED
	1715z	15/10 [975/00] Out 1718z S6	Malc	FRI
	1205z	19/10 [461/00] Out 1208z S2	Malc	TUE
	1205z	19/10 [461/00] Out 1208z S2	Malc	TUE
	1715z	20/10 [970/40 66623…….49602] Out 1725z S5	Malc	WED
	1715z	22/10 [970/40 66623….etc] Repeat of Wednesday	Malc	FRI
	1205z	26/10 [460/00] Out 1208z S3	Malc	TUE
	1205z	27/10 [465/00] Out 1208z S2	Malc, Brixmis	WED
	1715z	27/10 [977/00] Out 1718z S4	Malc	WED
	1715z	29/10 [975/00] Out 1718z S7	Malc	FRI
6940kHz	0930z	01/09 [276/00] Out 0933z S2	Malc, HfD	WED
	0930z	02/09 [279/00] Out 0933z S2	Malc, RNGB	THU
	0930z	08/09 [270/32 12791…….72492] Out 0940z S2	Malc	WED
	0930z	09/09 [270/32 12791…..etc] Repeat of Wednesday	Malc	THU
	0930z	15/09 [279/00] Out 0933z S2	Malc	WED
	0930z	16/09 [278/00]	RNGB	THU
	0930z	22/09 [273/00] Out 0933z S3	Malc	WED
	0930z	23/09 [278/00] Out 0933z S2	Malc	THU
	0930z	29/09 [271/00] Out 0933z S2	Malc	WED
	0930z	30/09 [271/00] Out 0933z S3+QRM	Malc	THU
	0930z	06/10 [275/00] Out 0933z S3	Malc	WED
	0930z	07/10 [277/00] Out 0933z S2	Malc. RNGB	THU
	0930z	13/10 [277/00] Out 0933z S3	Malc	WED
	0930z	14/10 [273/00] Out 0933z S2	Malc	THU
	0930z	20/10 [279/32 46636…….79432] Out 0940z S3	Malc	WED

6940kHz	0930z	27/10 [275/00] Out 0933z S2	Malc	WED
	0930z	28/10 [270/00] Out 0933z S2	Malc	THU
7317kHz	1045z	01/09 [698/00] Out 1048z S2	Malc, RNGB, HfD	WED
	1900z	02/09 [644/00] Out 1903z S5	Malc, HfD	THU
	1045z	06/09 [691/00] Out 1048z S2	Malc	MON
	1900z	06/09 [648/31 03822……. 44768] Out 1909z S7	Malc	MON
	1045z	08/09 [694/00] Out 1048z S3	Malc	WED
	1900z	09/09 [648/31 03822…….44768] Out 1909z S6	Malc	THU
	1045z	13/09 [697/00] Out 1048z S2	Malc	MON
	1900z	13/09 [646/00] Out 1903z S7	Malc	MON
	1045z	15/09 [697/36 00487…….69477] Out 1056z S3	Malc	WED
	1045z	20/09 [692/00] Out 1048z	XAH	MON
	1045z	22/09 [696/00] Out 1048z S3	Malc	WED
	1900z	23/09 [640/00] Out 1903z S3	Malc	THU
	1045z	27/09 [691/00] Out 1048z S2	Malc	MON
	1900z	27/09 [643/00] Out 1913z S9	Malc	MON
	1900z	30/09 [643/00]	Gary H	THU
	1045z	04/10 [696/24 20951……etc]	Brixmis	MON
	1900z	04/10 [644/00] Out 1903z S7	Malc	MON
	1045z	06/10 [696/24 20951…….86868] Out 1053z S5	Malc	WED
	1900z	07/10 [641/00] Out 1903z S9	Malc, Brixmis	THU
	1045z	11/10 [693/00]	Brixmis, Malc	MON
	1900z	11/10 [641/00] Out 1903z S5	Malc, Brixmis	MON
	1045z	13/10 [692/00] Out 1048z S2	Malc	WED
	1900z	14/10 [640/00] Out 1903z S5	Malc, Brixmis	THU
	1045z	18/10 [697/00] Out 1048z S3	Malc	MON
	1900z	18/10 [647/33 45084…….85837] Out 1910z S3	Malc	MON
	1045z	20/10 [696/00]	Brixmis, Malc	WED
	1045z	25/10 [696/00] Out 1048z S2	Malc	MON
	1900z	25/10 [640/00] Out 1903z S6	Malc	MON
	1045z	27/10 [690/00] Out 1048z S2	Malc	WED
7864kHz	1730z	02/09 [414/00] Out 1733z S3	Malc, HfD	THU
	1730z	09/09 [411/00] Out 1733z S4	Malc	THU
	1730z	23/09 [411/00] Out 1733z S3	Malc	THU
	1730z	30/09 [415/00] Out 1733z S5	Malc	THU
	1730z	07/10 [411/00] Out 1733z S5	Malc, dMHz	THU
	1730z	14/10 [43308…….12615]] Out 1741z S7 QSB3	Malc	THU
	1730z	28/10 [411/00] Out 1733z S9	Malc	THU
8180kHz	0700z	03/09 [574/00] Out 0703z S5	Malc, RNGB, HfD	FRI
	0700z	07/09 [576/00] Out 0703z S2	Malc, RNGB	TUE
	0700z	10/09 [575/00] Out 0703z S5	Malc	FRI
	0700z	17/09 [573/34 04785 11607 63703 36020 39555 04699 68398 48805……59489 61588]	RNGB, XAH	FRI
	0700z	21/09 [570/00] Out 0703z S4	Malc, RNGB	TUE
	0700z	24/09 [571/00] Out 0703z S2	Malc	FRI
	0700z	28/09 [574/00] Out 0703z S3	Malc	TUE
	0700z	05/10 [579/00] Out 0703z S4	Malc	TUE
	0700z	12/10 [576/00] Out 0703z S2	Malc	TUE
	0700z	15/10 [577/00] Out 0703z S4	Malc	FRI
	0700z	19/10 [571/00] Out 0703z S5	Malc, RNGB	TUE
	0700z	22/10 [574/00] Out 0703z S5	Malc, RNGB	FRI
	0700z	26/10 [576/38 76419 60759 83260 47625 74558 06775 42224 64059…….75751 36237] Out 0710z	RNGB, Malc	TUE
	0700z	29/10 [576/38 76419…..etc] Repeat of Tuesday	RNGB	FRI
8423kHz	0645z	02/09 [511/00] Out 0648z S2	Malc, RNGB, HfD	THU
	0645z	07/09 [510/00] Out 0648z S3	Malc	TUE
	0645z	09/09 [517/00] Out 0648z S3	Malc. RNGB	THU
	0645z	16/09 [518/00]	RNGB	THU
	0645z	21/09 [510/00] Out 0648z S3	Malc, XAH	TUE
	0645z	23/09 [519/00] Out 0648z S3	Malc, XAH	THU
	0645z	28/09 [510/35 86616…..51973] Out 0655z S3	Malc	TUE
	0645z	30/09 [510/35 86616…..etc] Repeat of Tuesday	Malc	THU
	0645z	05/10 [510/34 57470…….47414] Out 0655z S4	Malc	TUE
	0645z	07/10 [510/34 57470….etc] Repeat of Tuesday	Malc	THU
	0645z	12/10 [512/00] Out 0648z S2+QRM	Malc	TUE
	0645z	14/10 [514/00] Out 0648z S3	Malc	THU
	0645z	19/10 [519/00] Out 0648z S5	Malc, RNGB	TUE
	0645z	26/10 [512/00] Out 0648z S4	Malc	TUE
	0645z	28/10 [514/00] Out 0648z S4	Malc	THU

8530kHz	1910z	03/09 [614/34 95990……..80618] Out 1920z S8	Malc, HfD	FRI
	1910z	03/09 [614/34 95990……etc] Repeat of Friday	Malc	SUN
	1910z	10/09 [616/00] Out 1913z S7	Malc	FRI
	1910z	12/09 [616/00] Out 1913z S7	Malc	SUN
	1910z	24/09 [618/00] Out 1913z S7	Malc	FRI
	1910z	26/09 [614/00] Out 1913z S3	Malc	SUN
	1910z	08/10 [613/00]	RNGB	FRI
	1910z	10/10 [611/00]	Brixmis	SUN
	1910z	15/10 [616/32 61101…….56734] Out 1920z S2 (Dutch SDR)	Malc	FRI
	1910z	24/10 [617/00] Out 1913z S9	Malc	SUN
	1910z	29/10 [610/00] Out 1913z S9	Malc, Brixmis	FRI
8680kHz	0600z	05/09 [350/00] Out 0603z S3	Malc	SUN
	0600z	17/09 [351/00]	XAH	FRI
	0600z	24/09 [350/00]	HfD	FRI
	0600z	26/09 [351/00] Out 0603z S5	Malc	SUN
9079kHz	0730z	04/09 [491/00]	Ary	SAT
	0730z	05/09 [498/00] Out 0733z S6	Malc, HfD	SUN
	0730z	11/09 [491/00] Out 0733z S3	Malc, RNGB	SAT
	0730z	12/09 [496/00] Out 0733z S2	Malc	SUN
	0730z	25/09 [495/35 76887…….09378] Out 0740z S3	Malc	SAT
	0730z	26/09 [495/35 76887….etc] Repeat of Saturday	Malc	SUN
	0730z	02/10 [495/00]	HfD	SAT
	0730z	03/10 [496/00]	RNGB	SUN
	0700z	09/10 [497/32 59670 85940 42623 47893 55569 04876 14236……03233] Out 0740z S5	RNGB, Malc	SAT
	0700z	10/10 [497/32 59670….etc] Repeat of Saturday	Malc	SUN
	0730z	16/10 [497/00] Out 0733z S3	Malc, RNGB	SAT
	0730z	17/10 [490/00] Out 0733z S3	Malc	SUN
	0730z	23/10 [496/00] Out 0733z S3	Malc	SAT
	0730z	24/10 [496/00] Out 0733z S3	Malc	SUN
	0730z	30/10 [490/00] Out 0733z S3	Malc	SAT
	0730z	31/10 [495/00] Out 0733z S4	Malc	SUN
9951kHz	1000z	03/09 [306/00]	Ary	FRI
	1000z	07/09 [305/20 54189…….70927] Out 1007z S2	Malc, HfD	TUE
	1000z	10/09 [305/20 54189….etc] Repeat of Tuesday	Malc	FRI
	1000z	21/09 [306/00] Out 1003z S3	Malc	TUE
	1000z	24/09 [306/00] Out 1003z S2	Malc	FRI
	1000z	28/09 [305/00] Out 1003z S2	Malc	TUE
	1000z	05/10 [306/00] Out S3	Malc, RNGB	TUE
	1000z	12/10 [302/00] Out 1003z S4	Malc	TUE
	1000z	19/10 [307/00] Out 1003z S3	Malc	TUE
	1000z	22/10 [306/00] Out 1003z S3	Malc, Brixmis	FRI
	1000z	26/10 [307/35 03489…….19161] Out 1010z S3	Malc	TUE
	1000z	29/10 [307/35 03489….etc] Repeat of Tuesday	Malc	FRI
9963kHz	0715z	03/09 [633/00] Out 0718z S5	Malc, RNGB, HfD	FRI
	0715z	07/09 [635/38 98002 41392 48217 57376 64795 98656 38178……05519 9378093780] Out 0726z	RNGB, Malc	TUE
	0715z	10/09 [635/38 98002….etc] Repeat of Tuesday	Malc	FRI
	0715z	17/09 [630/00] Out 0718z	XAH, RNGB	FRI
	0715z	21/09 [631/00] Out 0718z S5	Malc, RNGB	TUE
	0715z	24/09 [635/00] Out 0718z S5	Malc	FRI
	0715z	28/09 [631/00] Out 0718z S4	Malc	TUE
	0715z	05/10 [630/00] Out 0718z S9	Malc	TUE
	0715z	12/10 [633/00] Out 0718z S3	Malc	TUE
	0715z	15/10 [636/00] Out 0718z S4	Malc	FRI
	0715z	19/10 [631/00] Out 0718z S5	Malc, RNGB	TUE
	0715z	22/10 [630/00] Out 0715z S3	Mal, RNGB	FRI
	0715z	26/10 [639/38 40666 45893 33194 77414 34133 15949 80201……34983 33250] Out 0726z S4	RNGB, Malc	TUE
	0715z	29/10 [639/38 40666…..etc] Repeat of Tuesday	Malc	FRI
9968kHz	0900z	06/09 [532/00] Out 0903z S3	Malc, HfD	MON
	0900z	08/09 [530/00] Out 0903z S6	Malc	WED
	0900z	13/09 [534/00] Out 0903z S4	Malc, XAH	MON
	0900z	15/09 [532/00] Out 0903z S4	Malc	WED
	0900z	20/09 [534/32 85307 65628 17964 98861 57287 70652 85964……04996]	RNGB	MON
	0900z	22/09 [534/32 85307…….04996] Out 0910z S3	Malc	WED
	0900z	27/09 [533/00] Out 0903z S2	Malc, RNGB	MON
	0900z	29/09 [532/00] Out 0903z S3	Malc	WED
	0900z	04/10 [538/00] Out 0903z S5	Malc	MON
	0900z	06/10 [537/00] Out 0903z S3	Malc	WED

9968kHz	0900z	11/10 [538/00] Out 0903z S3	Malc	MON
	0900z	13/10 [536/00] Out 0903z S3	Malc	WED
	0900z	18/10 [534/35 38357…….26030] Out 0910z S2	Malc	MON
	0900z	20/10 [534/35 38357….etc] Repeat of Monday	Malc	WED
	0900z	25/10 [533/00] Out 0903z S2	Malc	MON
	0900z	27/10 [537/00] Out 0903z S3	Malc	WED
10213khz	0745z	06/09 [269/00] Out 0748z S3	Malc	MON
	0745z	13/09 [260/36 90212 79631 07202 73398 12836 13823 93751 63240……86693 32934] Out 0755z	RNGB, Malc	MON
	0745z	20/09 [264/00]	RNGB	MON
	0745z	27/09 [262/00] Out 0748z S7	Malc	MON
	0745z	04/10 [262/00] Out 0748z S6	Malc	MON
	0745z	11/10 [267/00]	Brixmis, Malc	MON
	0745z	18/10 [266/00] Out 0748z S3	Malc, RNGB	MON
	0745z	25/10 [264/32 12641…….61892] Out 0755z S9	Malc	MON
10330kHz	1530z	02/09 [261/00] Out 1533z S9	Malc, HfD	THU
	1530z	09/09 [261/00] Out 1533z S9	Malc	THU
	1530z	23/09 [262/00] Out 1533z S9	Malc, Gary H	THU
	1530z	30/09 [267/00] Out 1533z S9	Malc	THU
	1530z	14/10 [264/00] Out 1533z S9	Malc	THU
	1530z	20/10 [261/00]	Gary H	THU
	1530z	28/10 [264/32 12641 82441 62916 95266 81474 96485 79238 05190……78127 61892] Out 1540z	Gary H, Malc, Brixmis	THU
11092khz	0315z	09/09 [250/00]	HfD	THU
11116kHz	1650z	03/09 [927/00] Out 1653z S2	Malc, HfD	FRI
	1650z	05/09 [921/00] Out 1653z S7	Malc, XAH	SUN
	1650z	10/09 [920/00] Out 1653z S9	Malc	FRI
	1650z	12/09 [920/00] Out 1653z S2	Malc	SUN
	1650z	24/09 [929/00] Out 1653z S9	Malc	FRI
	1650z	26/09 [920/00] Out 1653z S7	Malc	SUN
	1650z	10/10 [922/40 07936…….09600] Out 1701z S5	Malc	SUN
	1650z	15/10 [927/00] Out S5	Malc, RNGB	FRI
	1650z	17/10 [927/00] Out 1653z S3	Malc	SUN
	1650z	22/10 [920/00]	Gary H	FRI
	1650z	24/10 [927/00] Out 1653z S8	Malc	SUN
	1650z	29/10 [927/00] Out 1653z S7	Malc, Gary H	FRI
	1650z	31/10 [927/00] Out 1653z S5	Malc	SUN
12202kHz	0845z	01/09 [711/00] Out 0848z S4	Malc, RNGB, HfD	WED
	0845z	02/09 [150/00] Out 0848z S4	Malc, RNGB, HfD	THU
	0845z	06/09 [718/00] Out 0848z S6	Malc	MON
	0845z	06/09 [718/00] Out 0848z S6	Malc	MON
	0845z	07/09 [152/23 89105 87650 87504 68887 60284 83275 91789 28044……50118 35904] Out 0853z	RNGB. Malc	TUE
	0845z	08/09 [718/00] Out 0848z S9	Malc	WED
	0845z	09/09 [152/23 89105…….35904] Out 0853z S3	Malc	THU
	0845z	13/09 [714/00] Out 0848z S3	Malc, XAH	MON
	0845z	14/09 [152/00]	RNGB	TUE
	0845z	15/09 [711/00] Out 0848z S5	Malc	WED
	0845z	21/09 [150/00] Out 0848z S6	Malc	TUE
	0845z	22/09 [714/34 57566 48926 30831 89930 69436 96060 94691…….12332] Out 0855z S4	RNGB, Malc	WED
	0845z	23/09 [156/00] Out 0848z S9	Malc, XAH	THU
	0845z	27/09 [711/00] Out 0848z S5	Malc	MON
	0845z	29/09 [714/00] Out 0848z S9	Malc	WED
	0845z	30/09 [152/00] Out 0848z S4	Malc	THU
	0845z	04/10 [716/36 36148…….48755] Out 0856z S7	Malc	MON
	0845z	05/10 [156/00] Out S5	Malc	TUE
	0845z	06/10 [716/36 36148……etc] repeat of Monda	Malc	WED
	0845z	07/10 [155/00] Out 0848z S4	Malc, RNGB	THU
	0845z	11/10 [711/00] Out 0848z S8	Malc	MON
	0845z	12/10 [156/00] Out 1048z S5	Malc	TUE
	0845z	13/10 [710/00] Out 0848z S3	Malc	WED
	0845z	14/10 [151/00] Out 0848z S3	Malc, RNGB	THU
	0845z	18/10 [710/00] Out 0848z S2	Malc, RNGB	MON
	0845z	19/10 [152/00] Out 0848z S5	Malc, RNGB	TUE
	0845z	20/10 [716/00] Out 0848z S3	Malc	WED
	0845z	25/10 [716/00] Out 0848z S5	Malc	MON
	0845z	26/10 [155/35 70036…….09935] Out 0855z S5	Malc	TUE
	0845z	27/10 [711/00] Out 0848z S3	Malc	WED
	0845z	28/10 [155/35 70036…….09935] Out 0855z S5	Malc	THU

12530kHz	1230z	09/09 [337/00]	Ary	THU
	1230z	21/09 [330/00] Out 1233z S4	Malc	TUE
	1230z	23/09 [335/00] Out 1233z S3	Malc, XAH	THU
	1230z	28/09 [333/00] Out 1233z S5	Malc	TUE
	1230z	30/09 [332/00] Out 1233z S3	Malc	THU
	1230z	05/10 [334/00] Out 1233z S4	Malc	TUE
	1230z	07/10 [337/00] Out 1233z S7	Malc	THU
	1230z	12/10 [333/25 73638…….66232] Out 1240z S3	Malc	TUE
	1230z	14/10 [333/35 73638….etc] Repeat of Tuesday	Malc	THU
	1230z	19/10 [337/00] Out 1233z S5	Malc	TUE
	1230z	26/10 [337/00] Out 1233z S4	Malc	TUE
	1230z	28/10 [335/00] Out 1233z S3	Malc	THU
13470kHz	1745z	05/09 [247/00] Out 1748z S2	XAH, Malc. HfD	SUN
	1745z	06/09 [244/00] Out 1748z S2	Malc	MON
	1745z	12/09 [247/00] Out 1748z S3 (Dutch SDR)	Malc	SUN
	1745z	13/09 [242/00] Out 1748z S2+QRM	Malc	MON
	1745z	26/09 [240/35 57598…….48499] Out 1755z S2	Malc	SUN
	1745z	27/09 [249/00] Out 1748z S2	Malc	MON
	1745z	10/10 [249/37 63736…….18999] Out 1756z S3 (Dutch SDR)	Malc	SUN
	1745z	11/10 [248/00] Out 1748z S2 (Dutch SDR)	Malc	MON
	1745z	17/10 [245/00] Out 1748z S2 (Dutch SDR)	Malc	SUN
	1745z	18/10 [247/00] Out 1748z S2	Malc	MON
	1745z	24/10 [245/00] Out 1748z S2 (Dutch SDR)	Malc	SUN
	1745z	25/10 [248/00] Out 1748z S2	Malc	MON
	1745z	31/10 [240/00] Out 1748z S2	Malc	SUN
14865kHz	0640z	01/09 [942/00] Out 0643z	Malc, RNGB	WED
	0745z	02/09 [224/00]	RNGB, HfD	THU
	0640z	06/09 [948/24 36741 92849 57733 59635 80213 47266 68072……00851] Out 0648z S3	RNGB, Malc, HfD	MON
	0745z	07/09 [223/00] Out 0748z S2	Malc, RNGB	TUE
	0640z	08/09 [948/24 36741…….00851] Out 0647z S2 (Dutch SDR)	Malc	WED
	0745z	09/09 [229/00] Out 0748z S3	Malc, RNGB	THU
	0640z	15/09 [946/00] Out 0643z S3 (Dutch SDR)	Malc, RNGB	WED
	0745z	21/09 [228/00] Out 0748z S2	Malc, RNGB	TUE
	0640z	22/09 [942/00] Out 0643z S2 (Dutch SDR)	Malc	WED
	0745z	23/09 [229/00] Out 0748z S2	Malc, XAH	THU
	0640z	27/09 [944/00] Out 0643z S3 (Dutch SDR)	Malc	MON
	0745z	28/09 [225/00] Out 0748z S2	Malc, RNGB	TUE
	0640z	29/09 [946/00] Out 0643z S2	Malc	WED
	0745z	30/09 [225/00] Out 0748z S3	Malc	THU
	0640z	04/10 [942/43 81567…….59433] Out 0653z S2 (Dutch SDR)	Malc	MON
	0745z	05/10 [220/00] Out 0748z S2	Malc, RNGB	TUE
	0640z	06/10 [942/23 81567…….59433] Out 0648z S3 (Dutch SDR)	Malc	WED
	0745z	07/10 [220/00] Out 0748z S2	Malc	THU
	0640z	11/10 [949/00] Out 0643z S2 (Dutch SDR)	Malc	MON
	0745z	12/10 [220/00] Out 0748z S2 (Dutch SDR)	Malc, RNGB	TUE
	0640z	13/10 [942/00] Out 0643z S2	Malc	WED
	0745z	14/10 [229/00] Out 0748z S2	Malc, RNGB	THU
	0640z	18/10 [941/00]	RNGB	MON
	0745z	19/10 [228/35 17529 92591 79161 54036 74719 91520 00238 14760……06204] Out 0755z S3	RNGB, Malc	TUE
	0640z	20/10 [941/00] Out 0643z S2	Malc, RNGB	WED
	0640z	25/10 [946/00] Out 0643z S2 (Dutch SDR)	Malc	MON
	0745z	26/10 [224/00] Out 0748z S6	Malc	TUE
	0640z	27/10 [945/00] Out 0643z S2	Malc	WED
	0745z	28/10 [221/00] Out 0748z S9	Malc	THU
14972kHz	1345z	04/09 [914/00] Out 1348z S2	Malc	SAT
	1345z	07/09 [910/00] Out 1348z S2 (Italian SDR)	Malc	TUE
	1345z	21/09 [917/31 86261…….16393] Out 1355z S5	Malc	TUE
	1345z	25/09 [917/31 86261…..etc] Repeat of Tuesday	Malc	SAT
	1345z	28/09 [917/00] Out 1348z S4	Malc, RNGB	TUE
15632kHz	0715z	06/09 [754/35 34957 71593 33945 99356 5446682801 21394…….97631 84522] Out 0725z S2	RNGB, Malc	MON
	0715z	08/09 [754/35 34957….etc] Repeat of Monday	Malc	WED
	0715z	13/09 [754/00] Out 0718z S3	Malc	MON
	0715z	15/09 [752/00] Out 0718z S2	Malc, RNGB, HfD	WED
	0715z	20/09 [751/00]	RNGB	MON
	0715z	22/09 [750/00] Out 0718z S2	Malc, RNGB	WED
	0715z	27/09 [751/00] Out 0718Z S3 (Dutch SDR)	Malc	MON
	0715z	29/09 [750/00] Out 0718z S2	Malc, RNGB	WED
	0715z	04/10 [751/00] Out 0718z S2	Malc, RNGB	MON

	0715z	06/10 [755/00] Out 0718z S2	Malc	WED
	0715z	11/10 [759/00] Out 0718z S2	Malc	MON
	0715z	13/10 [755/00] Out 0718z S2	Malc	WED
	0715z	20/10 [753/34 18848 05713 58786 08689 84204 48679 36598……02972 42014] Out 0725z S2	RNGB, Malc	WED
	0715z	25/10 [750/00] Out 0718z S5	Malc	MON
	0715z	27/10 [759/00] Out 0718z S4	Malc	WED
17410kHz	0745z	01/09 [342/39 47125 68816 61608 58228 24783 32212 91317……94103 75050] Out 0756z S3	RNGB, Malc, HfD	WED
	0745z	03/09 [342/39 47125…..etc] Repeat of Wednesday	RNGB	FRI
	0745z	08/09 [346/00] Out 0748z S2 (Dutch SDR)	Malc	WED
	0745z	10/09 [340/00] Out 0748z S2 (Dutch SDR)	Malc	FRI
	0745z	15/09 [349/00] Out 0748z S2	Malc	WED
	0745z	17/09 [346/00]	RNGB	FRI
	0745z	22/09 [349/00] Out 0748z S2 (Dutch SDR)	Malc	WED
	0745z	24/09 [347/00]	Ary, Malc, RNGB	FRI
	0745z	29/09 [342/00] Out 0748z S2 (Dutch SDR)	Malc, RNGB	WED
	0745z	01/10 [343/00]	RNGB	FRI
	0745z	06/10 [344/00] Out 0748z S2 (Dutch SDR)	Malc	WED
	0745z	08/10 [344/00]	RNGB	FRI
	0745z	15/10 [346/33 16376 01336 79324 96540 47818 79603 11735……70611 11535] Out 0755z S2	RNGB, Malc	FRI
	0745z	20/10 [344/00] Out 0748z S2 (Dutch SDR)	Malc, RNGB	WED
	0745z	22/10 [348/00] Out 0748z S2 (Dutch SDR)	Malc, RNGB	FRI
	0745z	27/10 [344/00] Out 0748z S2	Malc, RNGB	WED
	0745z	29/10 [349/00] Out 0748z S2 (Dutch SDR)	Malc	FRI
19184kHz	0820z	01/09 [133/00] Out 0823z S2	Malc, RNGB, HfD	WED
	0820z	07/09 [138/00]	RNGB	TUE
	0820z	08/09 [130/00] Out 0823z S3 (Swiss SDR)	Malc	WED
	0820z	14/09 [134/00]	RNGB	TUE
	0820z	15/09 [133/00] Out 0823z S4 (Finnish SDR)	Malc	WED
	0820z	21/09 [135/36 73415 76031 22755 45634 18324 83335 73411……54906 04709]	RNGB	TUE
	0820z	22/09 [135/36 73415…….04709] Out 0830z S2 (Finnish SDR)	Malc	WED
	0820z	28/09 [131/00] Out 0823z S2 (Dutch SDR)	Malc, RNGB	TUE
	0820z	29/09 [134/00] Out 0823z S3 (Finnish SDR)	Malc	WED
	0820z	05/10 [134/00] Out S2 (Dutch SDR)	Malc, RNGB	TUE
	0820z	06/10 [135/00]	RNGB	WED
	0820z	13/10 [133/34 13332…….96448] Out 0830z S4 (Finnish SDR)	Malc	WED
	0820z	19/10 [133/00] Out 0823z S2 (Dutch SDR)	Malc, RNGB	TUE
	0820z	20/10 [138/00] Out 0823z S2 (Dutch SDR)	Malc	WED
	0820z	26/10 [132/00] Out 0823z S2 (Dutch SDR)	Malc	TUE
	0820z	27/10 [136/00] Out 0823z S2	Malc	WED

E17z

Decent training message intercepted by Edd:

10240kHz 1200z 14/09 strong

274 509 16
51809 31808 71909 83981 24035
48115 14151 51809 23807 15521
96111 10544 98003 68909 45279
43828
509 16
00000
Courtesy Edd Smith via. SDR Enschede.

[See Editorial/Intro/Zapad-21 also]

Thursday

September 2021

0800z	**14260kHz**	**0810z**	**12930kHz**
02/09	217 460 5 52401 48754 65125 41879 84648 460 5 00000	0800z Fair, 0810z Weak	
09/09	217 460 5 52401 48754 65125 41879 84648 460 5 00000	Weak	
23/09	217 409 5 37184 36129 33983 83221 85246 409 5 00000	Weak	
30/09	217 00000	0800z Fair, 0810z Weak with QRM	

October 2021

0800z	**14260kHz**	**0810z**	**12930kHz**		
07/10		217 468 5 88620 58069 77632 67543 57440 468 5 00000		[0810z Dutch SDR, QRM]	Weak
14/10		217 468 5 88620 58069 77632 67543 57440 468 5 00000		[0810z Dutch SDR, QRM]	Weak
21/10		217 840 5 05573 41987 95692 83209 69817 840 5 00000		[0810z QRM]	Weak
28/10		217 840 5 05573 41987 95692 83209 69817 840 5 00000		[0810z QRM]	Weak

S06

S06 log Sept 2021

Thursdays (Repeats Friday) **0830z** **19035kHz** **0930z** **15645kHz**

02/09 '842' 567 33 23465 03437 89917 38154 97197 00203 71560 22076 28447 80179 17655 22009 76349 15473 96085 88299 92696 40335 79260 64988 11259 66448 64925 11676 50875 67191 40838 46586 74511 91639 98618 34252 11451 567 33 00000] 0840z

09/09 '842' 910 34 73803 32999 54159 27010 57211 16402 70479 42548 91605 06944 91332 63999 67116 37375 65992 40347 16714 87861 46827 66116 51486 81096 58602 96656 80768 01726 89370 71325 71834 13531 70126 80525 28819 72803 910 34 00000

23/09 '842' 950 36 09378 61956 36545 62711 58419 80098 23078 30248 49258 94130 62642 26148 74531 26196 35749 76969 62009 65128 11447 27346 06821 21306 90334 98802 84235 84336 61733 19358 16457 50758 10952 03626 91853 13956 37595 88081 950 36 00000

30/09 '842' 165 37 34945 44525 86956 72181 90732 05974 21507 55210 25902 25227 51097 51315 54917 51327 79602 48212 33029 18908 47060 55435 29661 58857 01731 58408 67517 37592 15233 87849 38343 79638 14174 71692 31291 53195 26725 61714 34818 165 00000

Fridays (1st & 3rd) **1900z** **9056khz** **2000z** **6825kHz**

03/09 768' 00000 (used 6820kHz)

S06s Sept log:

Monday			
6th/13th	0630/0640z	22185/20050	'462' 519 7 61881 70151 56499 37086 11887 44066 95516
20th/27th			'462' 973 5 11171 64385 82707 06123 22536
6th/13th	0830/0840z	9220/8270	'764' 915 8 83830 93731 58291 64212 67195 31960 56970 32453
20th/27th			'764' 231 5 40614 77249 40678 17976 21816
6th/13th	0900/0910z	14580/13165	'232' 806 5 35673 81934 80610 87030 86310
20th/27th			'232' 986 5 39534 17228 15636 47891 23274
6th/13th	1200/1210z	9145/11460	'149' 837 5 22174 82024 08127 51012 43764
20th/27th			'149' 238 5 88620 58069 61732 74537 57440
Tuesday			
7th/14th	0600/0610z	15855/16485	'438' 216 5 09721 52734 77985 44367 51012
21st/28th			'438' 962 5 65906 66610 20336 17301 88554
7th/14th	0700/0710z	5760/6930	'452' 908 6 04537 87875 47152 34566 80331 17613
21st/28th			'452' 817 6 88620 58069 61732 74537 57440 10597
7th/14th	0730/0740z	7425/11560	'427' 590 6 06376 48054 133671 19474 34978 38865
21st/28th			'427' 903 5 11161 64385 82707 06123 22546
7th/14th	0800/0810z	11635/10420	'127' 435 6 35673 81934 80610 87030 68010 61121
21st/28th			'127' 496 5 65906 66610 20336 17301 88554
7th/14th	1000/1010z	6410/7340	'427' 968 5 27448 67187 78872 89999 60403
21st/28th			'427' 580 6 95225 84090 09531 88430 33240 61135
7th/14th	1100/1110z	6190/7230	'265' 903 7 88728 34956 99271 37454 11886 55522 94481
21st/28th			'265' 491 7 36755 31446 34476 91326 41043
Wednesday			
1st/8th	0830/0840z	9082/9952	'464' 273 5 43247 32329 48080 36478 39013
15th/22nd			'464' 239 5 32993 32539 38408 36364 36982
1st/8th	1000/1010z	13365/14505	'276' 439 5 83208 37829 47458 42867 39654
15th/22nd			'276' 891 5 37331 38881 37914 30303 74862
Thursday			
2nd/9th	0730/0740	11530/12140	'172' 435 6 33796 13577 74526 46647 79302 53516
16th/23rd			'172' 906 5 33584 40485 46170 43306 37796
2nd/9th (E17z)	0800/0810z	14260/12930	'217' 460 5 52401 48754 65125 41879 84648
16th/23rd			'217' 409 5 37184 36129 33983 83321 85426

2nd/9th	0930/0940z	9081/10514	‘698’ 203 5 50128 99477 83574 48874 94031
16th/23rd			‘698’ 217 5 43798 46937 33032 38334 4613
2nd/9th	1200/1210z	12415/14212	‘175’ 849 6 54545 50128 99477 83574 48874 94031
16th/23rd			‘175’ 934 6 42990 33000 32968 35332 36880 33582

Friday

3rd/10th	0830/0840z	12140/13515	‘156’ 234 7 99183 29227 75604 14597 71729 24331 55521
17th/24th			‘156’ 893 7 81235 32469 33311 37672 86212 48808 34237
3rd/10th	0900/0910z	5744/6524	‘239’ 807 5 45393 85461 81365 22047 68432
17th/24th			‘239’ 801 5 32546 33766 37399 32148 35819

Saturday

4th	0800/0810z	10350/8520	‘132’ 946 5 65806 66610 20336 17301 88554

S06 log Oct 2021

Thursdays (Repeats Friday) 0830z 20312kHz 0930z 16237kHz

07/10 ‘842’ 970 38 66832 22030 43822 98229 04671 69661 87353 08696 50618 15428 36098 50704 45751 84816 92950 91054 60668 88788 77637 27967 59389 87082 61965 61069 18061 25435 74694 09533 84366 76422 24484 20535 88608 38600 14340 35249 42381 73629 970 38 00000

14/10 ‘842’ 156 39 98425 73566 90597 33784 21817 57291 10151 71642 88820 67096 64274 23514 33273 08865 40857 96208 01010 45730 00368 91060 68704 86033 84388 90377 94837 31927 27382 59994 51238 30804 82606 22633 08620 96759 98142 81748 74565 94244 03941 156 39 00000

21/10 ‘842’ 937 40 94505 97424 56927 99296 62120 89650 10381 43485 31635 99797 74105 20146 83156 88638 25138 62880 01762 41777 68640 55668 73240 92631 69039 82346 00252 46863 91434 27363 74831 88643 51681 19981 68177 73352 98618 39133 23661 36379 76853 21108 937 40 00000

28/10 ’842’ 560 41 25314 15447 98759 26260 81837 92121 40614 68840 65868 90880 42184 89306 99947 63276 30455 43662 44437 87844 56765 56928 41112 31834 24238 54067 36544 11876 09844 64059 71210 83255 29537 39301 45255 12490 19886 57529 96853 12895 34649 98453 54112 560 41 00000

Fridays (1st & 3rd) 1900z 9056khz 2000z 6825kHz

01/10 ‘768’ 00000
15/10 ‘768’ 00000

Other: 1615z 8043kHz

06/10 ‘409’ 863 51 19002 60242 04492 38568 11013 98118 55926 70756 70754 09478 69261 86426 25626 24175 33003 99279 74978 68129 97617 41017 49158 27328 39317 99023 91707 27565 02463 47125 06891 40820 75262 42850 39743 54258 78466 89626 80825 62744 71729 87367 12870 70842 07343 19860 41518 15221 86009 52422 77314 43410 94369 863 51 00000 (Thanks Ary)

1200z 13364kHz 1300z 11408kHz

26/10 ‘579’ 421 60 39282 96224 60892 70829 12713 04137 01420 64131 61763 08102 44778 48519 71180 40139 67408 63097 96026 48256 48140 70254 64429 29059 24513 05998 73013 23543 65984 14769 04690 24854 06229 79651 23500 71239 01695 83948 26195 22705 08631 65025 55244 44793 95747 46386 02955 47937 34713 58909 61390 55810 35671 87180 97781 01125 19966 01855 60109 72301 47256 17524 421 60 00000

S06s Oct log:

Monday

4th/11th	0630/0640z	22185/20050	‘462’ 538 7 14600 64248 48274 60125 41879 84648 42036
18th/25th			‘462’ 530 7 76605 94742 26434 31212 09218 48900 71724
4th/11th	0830/0840z	9220/8270	‘764’ 821 5 34140 78386 91497 82963 24162
18th/25th			‘764’ 893 5 50298 13621 61881 99183 21015
4th/11th	0900/0910z	14580/13165	‘232’ 408 5 23246 16099 94961 35825 65906
18th/25th			‘232’ 871 5 75537 57440 23278 15945 06123
4th/11th	1200/1210z	9145/11460	‘149’ 803 5 45032 29366 87471 21487 30120
18th/25th			‘149’ 532 6 46062 68672 97478 39685 30485 96632

Tuesday

5th/12th	0600/0610z	158555/16485	‘438’ 217 5 22147 32420 21521 27221 35686
19th/26th			‘438’ 921 5 52401 63919 92699 14600 74248
5th/12th	0700/0710z	5760/6930	‘452’ 893 6 21767 53672 11834 81022 36903 41412
19th/26th			‘452’ 836 7 39268 42352 38713 30699 54426 44024 21272
5th/12th	0730/0740z	7425/11560	‘427’ 961 5 33796 13577 74526 46647 79302
19th/26th			‘427’ 893 5 33241 22420 32545 27131 25786
5th/12th	0800/0810z	11635/10420	‘127’ 934 5 44024 31373 35876 35436 33023
19th/26th			‘127’ 836 5 90406 26112 23307 27806 27237
5th/12th	1000/1010z	6410/7340	‘427’ 893 5 45032 39366 87471 31487 40130
19th/26th			‘427’ 961 5 82024 08127 51012 43764 50120
5th/12th	1100/1110z	6190/7230	‘265’ 907 8 44365 43025 39238 33578 47568 40573 31479 35539
19th/26th			‘265’ 931 7 90577 83175 42776 18193 18204 58834 42663

Wednesday

6th/13th	0830/0840z	9082/9952	‘464’ 832 7 90406 36113 31107 37806 37137 31405 46464
20th/27th			‘464’ 230 5 61881 70151 56499 37086 11887
6th/13th	1000/1010z	13365/14505	‘276‘ 893 5 50458 34605 02105 79322 74220
20th/27th			‘276’ 401 5 06376 48057 13361 19474 34978

Thursday

7th/14th	0730/0740	11530/12140	‘172’ 450 6 79302 52516 24616 56069 98812 24199
21st/28th			‘172’ 459 6 62573 40032 93748 34064 46688 49873
7th/14th (E17z)	0800/0810z	14260/12930	‘217’ 468 5 88620 58069 77632 67543 57440
21st/28th			‘217’ 840 5 05573 41987 95692 83209 69817
7th/14th	0930/0940z	9081/10514	‘698’ 207 5 92405 25003 23456 60582 44476
21st/28th			‘698’ 230 5 08631 58082 82789 16094 29043
7th/14th	1200/1210z	12415/14212	‘175’ 492 5 22272 64385 82606 05234 33526
21st/28th			‘175’ 493 6 64649 41127 95693 74263 98721 70076

Friday

1st/8th	0830/0840z	12140/13515	‘156’ 249 7 88620 58069 61723 74538 57440 20498 25616
15th/22nd			‘156’ 409 7 90577 83175 42776 18193 18204 58837 42663
1st/8th	0900/0910z	5744/6524	‘239’ 401 5 33796 12477 74527 46627 69202
15th/22nd			‘239’ 408 5 80331 17613 74220 56381 16458

Saturday

2nd	0800/0810z	10350/8520	‘132’ 470 5 46062 68672 97478 39685 30485

Peter, PoSW sends in comprehensive logs of this Russian station:

S06, OM Voice:-

First + Third Fridays in the Month Schedule:-
3-Sept-21:- 1900 UTC, 9056 kHz, “768 768 768 00000”, weak signal.
2000 UTC, 6820 kHz, much stronger, peaking over S9. Similar frequencies to those used in the springtime.

17-Sept-21:- 1900 UTC, 9056 kHz, “768 768 768 00000”, S6 to S7.
2000 UTC, 6825 kHz, peaking over S9 on one of the frequencies favoured by the French CW station; very weak CW heard after S06 carrier had gone off.

Not entirely unexpectedly this schedule moved up an hour in October:-
1-Oct-21:- 2000 UTC, 9056 kHz, “768 768 768 00000”, strong signal, peaking over S9.
2100 UTC, 6825 kHz, S9 with QSB, no French CW.

15-Oct-21:- 2000 UTC, 9056 kHz, “768 768 768 00000”, S6 to S7.
2100 UTC, 6825 kHz, S5 to S6 at best, weaker by 2103 UTC.

Other S06 Heard:-
26-Oct-21, Tuesday:- 1409 UTC, 18284 kHz, surprised to find the Russian Man in full flow while casually tuning around and not really expecting to find anything of interest. Good signal, final few minutes of a transmission, last 5Fs “79582 27120 47131” ending with, “716 716 43 43 00000”.

S06s, YL Voice:-
Some of the stronger S06s transmissions heard during the last two months; several weaker ones which would probably have been perfectly readable had it not been for the high levels of local RF noise interference.

Monday 0830 + 0840 UTC Schedule, Call “764”:-
6-Sept-21:- 0830 UTC, 9220 kHz, DK/GC “915 915 8 8”, a higher group count than most, not at all strong, sank into noise, came up towards the end in time to hear “...56970 32453” and the ending routine.
0840 UTC, 8270 kHz, much stronger, “83830 93731 58291 64212 67195 31960 56970 32453”.

20-Sept-21:- 0830 UTC, 9220 kHz, very weak, unreadable. Second sending stronger:-
0840 UTC, 8270 kHz, DK/GC “231 231 5 5”, “40614 77249 40678 17976 21816”.

27-Sept-21:- 0830 UTC, 9220 kHz, very weak as usual, could just hear the “764” call.
0840 UTC, 8270 kHz, much stronger, peaking a good S9, “231 231 5 5” and 5Fs as on the 20th.

25-Oct-21:- 0830 UTC, 9220 kHz, DK/GC “893 893 5 5”, just about readable, 9 MHz is one of the parts of the short-wave spectrum where local RF noise interference is intense,
“50298 13621 61881 99183 21015”.
0840 UTC, 8270 kHz, much better copy, S8 and local QRM considerably lower.

Tuesday 0730 UTC + 0740 UTC Schedule, Call "427":-
7-Sept-21:- 0730 UTC, 7425 kHz, DK/GC "590 590 6 6", good signal, "06376 48054 13361 19474 34978 38865".
0740 UTC, 11560 kHz, strong, peaking over S9.

21-Sept-21:- 0730 UTC, 7425 kHz, very weak, unreadable.
0740 UTC, 11560 kHz, much stronger, DK/GC "903 903 5 5", "11161 64385 82707 06123 22546".

5-Oct-21:- 0730 UTC, 7425 kHz, strong signal, well over S9, DK/GC "961 961 5 5", "33796 13577 74526 46647 79302".
0740 UTC, 11560 kHz, very strong.

19-Oct-21:- 0730 UTC, 7425 kHz, DK/GC "893 893 5 5", strong, "33241 22420 32545 27131 25786".
0740 UTC, 11560 kHz, also strong.

Wednesday 1000 + 1010 UTC Schedule, Call "276":-
1-Sept-21:- 1000 UTC, 13365 kHz, DK/GC "439 439 5 5", very strong signal, DK/GC "439 439 5 5", "83208 37829 47458 42867 39654".
1010 UTC, also very strong.

8-Sept-21 :- 1000 UTC, 13365 kHz, "439 439 5 5" and 5Fs as on the 1st, S8.
1010 UTC, 14505 kHz, weaker.

22-Sept-21:- 1000 UTC, 13365 kHz, DK/GC "891 891 5 5", "37331 38881 37914 30303 74862", S7 with deep fading.
1010 UTC, 14505 kHz, also S7 with fading up and down.

6-Oct-21:- 1000 UTC, 13365 kHz, DK/GC "893 893 5 5", S5 at best, "50458 34605 02105 79322 74220".
1010 UTC, 14505 kHz, stronger.

13-Oct-21:- 1000 UTC, 13365 kHz, "893 893 5 5" and 5Fs as on the 6th, weak signal.
1010 UTC, 14505 kHz, signal up and down from around S7 to barely readable.

27-Oct-21:- 1000 UTC, 13365 kHz, DK/GC "401 401 5 5", strong signal, well over S9,
"06376 48057 13361 19474 34978".
1010 UTC, 14505 kHz, slightly weaker.

Friday 0830 + 0840 UTC Schedule, Call "156":-
3-Sept-21:- 0830 UTC, 12140 kHz, DK/GC "234 234 7 7", very strong signal, "99183 29227
75604 14597 71729 24331 55521".
0840 UTC, 13515 kHz, also very strong.

10-Sept-21:- 0830 UTC, 12140 kHz, "234 234 7 7" and 5Fs as on 3-Sept. S8 to S9.
0840 UTC, 13515 kHz, weaker.

1-Oct-21:- 0830 UTC, 12140 kHz, DK/GC "249 249 7 7", over S9, "88620 58069 61723 74538 57440 20498 25616".
0840 UTC, 13515 kHz, S9+, very strong signal.

8-Oct-21:- 0830 UTC, 12140 kHz, DK/GC "249 249 7 7", and 5Fs as on 1-Oct. Very strong signal.
0840 UTC, 13515 kHz, also very strong.

15-Oct-21:- 0830 UTC, 12140 kHz, DK/GC "409 409 7 7", "90577 83175 42776 18193 18204 58837 42663". Around the 7 on the S-meter.
0840 UTC, 13515 kHz, weak, difficult copy, interference from the rapidly sweeping carrier that resides around this frequency.

29-Oct-21:- 0830 UTC, 12140 kHz, "156 156 156 00000", very strong signal, fifth Friday in the month means "no message".
0839 UTC, 13515 kHz, early start for the second sending of no message, strong signal.

S11a log Sept/Oct

6433kHz	0830z	04/09 [371/00] Konyetz 0833z S3	Malc, HfD	SAT
	0830z	05/09 [378/00] Konyetz 0833z S3	Malc	SUN
	0830z	11/09 [371/37 39453…….49011] Konyetz 0842z S4	Malc	SAT
	0830z	12/09 [371/37 39453……etc] Repeat of Saturday	Malc	SUN
	0830z	19/09 [371/00]	RNGB	SUN
	0830z	25/09 [373/00] Konyetz 0833z S5	Malc	SAT
	0830z	26/09 [373/00] Konyetz 0833z S7	Malc	SUN
	0830z	02/10 [373/00]	RNGB	SAT
	0830z	09/10 [376/00] Konyetz 0833z S7	Malc	SAT
	0830z	10/10 [371/00] Konyetz 0833z S4	Malc	SUN
	0830z	16/10 [378/31 43864…….89254] Konyetz 0841z S4	Malc	SAT
	0830z	17/10 [378/31 43864…..etc]	Malc	SUN
	0830z	23/10 [376/00] Konyetz 0833z S3	Malc	SAT
	0830z	30/10 [376/00] Konyetz 0833z S3	Malc, RNGB	SAT
	0830z	31/10 [376/00] Konyetz 0833z S4 M8 SUN		

6480kHz	0915z	03/09 [484/00] Konyetz 0918z S2+QRM	Malc, HfD	FRI
	0915z	06/09 [487/00] Konyetz 0918z S2	Malc	MON
	0915z	10/09 [484/00] Konyetz 0918z S4+QRM	Malc	FRI
	0915z	13/09 [481/36 26106…….54423] Konyetz 0926z S3 (Dutch SDR)	Malc	MON
	0915z	20/09 [487/00]	RNGB	MON
	0915z	24/09 [484/00] Konyetz 0918z S2	Malc	FRI
	0915z	27/09 [485/00] Konyetz 0918z S2+QRM	Malc	MON
	0915z	04/10 [487/00] Konyetz 0918z S3	Malc	MON
	0915z	11/10 [488/35 21500 74502 49136 92321 30298 81000 63773……89478 61333] Konyetz 0926z	RNGB, Malc	MON
	0915z	15/10 [486/35 21500….etc] Repeat of Monday	Malc	FRI
	0915z	18/10 [484/00] Konyetz 0918z S3	Malc, RNGB	MON
	0915z	22/10 [481/00] Konyetz 0918z S3	Malc, RNGB	FRI
	0915z	25/10 [484/00] Konyetz 0918z S5	Malc	MON
	0915z	29/10 [481/00] Konyetz 0918z S3+QRM	Malc	
8088kHz	1020z	03/09 [429/00]	Ary	FRI
	1020z	07/09 [422/37 02441…….38418] Konyetz 1031z S3	Malc, HfD	TUE
	1020z	10/09 [422/37 02441….etc] Repeat of Tuesday	Malc	FRI
	1020z	21/09 [427/00] Konyetz 1023z S3	Malc	TUE
	1020z	24/09 [426/00] Konyetz 1023z S2	Malc	FRI
	1020z	28/09 [427/00] Konyetz 1023z S3	Malc	TUE
	1020z	05/10 [420/00] Konyetz 1023z S2	Malc	TUE
	1020z	12/10 [424/39 19959…….98822] Konyetz 1032z S4	Malc	TUE
	1020z	19/10 [429/00] Konyetz 1023z S4	Malc	TUE
	1020z	22/10 [426/00] Konyetz 1023z S3	Malc	FRI
	1020z	26/10 [420/00] Konyetz 1023z S3	Malc	TUE
	1020z	29/10 [420/00] Konyetz 1023z S2	Malc	FRI
8597kHz	0700z	02/09 [471/00] Konyetz 0703z S3	Malc, HfD	THU
	0700z	06/09 [470/00] Konyetz 0703z S3	Malc, RNGB	MON
	0700z	09/09 [478/00] Konyetz 0703z S2	Malc, RNGB	THU
	0700z	13/09 [471/34 42286 41415 40965 83901 51684 53200 31825……00770 85590] Konyetz 0711z	RNGB, Malc	MON
	0700z	16/09 [471/34 42286…..etc] Repeat of Monday	RNGB	THU
	0700z	20/09 [476/00]	RNGB	MON
	0700z	23/09 [471/00] Konyetz 0703z S2	Malc	THU
	0700z	27/09 [475/00] Konyetz 0703z S4	Malc	MON
	0700z	30/09 [475/00] Konyetz 0703z S5	Malc	THU
	0700z	04/10 [477/38 68952 46812 47304 21713 99458 17512 99486……60237 29705] Konyetz 0718z S2	RNGB, Malc	MON
	0700z	07/10 [477/38 68952….etc] Repeat of Monday	Malc	THU
	0700z	11/10 [475/00] Konyetz 0703z S5	Malc	MON
	0700z	14/10 [478/00] Out 0703z S3	Malc, RNGB	THU
	0700z	18/10 [475/00] Konyetz 0703z S2	Malc, RNGB	MON
	0700z	25/10 [476/00] Konyetz 0703z S6	Malc	MON
	0700z	28/10 [470/00] Konyetz 0703z S4	Malc, RNGB	THU
10213kHz	1850z	01/09 [284/00] Konyetz 1853z S9	Malc, HfD	WED
	1850z	04/09 [286/00] Konyetz 1853z S9	Malc	SAT
	1850z	08/09 [285/39 19691…….29564] Konyetz 1902z S7	Malc	WED
	1850z	11/09 [285/39 19691…….29564] Konyetz 1902z S3	Malc	SAT
	1850z	15/09 [286/00] Konyetz 1853z S9	Malc	WED
	1850z	22/09 [287/00] Konyetz 1853z S3	Malc	WED
	1850z	29/09 [480/00] Konyetz 1853z S9	Malc	WED
	1850z	06/10 [280/33 28158…….63316] Konyetz 1901z S3	Malc	WED
	1850z	09/10 [280/33 28158…..etc] Repeat of Wednesday	Malc	SAT
	1850z	13/10 [285/00] Konyetz 1853z S9	Malc	WED
	1850z	23/10 [281/00] Konyetz 1853z S2 (Dutch SDR)	Malc	SAT
	1850z	27/10 [287/00] Konyetz 1853z S2+QRM	Malc	WED
	1850z	30/10 [284/00] Konyetz 1853z S6	Malc	SAT
11116kHz	0510z	18/10 [656/31 27803…..etc]	HfD	MON
14769kHz	0500z	07/09 [383/00]	HfD	TUE

V07

Heard from Moscow [See Editorial/Intros/ZAPAD-21]:

9283kHz	1015z	27/09 367 1 5336 9 73674 ... 88622 000 000	[From Moscow]	Ary	MON

367 367 367 1
5336 9 5336 9
73674 08169 14370 81763 33171
30774 94758 23586 88622
000 000 *Courtesy Ary*

Sunday

September 2021

0100z 13535kHz 0120z 12135kHz 0140z 11135kHz

05/09 415 1 399 44 67332 ... 46709 000 000 [0100z SDR Japan] Weak

415 415 415 1
399 44
67332 10026 62752 52934 77521
80179 91657 81832 41109 36893
33706 51736 32611 42672 52818
88052 21270 36006 67086 30523
46570 68265 72798 22325 18384
90424 82563 46723 88754 12310
98752 53103 75850 86702 84255
17839 60604 95247 30970 28787
05275 15590 05311 46709
000 000 *Courtesy PLdn*

19/09 511 1 228 124 03329 - 31388 000 000 [0100z SDR Japan] Weak, QSB3

26/09 511 1 626 210 56586 ... 74543 000 000 [0100z SDR Japan] Strong

511 511 511 1
626 210
56586 67001 97793 46759 38554
46780 20176 45285 73497 50820
81794 72468 78222 36781 00375
76057 86048 75771 09429 51023
93423 26503 58362 14189 91369
76767 25718 95679 04931 99506
25901 24161 83139 36114 53959
19652 46786 67831 19611 00311
94774 12210 45253 92892 40831
11687 59134 03197 58509 90928
57741 24756 55773 83839 46295
20678 07961 74677 94063 57672
42871 70595 14619 66789 99725
69729 84296 65984 59675 64868
25837 00534 27753 44943 86245
31042 90329 24722 57334 60796
22738 52786 53764 64801 13536
94838 57869 40666 23940 05447
39777 81948 22082 81991 73537
26970 30654 50157 97124 79287
05848 72419 32162 36148 62542
00074 72183 61034 07044 26212
41513 82018 91582 66797 79850
08287 87528 79332 63489 72268
17157 65481 49590 01068 18501
45290 84757 56788 51128 46368
29309 65911 58755 83961 80658
12871 36603 03411 25954 09665
37641 36163 20884 34331 39106
70023 38402 52706 08657 18014
81287 67273 23260 66896 68369
30080 52132 16957 19578 26720
77800 26300 14332 93661 51354
81885 43885 54812 41706 03816
44522 51974 56491 40589 95812
95919 62901 48418 98407 87615
04078 91749 82374 16901 29921
71930 32863 14302 15236 92244
89232 14149 79727 13681 41309
98080 64811 24930 59669 04803
02407 33580 94071 80209 30886
12525 07877 07070 92740 74543
000 000 *Courtesy DanAR*

October 2021

Friday message: Ary comments The shortest message ever :-) See Editorial

7649kHz1605z 01/10 367 367 367 1 7712 1 7712 1 02956 000 000 Ary FRI

0100z 15925kHz 0120z 14725kHz 0140z 13425kHz

03/10 974 1 7422 88 99497 ... 15735 000 000 [0100z QSB1] Weak

974 974 974 1
7422 88
99497 00426 14368 50502 45845
26480 96895 44643 53832 82487
72477 97057 37643 37923 36841
64973 79679 18246 13438 63436
05568 96570 80635 41329 16757
29800 74856 28621 81690 94067
55384 46516 45240 41286 33679
34214 75219 04166 09366 17406
66838 51414 40603 89239 87807
52093 81752 58904 51762 86295
26759 42932 61795 09590 73115
51298 28170 88041 79966 71615
40775 66000 93675 83198 04294
86185 63532 90404 35087 82729
48710 98997 28290 73072 59928
20223 30442 65371 89535 16929
02449 38205 26519 70498 52127
81484 92449 15735 000 000
Courtesy DanAR

10/10 974 1 598 86 70444 ... 10835 000 000 Weak

974 974 974 1
598 86
70444 02192 81893 43342 68910
89144 72729 49350 11888 34272
83108 61997 73901 54175 34838
30604 97489 67503 96736 05394
41500 38194 38572 69604 69396
59577 05003 81658 22873 00648
14353 87622 38979 18721 19008
28611 81847 74835 37636 80271
40924 63608 99060 62397 21994
98608 88529 06141 97768 65961
31440 95190 03138 87142 94998
28699 91542 54949 67472 32820
86370 81536 12865 55536 29321
64896 65060 51155 00275 89394
44075 16558 01017 51486 48150
62152 99264 71347 16386 10195
18250 29114 99466 92437 23070
10835 000 000 *Courtesy DanAR*

17/10 974 1 246 178 37909 ... 30554 000 000 Weak
Due to the long message the 14 and 13 mhz slots started ~ 11 minutes delayed.

974 974 974 1
246 178
37909 09593 40788 41304 53639
41499 35841 38880 37924 92093
01826 45373 79713 49628 91897
78228 54716 20412 83508 56206
84543 73290 19287 00491 02781
69617 36245 07783 44129 74085
98562 38978 45432 40364 03727
91263 17209 87681 13534 46675
28551 89714 47893 95880 92907
44638 44809 69197 84055 36560
29060 65439 65401 55777 41717
71372 65600 25785 76547 97939
08902 27175 20175 04714 65958
47629 05978 40198 27043 96717
27506 09446 35186 79623 08814
16514 98130 88503 03560 77316
22166 30982 41852 38323 86001
73574 14311 07570 01283 53531
21268 03855 72282 26637 05486
74448 17519 95126 51070 35136
58937 27046 86315 75858 73694
69010 27337 86502 27113 26629
75445 08455 94561 76504 12692
11340 54795 00678 45050 38744
40990 65289 25106 61490 27866
12178 84660 59921 55563 61571
65820 46862 55096 22475 67767
64314 96110 24177 28455 75907
02426 97478 82120 00253 24655
44212 30418 90068 26818 88766
22121 93794 11215 76783 19439
90263 17908 95620 86723 09422
60605 19729 02985 55716 11456
31149 54315 83485 46387 55711
02595 30651 53494 28291 07815
20506 27977 30554 000 000
Courtesy DanAR

24/10 974 1 784 182 21170 ... 73548 000 000 [0100z Only] Weak, QSB1

974 974 974 1
784 182
21170 74134 60459 81725 40969
57935 29151 64613 85020 37827
22710 06052 55692 70011 08629
83481 72558 76162 57849 56539
06635 46251 86194 07227 75204
32313 56811 45935 47539 64682
49857 09071 68538 20727 08599
53503 26768 77642 15803 48713
97856 55801 58722 21353 67218
17417 38218 33003 87498 45204
58172 79102 91380 89890 64937
46412 91872 87174 51269 33349
14652 53080 95753 85015 61278
24396 04719 41707 33865 43157
49972 60912 34128 63309 76315
74221 59853 46155 07789 25641
07636 04948 71110 82680 25824
04984 00084 36617 79740 13211
67496 09596 44557 77786 70622
62637 62853 99053 75557 45270
78594 79936 75179 55851 72894
49034 03937 80761 95734 50277
58429 96758 15239 20281 86534
00895 34355 05913 42189 58143
45085 87124 55648 44440 36237
57934 25407 46226 55567 69824
92440 31439 74259 11198 59363
16769 19096 28865 74763 02969
23671 67029 10800 62986 76709
02027 28543 01602 14423 10329
45114 94644 93254 07819 31879
98715 61061 34704 94213 01692
14443 50696 26980 91203 99494
02961 59400 47610 38906 26655
27550 63637 07417 83367 19974
13437 38004 73635 58357 87759
08081 73548 000 000
Courtesy DanAR

31/10 974 1 7413 124 61526 ... 91160 000 000 Weak

974 974 974 1
7413 124
61526 71148 00202 66214 32643
95156 99250 20672 61955 66870
90955 17993 16132 42765 90952
43269 14299 51131 77222 54429
16441 86287 83771 86421 41514
28278 97626 52505 66090 02396
69189 25612 83834 86158 66151
33726 74831 74067 04728 48035
46389 20731 98791 61110 53387
19642 16354 85907 20764 97508
60907 01900 33762 92251 38349
33883 03405 94873 06541 90368
56172 04703 37255 62084 60955
81384 89352 56574 96072 44660
99603 71066 20935 31767 88244
20020 28586 93332 00871 94176
34160 14392 98945 10964 57023
15257 37789 02577 90850 93405
23156 00257 04821 97830 01736
15342 55380 83938 20055 31733
35806 14667 82874 15275 46215
41693 98514 26398 74382 69030
02542 31359 75086 34000 75817
61778 62361 12635 03878 91365
25048 37988 54842 91160
000 000 *Courtesy DanAR*

V13

Nil Reports

V26

Nil Reports

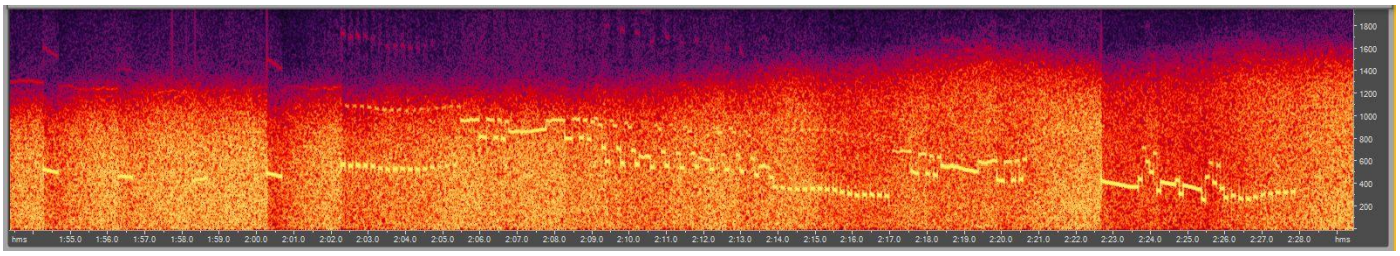
Polytones

XPA1 c

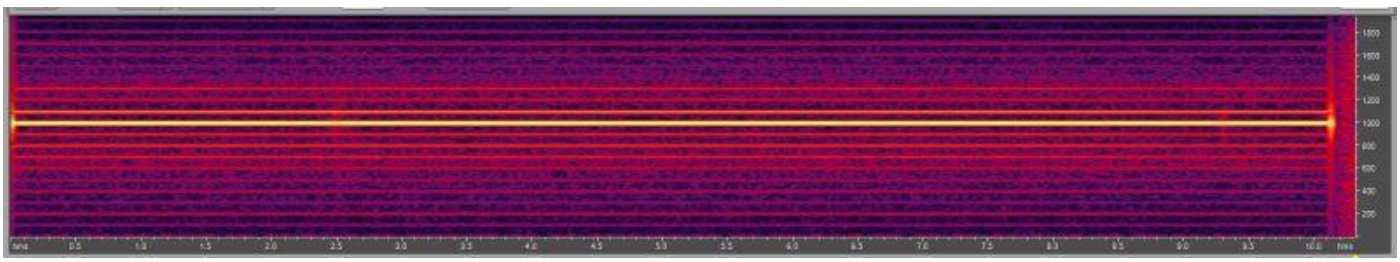
Tuesday/Thursday

September 2021

0710z	**10682kHz**	**0730z**	**11571kHz**	**0750z**	**12216kHz**	
02/09	761 000 05156 00001 00000 ... 34662				[0710z MISSED]	Fair
07/09	761 000 07426 00001 00000 ... 36261				[0710z very poor, see image]	Fair to strong



Apparent transmitter/master oscillator problems with 0710z sending 07/09/2021. Rx checked against stable oscillator source – when receiving mode set to special AM with carrier being injected. No lock achieved. [Dumbo]! My fault, not theirs!



10682kHz test transmission via 50Ω Dummy load [1kHz tone] Satisfactory response

09/09	761 000 02586 00001 00000 … 36662		Strong
14/09	761 000 05639 00001 00000 ... 40660		Weak
16/09	761 000 04463 00001 00000 ... 34662	[0710z Only]	Weak
21/09	761 000 06981 00001 00000 ... 36266	[0710z Fair]	Weak
23/09	761 000 04508 00001 00000 ... 37654	[0710z Unworkable]	Weak
28/09	761 1 00644 00113 34759 ... 11012	[0750z Strong]	Fair

761 761 761 1 761 761 761 1 761 761 761 1

00644 00113 34759 11135 09038 23264 45347 80234 25539 34959
89591 87735 04745 79313 97891 73368 29628 17194 03698 89392
37518 20177 16441 32597 76796 25407 05106 21300 61607 07772
48700 33705 04996 67544 60977 12325 31794 97013 09313 00410
04522 52683 42518 71401 33485 07379 86657 55408 90282 13724
64457 68199 44839 19053 21089 28791 08567 05369 11615 76574
71267 00073 01562 98234

48846 25055 72480 48534 88479 41139 54951 57216 00671 92992
70061 73695 87737 55794 36655 56498 94108 36365 33823 06260
85238 74407 35175 34796 56047 99841 36129 93160 84044 25699
15566 25854 63175 24915 52499 21251 71320 94871 66395 56730
83449 80649 87658 36865 75753 96455 94966 05901 37689 89847
41455 11012 *Courtesy PLdn*

30/09	761 1 00644 00113 34759 ... 11012	[0750z Very strong]	Strong

October 2021

0710z	**12167kHz**	**0730z**	**13437kHz**	**0750z**	**14972kHz**

05/10	249 1 00266 00065 39935 ... 63554	[0750z Strong]	Fair

249 249 249 1 249 249 249 1 249 249 249 1

00266 00065 39935 65920 71778 19835 01610 57593 29147 51755
24357 71813 65097 27103 81080 57108 38701 01941 26166 17632
55379 34464 42439 68210 64594 76086 77660 85960 48895 79996
80359 23596 02782 47872 79258 82738 44355 17976 38413 12755
98717 58630 92579 68491 98786 35550 78180 27396 74134 44006
55567 89084 87970 09895 85576 27755 71746 77494 23375 21882
67979 43271 64157 90220

63178 23620 22206 63554 *Courtesy PLdn*

07/10	249 1 00266 00065 39935 ... 63554	[0750z Weak]	Strong
12/10	NRH across schedule -- poor condx following Solar Flare [M Class]		
14/10	249 1 00266 00065 39935 ... 63554		Weak
19/10	249 1 00390 00153 46136 ... 60436	[0750z QSB4]	Weak
21/10	249 1 00390 00153 46136 ... 60436	[0710z Strong]	Weak

249 249 249 1 249 249 249 1 249 249 249 1

00390 00153 46136 67113 75433 81368 21547 96490 30589 66199
77891 52092 85045 21062 83486 43083 81631 68344 17728 72718
07251 51127 42564 37938 35700 30262 16584 87858 99872 64133
14449 96585 44179 34152 04336 63989 52199 75315 69758 12832
12914 03486 32943 51805 70832 40538 24624 65884 00943 58226
85112 00111 23243 12177 62530 83127 25926 99151 73022 17930
91946 67392 84536 78083

18477 93185 85432 80338 42583 60841 54052 39767 15086 16092
96536 09547 51115 59035 79374 56653 47005 86299 87004 02713
71931 19466 03748 61256 81103 19279 22766 11634 88478 2010
27253 81286 49056 77894 43083 44556 96434 15451 70540 09165
64325 92168 83241 60480 61805 87618 70802 20733 64093 17380
25868 17349 13531 99662 50072 71981 70117 88004 42313 62272
83198 25301 36072 91182

27328 96341 12722 26848 14166 14787 01945 86957 81012 05352
54052 95481 55792 26138 32215 19671 24170 14040 61209 75611
69576 38894 04846 20066 57648 67444 80243 60436
Courtesy PLdn

26/10	249 1 00390 00153 46136 ... 60436		Strong
28/10	249 1 00390 00153 46136 ... 60436	[0710zStrong]	Fai

XPA1 Wed/Fri

Wednesday/Friday

September 2021

1210z	**12137kHz**	**1230z**	**11137kHz**	**1250z**	**10237kHz**	[fm Ary/H-FD with thanks]

01/09 112 1 00204 00100 70867 ... 73513 Ary WED

112 112 112 1 112 112 112 1 112 112 112 1
00204 00100 70867 92149 46927 84787 21272 97056 29006 60627
05054 90775 06513 03462 86035 10213 20708 90792 15569 45110
90882 45848 04504 63531 67051 53166 00767 45003 14801 24362
16881 52426 49069 76910 96670 47342 63601 45963 11262 75912
73322 09282 60344 15556 15119 47917 57933 47380 97787 82548
65120 35019 27982 74667 71979 81741 31815 26504 41268 79054
45988 94069 44754 39310 54781 87126 90099 49282 04893 71084
64655 77776 89031 98376 06487 64396 57703 43646 92729 09349
06314 96228 35246 79224 03501 17144 67646 43419 14235 56552
55982 17631 92602 74153 20210 24697 81000 63478 23145 88264
95801 84181 73513 *Courtesy Ary*

03/09 112 1 00204 00100 70867 ... 73513 [1230/1250z Unworkable QSB4/5] Fair, QSB3

08/09 112 000 07263 00001 00000 ... 33665 [1210z Weak QSB3] Fair

10/09 112 000 02533 00001 00000 ... 35255 [1210z Weak] Fair

15/09 112 000 01567 00001 00000 ... 37257 Fair, QRM3

17/09 112 000 04463 00001 00000 ... 34662 1210z Strong 1230z NRH 1250z Weak

22/09 112 000 06337 00001 00000 ... 36261 1210z Weak, rest unworkable

24/09 112 000 06346 00001 00000 ... 35662 [1250z Fair, QSB3] Strong

29/09 112 1 00447 00023 74914 ... 03212 Weak, QRM3

112 112 112 1 112 112 112 1 112 112 112 1

00447 00023 74914 27861 91504 51045 87203 36740 39329 29752
65746 21865 46906 74315 51261 17535 64314 29749 61021 39152
23925 30797 35647 31361 14239 03212 *Courtesy PLdn*

October 2021

1210z	**14564kHz**	**1230z**	**13564kHz**	**1250z**	**11464kHz**	**[***1200/1230z courtesy Ary]*

01/10 554 1 00447 00023 74914 ... 03212 1250z only: Strong

06/10 554 000 05969 00001 00000 … 42263 Very strong

08/10 MISSED

13/10 554 000 08152 00001 00000 ... 32665 [1210z Weak QRN2] Strong QRN2

15/10 554 000 05896 00001 00000 ... 40266 [1250z Fair] Strong

20/10 554 1 00513 00056 76829 ... 46326 Weak QRM2

22/10 554 1 00513 00056 76829 ... 46326 [1250z Fair] Strong

27/10 554 1 00513 00056 76829 ... 46326 [1230z Strong] Fair

554 554 554 1 554 554 554 1 554 554 554 1

00513 00056 76829 61817 22225 35180 89138 15140 75878 06348
39459 65032 60043 64484 84432 63023 51744 30814 65234 13595
08334 19125 34168 48018 49958 25321 65829 61226 20544 46756
62738 51955 91579 68365 17871 60237 55278 58847 45689 89515
09738 93140 80652 43856 85630 61688 91557 53251 10343 30915
00371 30795 57062 82939 41440 57337 99022 93917 46326
Courtesy PLdn

29/10 554 1 00513 00056 76829 ... 46326 [1250z Weak] Fair

XPA2 m

Sunday/Tuesday

September 2021

1200z 13914kHz 1220z 15814kHz 1240z 16314kHz

05/09 04407 00086 13791 ... 03035 [1200z Strong QRM3] Very strong

04407 00086 13791 32189 18060 50720 65625 04972 02514 65653
83480 62703 10380 45054 13202 55110 48902 14255 54910 04979
31745 99213 36001 11115 15827 85892 91211 20295 50665 69232
40383 38291 72979 11938 96322 00849 34323 11291 86571 24651
93656 79926 77699 58716 19004 26158 47043 33724 35308 15995
01717 45912 25703 46116 26324 59188 67625 67028 05937 78278
20325 87629 18471 83566 85545 28996 04064 44954 86534 17529
62058 67376 22855 55302 76281 63361 24431 26584 55473 66631
21307 31910 26443 94408 17201 17266 88073 49818 03035
Courtesy PLdn

07/09 04913 00142 44447 ... 12032 [1200z Weak QSB3] Strong

04913 00142 44447 26951 35871 91907 23885 38462 54425 39960
54297 04737 46535 37863 47774 84941 58742 29045 71795 71701
23149 21999 30899 07346 10795 44434 20727 02207 86051 94055
60174 90497 61135 91396 39391 04939 04676 71147 86270 04690
28340 33905 68456 26795 96269 64465 47555 55233 10154 86152
50160 36226 86968 12986 89950 68888 87792 36639 04328 86646
03474 73772 24966 07434 92866 19699 92392 38548 61335 58195
23853 47126 86711 18476 46849 31328 29285 54673 04648 18972
40401 78448 60089 35842 63403 51068 41313 64124 05053 60686
32343 11055 26609 39900 20145 64534 09635 89649 31122 19443
26665 72211 29063 57204 79797 74844 61666 80267 77160 09665
13159 04662 54577 53159 62902 92257 41363 88630 15884 87819
04237 20170 88218 34557 91333 26068 58018 62342 47902 16650
14696 07605 05968 98152 53196 21710 57955 34872 16412 23230
61365 34408 22505 01197 12032 *Courtesy PLdn*

12/09 04913 00142 44447 ... 12032 [1200z QRM2] Strong

14/09 00354 00232 09700 ... 40654 [1200z Fair] Strong

00354 00232 09700 91522 67436 31659 51399 58590 29678 96569
58561 07116 14363 66311 99092 86156 12006 06720 57837 76957
59356 45818 58886 21450 43152 02428 68329 28937 39541 20926
78644 57749 44371 11003 93424 65046 72102 67550 17767 53178
65484 82714 50737 38905 88789 12864 13520 34334 83600 45841
98318 01220 95683 36995 06118 00210 88497 45313 70916 15091
58483 18977 41380 60754 04342 53655 09345 72874 11776 16446
99520 10300 68551 40727 74917 70931 06485 17673 61371 16883
86206 24644 36112 60579 18890 06446 17169 48836 84535 12911
23468 26250 75246 64215 26754 73155 95085 69114 41469 38981
98009 94862 70655 16653 98011 63530 00213 42273 16393 90241
75166 00899 26119 57597 36422 76094 29649 71754 58012 66564
30688 51394 29266 45627 52284 49094 78848 96567 10793 12885
21898 49816 81548 22503 69855 23841 02355 78731 94556 60112
48585 70143 21402 31464 06160 86439 92646 00713 42924 53135
28631 40895 66111 49161 66787 99902 17788 85539 06488 36182
16943 37663 31902 17865 88523 57690 05479 22861 36581 22926
60638 30597 53425 15750 89301 70319 21404 57729 24739 44598
63890 99723 98554 97969 39879 14924 75784 23555 21188 65134
64394 96146 85153 62694 47065 80615 23886 85397 54125 54878
19843 65103 31398 25960 27210 54730 46001 50028 93446 92346
68499 39223 13023 43091 42634 75906 71307 07096 03546 26925
18203 91181 82098 87436 11299 87390 87415 28491 91033 68205
89941 33856 66058 34162 40654 *Courtesy PLdn*

19/09 00354 00232 09700 ... 40654 [1220z Strong] Weak

21/09 02867 00168 16230 ... 56576 Strong

02867 00168 16230 08386 15638 34468 02484 61309 32732 57713
81749 33695 95181 40684 28604 71924 66746 86592 83676 40164
45522 00280 93390 05356 88753 34944 10818 18000 57389 53394
78325 45214 16008 32689 10732 63588 06830 88351 19130 03084
86370 46059 86333 91173 33358 16016 08463 94477 88280 60207
00603 01543 25466 50667 69986 16822 04826 24646 55747 43332
66097 90047 30880 38805 93004 22171 28627 00658 34743 04760
84065 51688 81800 66199 74075 39688 82573 61717 66030 72323
32278 85537 91878 24871 44438 26333 31344 58584 09570 79900
70385 49008 40096 53180 27094 92124 84249 37158 94031 68766
38051 17597 35482 80457 12033 22879 16681 16574 86540 99880
60670 46056 62137 23492 80607 28864 05522 69091 08116 74638
50688 46636 14569 90932 08653 06289 19051 86866 55000 51378
52655 08871 89324 47582 19006 38023 27158 02617 22586 02516
75468 92271 59293 15379 95391 44531 00175 12088 73463 87821
00918 86133 33123 66738 58093 37907 32138 99045 75012 22135
04916 21283 95381 35783 65819 66992 19380 85088 50758 40100
56576 *Courtesy PLdn*

26/09 02867 00168 16230 ... 56576 [1200z Very strong] Strong

28/09 01251 00202 86260 ... 47276 [1200z Very strong] Strong, QRM3

01251 00202 86260 84159 27410 17873 54223 54573 76614 06066
82164 77861 56686 89783 65708 08387 36557 90248 96990 09952
29617 90734 53175 90638 97299 05365 36414 34648 93503 38160
59352 28724 43456 46438 39712 31329 93887 66244 26393 13899
58832 56682 22581 77289 92598 72754 49717 24559 56369 00818
64613 79424 10346 02620 21509 56365 57616 26740 51786 80102
15749 94272 08977 12762 28676 50747 83829 62158 53243 27517
59423 30930 03526 23750 35873 10163 54902 44421 73827 05722
53106 06697 45657 47289 36262 70486 74962 04104 51986 42281
71195 32647 44939 99877 92288 03655 01492 91149 59736 94492
55937 46559 83514 26563 19005 15693 66886 62187 02921 14279
07068 67395 96612 84277 89371 42742 84015 99249 14709 56009
52292 87865 97580 39508 83572 50319 36320 84369 14516 69060
54967 43832 32618 27785 08103 18151 93782 78457 67263 64221
24423 85274 74789 31109 28826 56170 79766 44732 69304 36333
60634 12100 37020 67983 72212 15328 07439 65045 06680 09250
93903 42494 07461 01635 73243 94599 44655 27338 25150 09052
74586 70851 15470 70104 37756 39616 86504 22292 15984 61392
89863 20032 17414 70662 11532 11935 45309 01962 46309 23882
62912 57386 28129 80279 53611 87191 25293 94358 72739 46862
41005 76806 70105 25270 47276 *Courtesy PLdn*

October 2021

1200z 14469kHz 1220z 16169kHz 1240z 17469kHz

03/10 01251 00202 86260 ... 47276 [1200z Fair, QSB3] Strong

05/10 09030 00162 64201 ... 13464 Very strong

09030 00162 64201 40789 92390 83185 46664 68762 51901 36806
37429 40582 89594 11627 81887 43006 52292 73078 75770 37853
97735 48320 29924 01628 49000 92892 44743 14089 84120 46689
42926 74459 80307 13088 53429 53282 52309 05851 00529 29850
71867 10825 53553 80860 01756 33694 70510 42056 21798 39894
09096 18627 79602 34101 86836 16868 09923 33348 44010 11566
74540 58520 88445 78242 82887 68614 08868 99207 60222 53363
18155 14758 01924 63245 93972 13004 82710 84697 47496 79805
81116 77640 76524 27281 63497 34014 10814 33752 00962 54646
46332 91122 96287 71996 90035 17594 72752 47322 59324 13923
70763 54554 34555 60218 44908 92808 35187 22334 16814 49061
65049 68318 91530 60538 85444 88272 53264 33610 29584 81807
55908 72560 09977 64258 43484 28800 55434 61048 11082 69648
32896 20419 42209 88531 68378 17695 83171 61779 04803 97795
95364 48824 68274 95590 59387 03532 56226 39669 46108 39275
43203 22666 75033 45732 61762 30984 00505 30582 16553 13160
29454 95384 73204 65062 13464 *Courtesy PLdn*

10/10 09030 00162 64201 ... 13464 [1200zVery strong] Strong

12/10 Poor condx : CME Unworkable

17/10 00497 00198 3206 ... 04763 Very strong

00497 00198 32065 71744 34590 17900 21581 26034 36437 82816
23281 75045 19631 38217 57778 09237 77887 24719 51049 95963
27489 62864 08546 55300 41154 29532 68699 79877 06906 06725
51925 45058 40040 68069 65415 52326 83431 00103 89835 54833
76207 57026 26811 37188 65099 81030 62280 51374 27011 09157
14413 68855 38058 94554 84199 55767 24757 35558 50850 21258
34082 29459 39473 58665 49019 75301 43608 03785 51839 77086
45829 41467 34940 05039 78062 13646 31519 79944 92113 56210
90418 13295 21543 99095 31502 18919 32054 21307 52161 51793
47108 20916 09123 69344 16644 01916 80460 48755 15128 60877
22312 41369 92400 93029 18628 56712 42482 79370 19402 06406
51913 74079 28082 60676 19196 90898 85527 11798 70263 50106
17634 54637 44731 08849 74256 45231 30933 02604 36574 73430
20576 61057 79886 36842 10426 14084 72520 30855 13750 60796
70433 14251 56667 70999 18154 20765 36217 16394 24314 14387
12077 79500 66670 05203 22808 78710 25291 68692 99402 20877
14449 91984 70077 96718 11054 97072 95712 50365 96882 29965
44810 53137 26601 57453 63239 97319 06815 83660 08416 25583
52792 73638 59945 78715 07822 55870 46637 64333 63450 37618
82350 39797 07585 72746 30883 32159 63458 59962 95494 75311
04763 *Courtesy PLdn*

19/10 04464 00146 47559 ... 42107 Strong

24/10 04464 00146 47559 ... 42107 Fair

04464 00146 47559 04785 89360 65719 64515 02875 28523 68840
72513 73404 24604 61121 05336 62311 08860 05526 59304 69605
33306 31259 06052 12395 50037 65519 99867 73524 76425 73668
53738 40552 25543 31363 04980 92813 38873 86459 94257 58578
87177 38710 60750 30910 13781 69422 47338 07938 22552 47079
84190 94973 94771 85835 96797 03667 73989 99388 95893 35114
39793 83112 68046 44945 48877 04358 87475 34647 03494 90113
94256 06543 60604 64856 66689 86817 96443 67891 86120 11347
26736 71532 26354 76497 74755 22571 34035 73392 47308 80338
33325 39893 18975 80032 56588 31001 64962 20351 68448 59694
52615 31040 86725 29276 71304 64112 46064 49725 99738 73371
53565 09219 69227 32030 33495 42534 62597 22866 49524 47112
32873 73118 25838 07875 07913 02943 85574 57071 63104 07381
83517 49204 61610 71678 38819 26622 09958 75637 34804 19136
02963 32748 67141 99467 72049 22738 43472 62004 42107

26/10 00309 00206 49978 ... 52457 [1240z Very strong] Strong

00309 00206 49978 40349 38824 16145 28523 48273 25433 31194
91282 59082 36669 02157 81711 79294 80220 57654 13652 18263
13606 70750 40137 64077 93880 81198 29260 00731 59657 33271
34722 61468 55798 96061 51151 27548 03541 11466 68216 62906
75894 38225 72941 48984 83587 52183 72268 82228 57715 70604
72534 76242 38938 44713 78307 29665 94620 62703 92667 09484
13614 91577 85243 86271 06770 40248 25356 38067 97750 08327
42270 10984 39693 88139 80921 97540 68197 66736 29850 90810
29591 81369 01753 29947 03086 41120 60015 91229 97903 84656
58624 00822 24241 18369 08034 22217 12053 00469 02749 03380
51657 87712 04632 13369 53499 44530 21608 84574 55651 29934
22331 42985 36996 47793 15091 61371 90737 73337 05477 87836
33950 39110 97005 51541 85817 39618 02035 77609 54039 11770
71976 10879 51980 50507 01398 58373 79575 96326 65081 20316
45350 84544 08516 90772 75456 07053 87235 93728 48256 34448
98325 46571 77603 68065 37049 38142 02754 34427 82311 41632
88970 12968 63088 90309 38657 46317 19664 45271 08040 88178
77418 13244 85245 78566 61066 55669 95379 17495 38495 70811
25147 88113 23444 41944 93376 36989 89415 60067 37276 30860
38121 68540 81177 62871 22627 74841 39072 33150 72441 62830
10257 25572 99172 75290 79949 94692 06547 30373 52457
Courtesy PLdn

31/10 00309 00206 49978 ... 52457 [1200z Strong] Fair

XPA2 p

Monday/Wednesday
September 2021

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

01/09 06731 00001 00000 ... 35261
[0700z Weak, QSB3] Fair QSB3 Poor Cond
05/09 02659 00130 12597 ... 41665 [0720z QRM2] Fair

02659 00130 12597 03343 39774 37296 71106 14006 80561 99180
51929 93501 69567 35656 22250 16303 62646 15401 25658 63676
79214 15552 90003 60998 19511 73991 18562 16219 53103 24199
96152 90935 87112 07308 30095 86030 33730 21482 98028 08635
13131 73019 22574 48401 35106 36404 81153 17255 10466 94175
16400 51103 97150 95869 28305 57704 44075 79116 47131 44516
41773 30190 99373 42050 98202 60722 25357 39388 55688 04575
78090 86596 24744 89504 81329 49413 83629 51863 38842 76506
76244 73879 51755 01519 89629 71942 39387 10226 82349 02564
66387 47880 73473 53677 32744 62725 84284 06705 71361 20373
11607 29590 03269 74725 83962 53625 32428 23291 57694 05621
05452 78952 83552 58360 13986 35904 29323 87544 61152 82787
47530 47284 99735 16765 70711 04699 71438 03804 96999 13712
32609 86008 41665
Courtesy PLdn

08/09 02659 00130 12597 ... 41665 Very strong

13/09 02659 00130 12597 ... 41665 Very strong

15/09 02659 00130 12597 ... 41665 [0700z QRM4 0720z Strong] Weak

20/09 09006 00001 00000 ... 34261 Very strong

22/09 06295 00001 00000 ... 34667 Very strong

27/09 08524 00001 00000 ... 35662 Very strong

29/09 07773 00001 00000 ... 36266 [0700z Strong] Very strong

October 2021

0700z 13372kHz 0720z 14672kHz 0740z 15872kHz

04/10 01958 00105 37636 ... 44314 [0740z Strong] Fair, QSB2

01958 00105 37636 95360 08221 58886 44383 93959 15900 13789
26939 18375 20925 93821 75145 28310 51838 46007 98229 90021
91917 35823 73358 71096 97429 38945 63721 12116 62898 81807
13265 50050 26292 05480 92126 66940 80420 74428 07173 75989
63271 37427 29116 29194 21757 19399 00052 59913 40486 19345
79058 61116 83303 18048 42368 84381 59734 31230 80471 85318
71993 71573 29747 06031 73469 72471 36473 65499 59801 02864
91065 82807 99844 66423 33920 85317 91317 81431 32617 23326
22589 40624 09907 62623 13536 29416 66538 45921 38978 25590
00669 80367 93421 33621 57928 79688 51844 30664 30699 31886
71555 35017 05175 63866 44148 14620 84284 44314
Courtesy PLdn

06/10 01958 00105 37636 ... 44314 0740z only Weak

11/10 01958 00105 37636 ... 44314 [0700z QSB3/4] Weak

13/10 01958 00105 37636 ... 44314 [0700z NRH] Weak

18/10	NRH		
20/10	01582 00001 00000 ... 34661	[0700/0720z Unworkable]	Strong
25/10	03771 00001 00000 ... 35262	[0700z Strong]	Weak
27/10	09750 00001 00000 ... 34666	[0700z Very strong]	Weak

XPA2 Wed/Fri

Wednesday/Friday

September 2021

1200z	**13914kHz**	**1220z**	**15814kHz**	**1240z**	**16314kHz**	
01/09		07042 00096 19820 … 76225				Very strong

07042 00096 19820 39033 37658 71385 83167 52155 88862 07070
15429 11568 68775 85500 42288 10830 06360 29019 12442 28232
33833 04634 53666 98566 93371 39584 97448 90492 11545 13085
18167 84438 86423 55958 64830 91752 04010 03200 41753 38462
11972 63282 83074 38071 32686 00343 47599 87726 59505 76653
46889 33602 88193 80997 26131 92233 03101 12016 07481 54034
87228 00166 65917 82339 66584 81753 10633 68115 26503 88726
03020 70308 06336 33380 88759 82784 60885 52001 46643 45483
44398 88651 81100 61307 10344 66610 49119 66670 97590 66997
55568 03411 91223 09038 77850 36646 67828 08158 56644 55705
00335 00544 17105 44073 43211 49368 96058 10674 23220 81618
88473 03408 46186 77927 26611 15085 00226 88753 55103 32801
83082 22399 22700 44315 05484 28556 61118 04403 62618 27726
09880 83620 41058 30022 98721 17625 80114 06066 50722 67631
84449 74544 61351 29250 41317 46330 88525 08566 46744 32336
74456 80776 25528 60591 28608 55066 40629 88283 11217 98298
55905 42381 78782 53628 75648 77583 50633 82768 54162 52071
77063 53255 51712 18364 06222 76777 21413 46191 67299 19291
44809 17560 49580 73338 18749 01192 05466 44558 93339 00505
61664 82650 58101 75233 58216 40328 29744 44718 76225
Courtesy PLdn

03/09	07042 00096 19820 … 76225	[1200z Very strong]	Fair, QSB3 QRM3
08/09	08728 00142 73819 ... 61776	[1200z Weak QSB3]	Strong

08728 00142 73819 71767 70036 51265 62236 53885 69831 91800
03740 07656 28412 06965 91909 92889 82187 64104 51934 84234
76011 40647 42900 69520 05815 83709 60371 21884 42530 56719
73303 27997 45276 01389 00159 79863 92406 07015 84257 70517
14000 86022 00443 04581 89049 08401 31087 42148 90176 68128
42500 90367 60140 74063 80862 50793 56318 04660 36450 33530
96849 48786 26715 74859 69321 79401 61581 26716 39900 77298
59491 87290 53691 20473 42458 94468 09220 26628 80045 94741
87058 32045 85060 09005 00330 40076 35487 15399 53065 04968
23038 85038 00913 92546 76352 59914 45929 37582 38425 50923
06336 68219 57155 63817 81718 07525 40558 47883 28301 34624
00046 33132 70893 96550 87357 67286 99929 46013 55535 56096
54089 50994 43452 21592 50905 92017 49071 11473 61258 80631
12240 22706 08833 35497 68616 82681 28004 00574 86399 88715
96317 50517 77391 85781 61776 *Courtesy PLdn*

10/09	08728 00142 73819 ... 61776		Strong
15/09	01078 00232 49796 ... 54136		Very strong

01078 00232 49796 61454 68943 69275 79565 26709 62510 36021
23225 18799 86870 01669 99534 20992 91658 92223 99362 13221
77197 04728 06621 74074 77113 59634 29685 62273 35005 89946
43770 95923 91113 29027 79674 51231 34354 45300 27757 57650
73191 92185 30764 02966 22268 55323 77362 46047 33601 53437
39074 33682 94516 92483 44606 23382 71802 42523 51609 27250
81656 66871 81362 64686 17555 64798 00506 81856 87059 19299
87523 61059 94845 14129 62565 06476 06687 75168 77092 28633
29162 28847 81668 36778 86774 88580 40908 72543 97663 88075
12176 14712 20232 68595 08511 14417 93018 76738 06519 42547
44460 17505 62338 62968 21739 49443 89966 50249 37894 37541
59045 55103 66834 61933 15334 98165 95836 31875 48454 07958
06703 65130 43236 40485 21464 66933 29347 58100 56222 21169
40059 15271 30367 35728 04897 55884 08410 12856 71643 05791
69939 63545 44865 07756 17174 31736 77946 44198 86620 43199
13072 89964 45135 86684 08955 09112 04442 74278 84565 37561
33144 00361 66678 81648 16266 75933 36914 27729 47258 55494
44634 10870 35012 15087 90583 53945 69948 88284 62336 15924
52800 62643 17957 91274 40668 42152 18416 14704 01126 15828
49574 52564 69770 49138 09536 82672 68861 24332 72566 83756
90891 68556 66405 23883 24206 22093 50837 50855 68152 05681
27839 32540 54369 35494 93919 66828 15902 02304 87719 20122
14358 55942 95678 01297 51405 96153 76943 37139 26176 43053
08414 03286 15992 98520 54136 *Courtesy PLdn*

17/09	01078 00232 49796 ... 54136	[1200z Strong]	Very strong

22/09 08048 00104 71314 ... 13273 [1240z Strong] Very strong

08048 00104 71314 88108 77238 20124 46206 20938 38918 88584
01983 43659 97812 53887 11144 78824 38548 90999 03503 41765
12174 50787 78679 54428 24865 22493 11194 32985 32777 20587
57683 28685 76593 77069 52037 04298 68941 99428 04845 56304
18313 49671 21478 99418 42871 88238 34947 20037 98446 34945
11985 48879 39663 92043 66450 46818 72959 45476 14555 24342
69908 27309 50889 22295 96853 16863 48883 20979 56447 30097
34084 03137 99801 59768 87051 33347 42576 27756 58799 18064
52202 55107 23632 08734 00710 54128 19486 09122 14149 34913
66934 58759 62118 28408 10720 40133 09876 23458 16932 66100
24174 15051 32031 22910 69888 93016 13273 *Courtesy PLdn*

17/09 08048 00104 71314 ... 13273 Strong

29/09 02934 00088 90887 ... 04472 [1200z Strong] Very strong

02934 00088 90887 48693 85640 27389 39357 70768 89525 31817
79428 77911 36210 88159 72009 08104 74400 66030 42919 27706
74728 35147 89668 95820 74682 03318 21031 11623 10631 05845
53847 91866 56629 36293 60853 36947 00349 52133 22863 13977
20451 92185 02913 57307 58685 06646 90256 93588 67513 27615
39305 65502 24134 35187 75070 68572 46905 38090 43251 64063
84087 46621 46987 20774 77507 13696 06570 71142 65605 59388
13582 98351 52654 72889 18979 79440 08708 40360 99690 65980
74089 82556 61903 99463 17262 57655 84968 34470 24184 53413
04472 *Courtesy PLdn*

October 2021

1200z 13452kHz 1220z 14452kHz 1240z 15852kHz

01/10 02934 00088 90887 ... 04472 [1200z Strong] Fair

06/10 02285 00162 02594 ... 24324 Very strong
02285 00162 02594 19217 18463 25314 57749 72368 14529 94747
28624 43308 56692 69169 76869 86331 38152 26972 37136 69614
34982 19751 70474 87580 54730 96952 63521 62054 33056 69225
34296 65412 18204 16704 47196 64582 51028 52733 81302 17080
11028 43224 70855 31361 01886 64442 37032 49432 36298 62640
19112 75956 84667 57917 99864 74725 65327 40939 03435 85365
94601 60987 47474 84032 41381 42212 98026 36224 45015 26866
63949 27604 83529 09447 56126 59144 81972 02512 19152 82660
45588 02933 50350 15694 31136 63668 73226 70861 48736 11938
98711 81645 09942 78582 94612 57929 83085 00465 82712 39338
73899 05687 34944 97988 94347 38459 31376 37627 41574 02787
67693 56635 72929 92274 52889 46296 74129 61103 11366 16099
18429 24122 69468 38959 97055 00493 28475 89856 44965 65633
66687 13578 16691 28649 72504 91089 95581 96383 59665 31468
15347 72810 09936 85943 12665 13674 84451 45692 54553 72372
66057 38034 92993 97759 39598 79639 56222 66902 77005 84560
60984 59946 29441 86867 24324 *Courtesy PLdn*

08/10 MISSED

13/10 00693 00142 53294 ... 63431 [1240z Fair QSB3] Strong

00693 00142 53294 76730 98614 87374 14914 17545 57621 65768
04882 78892 98409 34271 77466 42288 80821 92448 62820 19600
68537 68424 02726 64292 54385 08035 82595 29896 65285 69913
27670 36118 01008 63110 25212 49635 16348 75814 53443 99161
04656 46483 42464 15919 47490 00063 62979 54551 49127 55561
03503 53783 88929 09814 65381 78174 05817 13397 13891 50923
17847 03144 78559 51499 12833 13094 58722 31478 84536 74808
81498 90918 28142 84317 54335 48829 86192 16374 63004 70577
86486 65505 96122 27811 89767 37525 27995 52339 33362 74268
48443 36086 25663 41412 54572 89922 37327 48510 31054 15060
12100 85317 00650 40517 73044 32058 78710 97783 88062 20698
78829 28964 28176 17329 48153 18594 41683 99064 88335 63686
48238 71816 57581 65158 16013 03021 23196 02070 75367 05307
01514 22066 07814 76003 08274 95439 87230 13245 10914 76178
00100 43843 40099 37503 63431 *Courtesy PLdn*

13/10 00693 00142 53294 ... 63431 [1240z Strong] Very strong

20/10 00724 00032 58310 ... 54206 [1240z Strong] Very strong

00724 00032 58310 11791 97017 10698 19327 46650 55382 25664
91151 71612 95997 91903 27222 41439 40622 72217 34288 85193
15656 54117 96727 17409 88230 44749 39780 33486 59957 71723
56947 26001 42115 43105 54206 *Courtesy PLdn*

22/10 00724 00032 58310 ... 54206 [1240z Strong] Very strong

27/10 00382 00188 13099 ... 24223 [1220z Strong, 1240z QRM3] Fair

00382 00188 13099 08588 42347 76868 79197 38293 16002 70402
70295 57338 98850 31913 71831 90337 45257 47238 68078 06917
53537 46964 54206 28609 35189 97674 21850 84557 05475 01856
75354 39332 49332 01729 50773 66761 62615 45029 76717 66085
37361 92460 99545 72941 49852 26724 21106 30006 13274 10669
55840 56342 26341 39959 56299 07678 65965 22784 02163 72270
28419 95071 47045 90299 42739 45303 05434 15125 49335 05727
16812 13615 36845 91191 73920 40262 34660 91194 95969 45884
90673 37842 13564 72164 57605 04086 70265 20814 04904 49969
46708 31270 36325 12845 05287 90458 14866 25480 82940 86845
21590 48403 57703 13442 46239 39401 87021 24476 68427 09174
91494 51306 15725 54470 08826 54365 44050 49376 54684 33786
94792 79690 26033 72893 95906 19793 54685 91394 31441 19184
12492 92327 50435 11661 94604 53453 76048 75397 52324 32735
15865 32440 40497 60045 72482 66981 22379 20914 08009 92742
50231 18442 49780 38576 64800 03139 13622 76673 81411 34129
45457 14752 34443 67923 09985 32479 75215 19601 59800 13286
46133 41841 18413 72755 82498 70778 17517 21062 77654 44733
23647 35769 16613 17316 93221 54381 82228 16325 25941 80964
24223 *Courtesy PLdn*

29/10 00382 00188 13099 ... 24223 [1200z Strong] Fair

Other XPA2 freqs

Onto others' logs:

13431	03-09-2021 1100 XPA2	MFSK-16/20Bd	01608 00001 00000 40251	Ary	FRI
12131	03-09-2021 1120 XPA2	MFSK-16/20Bd	01608 00001 00000 40251	Ary	FRI
11431	03-09-2021 1140 XPA2	MFSK-16/20Bd	01608 00001 00000 40251	Ary	FRI

Other Polytones [H-FD]:

1B XPA2
Sat 02.10.2021 0910Z 17438 msg
Sat 02.10.2021 0930Z 16338 msg
Sat 02.10.2021 0950Z 15938 msg

Mon 04.10.2021 0910Z 17471 msg
Mon 04.10.2021 0930Z 16149 msg
Mon 04.10.2021 0950Z 14406 msg

Mon 04.10.2021 1500Z 13906 msg
Mon 04.10.2021 1520Z 12106 msg
Mon 04.10.2021 1540Z 10906 msg

Tue 12.10.2021 1600Z 13542 msg
Tue 12.10.2021 1620Z 12142 msg
Tue 12.10.2021 1640Z 11442 msg

Wed 13.10.2021 1100Z 14672 msg
Wed 13.10.2021 1120Z 13472 msg
Wed 13.10.2021 1140Z 12172 msg

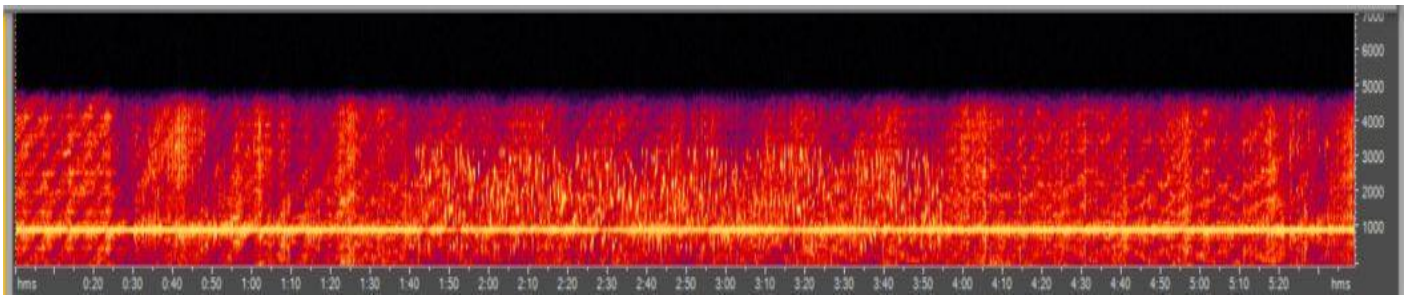
Fri 15.10.2021 1100Z 14537 msg
Fri 15.10.2021 1120Z 13437 msg
Fri 15.10.2021 1140Z 10737 msg

Wed 27.10.2021 1100Z 14672 msg
Wed 27.10.2021 1120Z 13472 msg
Wed 27.10.2021 1140Z 12172 msg

XPB1

Sunday/Tuesday

Sept 2021



5839kHz 1950z 05/09 V.strong 2m15s BCQRM3

12139kHz 1900z	05/09	Fair	2m15s		PLdn	SUN
10939kHz 1910z	05/09	Fair	2m15s		PLdn	SUN
9339kHz 1920z	05/09	Strong	2m15s		PLdn	SUN
8139kHz 1930z	05/09	Strong	2m15s		PLdn	SUN
6939kHz 1940z	05/09	V.strong	2m15s		PLdn	SUN
5839kHz 1950z	05/09	V.strong	2m15s	BCQRM3	PLdn	SUN
12139kHz 1900z	07/09	Fair	4m28s		PLdn	TUE
10939kHz 1910z	07/09	Fair	4m28s	QRM2	PLdn	TUE
9339kHz 1920z	07/09	Strong	4m28s		PLdn	TUE
8139kHz 1930z	07/09	Strong	4m28s	QRM2	PLdn	TUE
6939kHz 1940z	07/09	V.strong	4m28s		PLdn	TUE
5839kHz 1950z	07/09	V.strong	4m28s		PLdn	TUE

Exceptional signals for 12/09 schedule:

12139kHz 1900z	12/09	Strong	1m40s		PLdn	SUN
10939kHz 1910z	12/09	Strong	1m40s		PLdn	SUN
9339kHz 1920z	12/09	V.strong	1m40s		PLdn	SUN
8139kHz 1930z	12/09	V.strong	1m40s		PLdn	SUN
6939kHz 1940z	12/09	V.strong	1m40s		PLdn	SUN
5839kHz 1950z	12/09	V.strong	1m40s		PLdn	SUN
12139kHz 1900z	14/09	Weak	2m15s		PLdn	TUE
10939kHz 1910z	14/09	Fair	2m15s		PLdn	TUE
9339kHz 1920z	14/09	Strong	2m15s		PLdn	TUE
8139kHz 1930z	14/09	V.strong	2m15s		PLdn	TUE
6939kHz 1940z	14/09	V.strong	2m15s		PLdn	TUE
5839kHz 1950z	14/09	V.strong	2m15s		PLdn	TUE
12139kHz 1900z	19/09	Strong	2m15s		PLdn	SUN
10939kHz 1910z	19/09	Weak	2m15s		PLdn	SUN
9339kHz 1920z	19/09	Weak	2m15s		PLdn	SUN
8139kHz 1930z	19/09	Strong	2m15s		PLdn	SUN
6939kHz 1940z	19/09	Strong	2m15s		PLdn	SUN
5839kHz 1950z	19/09	Strong	2m15s		PLdn	SUN
12139kHz 1900z	21/09	Strong	1m40s		PLdn	TUE
10939kHz 1910z	21/09	Strong	1m40s		PLdn	TUE
9339kHz 1920z	21/09	V.strong	1m40s		PLdn	TUE
8139kHz 1930z	21/09	V.strong	1m40s		PLdn	TUE
6939kHz 1940z	21/09	V.strong	1m40s		PLdn	TUE
5839kHz 1950z	21/09	V.strong	1m40s		PLdn	TUE
12139kHz 1900z	26/09	Fair	1m40s		PLdn	SUN
10939kHz 1910z	26/09	MISSED			PLdn	SUN
9339kHz 1920z	26/09	V.strong	1m40s		PLdn	SUN
8139kHz 1930z	26/09	V.strong	1m40s		PLdn	SUN
6939kHz 1940z	26/09	V.strong	1m40s		PLdn	SUN
5839kHz 1950z	26/09	V.strong	1m40s		PLdn	SUN
12139kHz 1900z	28/09	Strong	2m15s		PLdn	TUE
10939kHz 1910z	28/09	Strong	2m15s		PLdn	TUE
9339kHz 1920z	28/09	Strong	2m15s		PLdn	TUE
8139kHz 1930z	28/09	V.Strong	2m15s		PLdn	TUE
6939kHz 1940z	28/09	V.Strong	2m15s		PLdn	TUE
5839kHz 1950z	28/09	V.Strong	2m15s		PLdn	TUE

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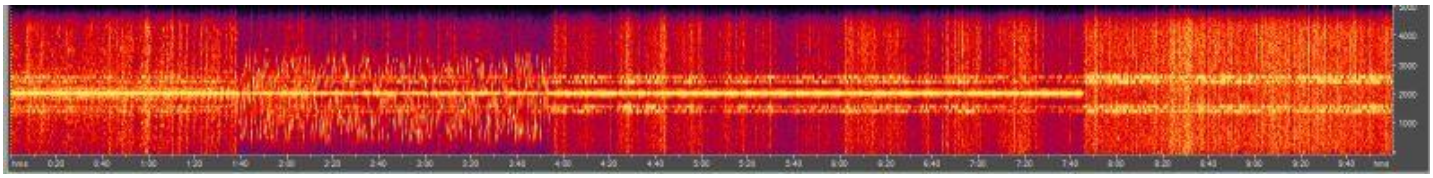
9323kHz 1900z	03/10	Strong	2m15s		PLdn	SUN
8123kHz 1910z	03/10	Strong	2m15s		PLdn	SUN
7723kHz 1920z	03/10	Strong	2m15s		PLdn	SUN
6923kHz 1930z	03/10	V.strong	2m15s		PLdn	SUN
5823kHz 1940z	03/10	V.strong	2m15s		PLdn	SUN
5123kHz 1950z	03/10	V.strong	2m15s		PLdn	SUN



5823kHz 1940z 05/10 2m15s TTY/het QRM2

9323kHz 1900z	05/10	V.strong	2m15s			PLdn	TUE
8123kHz 1910z	05/10	V.strong	2m15s			PLdn	TUE
7723kHz 1920z	05/10	V.strong	2m15s			PLdn	TUE
6923kHz 1930z	05/10	V.strong	2m15s			PLdn	TUE
5823kHz 1940z	05/10	V.strong	2m15s	TTY/het QRM2 [Het~2.3kHz]	*see above*	PLdn	TUE
5123kHz 1950z	05/10	V.strong	2m15s			PLdn	TUE

9323kHz 1900z	10/10	V.strong	2m15s	BCQRM2	PLdn	SUN
8123kHz 1910z	10/10	V.strong	2m15s		PLdn	SUN
7723kHz 1920z	10/10	V.strong	2m15s		PLdn	SUN
6923kHz 1930z	10/10	V.strong	2m15s		PLdn	SUN
5823kHz 1940z	10/10	V.strong	2m15s	TTYQRM1	PLdn	SUN
5123kHz 1950z	10/10	V.strong	2m15s		PLdn	SUN
9323kHz 1900z	12/10	Weak	2m15s	QRM2	PLdn	TUE
8123kHz 1910z	12/10	Weak	2m15s	QRM2	PLdn	TUE
7723kHz 1920z	12/10	Weak	2m15s	QRM3	PLdn	TUE
6923kHz 1930z	12/10	Fair	2m15s		PLdn	TUE
5823kHz 1940z	12/10	Strong	2m15s	TTYQRM2	PLdn	TUE
5123kHz 1950z	12/10	Strong	2m15s		PLdn	TUE
9323kHz 1900z	17/10	Fair	2m15s		PLdn	SUN
8123kHz 1910z	17/10	Fair	2m15s		PLdn	SUN
7723kHz 1920z	17/10	Strong	2m15s		PLdn	SUN
6923kHz 1930z	17/10	Strong	2m15s		PLdn	SUN
5823kHz 1940z	17/10	V.strong	2m15s	TTYQRM1	PLdn	SUN
5123kHz 1950z	17/10	V.strong	2m15s		PLdn	SUN
9323kHz 1900z	19/10	Weak	4m28s		PLdn	TUE
8123kHz 1910z	19/10	Weak	4m28s		PLdn	TUE
7723kHz 1920z	19/10	Fair	4m28s		PLdn	TUE
6923kHz 1930z	19/10	Strong	4m28s		PLdn	TUE
5823kHz 1940z	19/10	Strong	4m28s	TTYQRM4	PLdn	TUE
5123kHz 1950z	19/10	V.strong	4m28s		PLdn	TUE
9323kHz 1900z	24/10	Fair	1m40s	BCQRM2	PLdn	SUN
8123kHz 1910z	24/10	Strong	1m40s		PLdn	SUN
7723kHz 1920z	24/10	Strong	1m40s		PLdn	SUN
6923kHz 1930z	24/10	V.strong	1m40s		PLdn	SUN
5823kHz 1940z	24/10	V.strong	1m40s		PLdn	SUN
5123kHz 1950z	24/10	V.strong	1m40s		PLdn	SUN
9323kHz 1900z	26/10	Fair	2m15s		PLdn	TUE
8123kHz 1910z	26/10	Fair	2m15s		PLdn	TUE
7723kHz 1920z	26/10	Fair	2m15s		PLdn	TUE
6923kHz 1930z	26/10	Fair	2m15s		PLdn	TUE
5823kHz 1940z	26/10	V.strong	2m15s	TTYQRM1	PLdn	TUE
5123kHz 1950z	26/10	V.strong	2m15s		PLdn	TUE
9323kHz 1900z	31/10	Strong	2m15s	BCQRM4	PLdn	SUN
8123kHz 1910z	31/10	Strong	2m15s	QRM2	PLdn	SUN
7723kHz 1920z	31/10	Strong	2m15s		PLdn	SUN
6923kHz 1930z	31/10	V.strong	2m15s		PLdn	SUN
5823kHz 1940z	31/10	V.strong	2m15s	TTYQRM2	PLdn	SUN
5123kHz 1950z	31/10	Strong	2m15s		PLdn	SUN

Monday/Saturday

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14462kHz 1200z	04/09	Weak	4m28s			PLdn	SAT
13962kHz 1210z	04/09	MISSED				PLdn	SAT
13462kHz 1220z	04/09	Weak	4m28s			PLdn	SAT
12162kHz 1230z	04/09	Strong	4m28s	QRM3		PLdn	SAT
11562kHz 1240z	04/09	NRH	4m28s	QRM3		PLdn	SAT
10962kHz 1250z	04/09	MISSED				PLdn	SAT
14462kHz 1200z	06/09	NRH				PLdn	MON
13962kHz 1210z	06/09	Weak	4m28s	QSB4		PLdn	MON
13462kHz 1220z	06/09	Unworkable				PLdn	MON
12162kHz 1230z	06/09	Weak	4m28s	QRM3		PLdn	MON
11562kHz 1240z	06/09	V.weak	4m28s	QRM3		PLdn	MON
10962kHz 1250z	06/09	Weak	4m28s			PLdn	MON
14462 11-09-2021 1200 XPB1		MFSK-16	Russian intel.			Ary	SAT
13962 11-09-2021 1210 XPB1		MFSK-16	Russian intel.			Ary	SAT
13462 11-09-2021 1220 XPB1		MFSK-16	Russian intel.			Ary	SAT
12162 11-09-2021 1230 XPB1		MFSK-16	Russian intel.			Ary	SAT
11562 11-09-2021 1240 XPB1		MFSK-16	Russian intel.			Ary	SAT
10962 11-09-2021 1250 XPB1		MFSK-16	Russian intel.			Ary	SAT
13/09/2021	MISSED					PLdn	MON
18/09/2021	MISSED					PLdn	SAT
14462kHz 1200z	20/09	Weak	4m28s			PLdn	MON
13962kHz 1210z	20/09	Weak	4m28s			PLdn	MON
13462kHz 1220z	20/09	Weak	4m28s			PLdn	MON
12162kHz 1230z	20/09	Fair	4m28s			PLdn	MON
11562kHz 1240z	20/09	Fair	4m28s	QRM3		PLdn	MON
10962kHz 1250z	20/09	Weak	4m28s			PLdn	MON
14462kHz 1200z	25/09	NRH		QRM5		PLdn	SAT
13962kHz 1210z	25/09	NRH		QRM5		PLdn	SAT
13462kHz 1220z	25/09	Fair	4m28s	QRM3		PLdn	SAT
12162kHz 1230z	25/09	Strong	4m28s			PLdn	SAT
11562kHz 1240z	25/09	Fair	4m28s	QRM3		PLdn	SAT
10962kHz 1250z	25/09	Fair	4m28s			PLdn	SAT
14462kHz 1200z	27/09	Weak	1m40s	QSB3		PLdn	MON
13962kHz 1210z	27/09	Weak	1m40s			PLdn	MON
13462kHz 1220z	27/09	Strong	1m40s			PLdn	MON
12162kHz 1230z	27/09	Strong	1m40s			PLdn	MON
11562kHz 1240z	27/09	Strong	1m40s			PLdn	MON
10962kHz 1250z	27/09	Fair	1m40s			PLdn	MON

October 2021

14462kHz 1200z	02/10		Off watch	MISSED	*See H-FD others' logs*		SAT
13962kHz 1210z	02/10		Off watch	MISSED			SAT
13462kHz 1220z	02/10		Off watch	MISSED			SAT
12162kHz 1230z	02/10		Off watch	MISSED			SAT
11562kHz 1240z	02/10		Off watch	MISSED			SAT
10962kHz 1250z	02/10		Off watch	MISSED			SAT
14462kHz 1200z	04/10	Fair	1m40s			PLdn	MON
13962kHz 1210z	04/10	Fair	1m40s			PLdn	MON
13462kHz 1220z	04/10	Fair	1m40s			PLdn	MON
12162kHz 1230z	04/10	Fair	1m40s			PLdn	MON
11562kHz 1240z	04/10	Fair	1m40s	QRM2		PLdn	MON
10962kHz 1250z	04/10	Fair	1m40s			PLdn	MON
14462kHz 1200z	09/10	Strong	1m40s			PLdn	SAT
13962kHz 1210z	09/10	Strong	1m40s			PLdn	SAT
13462kHz 1220z	09/10	Strong	1m40s			PLdn	SAT
12162kHz 1230z	09/10	Strong	1m40s			PLdn	SAT
11562kHz 1240z	09/10	Weak	1m40s	QRM3		PLdn	SAT
10962kHz 1250z	09/10	Weak	1m40s	QRM3		PLdn	SAT
14462kHz 1200z	11/10	Weak	4m28s			PLdn	MON
13962kHz 1210z	11/10	Weak	4m28s			PLdn	MON
13462kHz 1220z	11/10	Strong	4m28s			PLdn	MON
12162kHz 1230z	11/10	Strong	4m28s	QRM2		PLdn	MON
11562kHz 1240z	11/10	Fair	4m28s	QRM2		PLdn	MON
10962kHz 1250z	11/10	Weak	4m28s			PLdn	MON

14462kHz 1200z	16/10	Strong	4m28s		PLdn	SAT
13962kHz 1210z	16/10	Strong	4m28s		PLdn	SAT
13462kHz 1220z	16/10	Strong	4m28s	QRM3	PLdn	SAT
12162kHz 1230z	16/10	Fair	4m28s	QRM3	PLdn	SAT
11562kHz 1240z	16/10	Fair	4m28s	QRM3	PLdn	SAT
10962kHz 1250z	16/10	Fair	4m28s	QRM3	PLdn	SAT
14462kHz 1200z	23/10	Fair	1m40s		PLdn	SAT
13962kHz 1210z	23/10	Fair	1m40s		PLdn	SAT
13462kHz 1220z	23/10	Strong	1m40s		PLdn	SAT
12162kHz 1230z	23/10	Fair	1m40s		PLdn	SAT
11562kHz 1240z	23/10	Weak	1m40s		PLdn	SAT
10962kHz 1250z	23/10	Weak	1m40s		PLdn	SAT
14462kHz 1200z	25/10	Fair	4m28s		PLdn	MON
13962kHz 1210z	25/10	Strong	4m28s		PLdn	MON
13462kHz 1220z	25/10	Strong	4m28s		PLdn	MON
12162kHz 1230z	25/10	Strong	4m28s		PLdn	MON
11562kHz 1240z	25/10	Fair	4m28s		PLdn	MON
10962kHz 1250z	25/10	Fair	4m28s		PLdn	MON
14462kHz 1200z	30/10	Strong	4m28s		PLdn	SAT
13962kHz 1210z	30/10	Strong	4m28s		PLdn	SAT
13462kHz 1220z	30/10	Strong	4m28s	QRM3	PLdn	SAT
12162kHz 1230z	30/10	Fair	4m28s	QRM2	PLdn	SAT
11562kHz 1240z	30/10	Weak	4m28s		PLdn	SAT
10962kHz 1250z	30/10	Weak	4m28s		PLdn	SAT

Wednesday/Saturday

Sept 2021

[fm Ary/H-FD with thanks]

13521	01-09-2021 1100 XPB1	MFSK-16	Russian intel.		Ary	WED
13421	01-09-2021 1110 XPB1	MFSK-16	Russian intel.		Ary	WED
12221	01-09-2021 1120 XPB1	MFSK-16	Russian intel.		Ary	WED
11521	01-09-2021 1130 XPB1	MFSK-16	Russian intel.		Ary	WED
11021	01-09-2021 1140 XPB1	MFSK-16	Russian intel.		Ary	WED
10521	01-09-2021 1150 XPB1	MFSK-16	Russian intel.		Ary	WED
13521kHz 1100z	04/09	Strong	4m28s		PLdn	SAT
13421kHz 1110z	04/09	Strong	4m28s		PLdn	SAT
12221kHz 1120z	04/09	Fair	4m28s	QRM3	PLdn	SAT
11521kHz 1130z	04/09	Fair	4m28s	QRM3	PLdn	SAT
11021kHz 1140z	04/09	Fair	4m28s	QRM3	PLdn	SAT
10521kHz 1150z	04/09	NRH			PLdn	SAT
13521kHz 1100z	08/09	Fair	4m28s		PLdn	WED
13421kHz 1110z	08/09	Fair	4m28s	QRM2	PLdn	WED
12221kHz 1120z	08/09	Fair	4m28s		PLdn	WED
11521kHz 1130z	08/09	Fair	4m28s	QRM2	PLdn	WED
11021kHz 1140z	08/09	Fair	4m28s	QRM2	PLdn	WED
10521kHz 1150z	08/09	Weak	4m28s		PLdn	WED
13521	11-09-2021 1100 XPB1	MFSK-16	Russian intel.		Ary	SAT
13421	11-09-2021 1110 XPB1	MFSK-16	Russian intel.		Ary	SAT
12221	11-09-2021 1120 XPB1	MFSK-16	Russian intel.		Ary	SAT
11521	11-09-2021 1130 XPB1	MFSK-16	Russian intel.		Ary	SAT
11021	11-09-2021 1140 XPB1	MFSK-16	Russian intel.		Ary	SAT
10521	11-09-2021 1150 XPB1	MFSK-16	Russian intel.		Ary	SAT
13521kHz 1100z	15/09	Weak	2m15s		PLdn	WED
13421kHz 1110z	15/09	Fair	2m15s		PLdn	WED
12221kHz 1120z	15/09	Fair	2m15s		PLdn	WED
11521kHz 1130z	15/09	Fair	2m15s		PLdn	WED
11021kHz 1140z	15/09	Weak	2m15s		PLdn	WED
10521kHz 1150z	15/09	Weak	2m15s		PLdn	WED
18/09/2021	MISSED					
13521kHz 1100z	22/09	Weak	4m28s		PLdn	WED
13421kHz 1110z	22/09	Weak	4m28s		PLdn	WED
12221kHz 1120z	22/09	Fair	4m28s		PLdn	WED
11521kHz 1130z	22/09	Fair	4m28s		PLdn	WED
11021kHz 1140z	22/09	Fair	4m28s		PLdn	WED
10521kHz 1150z	22/09	Fair	4m28s		PLdn	WED
13521kHz 1100z	25/09	Fair	4m28s		PLdn	SAT
13421kHz 1110z	25/09	Fair	4m28s		PLdn	SAT
12221kHz 1120z	25/09	Strong	4m28s		PLdn	SAT
11521kHz 1130z	25/09	Strong	4m28s		PLdn	SAT
11021kHz 1140z	25/09	Strong	4m28s		PLdn	SAT
10521kHz 1150z	25/09	Fair	4m28s		PLdn	SAT

13521kHz 1100z	29/09	Strong	4m28s		PLdn	WED
13421kHz 1110z	29/09	Strong	4m28s		PLdn	WED
12221kHz 1120z	29/09	Fair	4m28s		PLdn	WED
11521kHz 1130z	29/09	Weak	4m28s		PLdn	WED
11021kHz 1140z	29/09	Weak	4m28s		PLdn	WED
10521kHz 1150z	29/09	Weak	4m28s	QRM3	PLdn	WED

October 2021

16245	02-10-2021 1100 XPB1	MFSK-16			Ary	SAT
15825	02-10-2021 1110 XPB1	MFSK-16			Ary	SAT
14925	02-10-2021 1120 XPB1	MFSK-16			Ary	SAT
13525	02-10-2021 1130 XPB1	MFSK-16			Ary	SAT
12125	02-10-2021 1140 XPB1	MFSK-16			Ary	SAT
11425	02-10-2021 1150 XPB1	MFSK-16			Ary	SAT

[Mni Tnx Ary, PLdn off watch until 03/10]

16425kHz 1100z	06/10	NRH			PLdn	WED
15825kHz 1110z	06/10	Weak	1m40s		PLdn	WED
14925kHz 1120z	06/10	Weak	1m40s		PLdn	WED
13525kHz 1130z	06/10	Strong	1m40s		PLdn	WED
12125kHz 1140z	06/10	Strong	1m40s		PLdn	WED
11425kHz 1150z	06/10	Strong	1m40s		PLdn	WED
16425kHz 1100z	09/10	NRH			PLdn	SAT
15825kHz 1110z	09/10	Weak	1m40s	BCQRM2	PLdn	SAT
14925kHz 1120z	09/10	Strong	1m40s		PLdn	SAT
13525kHz 1130z	09/10	Strong	1m40s		PLdn	SAT
12125kHz 1140z	09/10	Strong	1m40s		PLdn	SAT
11425kHz 1150z	09/10	Weak	1m40s		PLdn	SAT
16425kHz 1100z	13/10	NRH			PLdn	WED
15825kHz 1110z	13/10	Fair	1m40s		PLdn	WED
14925kHz 1120z	13/10	Fair	1m40s	QRM3	PLdn	WED
13525kHz 1130z	13/10	Fair	1m40s		PLdn	WED
12125kHz 1140z	13/10	Fair	1m40s		PLdn	WED
11425kHz 1150z	13/10	Fair	1m40s		PLdn	WED
16245kHz 1100z	16/10	NRH			PLdn	SAT
15825kHz 1110z	16/10	Fair	1m40s		PLdn	SAT
14925kHz 1120z	16/10	Fair	1m40s		PLdn	SAT
13525kHz 1130z	16/10	Fair	1m40s	QRM3	PLdn	SAT
12125kHz 1140z	16/10	Fair	1m40s		PLdn	SAT
11425kHz 1150z	16/10	Fair	1m40s		PLdn	SAT
16425kHz 1100z	20/10	NRH			PLdn	WED
15825kHz 1110z	20/10	Weak	4m28s		PLdn	WED
14925kHz 1120z	20/10	Strong	4m28s		PLdn	WED
13525kHz 1130z	20/10	Strong	4m28s		PLdn	WED
12125kHz 1140z	20/10	Strong	4m28s		PLdn	WED
11425kHz 1150z	20/10	Weak	4m28s		PLdn	WED
16245kHz 1100z	23/10	NRH			PLdn	SAT
15825kHz 1110z	23/10	Weak	4m28s		PLdn	SAT
14925kHz 1120z	23/10	Fair	4m28s		PLdn	SAT
13525kHz 1130z	23/10	Strong	4m28s		PLdn	SAT
12125kHz 1140z	23/10	Strong	4m28s		PLdn	SAT
11425kHz 1150z	23/10	Strong	4m28s		PLdn	SAT
16425kHz 1100z	27/10	NRH			PLdn	WED
15825kHz 1110z	27/10	Fair	1m40s		PLdn	WED
14925kHz 1120z	27/10	Fair	1m40s		PLdn	WED
13525kHz 1130z	27/10	Strong	1m40s		PLdn	WED
12125kHz 1140z	27/10	Strong	1m40s		PLdn	WED
11425kHz 1150z	27/10	Fair	1m40s		PLdn	WED
16425kHz 1100z	30/10	NRH			PLdn	SAT
15825kHz 1110z	30/10	Strong	1m40s		PLdn	SAT
14925kHz 1120z	30/10	Strong	1m40s		PLdn	SAT
13525kHz 1130z	30/10	Strong	1m40s		PLdn	SAT
12125kHz 1140z	30/10	Strong	1m40s		PLdn	SAT
11425kHz 1150z	30/10	Strong	1m40s	QRM2	PLdn	SAT

Other XPB1 [H-FD]:

1B XPB1 Sat
02.10.2021 1200Z 14462 msg
Sat 02.10.2021 1210Z 13962 msg
Sat 02.10.2021 1220Z 13462 msg
Sat 02.10.2021 1230Z 12162 msg
Sat 02.10.2021 1240Z 11562 msg
Sat 02.10.2021 1250Z 10962 msg

Tue 05.10.2021 0500Z 13471 msg 4:30
Tue 05.10.2021 0510Z 14771 msg
Tue 05.10.2021 0520Z 15871 msg
Tue 05.10.2021 0530Z 16271 msg
Tue 05.10.2021 0540Z 17471 msg

HM01/SK01 Hybrid

One report seen elsewhere – unsubstantiated and not reported here.

X06 Mazielka (1c) logs section

First I have to do some corrections to the last report :

On August 3rd, the groups were missing in both logs. Here they are completely :
20210803 Tue 0803-0805 13524 125643 Edd TX to Ulanbatar, fair, i. p., G317 (SDR)
20210803 Tue 0805-0808 15836 165423 Edd TX to Brussels, good, i. p., G12 (SDR)

Please ignore the 2nd footer. It referred to an uncomplete log, which Paul and I deleted – but I didn't think of the footer I wrote ; sorry, my mistakes ! The next report will be better, here it is :

This time we have more logs than last time :

Date	Day	UTC	Freq	Scale	Monitor	Comments
20210901	Wed	0700-0705	12150	256341	Schorschi	TX to Beirut, S9, G311
20210901	Wed	1111	16115	215346	HFD	TX to Mumbai, G25
20210904	Sat	1307	15928	1--6--	XAH	Strong X06b i. p. before E07
20210911	Sat	1008	13521	1--6--	Schorschi	Strong X06b before XPB1
20210913	Mon	0824-0825	9215	421635	Ary/NL	TX to Oslo, i. p., G74
20210919	Sun	0700-0711	12130	452163	Edd Smith	TX to Kabul, i. p., G403 (SDR)
20210921	Tue	0759	12174	154632	Edd	Shortie i.p., rare scale, G427(SDR)
20210921	Tue	0759-0810	12157	165423	Edd	TX to Brussels, i. p., G151 (SDR)
20210921	Tue	0803-0805	13524	125643	Edd	TX to Ulanbatar, i. p., G383 (SDR)
20210928	Tue	1004-1006	11025	612534	Edd	TX to Ashgabat, i. p., G234 (SDR)
20211004	Mon	0646-0650	10161	165324	Ary	TX to Vienna, G1
20211004	Mon	0734	11562	432516	Ary	TX to Bern, i. p., G6(1)
20211004	Mon	0817-0819	13395	532614	Edd	TX to Paris, i. p., G4 (SDR)
20211005	Tue	0756-0803	14615	125643	Ary	TX to Ulanbatar, i. p., G317
20211005	Tue	0825-0835	15687	154263	Ary	TX to Rome, i. p., G7
20211005	Tue	0922-0924	18206	246531	Ary	TX to Accra, i. p., G16
20211005	Tue	1148-1149	11550	1--6--	Edd	X06b i. p. (SDR)
20211005	Tue	1152-1202	16340	1--6--	Edd	X06b i. p. (SDR)
20211005	Tue	1201-1202	16188	325614	Edd	Alert 2 (TX to Nairobi, G392) 1
20211005	Tue	1204-1207	14942	325614	Edd	2.2 (i. p. via SDR like 2.1)
20211006	Wed	0829-0831	14631	362154	Ary	TX to Athens, i. p., G32
20211007	Thu	0713	19511	314265	Ary	TX to Antananarivo, i. p., G380(1)
20211007	Thu	1335-1337	16277	436512	Daniel/DE	TX to Harare, strong, i. p., G44
20211007	Thu	1622	12161	1-----	Schorschi	X06b single tone (only some secs)
20211014	Thu	1359-1404	13338	564213	Ary	TX to Bonn, G118
20211019	Tue	1058-1102	14812	246531	Ary	TX to Accra, G153
20211020	Wed	1039	11125	1-6-16	Ary	X06b shortie (only 6x sent)
20211027	Wed	0810	13419	465132	Ary	TX to Sofia, i. p., G246(2)

1) No end time

2) Under RTTY, hard to hear, no end time

STOP PRESS= PoSW also sent results in:

X06 6-Tone Repeating:-
Several of these heard by chance in September, not many in October:-
13-Sept-21, Monday:- 0814 UTC, 9215 kHz, weak signal, stopped after 0825z.

17-Sept-21, Friday:- 0511 UTC, 12200 kHz, good signal, went off a couple of minutes after being tuned in.

21-Sept-21, Tuesday:- 0758 UTC, 12157 kHz, very strong, went off after 0811z.

28-Sept-21, Tuesday:- 1819 UTC, 7680 kHz, S5-S6, went off after 1827z
1830 UTC, 6850 kHz, appeared to be the same tones, strong signal, stopped just before 1839z, carrier off shortly after.

29-Sept-21, Wednesday:- 0633 UTC, 14720 kHz, S6-S7, went off 0640:30s approx.
0643 UTC, 12200 kHz, same tones, S5-S6, went off after 0649z.

6-Oct-21, Wednesday:- 0642 UTC, 12150 kHz, strong signal, went off shortly after being tuned in.

Many thanks to all contributors as usual. Till EN 128 I say good-bye - and please stay healthy!

Jochen, the Numbers-, X06 Database and Teamkopf

Thank you to all our contributors

Giv us a Job!

GCHQ uses Instagram and Reddit in new recruitment drive for cyber spies ahead of application deadline
Q&A sessions with cyber operatives are being used to encourage people to submit applications by the September 7 deadline.

ByLinda HowardMoney and Consumer Writer
07:53, 7 SEP 2021UPDATED08:09, 7 SEP 2021

https://www.dailyrecord.co.uk/lifestyle/money/gchq-social-media-recruitment-drive-24924646?utm_source=sharebar&utm_medium=email&utm_campaign=sharebar

GCHQ has turned to social media in place of the traditional "tap on the shoulder" approach as part of its biggest ever recruitment drive for cyber operations.

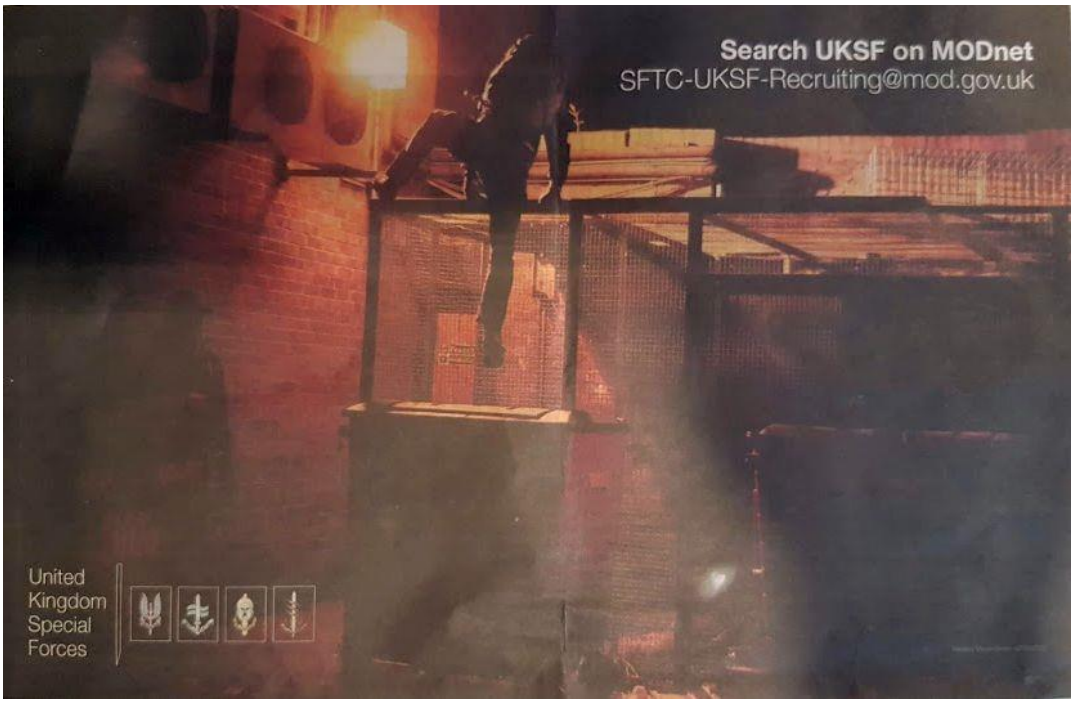
The agency's cyber spies have been allowed to lift the lid on their roles in the first-ever Reddit and Instagram Q&A sessions, in a bid to attract more creative people with a Stem (science, technology, engineering and mathematics) degree, from diverse backgrounds across the UK>.

Cyber operatives using the names Anika and Jane have been taking questions from the public on Reddit since August, ahead of the looming September 7 deadline for applications.

"Thankfully we're past the point of having to surreptitiously tap people on the shoulder," Anika responded to one interested user.

"Today we're a click of a mouse away."

https://www.dailyrecord.co.uk/lifestyle/money/gchq-social-media-recruitment-drive-24924646?utm_source=sharebar&utm_medium=email&utm_campaign=sharebar



MI6 warns James Bond wannabes spy work 'isn't about high-speed chases and poker'*

Secret service roles both at home and abroad are being advertised on job sites now – just days before the release of Daniel Craig's final Bond outing in No Time To Die

The MI6 is advertising new jobs(PA)
By Norman Silvester
18:11, 25 Sep 2021

https://www.mirror.co.uk/news/uk-news/mi6-warns-james-bond-wannabes-25072196.amp?utm_source=twitter.com&utm_medium=social&utm_campaign=sharebar

MI6 is on the lookout for new spies – but has warned James Bond wannabes the role won't be what they ex-Spectre.
Fast cars and fancy cocktails are out, replaced by office desks, staff socials and baking contests.

Secret service roles both at home and abroad are being advertised on job sites now – just days before the release of Daniel Craig's final Bond outing in No Time To Die.

One ad says: "Our work isn't about high-speed chases or high-stakes poker. It's not danger and dry martinis. We don't put our people in situations that would threaten them.

"Your work will look much like any office role. We've even got social events from bake-offs to photography competitions.

"You're part of a diverse and inclusive community of support. We're not looking for action heroes."

https://www.mirror.co.uk/news/uk-news/mi6-warns-james-bond-wannabes-25072196.amp?utm_source=twitter.com&utm_medium=social&utm_campaign=sharebar

***Common bloody sense if you ask us!**

PoSW's Items of Interest in the Media

Ever since the Covid 19 virus became "a thing" I have tried to avoid the mainstream media as much as possible. Back in March of 2020 when we were being made to queue at the supermarket two metres apart and the security guards were strutting up and down and shouting at us I expressed my displeasure to the woman at the checkout who told me not to worry and that things would be back to normal in a few weeks.

I replied that this would not be the case, you could tell from the body language and the smug looks on the faces of the politicians when they made their daily TV statements that this was going to be far more than defeating a virus. And thus, almost two years down the road, it has proved to be.

There is much talk of what the Political Class are calling the "Great Reset", which is going to give them the kind of control over us that they have always wanted, the"vaccine passport", that is evidence of having been vaccinated with, seemingly, a never-ending routine of booster vaccinations every few weeks to be used as a *de facto* internal passport and is tied in with the fascination our Political Class have with China's "Social Credit" system where a person's access to housing, healthcare, travel - and just about everything else that makes for a worthwhile existence depends on doing as you are told by the politicians.

Couple with that with their obsession with taking away our economical natural gas heating systems and replacing them with ground source heat pumps together with getting rid of reasonably costed petrol and diesel powered vehicles and making everyone buy extremely expensive electric cars, the future is looking grim indeed.

So, having only purchased one newspaper in the last two months, a copy of the *I* on 29-September, there was only one very short item with links to the world of espionage and military matters. "No plan to attack China, says General", Which says, "A top US military officer told Congress that he knew Donald Trump was not planning to attack China and it was his job to reassure the Chinese. General Mark Milley, chairman of the Joint Chiefs of Staff, defended two calls he made to his Chinese counterpart over China's concern about a US attack."

Point to ponder:- "Man that is born of a woman hath but a short time to live, and is full of misery" - from The Order for the Burial of the Dead, *The book of Common Prayer*,

Happy Christmas Comrades!

Chart Section Index

November 2021

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x	x	x	x	x			0000		F01	01A	17471	17471
x				x			0010/0030/0050		M12	01B	16275/15975/14675 296	14947/13447/12147 941
x				x			0025/0035		F01	01A	12101/ 9215	10884/ 8157
	x			x			0030/0050/0110		M12	01B	6874/ 8074/ 9374 803	6832/ 7532/ 8132 851
	x		x				0100/0120/0140		M12	01B	15831/14431/13431 844	15956/14756/13456 974
x				x			0125/0135		F01	01A	12101/ 9215	10884/ 8157
						x	0100/0120/0140		V07	01B	15946/14846/13486 984	11594/10794/10194 571
			x			x	0110/0130/0150		M12	01B	11054/10754/ 9254 972	9379/ 8179/ 7479 314
x	x	x	x	x	x	x	0200		V13	0	13750	13750
x							0210/0310		E06	01A	10673/14398 537	9382/13426 537
x				x			0300		E11	03	 18#, search	 18#
			x	x			0300/0400		E06	01A	16163/13863 361	14654/12177 361
x	x	x	x	x	x	x	0300		V13	0	13750	13750
		x	x				0315		E11	03	x5779 25#, search	x5779 25#
x	x	x	x	x	x	x	0400		V13	0	11430	11430
x	x	x	x	x			0400/0420		S06	01A	11616/ 9322 480	11616/ 9322 480
x							0450		E11	03	4909 41#	4909 41#
x		x		x		x	0455		HM01	18	10860	10860
	x		x		x		0455		HM01	18	11462	11462
x	x	x	x	x	x	x	0500		V13	0	11430	15388
	x		x				0500		S11A	03	 38#, search	 38#
x	x	x	x	x			0500/0520		M14	01A	12211/10243 952	12211/10243 952
x		x					0510		S11A	03	9057 65#	9057 65#
	x			x			0530		M01A	14	9441 751	9441 751
		x	x				0530		M01A	14	9129 or 9192 498	9129 or 9192 498
	x						0530/0550/0610		M12	01B	9317/10484/11552 135	9317/10484/11552 135
			x				0530/0550/0610		E07A	01B	5111/ 5811/ 6911 189	5111/ 5811/ 6911 189
		x	x				0540		M01A	14	7692 536	7692 536
x		x		x		x	0555		HM01	18	10345	10345
	x		x		x		0555		HM01	18	14375	14375
				x		x	0600		E11	03	x6280 35#, search	x6280 35#
x	x	x	x	x	x	x	0600		V13	0	11430	15388
	x						0600/0610		S06S	01A	16145/14240 438	16145/14240 438

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
x	x						0600/0610/0620 0630/0640/0650		XPB1	01B	13446/14446/14946 15846/16146/17446 **check**	12118/13418/13918 14418/14918/15918 **check**
			x	x			0600/0700	1/3	E06	01B	18285/20140 507	14575/17420 923
	x			x			0620		M01A	14	10233 or 10235 354/458	10233 or 10235 354/458
		x	x				0620		M01A	14	9421 135	9421 135
	x			x			0630		M01A	14	9447 143/796	9447 143/796
		x	x				0630		M01A	14	8111 902/536	8111 902/536
x							0630/0640		S06S	01A	13470/16515 462, check	13470/16515 462
x		x					0640		E11	03	11450 94#, **check**	11450 94#
	x		x				0645		E11	03	7840 51#	7840 51#
x		x		x		x	0655		HM01	18	9330	9330
	x		x		x		0655		HM01	18	13435	13435
x			x				0700		S11A	03	9050 47#	9050 47#
	x			x			0700		E11	03	6804 57#	6804 57#
x	x	x	x	x	x	x	0700		V13	0	15250	18040
						x	0700		M01	01B	5465 197	5465 197
	x						0700/0710		S06S	01A	5250/ 6320 452	5250/ 6320 452
	x			x			0700/0720/0740		E07	01B	15823/16323/18623 836	14364/14964/15964 399
						x	0700/0720/0740		E07	01B	10268/11068/12168 201	9326/10426/11526 345
	x			x			0710		M01A	14	10651 297/358	10651 297/358
		x	x				0710		M01A	14	9175 146/208	9175 146/208
x		x					0715		E11	03	75#, **search**	75#
	x			x			0715		E11	03	9130 63#	9130 63#
	x			x			0720		M01A	14	9151 728	9151 728
					x	x	0730		E11	03	x4505 49#, **search**	x4505 49#
x	x						0730/0740		S06S	01A	7410/11532 427	7410/11532 427
x			x				0745		E11	03	10213 26#	10213 26#
	x		x				0745		E11	03	13908 22#	13908 22#
		x		x			0745		E11	03	17378 34#	17378 34#
x		x		x		x	0755		HM01	18	9065	9065

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
	x		x		x		0755		HM01	18	11365	11365
x	x	x	x	x	x	x	0800		V13	0	15250	18040
			x				0800/0810		E17Z	01A	11170, 9820 217	11170, 9820 217
	x						0800/0810		S06S	01A	11945/13195 127	11945/13195 127
					x		0800/0810	1	S06S	01A	8680/ 8260 132	8680/ 8260 132
		x				x	0800/0820/0840		M12	01B	17432/18532/19132 451	16234/17434/18234 242
		x					0800/0820/0840		XPA2	01B	11529/13429/13929	11493/13393/13993
	x		x				0810/0830/0850		XPA1	01B	13978/14859/15871	11531/12137/13932
			x	x			0820		E11	03	5149 43#	5149 43#
	x	x					0820		E11	03	14611 13#	14611 13#
					x	x	0830		S11A	03	5371 37#, check	5371 37#
							0830/0840		S06S	01A	8057/ 8530 764	8057/ 8530 764
x		x					0830/0840		S06S	01A	7062/10532 464	7062/10532 464
x			x				0830/0840		S06S	01A	11535/11830 172	11535/11830 172
				x			0830/0840		S06S	01A	11040/12153 156	11040/12153 156
x			x	x			0830/0930		S06	01A	19875/16067 842	17435/14375 842
x		x					0845		E11	03	12067 71#	12067 71#
	x		x				0845		E11	03	12089 15#	12089 15#
		x		x		x	0855		HM01	18	9240	9240
	x		x		x		0855		HM01	18	11462	11462
x		x					0900		E11	03	8597 53#, **check**	8597 53#
							0900/0910		S06S	01A	14675/12830 232	14675/12830 232
				x			0900/0910		S06S	01A	5765/ 6315 239	5765/ 6315 239
					x		0900/0920/0940		E07A	01B	11553/12153/13553 515	11121/12221/13421 124
x		x					0910/0930/0950		XPA2	01B	17413/15852/13363	13562/11583/10281
			x		x		0910/0930/0950		XPA2	01B	15985/14885/13885	13919/11519/10719
x				x			0915		S11A	03	6252 48#	6252 48#
x	x	x	x	x	x	x	0930		M14	01A	17458 617, only 10.+25. when msg repeat 15994 on 11.+26.	17458 617, only 10.+25. when msg repeat 15994 on 11.+26.
		x	x				0930		E11	03	7469 27#	7469 27#
x			x				0930/0940		S06S	01A	8812/ 9540 698	8812/ 9540 698

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
						x	0930/1000		S06	01A		9463/ 7377 480
x		x		x		x	0955		HM01	18	9155	9155
	x		x		x		0955		HM01	18	12180	12180
	x			x			1000		E11	03	8597 30#, check	8597 30#
	x						1000/1010		S06S	01A	6440/ 5660 427	6440/ 5660 427
		x					1000/1010		S06S	01A	12365/14280 276, **check**	12365/14280 276
	x	x	x	x			1015/1025/1035		F01	01A	12177/10671/ 8024	12164/10336/ 8016
	x			x			1020		S11A	03	**8102** 42#	8102 42#
x		x					1045		E11	03	7984 69#	7984 69#
	x						1100/1110		S06S	01A	5035/5975 265	5035/5975 265
x					x		1100/1110/1110 1130/1140/1150		XPB1	01B	13894/13394/12194 11494/11094/10494 **check**	14483/13983/13483 12183/11583/1098**3** **check**
	x			x			1100/1120/1140		XPA2	01B	10653/ 9353/ 8153	9265/ 8165/ 7665
		x	x				1100/1120/1140		XPA2	01B	13393/12193/11093	11579/10979/10279
			x				1110/1130/1150		M12	01B	13386/2189/11491 725	13386/2189/11491 725
x							1200/1220/1240		M12	01B	14377/13461/12114 317	14377/13461/12114 317
x	x	x	x	x	x	x	1200		V13	0	7502	7688
x			x				1200/1210		S06S	01A	12155/10920 175	12155/10920 175
		x			x		1200/1210/1210 1230/1240/1250		XPB1	01B	**search**	**search**
	x					x	1200/1220/1240		XPA2	01B	14783/13883/12183	10807/12207/13507
		x		x			1200/1220/1240		XPA2	01B	10968/12168/13368	9389/10289/11589
	x	x					1205		E11	03	6433 46#	6433 46#
x			x				1300		E11	03	4909 31#	4909 31#
x	x	x	x	x	x	x	1300		V13	0	7502, 11430	7688
x							1300/1310		S06S	01A	8420/10635 149	8420/10635 149
					x		1300/1330		S06	01A		6792/ 5380 480
		x		x			1310/1330/1350		XPA1	01B	13875/13375/10875 838	13465/12165/10265 412
			x			x	1330		E11	03	5082 52#	5082 52#
	x				x		1345		E11	03	13363 91#	13363 91#
					x		1400/1420/1440		E07	01B	10323/ 9123/ 8023 310	9326/10426/11526 345
			x		x		1410/1430/1450		E07	01B	11574/10274/ 9274 327	10226/ 9226/ 8126 674
	x	x	x				1500/1600		S06	01A	13397/ 9194 387	

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
					x		1500		M01	14	5810 197	5810 197
x	x						1500/1510		S06S	01A	6845/ 9170 914	6845/ 9170 914
			x		x		1510/1530/1550		E07	01B	search	search
			x				1530		E11	03	5409 26#	5409 26#
					x	x	1530		E11	03	4909 36#	4909 36#
	x	x	x	x	x	**x**	1555		HM01	18	11435	11435
x			x				1600/1620/1640		M12	01B	**search**	**search**
					x		1600/1620/1640		XPA2	01B	8126/ 6826/ 5326	6984/ 5884/ 4784
	x		x				1600/1620/1640		XPA2	01B	10223/ 9223/ 8123	8184/ 7864/ 6784
	x					x	1605		E11	03	5344 23#	5344 23#
				x			1610/1630/1650		E07A	01B	8138/ 7538/ 6838 158	5887/5387/ 5087 830
	x		x				1645		E11	03	33# **search**	33#
				x		x	1650		E11	03	6849 92#	6849 92#
	x	x	x	x	x	**x**	1655		HM01	18	11530	11530
			x				1700/1720/1740		M12	01B	12162/11566/1ß711 546	12162/11566/1ß711 546
		x					1710/1730/1750		M12	01B	12162/11566/10711 546	12162/11566/10711 546
		x				x	**1715**		E11	03	5082 97#	5082 97#
x			x				1730		E11	03	5779 41#	5779 41#
x						x	1745		E11	03	12924 24#	12924 24#
x	x	x	x	x	x	**x**	1755		HM01	18	11635	11635
	x		x				1800		M01	14	5320 197	5320 197
		x				x	1800/1820/1840		E07	01B	7582/ 6782/ 5182 571	6771/ 5871/ 4571 785
			x				1800/1820/1840		M12	01B	12162/11566/10711 546	12162/11566/10711 546
		x			x		1850		S11A	03	11486 28#	11486 28#
x			x				1900		E11	03	6849 64#	6849 64#
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
				x			1900/2000	1/3	S06	01A	7553/ 5329 768	
		x			x		1910		E11	03	4505 39#	4505 39#
				x		x	1910		E11	03	10487 61#	10487 61#
	x			x			1940/1950/2000	1	F01	01A	8172/ 6791/ 4546	7684/ 5326/ 4029
	x		x				2000		M01	14	4490 197	4490 197

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Nov kHz, ID, ...	Dec kHz, ID, ...
	x					x	2000/2010/2010 2030/2040/2050		XPB1	01B	7876/ 7576/ 6876 5876/ 5376/ 4476 **check**	8058/ 7558/ 5858 5158/ 4858/ 4458 **check**
			x				2000/2020/2040		M12	01B	14377/13461/12112 317	14377/13461/12112 317
				x			2000/2100	1/3	S06	01A		7553/ 5329 768
x		x		x		x	2055		HM01	18	11635	11635
	x		x		x		2055		HM01	18	16180	16180
		x					2100/2120/2140		E07A	01A	5877/ 5277/ 4577 825	5877/ 5277/ 4577 825
x		x		x		x	2155		HM01	18	10715	10715
	x		x		x		2155		HM01	18	17480	17480
				x	x		2200/2220/2240		M12	01B	6859/ 7459/ 9959 849	5832/ 6832/ 7732 887
			x				2210/2230/2250		M12	01B	6937/ 5737/ 4537 975	6937/ 5737/ 4537 975
					x		2230/2240		F01	01A	20741/18702	18169/15765
x			x				2300/2320/2340		M12	01B	10446/ 9046/ 7946 392	9134/ 8134/ 7534 457
					x		2330/2340		F01	01A	20741/18702	18169/15765

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC M01/1 197

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5320
TUE / THU	2000	4490
SAT	1500	5810
SUN	0700	5465

MAR APRIL SEPT OCT M01/2 463

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5475
TUE / THU	2000	5020
SAT	1500	6260
SUN	0700	6510

MAY JUNE JULY AUG M01/3 025

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5280
TUE / THU	2000	4905
SAT	1500	6435
SUN	0700	6780

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Sep kHz, ID, ...	Oct kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
x				x			0300		E11	03	18#, search	18#	18#, search	18#	since 07/15, last log 08/21
		x	x				0315		E11	03	**11092** 25#	11092 25#	x5779 25#, search	x5779 25#	since 01/14, last log 09/21
x							0450		E11	03	5371 41#	5371 41#	4909 41#	4909 41#	since 02/10, last log 10/21 2nd transmission Thu 1730z
	x		x				0500		S11A	03	**14769** 38#	14769 38#	38#, search	38#	since 05/14, last log 10/21
x		x					0510		S11A	03	11116 65#	11116 65#	9057 65#	9057 65#	since 08/19, last log 10/21
				x		x	0600		E11	03	**8680** 35#	8680 35#	x6280 35#, search	x6280 35#	since 04/15, last log 10/21
x		x					0640		E11	03	**14865** 94#	14865 94#	11450 94#, **check**	11450 94#	since 07/17, last log 10/21
	x		x				0645		E11	03	8423 51#	8423 51#	7840 51#	7840 51#	since 07/09, last log 10/21
x			x				0700		S11A	03	8597 47#	8597 47#	9050 47#	9050 47#	since 04/10, last log 10/21
	x			x			0700		E11	03	8180 57#	8180 57#	6804 57#	6804 57#	since 01/12, last log 10/21
x		x					0715		E11	03	**15632** 75#	15632 75#	75#, **search**	75#	since 06/21, last log 10/21
	x			x			0715		E11	03	9963 63#	9963 63#	9130 63#	9130 63#	since 02/11, last log 10/21
					x	x	0730		E11	03	**9079** 49#	9079 49#	x4505 49#, **search**	x4505 49#	since 07/15, last log 10/21
x			x				0745		E11	03	10213 26#	10213 26#	10213 26#	10213 26#	since 03/14, last log 10/21 2nd transmission Thu 1530z
	x		x				0745		E11	03	14865 22#	14865 22#	13908 22#	13908 22#	since 01/20, last log 10/21
		x		x			0745		E11	03	17410 34#	17410 34#	17378 34#	17378 34#	since 06/17, last log 10/21
			x	x			0820		E11	03	5941 43#	5941 43#	5149 43#	5149 43#	since 10/09, last log 10/21
	x	x					0820		E11	03	19184 13#	19184 13#	14611 13#	14611 13#	since 12/18, last log 10/21
					x	x	0830		S11A	03	6433 37#, check	6433 37#	5371 37#, check	5371 37#	since 02/14, last log 10/21
x		x					0845		E11	03	12202 71#	12202 71#	12067 71#	12067 71#	since 09/10, last log 10/21
	x		x				0845		E11	03	12202 15#	12202 15#	12089 15#	12089 15#	since 07/17, last log 10/21
x		x					0900		E11	03	**9968** 53#	9968 53#	8597 53#, **check**	8597 53#	since 10/05, last log 10/21
x				x			0915		S11A	03	6480 48#	6480 48#	6252 48#	6252 48#	since 04/19, last log 10/21
		x	x				0930		E11	03	6940 27#	6940 27#	7469 27#	7469 27#	since 02/14, last log 10/21
	x			x			1000		E11	03	**9951** 30#	9951 30#	8597 30#, check	8597 30#	since 11/16, last log 10/21
	x			x			1020		S11A	03	8088 42#	8088 42#	**8102** 42#	8102 42#	since 02/10, last log 10/21 2nd transmission Thu 1730z
x		x					1045		E11	03	7317 69#	7317 69#	7984 69#	7984 69#	since 03/18, last log 10/21
	x	x					1205		E11	03	6923 46#	6923 46#	6433 46#	6433 46#	since 03/10, last log 10/21 2nd transmission Mon 0450z
	x		x				1230		E11	03	**12530** 33#	12530 33#			since 10/11, last log 10/21 Nov-Feb & May-Aug at 1645z
x			x				1300		E11	03	5371 31#	5371 31#	4909 31#	4909 31#	since 07/14, last log 10/21
			x			x	1330		E11	03	5737 52#	5737 52#	5082 52#	5082 52#	since 05/15, last log 10/21
	x				x		1345		E11	03	14972 91#	14972 91#	13363 91#	13363 91#	since 10/15, last log 10/21
			x				1530		E11	03	10330 26#	10330 26#	5409 26#	5409 26#	since 06/14, last log 10/21 2nd transmission Mon 0745z
					x	x	1530		E11	03	4505 36#	4505 36#	4909 36#	4909 36#	since 03/14, last log 10/21 2nd transmission Thu 1530z
	x					x	1605		E11	03	5082 23#	5082 23#	5344 23#	5344 23#	since 11/15, last log 10/21
	x		x				1645		E11	03			33# **search**	33#	since 10/11, last log 10/21 Mar/Apr/Sep/Oct at 1230z
				x		x	1650		E11	03	11116 92#	11116 92#	6849 92#	6849 92#	since 05/16, last log 10/21
		x				x	**1715**		E11	03	6923 97#	6923 97#	5082 97#	5082 97#	since 02/15, last log 10/21 **until 09/21 at 1625z**
x			x				1730		E11	03	7864 41#	7864 41#	5779 41#	5779 41#	since 03/10, last log 10/21 2nd transmission Mon 0450z
x						x	1745		E11	03	13470 24#	13470 24#	12924 24#	12924 24#	since 04/18, last log 10/21
		x			x		1850		S11A	03	10213 28#	10213 28#	11486 28#	11486 28#	since 06/17, last log 10/21
x			x				1900		E11	03	7317 64#	7317 64#	6849 64#	6849 64#	since 05/16, last log 10/21
		x			x		1910		E11	03	4181 39#	4181 39#	4505 39#	4505 39#	since 02/14, last log 10/21
				x		x	1910		E11	03	8530 61#	8530 61#	10487 61#	10487 61#	since 04/17, last log 10/21

XPA1 Sched c and XPA2[Sched m & p] Russian Intelligence and/or Diplomatic Multitone Systems [Radiogramma] Transmission Schedules.

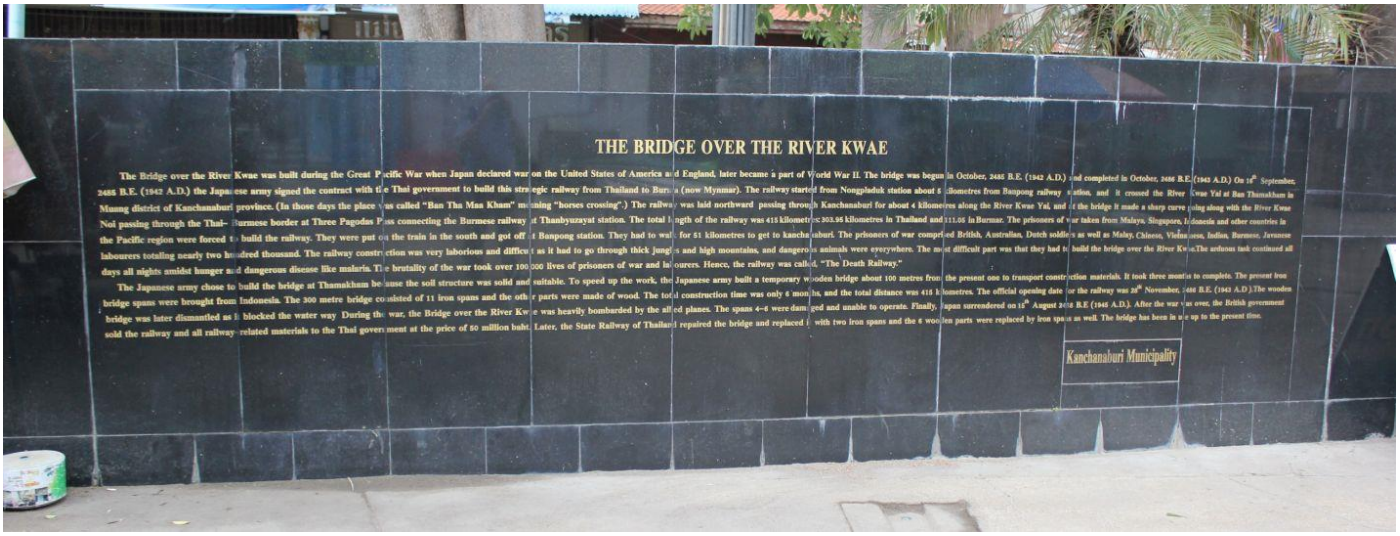
Zulu > / Month v	XPA1 Sched c Tuesday/Thursday H+10 H+30 H+50 0710 / 0810z			XPA2 Sched m Sunday/Tuesday H 00 H+20 H+40 1200/2100			XPA2 Sched p Monday/Wednesday H 00 H+20 H+40 0700 / 0800z		
Jan	12157	13462	14374	10921	12221	13521	11493	13393	13993
Feb	13397	14413	15972	11163	13363	14563	13387	13887	14787
Mar	12132	13453	14576	13384	13984	14984	13931	14831	16131
Apr	10428	11431	13441	14442	15842	16342	11409	12209	13409
May	11169	12179	13431	13376	11576	10776	12148	13448	13948
June	11421	12151	13972	13427	12227	10827	12148	13448	13948
July	10446	11474	12175	13394	12194	10794	12148	13448	13948
Aug	10234	11511	12117	12159	11559	10559	12152	13552	13952
Sept	10862	11571	12216	13914	15814	16314	12152	13552	13952
Oct	12167	13437	14972	14469	16169	17469	13372	14672	15872
Nov	13978	14859	15871	14783	13883	12183	11529	13429	13929
Dec	11531	12137	13932	10807	12207	13507	11493	13393	13993

At the closure of the November Issue we always remember those who fought and acted for the freedoms we enjoy today. This image repeated because my father had the misery to have fought in Burma. Never spoke of it. In later life before he passed at 94 he looked out of his window, turned to me and said,
"I lost some good mates in Burma; 'look at what they've done with what we've given them."
'They' referred to the various governments since the end of WW2.
My Godfather died of wounds inflicted on him as a Japanese prisoner of war; used for bayonet practice he survived, only to die in 1950.
No wonder my father would not knowingly purchase anything Japanese.

[As I reflect on the above I do wonder what he'd think of my international family, extended by Indian and Filipino wives and now Japanese too]?

I have visited Kanchanaburi War Graves on three occasions. Each time was an emotional event; average age of those who died was 23 years. Some younger, some older at the hands of the Imperial Japanese Army.

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

Suicide in the Trenches

I knew a simple soldier boy
Who grinned at life in empty joy,
Slept soundly through the lonesome dark,
And whistled early with the lark.

In winter trenches, cowed and glum,
With crumps and lice and lack of rum,
He put a bullet through his brain.
No one spoke of him again.

You smug-faced crowds with kindling eye
Who cheer when soldier lads march by,
Sneak home and pray you'll never know
The hell where youth and laughter go.

Siegfried Sassoon

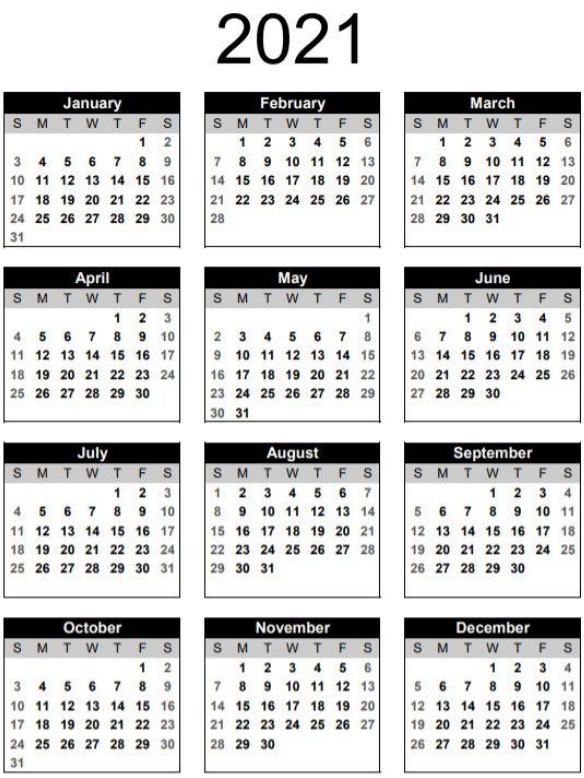
SPECIAL MATTERS

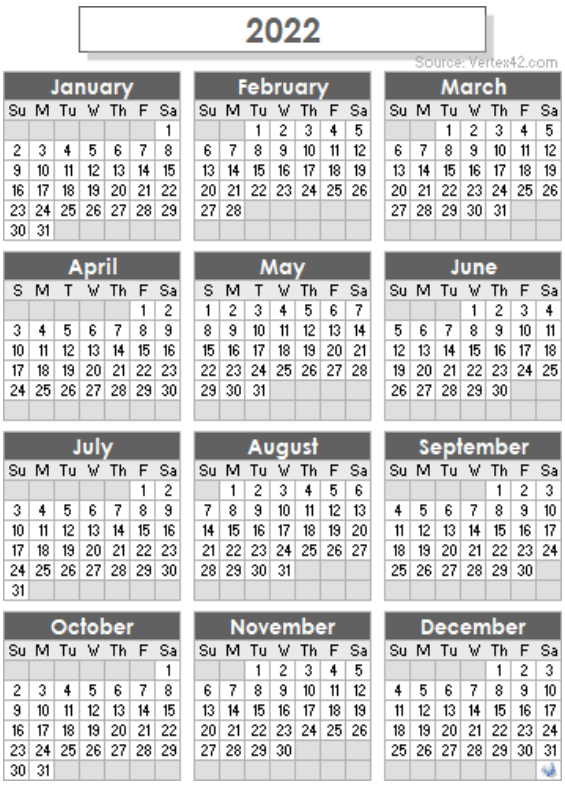
Thanks to all our contributors:
Ary, BR, Brixmis, DanAr, Dannix, , E, Edd, HH, HJH, JkC, Jochen, MaleAnon, , PoSW, PLdn, RNGB
Apologies to anyone missed.

E: Thanks for your reports as ever; Compliments to you and yours and dodge the C-19!

RELEVANT WEBSITES

ENIGMA 2000 Website:	http://www.enigma2000.org.uk
Mystery Signals	http://www.mysterysignals.signalshed.com/
Time zone information:	http://www.timeanddate.com/library/abbreviations/timezones/
Encyclopedia of Espionage, Intelligence, and Security	http://www.espionageinfo.com/





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