

The **NASA** Journal

VOLUME LXII NUMBER 3

MARCH 2022



North American Shortwave Association – America's Shortwave Broadcast Club

Serving Monitoring Enthusiasts Since 1942

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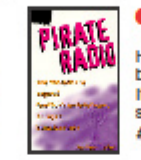
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This affordable market guide features the top 100 most sought after shortwave portables and tabletop communications receivers. Photo, specs, features, ratings, plus new and used values for each. Fourth Ed. ©1998 URR. 78 pages.
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In This Issue

NASA Notes	4
Musings.....	5
Listening Review	6
International Broadcasting.....	11
Shortwave Center.....	13
The Robinson Report.....	22
Listener's Notebook.....	24
Pirate Radio Report.....	38
Scoreboard.....	41
Contributors' Page.....	42
Loggings.....	43
On the Short Waves.....	51
Index.....	53

NASA Notes

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The club's annual (virtual) Winter SWL Festival will probably be over as this gets distributed to members. Thanks to Rich Cuff and John Figliozzi as well as Sheldon Harvey and Mick Delmage (hospitality hosts) for getting this together this year. With Covid-19 in retreat, we are hopeful to be able to meet in person once again next year. Below you will see that the European DX Council hopes to meet in Bucharest in a few months.

WBCQ, the Planet, commences new programming on 4,790 kHz in the evening hours in North America with a special block of programs from around the world coming into the mix, all entertainment and culture; many of them new programs for our listening pleasure. Member Bill Tilford is heavily involved in the development of some of the programming aspects of this new effort so give these new programs using 4,790 kHz a listen as your time permits. I heard the test transmissions in February so I know the signal is good for casual listening. The new programming is being sponsored by Angela and Allan Weiner and curated by our own "Uncle Bill" Tilford for the shortwave listening community. No politics or religion is scheduled to be part of this block. If you have complained about too much politics and religion on the shortwave airwaves, you should try this new block from WBCQ on 4,790 kHz which will introduce six new programs to shortwave listeners.

Nicholas Hardyman, Publisher of the World Radio Television Handbook, announced recently the availability of B21 schedule updates. A pdf of updates to the B21 schedules in the International section of WRTH 2022 is now available free of charge at www.wrth.com. Visit Update and click the "International Updates" link to download the file from the WRTH store. If you haven't yet got your copy of WRTH 2022 you can buy one from Universal Radio. Many of these updates have been included in Listeners Notebook.

With so much in the news about Ukraine, John Herkimer thought he would do a little throwback cover for March. Radio Kiev was widely heard when Ukraine was part of the USSR. They became an independent state in December 1991 after the collapse of the Soviet Union and by the following March the station was renamed Radio Ukraine International. They left shortwave in 2011 but could be heard via WRMI beginning in 2014 and later via the 1kW shortwave service transmitter at Kall-Krekel, Germany. At this writing, WRMI has announced it has resumed its relay of Radio Ukraine International in English on shortwave using the following schedule: Radio Ukraine International in English at 1200-1300 UTC on 5010 kHz Saturday-Thursday via WRMI-14 Okeechobee. More transmissions at other times and frequencies will added to do so if possible according to our friends at the DX Mix in Bulgaria.


Unity and Friendship

From the Shortwave Bulletin via Christoph Rutzer in A-DX there is some exiting information that Nico Palermo is working on a new exceptional receiver. One of the most amazing features is its ability to process multiple antenna sensors and produce results which are simply unbelievable and tremendously superior to those that can be achieved using common SDR's. The Shortwave Bulletin says there will be more information at a later date.

As winter hits a big chunk of the country once again, John Figliozzi has rounded up some great reading in the Shortwave Center. First up is High-Frequency Trading (HFT) Transmissions, and Three Prospective Stations Seeking Entry into the International Broadcast Service by Benn Kobb followed by two radio receiver reviews. The first review is from James Careless comparing the CC Skywave from CCrane and the Sangean ATS-909X2. The second review is from Craig Seager with a retro review of the Hammarlund HQ-140-XA.

Christian Ghibaudo (chr.ghibaudo@gmail.com) informs us that the European DX


Council Conference is moving forward as the health situation will allow the EDXC to meet in Bucharest from May 20 to 22, 2022. The venue will be the Mercure hotel in the city center. The actual conference will take place on Saturday and Sunday morning. A welcome drink is on Friday evening. For those, who can arrive on Thursday, they are planning a visit to the Radio Romania International's studios on Friday, this will be confirmed at the beginning of May. On Saturday (time to be defined) there will be a sightseeing tour of Bucharest (2 hours). The fees are as follows: Conference fees: 61.95 euro (i.e. conference room & lunch for Saturday & Sunday); Saturday evening banquet: 31 euro and Tourist visit around 20/25 euro must be confirmed. For the rooms, its 65 euro (single) or 75 (double/twin) breakfast included. For the reservation of the room, it will be necessary to do it by a form prepared by the hotel, so as soon as possible ask me for this form. EDXC website: <https://edxcnews.wordpress.com>.

That's it for this month. Enjoy this month's edition of the JOURNAL; it's another good one. 

Musings

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Jerry Alice is still recovering from surgery, so hopefully Musings will return next month.

Please remember to direct all communications about subscriptions, bulletin delivery issues, the use of PayPal as a payment method, etc. to Rich Cuff at the club's new business address P. O. Box 3292, Allentown, PA 18106 or to his e-mail address, hq@naswa.net. Missing issue emails should CC rm271828@gmail.com. Thanks! 

Listening Review

Alan Roe • 33 Athara Road • Teddington, TW11 9PA, United Kingdom • alan-roe-swl@randa33.co.uk

Welcome to Listening Review for March 2022. I have a lot of program news this month, so

WBCQ: Radio Angela (and Area51/61)

The big news this month is the introduction on 1 March of a daily two-hour per night entertainment block each evening on **WBCQ** on 4790 kHz under the umbrella title **Radio Angela**. It is sponsored by Angela and Allan Weiner and curated by "Uncle Bill" Tilford.

Bill writes that the program grid will be a combination of some WBCQ entertainment favorites and a series of new special programs that were developed specifically for Radio Angela. At the time of writing, the exact schedule of programming is to be confirmed and will be circulated in the NASWA iog mail list as soon as possible. It will probably air from 0200-0400 UTC

(although this is also still to be confirmed and could be a two-hour slot anywhere between 2300-0500).

The established "anchor programs" will be ***From the Isle of Music, Uncle Bill's Melting Pot, Marion's Attic, Behavior Night, Tom Call Theater, Rock Wave*** and an archival program, ***Bluegrass State of Mind***. Additionally, an established listener favorite in Europe not previously heard in the US, ***Jetzt Geht's Los!***, a wonderful program of early German jazz, will be included.

New programs developed by hosts around the world especially for Radio Angela on WBCQ include:

- ***Ginga*** (pronounced "jeengah"), a new weekly program that will feature the music of Brazil with host Julio Cesar Pereira (Brazil).
- ***WBCQ Concert Hall***, a weekly 2-hour program hosted by Bill Tilford (US), will feature long-form classical (opera, symphonic music).
- ***Scorched Earth Radio***, a new biweekly program with host John McMullan (US), will feature brand new releases as part of Radio Angela's mission to include new music.

New monthly programs include:

- ***Canadian Content Radio*** with host Sean Welsh (Canada). This program will feature music by Canadian



musicians and other recordings with a Canadian connection.

- **Far Out East** with Host David Pakula (Russia). This program will feature jazz, rock, funk fusion, film music and other surprises from Eastern Europe to East Asia.
- **Finnfolk** with host Sauli Heikkilä (Finland). This program will feature traditional and contemporary folk from Finland with occasional forays beyond its borders.
- **Maria Bonita** with host Luis Alejandro Vallebuena (Mexico). This program will explore the music of Mexico (in Spanish).

Additional new programs are still under development including a possible "**WBCQ Open Mic**" section to accommodate listener-submitted one-offs and other projects that don't quite fit the description of regular programs.

A quick reminder that **Area 51** and **Area 61** programming continues on **WBCQ**, on 6160 kHz, from 0000-0200UTC each day.

Sunday and Monday: Area 51 programming comprises music and other programs including Radio Timtron Worldwide, Grits Radio, **The Lumpy Gravy Radio Show**, **Glenn Hauser's World of Radio** and **Hobart Radio International**.

Tuesday to Friday: Area 61 programming comprises classic Old-Time Radio programs including **Jean Shepherd**, **Adventures of Superman**, **Suspense**, **The Man Called X**, **Gunsmoke**, **Dragnet**, and **X Minus One** (amongst others).

On Saturdays from 0100-0200UTC there is a live broadcast most weeks of **Allan and**

Angela Weiner Worldwide with news about WBCQ, radio news and a variety of other (sometimes controversial) topics in a chat format.

Radio Bulgaria

I was very pleased to hear programming from **Radio Bulgaria** back on shortwave, almost exactly ten years after ending their last shortwave programs. In fact, some years later Radio Bulgaria even stopped producing any audio programs even on their website. However, in September 2021, R Bulgaria resumed audio podcasts from Mondays to Fridays, and now these podcasts are being aired once again on shortwave on 3985kHz via the Shortwave Service transmitter in Kall, Germany. Unfortunately, these broadcasts are not officially recognised by R Bulgaria, as noted by Dr. Hansjoerg Biener in WORiog mail list:

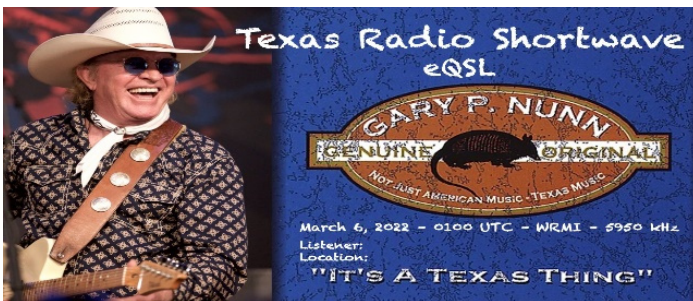
"According to Rossitsa Radulova of the German internet service of Bulgarian National Radio, there will be no QSLs to verify reception reports for the rebroadcast of their podcasts in German and English by Shortwave Service Kall. 'After consulting with my colleagues, I have to inform you and everyone else who has written to us and sent reception reports that we will not issue a QSL card for this. The reason for this is that our program, which we produce from Monday to Friday and publish on our website, is broadcast via the Kall-Krekel transmitter without our knowledge or involvement. There is no agreement between the Bulgarian National Radio and the broadcaster on this, so we cannot influence these programs and their content and accordingly assume no responsibility. In addition, we have stopped issuing QSL cards for cost and personnel reasons for years.' (Rossitsa Radulova in a response to Bernd Seiser 15 February 2022 via Dr. Hansjoerg Biener" in WORiog)

So, it is many thanks to **Christian Milling** of Shortwave Service for providing, at least for now, these Radio Bulgaria programs.

They are heard daily on 3985kHz in German from 1800-1820 (approx.) and English from 1830-1853(approx.), starting with a short news bulletin, followed by a feature about life or politics in Bulgaria, and ending with the Song of the Day.

A final note, whilst it's not likely that you're going to get a QSL for this, it is worth at least a quick email to the station at english@bnr.bg, expressing interest in their program and we can but hope that the broadcast becomes officially recognised by Radio Bulgaria.

Texas Radio Shortwave



Texas Radio Shortwave programs continue through March, as highlighted in last month's column, with music from the **South by Southwest festival (TRSW On-Stage)** and a **Gary P Nunn music special**. There is however one change: an additional broadcast comprising of a **Lydia Mendoza music special** on 12 March at 0200 on 5800kHz via WRMI.

Pop Shop Radio

Tony Pavick writes with details of a new show that he is launching on Friday 4 March at 2200 UTC. It's called **Pop Shop Radio - Soul Time**. Based on the great response to his 'All Singing - All dancing' Northern Soul New Years' Eve Special, he has decided to launch this alternate show. The show will be primarily feature northern soul, but given

the way some people see northern soul there will be some crossover and blue-eyed soul in there as well.

It will air once a month on the first Friday of every month at 2200 UTC on **Channel 292** on 3955 and 9670, with 9670 being beamed to the Americas.

BBC World Service

The **Discovery** program continues on **BBC World Service**, and is currently running a short series titled **Tooth and Claw**, heard on Tuesdays, repeated the following Monday.

The program to be aired 8 and 14 March is **Tooth and Claw - Army Ant:**

"The army ant might be small enough to squash under foot but, make no mistake, it's a formidable predator. When they club together in their thousands they are a force to be reckoned with. Picture a tiger, comprised of hundreds of thousands of tiny ant-sized units, prowling through the forest and you start to get the idea. They'll take down anything in their path, from spiders and scorpions to chickens that can't escape them. There are even grisly stories of African army ants attacking people. But this predator has its uses too - they can be used to stitch wounds and offer a house cleaning service too."

The program to be aired 15 and 21 March is **Tooth and Claw - Wolves:**

"We look at wolves and the program is a little different, because the predator we're talking about is very much a predator of our imaginations. Wolves are the spirit of the wilderness, but they also symbolize the darker side of human nature, and many myths and legends surround the wolf from all around the world. Our fear of the wolf may be primeval, but it is still very much

alive and well. The idea that wolves could be reintroduced in Scotland led to headlines about the British Queen's pet corgis being eaten... So today, as well as hearing about the real animals, we ask why wolves occupy this special place in our imagination, and whether the real and the imaginary overlap”.

Discovery airs on Tuesdays at 1832UTC on 7265-mdc, 7445-mdc, 9410-dha, 9915-wof, 11810-asc, and 15400-asc; and on Mondays at 0132UTC on 5980-sla, and 12095-sng.

Previous episodes spotlighted **Spotted Hyena** and **Venomous Snakes**, and all episodes can be found via the BBCWS Discovery website at <https://www.bbc.co.uk/programs/p002w557>.

Comedians vs The News has returned for a third season on **BBCWS**.

“Comedians with the funny take on global headlines. NYC comedy couple Jess Salomon and Eman El-Husseini serve-up the news as you’ve never heard it before.”

You can catch new episodes, until the end of March, on Saturdays at 1132UTC on 6195-sng, 9580-sng and 11945-sng; and Sundays at 1932UTC on 6195-sao, 7265-mdc, 7445-mdc, 9410-dha, 11810-wof and 12095-asc. Previous episodes in this season (and the earlier seasons) can be found at the BBCWS Comedians vs The News website at <https://www.bbc.co.uk/programs/w13xtvb4>.

The Forum continues each week on **BBCWS** with some interesting-sounding subject themes and is aired on Thursdays, and repeated on Fridays.

The program to be aired 10 and 11 March is **Rehabilitating Nero:**

“Nero fiddled while Rome burned, didn’t he? At least, that’s what the history books tell us. Nero’s image as a depraved tyrant has been handed down to us by three biased sources, written after the emperor’s suicide in 68AD. These sources have informed interpretations of Nero’s legacy ever since, so much so that his involvement in the Great Fire of Rome has become a meme. Recent scholarship has sought to rehabilitate Nero to a certain extent, to try to understand him in the context of his time. He was indeed a man who succeeded in shocking the Roman elite, but also someone who could strike a chord with the public and was well-thought-of outside the centre of political intrigue. Rajan Datar attempts to separate fact from fiction.”

The program to be aired 24 and 25 March is **History of Money:**

“From Mesopotamian loan records which are over 4 thousand years old to the cryptocurrencies of today, money has been with us for a long time. But how did we get from exchanging bits of metal or cowrie shells to the algorithmic trading of shares? Why did paper money originate in Song-dynasty China and tradeable government debt in medieval Italy? And what is money anyway? These are some of the questions that Bridget Kendall investigates with the help of financial historians. The content of the program will be partially determined by listener's questions.”

The Forum airs Thursdays at 1006UTC on 6195-sng, 9580-sng, 11945-sng; and Fridays at 0006UTC on 5875-erv, 5980-sla. Previous episodes can be found at the BBCWS The Forum website at <https://www.bbc.co.uk/programs/w3ct1rmp>.

From The Isle of Music/Uncle Bill’s Melting Pot

It was fun whilst it lasted, but both ***From The Isle of Music*** and ***Uncle Bill's Melting Pot*** broadcasts to Europe (and beyond) via Channel 292 in Germany will be discontinued from early March, and FTIOM via SpaceLine in Bulgaria was discontinued in February. The reasons are purely financial as they have been self-funded by Bill Tilford and that position is no longer sustainable. Broadcasts will continue on 7490kHz on WBCQ The Planet, where these programs began: FTIOM on Tuesdays 0000-0100 UTC, and UBMP on Sundays 2300-0000 UTC, and they will also find a home in the new Radio Angela program schedule via WBCQ as noted above.

A big thank you to Bill for providing these programs. They have been truly appreciated by listeners in Europe. Meanwhile, **Channel 292** has provided a ***"Farewell to Europe"*** slot from 0800-2400UTC on 6070 kHz on Tuesday 8 March with back-to-back episodes of both programs.

Cruisin' the Decades

Cruisin' the Decades is a new program being aired on Channel 292, WRMI and WBCQ. I caught an episode for the first time on Channel 292 on 21 February from 2000-2100UT on 6070kHz. Reception was only fair to start with, and deteriorated rapidly so I tuned to the program via the Twente WebSDR which provided excellent reception.

Cruisin' the Decades plays "100 Years of music with one track per decade", and this episode started with *"Dixieland Jazz"* - a track from the 1910's (1917, I think, though I failed to note it down), and then a track from each decade including *"Istanbul not Constantinople"* by The Four Lads in the 1950's; *"Come On Feel The Noise"* by Slade from the 1970s, and ending with *"We Shall Rise"* by Brent Cobb from the 2020's.

The program is presented by Brad Savage, (pictured below), Program Director of **The**



Summit FM in Akron Ohio, from where the program originates.

This was a great program, highly recommended, and I will listen again.

Cruisin' the Decades is scheduled as follows:

WBCQ: Sundays 0200UT on 7490 kHz
WRMI: Sundays 0400UT on 5950 kHz
 Sundays 2200UT on 9955 kHz

Channel 292: The schedule on Channel 292 is still being tested and varies week by week, so you will need to check the Channel 292 website, but for early March try:

Mondays at 2000 on 6070 9670, and 2200 on 3955
 Wednesdays at 1200 on 6070
 Thursday at 1700 on 9670
 Fridays at 1900 on 9670
 Saturdays at 2100 or 2300 on 6070

73's until next month - Alan

International Broadcasting

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<http://www.kimandrewelliott.com>

The First Non-shortwave War?

This is another “by the time you read this” column. A major event is unfolding, and the outcome could be known in days, or weeks, but my deadline is today. You know more about what I’m writing about than I do.

Russian President Vladimir Putin has recognized, and moved “peacekeeping” forces into, the self-proclaimed people’s republics of Donetsk and Luhansk. If this evolves into a full-blown war, it won’t be a shortwave radio war. Russia and Ukraine no longer do shortwave broadcasting, international or domestic (well, sometimes DRM in Russia). We can’t tune in via shortwave as we did for Czechoslovakia 1968, Tiananmen 1989, Lithuania 1990, and Israel (Scuds) 1991, to name a few crises. Maybe some ad hoc or clandestine shortwave stations will pop up.

Utility shortwave DXers have more to listen to. All sorts of strange signals are proliferating, most undecodable. The skilled utility DXers have an idea of which signals belong to which militaries and which intelligence agencies. Occasionally, a type of broadcasting can be heard and seen in the 40-meter amateur radio band, with music, voice commentary, and images (some NSFW) painted on the waterfalls of SDRs. And of course there is UVB-76, “The Buzzer,” on 4625 kHz, as well as occasional hostile counter-signals with music and waterfall art, co-channel. Tune in to these signals via

websdr.ewi.utwente.nl:8901 in the Netherlands and other European SDRs.

News from Ukraine and Russia, but not on shortwave

There is, online, Radio Ukraine International (bit.ly/3tlyi4H) with hour-long English broadcasts starting at 21, 23, 02 and 13 UTC.

On the Russian side, we know about RT (rt.com) and Sputnik (sputniknews.com). It’s interesting to note that Russian domestic television news was peddling utterly false accounts of alleged Ukrainian aggression, to provide Gleiwitzian excuses for Russian military action. RT, on the other hand, has used the more tentative language of Western news media (“Moscow has published video evidence of what it says was an incursion by Ukrainian troops into Russian territory” – bit.ly/3h8Eebc).

As for Sputnik, descendant of Radio Moscow and Voice of Russia, we can hear the US version of Sputnik in the Washington DC area on 1390 kHz and 105.5 MHz. During our morning drive, there is a US-oriented show from studios in Washington. It consists of interviews and discussion, sounding unlike the old Radio Moscow, but still is stultifyingly boring, as much so as the old Radio Moscow. The mission of Sputnik is to discredit Joe Biden – and, as often as possible, Hillary Clinton. They want Donald

Trump, or someone Trumpian, elected in 2024.

“Russia would begin by cutting Ukraine’s internet connections”

While Russia-Ukraine probably won’t be a shortwave war, it will definitely be an internet war. Western international broadcasters are depending on the internet to get their news and information into Ukraine and Russian and neighboring countries. The key player would seem to be currenttime.tv, an RFE/RL project with VOA participation. Although, when I had access to Comscore data in Russia, BBC Russian and Meduza (Russian exile journalists in Latvia) were more popular. I would sure love to see recent, honest data on the comparative popularity of Western efforts to provide uncensored news into Russia.

But what will happen if this turns into an actual war? According to David Sanger in the New York Times: “the more granular assessments suggest Russia would begin by cutting Ukraine’s internet connections to the outside world, jamming cell and computer networks and frying the communications among Ukrainian military units” (nyti.ms/3HiTbCi).

So if, in this next major conflict, how will the news get in if the internet is indisposed? We might, reluctantly, hesitatingly, have to revert to the old, outmoded, unfashionable, depreciated, yucky medium of radio.

It is encouraging that RFE/RL was heard testing on 3975 kHz, presumably from the USAGM (originally RFE and RL) relay stations at Biblis and Lampertheim, Germany. (Amazing that they still exist.) The USAGM sites in Kuwait and even (certain times of the day) North Carolina and Thailand can also reach Russia,

Ukraine and vicinity. BBC World Service has Woofferton and Oman to reach the same area.

The crackpot transmitted Ukrainian text via shortwave

And – you’ve seen me write about this before – text and images can now be transmitted by old shortwave transmitters. It’s like the internet, but without the internet. On my Shortwave Radiogram program (swradiogram.net), I transmitted some VOA Ukrainian text on shortwave during the weekend of February 4-6. Via an SDR in Ukraine, it was received and decoded 100% from WRMI in Florida. I sent emails to to VOA about this. To RFE/RL. To BBC. I did handstands and cartwheels to draw attention to this capability of shortwave and other wavebands to send text and images when the internet is not available. I received polite, non-committal replies, or no replies at all. I guess it’s now official in the

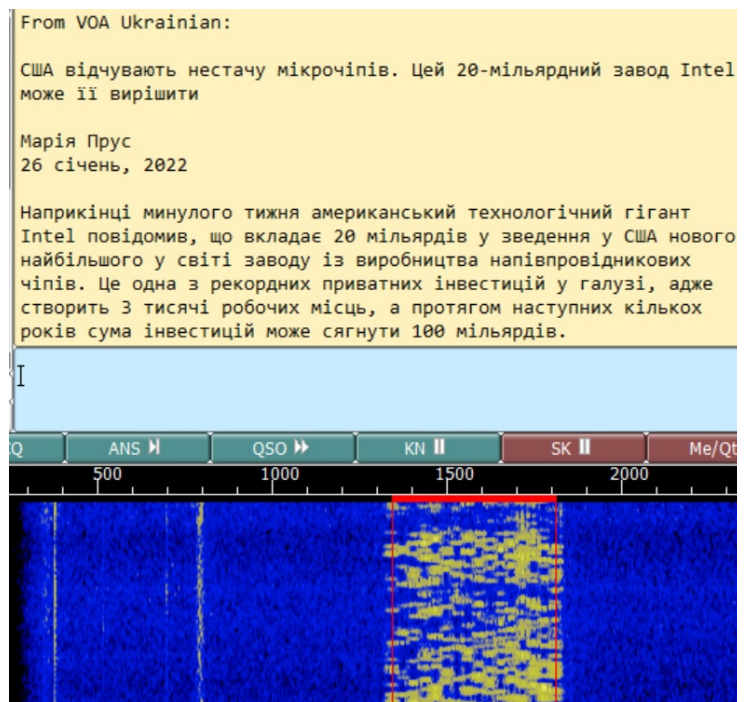


Image: VOA Ukrainian text (MFSK32), February 4, 2022, during the 1330-1400 UTC Shortwave Radiogram transmission on 15770 kHz from WRMI Florida, received via SDR in Ukraine, decoded using the Fldigi software.

international broadcasting business: I am a crackpot.

Of course, there would not be an audience of millions in Ukraine and Russia to receive and decode text via shortwave. Shortwave radios are no longer plentiful there. And the decoding software, although free, is clunky and designed mainly for radio amateurs. But the idea is that a few thousand enthusiasts would receive and decode the content, then pass it to the larger audiences in their countries by what would become their

national intranet, or via text messaging, or print-on-paper, or "entre nous."

"By the time you read this" we may know the extent to which the internet is still useful in providing news and information into the Ukraine and Russia. And if radio is being used as a workaround. And if radio is determined to be too expensive or too outmoded, the result will be Putin's complete control of the information space.

See Kim's projects: <https://twitter.com/kaedotcom> and <http://swradiogram.net>

Shortwave Center

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We commence this month – which I fervently hope brings some warmer weather after a long, cold winter in the Northeast – with a rather hot but underpublicized issue over the use or misuse of FCC shortwave international

broadcasting authorizations. After some heavy reading, we offer some lighter looks at some shortwave receivers of the recent and the past. Enjoy!

SHORTWAVE ISSUES

High-Frequency Trading (HFT) Transmissions, and Three Prospective Stations Seeking Entry into the International Broadcast Service

Article from Experimental Radio News, <https://www.experimentalradio.news> and reproduced here with permission of the author, Bennett Z. Kobb.

This issue concerns High-Frequency Trading (HFT) transmissions, and three prospective stations seeking entry into the International Broadcast service.

automated trading to foreign exchanges in the shortwave or high-frequency (HF, 3-30 MHz) spectrum.

Several stations licensed in the Experimental Radio Service (ERS) transmit data for

High-Frequency Trading (HFT) is a form of automated trading that employs low-latency, high-speed telecommunications to

minimize response times. The term is not related to the shortwave or HF spectrum, but this article concerns transmission of HFT messages on HF frequencies.

HF signals can traverse great distances by refraction from ionized layers of the atmosphere, a phenomenon known as [ionospheric propagation](#). Several ERS HFT stations have operated in the HF bands for years out of the public view. Bob Van Valzah [blogged](#) extensively about these stations starting in 2018.

These ERS stations' licenses are public records, but the licensees typically ask the FCC to withhold access to station details and experimental plans. The Commission's routine acceptance of these confidentiality requests makes public oversight difficult.

High Frequency Broadcasting

Two HFT-related ventures, Parable and DPA Mac, have applied for licenses under Part 73F of the FCC rules for the International Broadcast service, also known as High Frequency Broadcasting (HFBC) — not the Experimental Radio Service where HFT stations now operate, ostensibly for research purposes.

A third applicant, Turms Tech, seems to be connected with HFT, but has avoided the topic in its interactions with the FCC.

The potential introduction of HFT in HF broadcasting involves policy questions the FCC has never faced in the more than half-century since the rules for this service were established. The Commission's decisions could radically change the international broadcasting service, by permitting private, non-broadcast use.

HFBC today

[Today's HFBC stations](#) are owned by religious groups, or are commercial and supported mainly by airtime sales to evangelists. A prominent example is [WBCQ](#) in Maine, a commercial station with its largest facility leased to flat-Earth believers [World's Last Chance](#).

WBCQ's massive rotatable antenna is one of a very few in the world, enabling effective radiated power of 20 million W from a 500 kW transmitter. The reported \$30 million facility was funded by Galal Doss, an Egyptian religionist [formerly on the board](#) of [A.T. Cross Co.](#), makers of luxury pens.

Foreign persons are not eligible to hold FCC licenses. WBCQ is licensed to Allan Weiner, an American citizen.

In contrast to the existing HFBC licensees, none of the three new applicants have any obvious connections to churches, journalism or even broadcasting, though they say they intend to broadcast Christian content or business news. Their core mission appears to be HFT, that is, providing low-latency wireless data links to trading operations, with broadcasting as a pretext.

International data links for private clients is not broadcasting — transmissions intended for direct reception by the general public (FCC [§73.701\(a\)](#)) — regardless of whether the content is analog or digital. Licenses issued to HFBC stations authorize broadcasting only. While FCC Rule [§73.758](#) permits HFBC datacasting, it is only in the context of broadcasting to the public. No other service is authorized.

At the time of this writing, the FCC has made no public statement on shortwave transmission of HFT data.

ERS: A temporary home

No existing radio service or international shortwave frequencies are allocated for HFT. Because the Experimental Radio Service offers limited access to spectrum on a non-interference basis, it is the only current home for HFT operations. But it is a temporary home.

ERS is intended for research projects and not permanent business use. The HFBC service would appear to be the only alternative for commercial shortwave links, if the FCC can be persuaded to allow such usage.

Digital Radio Mondiale (DRM)

All three applicants have proposed to use, not the AM typically used on shortwave, but the [Digital Radio Mondiale](#) modulation technique. Under suitable conditions, DRM offers better audio quality than AM.

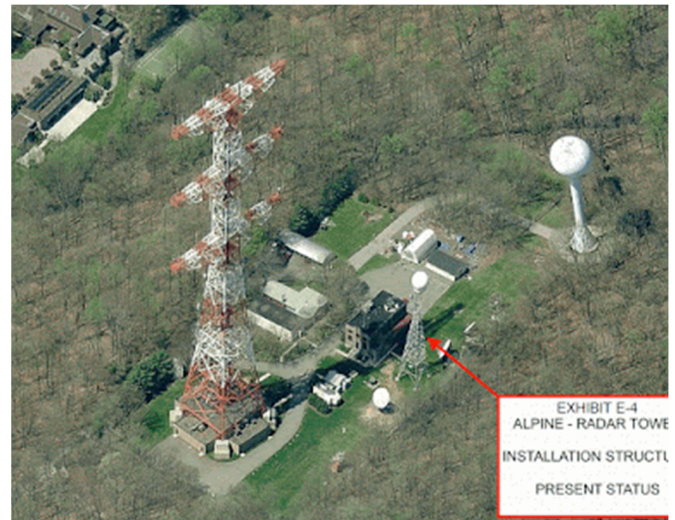
It is unlikely that the applicants chose DRM for its sound. They are probably more interested in another feature: DRM has a data channel which could be used for HFT.

Turms Tech's WIPE Radio

One of the three applicants is [Paolo Cugnasca](#) of Turms Tech, part of Turms Holdings, a subsidiary of Emcor Securities of New York.

A forestry entrepreneur, Cugnasca holds [patents](#) on sap-flavored water. His [Vertical Water](#) is a purported leader in the “emerging” tree-water category.

Turms requested callsign WIPE. It is so listed with the FCC. Although [constructed with FCC permission](#), at this writing Turms has no license to operate this station. Its antenna is on a structure adjacent to the historic [Armstrong Tower](#), also known as the Alpine Tower, in New Jersey.



Alpine Tower NJ

Turms told the FCC that it will engage in “broadcast and data services” and “broadcast of financial, economic news and data through distribution of programs generally prepared on the basis of requests by clients.”

Turms has not clearly disclaimed any HFT role. So to clarify the issues, the FCC asked Turms questions on two occasions. Turms' contract engineer first answered the FCC in this document:

WIPE Q&A

Q: Clarification is requested regarding the audio and data content of the general service to be provided, if known?

A: Airtime will be sold to anyone interested in broadcasting his contents. Editorial line will focus on contemporary topics, no religious or political contents. More specifically the target we're looking for is global news and financial information, CNBC style programs.

Q: Will encryption be used in the transmitted signal?

A: No encryption will be used, this is a general broadcast.

Q. Will there be a contract for reception of the signal required?

A. No contract will be required for the reception.

Q. Will a DRM receiver be required for either or both the audio or the data?

A. A DRM receiver will be required for both audio and data.

Q. Will the proposed transmitter site receive other international HF signals to be rebroadcast on the intended operation?

A. No.

The FCC's question about contract is especially pertinent, as the FCC considers broadcasting to require no contract between transmitting and receiving parties. A private data operation would involve such a contract, for some kind of subscription or other fee for service.

On December 23, 2021, radio engineer Alex Pilosov submitted a detailed objection — his second — to the Turms application.

Pilosov wrote that “the directors and officers of TURMS do not claim any broadcasting experience, but certainly have substantial business experience, and are aware of the business of trading and data transmission.

“What TURMS claims,” he told the FCC, “is that a company without any experience in broadcasting decides to construct the first International Broadcast station in 20 years dedicated to ‘financial news’ programming, and ‘data broadcast to the general public,’ foregoing any subscription revenues, but somehow able to recoup the setup costs by broadcast operations alone.

“The second possibility, apparent from digging into the facts and associated entities, is that TURMS instead lacked candor in its filings, and that its application for ‘International Broadcast’ is merely a pretext for private data transmission business.”

If and when WIPE goes on the air — on 9.65, 11.850, 13.720 and 15.450 MHz — monitoring by the shortwave listening community should help establish the facts about any possible encrypted or otherwise nonpublic, non-broadcast emissions from this station.

In a second round of FCC inquiries, Turms essentially repeated its answers from the first FCC meeting without directly addressing any possible plans for private data transmissions.

The company said it has “no relations” with an experimental shortwave station at the same location. That is [WK2XJK](#), licensed to Rockland Wireless LLC of Chicago. Its principal is Bob Irvine of technology patent firm [Invention Mine](#).

Parable Broadcasting

Another prospective HFBC licensee is Parable Broadcasting Co. LLC of Norfolk, VA, which would build what it called an “unmanned” and “rarely visited” station in Batavia, IL.

Parable's principal is electronic navigation maven [Charles Schue](#). His site consultant [Derek McGrew](#) signed several of Parable's [local government filings](#).

As with the other applicants, Parable proposed to use DRM. Eton, Tecsun, Kaito, Sangean and C.Crane, virtually the only remaining consumer shortwave receiver brands, have never made DRM receivers. Another manufacturer, Gospell, is “[waiting for substantial orders](#)” for its DRM product.

Yet in a meeting on January 5, 2022, Parable told the FCC that DRM receivers are “off-the-shelf and commercially available at major retailers serving consumers.”

Indecipherable content

Will Parable's transmissions be broadcasts to the public? “With respect to datacast content,” the company told the FCC, “Parable explained that it will also broadcast data content provided by third parties. ...

“A datacast content provider could deliver content that is encoded at times, i.e., it would be broadcast alongside the audio content, which is receivable by a standard DRM-compatible receiver, but the meaning of the content may be indecipherable to parties other than the content provider.” (Emphasis added.)

A critical question is whether the FCC will believe that indecipherable content is a broadcast to the general public.

DPA Mac

DPA Mac of San Francisco is a venture of software executive and former Venrock entrepreneur-in-residence [Seth Kenvin](#).

DPA Mac proposes to continue the operations of experimental station WI2XXG but going forward as a HFBC station broadcasting “business information.”

Why migrate from ERS to international broadcasting? The FCC now prohibits WI2XXG from engaging in stock trading, provision of services or “widely divergent and unrelated experiments” as a result of conditions the FCC placed on its [license](#).

While DPA Mac did not mention HFT per se, in a December 3, 2021 FCC meeting it said, “Within and immediately adjacent to the

DRM emissions envelope will be a supplemental, fee-for-service datacast optimized for low-latency transmissions.

“This supplemental datacast will be encoded and employ a proprietary modulation. DPA Mac intends to use revenue from the supplemental datacast to help offset some of the expense of constructing and operating the DRM broadcast station.

“DPA Mac will use purpose-built equipment to transmit, receive, encode, and decode the supplemental datacast for the benefit of fee-for-service customers.”

(8) Operation is subject to prior coordination with AFTRCC Frequency Advisory Committee, www.aftrcc.org

(9) Non-approved equipment must be labeled.

(10) Non-approved equipment must be retrieved.

(11) This operation is not permitted for stock trading.

(12) This operation is for experimental purposes only, provision of services is not permitted. Widely divergent and unrelated experiments must not be conducted under this license.

No FCC rules permit supplemental, encoded transmissions by HFBC stations to private fee-for-service customers.

Reduced power level

FCC rule §[73.751](#) permits a minimum power of 10 kW for DRM, obviously reducing costs compared to AM HFBC which requires at least 50 kW.

DPA Mac requested a waiver even of the lower 10 kW power level: “Technological advances have rendered a minimum power requirement obsolete, and DPA Mac’s technological showing demonstrates that it can successfully operate at a much lower power of 2 kW,” the company told the FCC.

Additional stations licensed

Meanwhile, the FCC Office of Engineering and Technology continues to license experimental shortwave stations. Recent examples include two in Illinois, home of [CME Group](#) (Chicago Mercantile Exchange).

These include [WM2XHW](#), licensed to FalconION, Inc., which seeks to “develop new radio technique for reliably delivering short digital messages over long distances,” and [WH2XWU](#), licensed to County Information Services LLC (CIS).

This company told the FCC that “The business of wireless data transmission remains extremely competitive and a successful experiment would provide a significant benefit to CIS.”

Few other details are available, as these stations' narratives are withheld from public disclosure.

More to come

I expect resolution of the issues, or perhaps a Notice of Inquiry or Notice of Proposed Rulemaking from the FCC sometime this year.

Perhaps the FCC will interpret, waive or simply ignore its existing rules to permit non-broadcasting, clearing the way for these HFT applicants; or refresh the HFBC rules to accommodate such stations, or propose a new radio service and allocate spectrum for private international data links.

The recent FCC discussions cited above suggest that HF broadcasting has now engaged policy officials, and is no longer the obscure, technical “shortwave radio” backwater of yesteryear.

SHORTWAVE RECEIVER REVIEW

Two Worthy and Affordable SW Portables

A choice between CCrane and Sangean! Why not both?

By James Careless

Radio World - January 28, 2022

The challenges of precision-tuning analog radios, plus the reliance of international shortwave broadcasters on switching between multiple frequencies and bands to reach global audiences 24/7, explains why direct-entry pushbutton digital radios came into this hobby almost 40 years ago.

The flag-bearer for SW radios that were as easy to use as a pushbutton telephone was the iconic (and still respected) Sony ICF-2001/ICF 2010. Released to the world in the mid-1980s, the ICF 2001D/2010D even had an LCD display!



The CC Skywave from CCrane

Today, digital radios with direct pushbutton entry are commonplace in the portable SW portable receiver market.

I recently tested two such portables, the pocket-sized CCrane CC Skywave SSB and the new tablet-sized Sangean ATS-909X2.

In addition to offering pushbutton tuning and automatic frequency scanning, both come with manual tuning dials, back-lit LCD displays, the ability to tune to the full SW bands (1.711–29.999 MHz) plus AM, FM (stereo in headsets) and the AIR (aeronautical 118–137 MHz) band. The ATS909X2 can also tune to longwave.

They also offer a range of bandwidth filters to improve audio clarity on SW, the ability to preset station memories, and built-in SSB (single sideband tuners) for tuning in amateur radio transmissions heard within the SW bands.

As well, both portables come with long extendable whip antennas and windup external wire antennas for pulling in weaker and rarer SW stations, along with signal strength meters, stereo earbuds and even radio cases.



The Sangean ATS-909X2

How to choose

So how can one pick between them?

Well, a diehard SW hobbyist would solve this problem by simply owning both, because the CC Skywave SSB and ATS909X2 are fine additions to any radio listening shack.

But for those only planning to buy one SW portable, here are some differences that may guide your decision.

At \$169.99, the CCrane CC Skywave SSB is the less expensive of these two SW radios. It is also smaller, measuring just 4.8 inches wide by 3 **inches high and 1 inch deep**.

Although the CC Skywave SSB is the size of a vintage AM transistor, the similarities stop there. With a full range of features including 400 memory presets — so you can prestore your favorite SW stations and recall them easily afterwards — the CC Skywave SSB is the ultimate pocket radio.

This SW radio is also great for long-time listening with great selectivity (choosing between stations) and sensitivity, both of which are aided by the CC Skywave SSB's range of audio filters.

As well, the CC Skywave SSB is a great performer on the AM band — especially at night — and delivers excellent stereo audio on FM when you use earbuds/headsets. CCrane is proud of the fact that this radio can run up to 70 hours on earbuds/60 hours on its built-in speaker using pair of AA Alkaline batteries.

At \$265 on Amazon, the Sangean ATS-909X2 costs considerably more than the CCrane CC Skywave SSB, but there are good reasons for this price difference.

For example, the ATS-909X2 comes with a much larger LCD screen that is also in color, and capable of displaying all kinds of information including RDS station data on FM. It also has 1,674 station presets, with the ability to program in station names for each that appear on the radio's display.

The ATS-909X2's rotary-style tuning dial (in addition to its direct-entry keypad) is front-mounted, as opposed to the CC Skywave SSB's side-mounted (and smaller) tuning dial. This provides an analog-style experience for those SW fans like myself who still enjoy tuning across the bands manually to see what happens to pop up.

Meanwhile, the ATS-909X2's built-in speaker is twice the size of the CC Skywave SSB's 1-inch unit, which delivers fuller, more listenable sound.

This unit's FM headset audio is also better. To be precise, listening to FM stereo on the CC Skywave SSB is excellent, but the ATS-909X2's FM stereo audio has extra depth and definition, rivalling that of a standalone Hi-Fi amplifier.

One feature that I particularly love in this radio is its pair of clocks, one for local time

and one for Universal Coordinated Time (UTC, a.k.a. Greenwich Mean Time), which is the time zone in which SW stations list their broadcast/frequency schedules.

This spares me the mental gymnastics of converting 12- to 24-hour time and then adding four or five hours to that number, depending on the season in eastern North America, to get the right time for UTC.

These are just some of the many features found on the Sangean ATS-909X2, which is truly an astounding SW portable radio. But this fact does not take away from the superbness of the CC Skywave SSB, whose price is less than 40% of the ATS-909X2's.

These radios are aimed at different parts of the SW portable market. The CC Crane CC Skywave SSB is a solid all-round performer in a go-anywhere package slightly bigger than a pack of playing cards, while the Sangean ATS-909X2 is a technophile's dream in a larger but still streamlined piece of practical yet beautiful radio engineering. This is why this reporter cannot choose between the two of them — and fortunately does not have to.

Info: ccrane.com and sangean.com.

SHORTWAVE RETRO REVIEW

Hammarlund HQ-140-XA

By Craig Seager

(Australian DX News)

If you want to have a serious discussion about U.S. manufactured boat anchors, then look no further than several models produced by the Hammarlund Manufacturing Company, which was founded in 1910 by

Oscar Hammarlund, who had previously been a designer for the L.M. Ericsson Company in Stockholm. And yes, it is the same Ericsson that was to become a multinational giant in communications systems, including mobile phone technology.

Hammarlund was by no means a young man when he set up his manufacturing plant in New York, but early successes included some

pioneering development of variable capacitors, which were to become more or less industry standard globally, ahead of large-scale production of RF equipment for the U.S. military during World War II. You can read a comprehensive history of Hammarlund at <https://www.retrocom.com/wtcollect/hammarlund.htm>

The first serious foray into the amateur market was the HQ129, an 11-tube single conversion design, released in 1946. Essentially it was based on the HQ-120 (pictured), which pre-dated it by eight years, but had a high price ticket and hence had mostly found its way into military and civil applications. Other notable Hammarlund general coverage sets included the SP ("Super Pro") series, 200, 400 and ultimately the acclaimed and substantial SP-600, which according to Osterman, appeared in a multiplicity of variants right up to 1972.

So, with so many models from this manufacturer to choose from, why write about the HQ-140-XA specifically? The answer is simple! I have one, courtesy of a "moment of madness" purchase from the Wyong Field Day some years ago. The "madness" part was not that I chose this radio, but that I yet needed another beefy boat anchor as much as a hole in the head. No room at the inn, then as now!

Like some of its predecessors (and successors), the HQ0140-XA was an 11-valve single conversion set, covering 540-31000 kHz across several ranges; .43-1.32, 3.2-5.7, 5.7-10, 10-18 and 18-31 MHz. It is almost identical to the HQ-140-X, except for some design aesthetics, including a square S-meter. Bandsread tuning is only offered for the (then) amateur bands; 80, 40, 20, 15 and 10 metres given that we are talking well pre-WARC.



Other features include a silky-smooth flywheel tuning mechanism RF gain control, BFO and antenna trimmer. Like most of these Hammarlund sets, a speaker is not supplied as standard, and needs to be sourced and connected to the relevant terminals.

Tuning is achieved by adjusting the main tuning dial, and bandsread is inoperable on the first two ranges. An optional 100 kHz crystal calibrator (XC-100) was also available as a frequency reference. There are no less than 5 selectivity positions, and a superb (patented) Crystal filter at 445 kHz is employed, which has an excellent shape factor. A Crystal Phasing control is also provided as a tool to **minimise adjacent channel QRM.**

Sensitivity is very good across all bands, though I note a slight drop-off at the top end. An AVC can be switched in or set to manual.

The HQ-140-XA was only manufactured for a short period (approximately one year, commencing 1956), but is a quality addition to any shack if you can find one. Later, improved models from Hammarlund include the HQ-145, HQ-150, and up to the HQ-180A. Semiconductors were introduced with the HQ-200, and the HQ-215 (1968) was fully solid state.

Certainly less common in Australia than they were in the U.S, but the HQ-140-XA and its stablemates have a quality build, and are

well regarded in terms of overall performance and sound. At 21.3kg, take a deep breath before you lift one! (CS)

The Robinson Report

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How VOA's Communications World Started

[NOTE: This is being published simultaneously with SWLing Post]

Voice of America recently observed its 80th birthday. Readers may recall that in the mid-1980s into the 2000s, VOA broadcast a magazine program about communications, but which was designed specifically for shortwave listeners.

Communications World as it was known owed its existence to my efforts in the late 1970's into the early 1980's to persuade VOA managers to put such a program on the air and the story is told in detail here for the first time.

In a SWL career that began in the late 1960's, I was an enthusiastic consumer of DX programs broadcast by stations at the time, from Radio Netherlands to HCJB and others.

I always wondered why VOA wasn't among them and was determined to make some progress on this.

First steps came in 1975 as I was attending The American University and began making contacts at VOA in downtown Washington, DC. This would become a multi-year effort to induce VOA to re-start a DX'ing program. I say "re-start" because I would later learn that VOA once had such a program, but aimed at radio amateurs.

These early efforts included at one point a meeting with the head of a major think tank on K Street in Washington. I can only imagine their reaction when two college age kids (I was accompanied by ace DX'er Taylor "Pitt" McNeil) arrived seeking help in selling a federal agency on a hobbyist show.

I never learned whether anything came from that meeting. In my final two college years, I interned with ABC News, where I observed network operations, including the evening news with Frank Reynolds, and also interned with local station WASH-FM.

By 1979, my contacts at VOA had led me to part-time work in its English to Africa, Worldwide English, and central news divisions. In 1980, I was formally sworn in as a full-time VOA news writer. My objective was to become a foreign correspondent, which I would achieve in 1983. But putting VOA back on the board, so to speak, with a SWL program remained high on my priority list.

A pilot for the show needed to be produced. It needed a name. What came to mind was something containing the word communications, to have wider appeal. So, there it was: VOA Communications Magazine.

My time in VOA's central news operation included work on all three shifts over 24

hours. On the side, I set about putting together a script for VOA Communications Magazine – conceptualizing what elements would go into it. By 1983 – just before I departed for Nairobi as VOA's new East Africa correspondent – we were ready to record the pilot.

The show began by recognizing World Communications Year, and a message noting that we would cover SW hobby news, international broadcasting developments, satellites and computers, news about receivers and antennas, along with letters from listeners.

WRNO New Orleans had gone on the air on shortwave. I thought that would make an interesting segment. Shortwave broadcasting had not yet started its downward slide. Stations remained on the air in Africa, Latin America, and Asia. Transmitter manufacturers still had customers. New stations were coming on air.

I served as host of the Communications Magazine pilot. Bob Arnold, who was doing science reporting for VOA at the time, voiced a roundup of broadcasting news. Included were some of my personal recordings, including Voice of Kenya and Radio Mozambique.

In the news, Kenya was reported planning international broadcasting (we now know this never happened). Ghana was expanding domestic radio. The U.S. was helping Liberia expand rural radio. We noted ELBC and ELWA, and played a recording of ELWA.

Iran was installing what were expected to be the world's most powerful transmitters. There was news from Singapore, and a recording of Radio Singapore. Malaysia planned two 500 kw transmitters. I noted existing domestic Malaysian stations, and

included a recording of Radio Malaysia Sarawak.

Arnold reported on the explosion of the production, distribution and storage of information, including an interview with Wilson Dizard, then with Georgetown University.

Dipping into the mailbag I read letters and reception reports from VOA listeners in Denmark, Sweden (one of whom used a Grundig 3400 receiver), Australia (who used a Panasonic RF-2800), and Japan (who used a Kenwood R-1000).

My interview with Joseph Costello of WRNO concluded the pilot, and began with a recording I had made of a WRNO test transmission. Costello pointed to “a couple of thousand pieces of mail per month,” and surprising response from New Zealand and Australia, though WRNO's signal was beamed northward.

Private shortwave stations were granted to reflect the culture and lifestyle of the United States, Costello said. By partially simulcasting WRNO-FM, listeners heard about life in New Orleans, with coverage of the Jazz and Heritage Festival, and progress reports on Mardi Gras. WRNO was considering a morning Spanish service beamed to central and south America.

Doug Flodin of Drake-Chenault discussed the purpose of KYOI. And we reported on other shortwave broadcasters preparing to go to air, including Radio Miami International, and KNLS from Alaska.

Based on my pilot for VOA Communications Magazine, VOA green lighted what would become Communications World, hosted first by Gene Reich, who later would join Worldspace, the satellite radio pioneer that

filed for bankruptcy in 2008, later by Kim Elliott.

This is the first time I have told the in depth story of how Communications World came into being, which likely would never have

existed had it not been for my efforts to bring this kind of program to Voice of America. The full 1983 pilot is available on the Internet Archive at: <https://archive.org/details/original-1983-pilot-voa-communications-world>

Listener's Notebook

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Times are UTC and frequencies in kHz.

ABKHAZIA Abkhaz Radio/Apsua Radio in Russian via Sukhumi, February 24:
from 0530 on 9534.8vSUK 005 kW Russian (DX Mix-Bulgaria)

Reception of Abkhaz Radio/Apsua Radio in Abkhazian via Sukhumi, February 1:
from 1230 on 9534.8vSUK 005 kW Abkhazian (DX Mix-Bulgaria)

Abkhaz Radio/Apsua Radio in Abkhazian via Sukhumi on February 5:
from 0543 on 9534.8vSUK 005 kW Abkhazian (DX Mix-Bulgaria)

Abkhaz Radio / Apsua Radio in Abkhazian via Sukhumi on February 8:
till 1300 on 9534.8vSUK 005 kW Abkhazian & off (DX Mix-Bulgaria)

ALASKA Reception of WCB KNLS The New Life Station in English via Anchor Point, February 1:
0800-0900 on 6075 English tx#2. B-21 schedule 0800 on 6075; 1000 on 9680; 1200 on 9580 & 9625; 1400 on 9580; 0300 on 13760 (DX Mix-Bulgaria)

Reception of WCB KNLS The New Life Station in Russian via Anchor Point, February 1:
0900-1000 on 9540 Russian tx#2. At 0911 B-21 freq/time ann.: 0900 on 9540; 1100 on

9570 & 1500 on 9465, instead of new 9550! (DX Mix-Bulgaria)

KNLS International (Rlg)
Chinese 1300-1400 daily on 9760nls (ex 9535)
1500-1600 daily on 9730nls (ex 9570)
Russian 1500-1600 daily on 9550nls (ex 9465) (WRTH Update)

ARMENIA Trans World Radio TWR India in English via CJSC Yerevan on February 7:
1440-1510 on 9965 English Mon-Fri (DX Mix-Bulgaria)

TWR India / FEBA Pakistan in Urdu via CJSC Yerevan on February 2:
1510-1540 on 9965 Urdu Daily (DX Mix-Bulgaria)

Trans World Radio India in Mundari via CJSC Yerevan on February 7:
1315-1330 on 12075 Mundari Mon/Tue (DX Mix-Bulgaria)

Trans World Radio India in Hindi via CJSC Yerevan on February 7:
1425-1440 on 9965 Hindi Mon-Fri (DX Mix-Bulgaria)

AUSTRALIA Reception of Reach Beyond Australia in Japanese via Kununurra on February 20:
1055-1100 on 11905 Reach Beyond Australia Interval Signal & English ann

1100-1130 on 11905 Japanese Sat/Sun (DX Mix-Bulgaria)

Reception of Reach Beyond Australia in Burmese via Kununurra, February 15:
1430-1500 on 11825 Burmese Daily (DX Mix-Bulgaria)

Reception of Reach Beyond Australia in English via Kununurra, February 18:
0915-0930 on 9860 English Mon/Fri (DX Mix-Bulgaria)

Reception of Reach Beyond Australia in Rohingya via Kununurra, February 18:
1125-1140 on 11865 Rohingya Daily (DX Mix-Bulgaria)

2368.43, Feb 3, 0935, Radio Symban - Checking 2368.43 for traces of a carrier from 0935+, but nothing at all heard. (Ron Howard-CA/Shortwave Bulletin) One interesting station, R Symban, seems to be back in the 120 m band. The station seems to use low power and unfortunately only heard in Australia and via KiwiSDR's in the neighborhood. (Shortwave Bulletin) 2368.5, Symban Radio. Rather weak signal with Greek music programming 0910 tonight 2/2 while listening on the road in the Yass Valley, near Canberra. Heavy local storm QRN didn't help. (Francis-Australia) Fair 1337, GK mx, unheralded return to SW, 2/2. (Seager-Australia) very poor 0800 to 0830, only 5 miles from Hurlstone Park 3/2. (Wright-Australia/Australian DX News)

5055, Feb 3, -0954*, Radio 4KZ, cut off at 0954:25*; recently consistent with five seconds earlier cut off time every day. Feb 4 - Significant anomaly - Not heard at their usual time (checked 0941), but later on the air at a time normal off (checked 1018+ and still on at last check at 1255); usual format. (Ron Howard-CA/Shortwave Bulletin) 5055, Feb 11, -0954*, Radio 4KZ, running hours past their former cut off time (0954:25* on Feb 3); heard 0937, till past 1225; pop songs

Is this their usual seasonal schedule change? (Ron Howard-CA/Shortwave Bulletin)

11905, Reach Beyond Australia : E-QSL in 7days for report sent to: hcjbjapan.office@gmail.com. (Nozomi Matsunaga-Japan/Japan Shortwave Club)

AUSTRIA Very good signal of Oesterreichischer Rundfunk-1 in German via Moosbrunn, February 12:
0600-0710 on 6155 German Sat/Sun
0600-0720 Mon-Fri (DX Mix-Bulgaria)

7300, Adventist World Radio via Moosbrunn in Punjabi lang. prog. Logged this station and submitted reception report to: jubilant@awr.org f/d eQSL arrived after 3 days. (Babul Gupta-India/Asian DX Review)

BRAZIL 9290, R. Araucária (Free), from somewhere of Paraná; 12/02, 1259 - 1305 60's Brazilian pop/rock music selections. Good. (Lúcio Bobrowiec-Brazil/The Mosquito Coast)

9819.1, Feb 18, 2215, Radio 9 de Julho, São Paulo SP. Natl. nx magazine A Voz do Brasil. Adj. QRM de CHN on 9820. 23441 (Carlos Gonçalves -Portugal/Shortwave Bulletin)

11895.1, Feb 11, 2147, Radio Boa Vontade, Pt.º Alegre RS. Empty carrier. 15431. (Carlos Gonçalves -Portugal/Shortwave Bulletin)

BULGARIA Canceled transmissions of BBC via SPL Sofia:

1500-1600 on 9910 Pashto
1600-1630 on 9910 Dari
1630-1700 on 9910 Pashto Mon-Fri
1630-1700 on 9910 Dari Sat/Sun
1700-1800 on 7550 Dari
1800-1900 on 7550 Pashto (WRTH Update)

New frequencies of Media Broadcast MBR via SPL Sofia are registered on February 9:

0700-1400 on 15285 Multi Unknown broadcaster, BUT NO SIGNAL on February 9/10
1400-1700 on 9480 Multi Unknown broadcaster, BUT NO SIGNAL on February 9/10 (DX Mix-Bulgaria)

CHILE 7610, R. RCW, San Francisco; 14/02, 0057 – 0102 covering football soccer match Universidad Catolica x Universidad Espanhola. Fair/ (Lúcio Bobrowiec-Brazil/The Mosquito Coast)

CHINA 6035, Feb 3, 1156, Yunnan Radio International. Heard with nice classical (western) orchestra music (unusual to hear this type of music via a Chinese station, but must be living up to their "International" name); clear multi-language IDs (English: "Yunnan Radio International"); one of their better days. (Ron Howard-CA/Shortwave Bulletin)

15125, CGTN Radio (Beijing) at 0015 in English; interview about China and Russia. Fair, Feb. 12. (Harold Sellers-BC/DXplorer)

CLANDESTINE Frequency changes of JSR Shiokaze/Sea Breeze from January 27:
1300-1400 NF 5930 YAM various languages, ex 6085
1300-1400 NF 7335 YAM various languages, ex 7250
1300-1330 Japanese Mon/Tue/Sat/Sun; Korean Thu/Fri and English Wed;
1330-1400 Korean Thu-Sun; Japanese Mon/Tue and English Wed.
1600-1700 NF 6135 YAM various languages, ex 6020
1600-1700 NF 7285 YAM various languages, ex 7340
1600-1630 Japanese Mon/Tue/Sat/Sun; Korean Thu/Fri and English Wed;
1630-1700 Korean Thu-Sun; Japanese Mon/Tue and English Wed.
And frequency changes of Furusato no Kaze via Shiokaze from January 27:

1405-1435 NF 6095 YAM Daily Japanese, ex 6070
1405-1435 NF 7280 YAM Daily Japanese, ex 7325 (DX Mix-Bulgaria)

UNIDENTIFIED (New Entry) to Iran in Farsi: 1730-1800 Friday on 5910. Notes: At time of publication, the identity of this station had not been established. (WRTH Update)

Opposition/ clandestine transmission of Channel One TV on shortwave via RRTM Telecom Tashkent:
1730-1800 on 5910 Farsi Fri. This opposition station is based in Canoga Park, Los Angeles (DX Mix-Bulgaria)

Reception of BRB Denge Welat via TDF Issoudun, February 18:
1600-2200 on 9525 Kurdish (DX Mix-Bulgaria)

Strong signal of BRB Denge Welat on new 11540 via Grigoriopol, February 20:
1300-1500 NF 11540 Kurdish, ex 11530 (DX Mix-Bulgaria)

Very good signal of BRB Denge Welat on new 11540 via Grigoriopol, February 21:
0600-1300 NF 11540 Kurdish, ex 11530 (DX Mix-Bulgaria)

BRB Denge Welat on second frequency via SPL Sofia, February 23:
0700-1400 on 15285 Kurdish via Media Broadcast broker
1400-1700 on 9480 Kurdish via Media Broadcast broker
1700-1900 on 9550 Kurdish via Media Broadcast broker
1900-2200 on 6180 Kurdish via Media Broadcast broker
2200-2400 on 5945 Kurdish via Media Broadcast GmbH broker (DX Mix-Bulgaria)

Reception of BRB Denge Welat on new 11540 via TDF Issoudun on February 23:
1500-1600 NF 11540 Kurdish, ex 11530

At same time 11530 EMR Turkish TRT Radio Recep Erdogan - on old QRG // frequency 9480 SCB 050 kW / 090 deg to WeAs Kurdish additional (DX Mix-Bulgaria)

Denge Welat via Issoudun/Grigoriopol/Sofia, updated:

0330-0600 on 7350 ISS Kurdish via TDF Issoudun

0600-1300 NF 11540 KCH Kurdish, alt.11530 KCH

0600-1300 on 11530 EMR Turkish TRT Recep Erdogan!

0700-1400 on 15285 SCB Kurdish via MBR Sofia

1300-1500 NF 11540 KCH Kurdish, alt.11530 KCH

1300-1500 on 11530 EMR Turkish TRT Recep Erdogan!

1400-1700 on 9480 SCB Kurdish via MBR Sofia

1500-1600 NF 11540 ISS Kurdish, alt.11530 ISS

1500-1600 on 11530 EMR Turkish TRT Recep Erdogan!

1600-2200 on 9525 ISS Kurdish via TDF Issoudun

1700-1900 on 9550 SCB Kurdish via MBR Sofia

1900-2200 on 6180 SCB Kurdish via MBR Sofia

2200-2400 on 5945 SCB Kurdish via MBR Sofia (DX Mix-Bulgaria)

Raadiyoo Arraata Biyyoolessaa Oromiyaa (New Entry) W:

www.youtube.com/watch?v=F_LYOhrpMo0 in Oromo 1600-1630 Mon/Tu/Wed/Fri/Sat on 15400gal (WRTH Update)

Arraata Biyyoolessa Oromiyaa/Oromia National Media via RADIOCOM Galbeni, February 15:

1600-1629 on 15400 Afan Oromo Mon-Wed/Fri/Sat (DX Mix-Bulgaria)

A new Oromo broadcast is being heard on 15400 from 1600-1630 registered in HFCC on

Mo/Tu/We/Fr/Sa probably via IRRS Romania. Mauno Ritola has found a YouTube page for the station at https://www.youtube.com/watch?v=F_LYOhrpMo0 The sign-on announces as "Beeksisa Radio Arraata Biyyoolessa Oromiyaa". (British DX Club)

Reception of Radio Mazaris Sumay via Talata Volonondry, February 8:

1500-1530 on 11705 Tigrinya (DX Mix-Bulgaria)

Radio ERISAT (New Entry) W: erisat.org Tigrinya

1800-1900 Mon/Wed/Fri/Sat/Sun on 11690mdc (WRTH Update)

Reception of Radio ERISAT in Tigrinya via Talata Volonondry on Thu, February 10:

1800-1900 on 11690 Tigrinya Daily, ex Wed/Fri-Mon (DX Mix-Bulgaria)

Radio NUG The Voice of National Unity Government of Myanmar, February 10:

1400-1430 on 11940 PAO Burmese Daily (DX Mix-Bulgaria)

Radio NUG (Clan) Revised complete schedule in Burmese

0200-0230 daily on 17790pao

1400-1430 daily on 11940pao (WRTH Update)

Mizzima Radio (New Entry) W: mizzimaburmese.com in Burmese;

mizzima.com (English) Burmese

1200-1300 daily on 17730dha (WRTH Update)

Mizzima Radio in Burmese via ENC-DMS Al-Dhabbayya, February 21:

1200-1300 on 17730 Burmese (DX Mix-Bulgaria)

Good signal of Raadiyyoni Dirree Shaggar via TDF Issoudun, February 17:

1600-1630 on 15330 Afan Oromo Oromia Public Media
1700-1730 on 15340 ISS Tigrinya Oromia Media via WRMI broker NOT ON AIR! (DX Mix-Bulgaria)

Reception of Voice of Oromo Liberation in Afan Oromo via MBR Nauen, February 6:
1700-1730 on 9610 Afan Oromo Fri/Sun (DX Mix-Bulgaria)

Radio Dap Loi Song Nui/Vietnam Democracy Radio via Paochung, February 20:
1230-1258 on 9670 Vietnamese (DX Mix-Bulgaria)

Voice of Martyrs via RRTM Telecom Tashkent on February 12:
1200-1230 on 9930 Korean Daily (DX Mix-Bulgaria)

Radio Free North Korea via RRTM Telecom Tashkent, February 9:
1300-1400 on 9910 Korean (DX Mix-Bulgaria)

North Korea Reform Radio via RRTM Telecom Tashkent, February 2:
1400-1500 on 7589.9v Korean (DX Mix-Bulgaria)

Furusato no Kaze in Japanese via RRTM Telecom Tashkent, February 2:
1430-1500 on 7525 Japanese (DX Mix-Bulgaria)

Radio Afghanistan International via CJSC Yerevan, February 6:
from 1300 on 7600 Pashto (DX Mix-Bulgaria)

Radio Iran International via RRTM Telecom Tashkent, February 6:
from 1228 on 15629.8v Farsi (DX Mix-Bulgaria)

Radio Iran International via RRTM Telecom Tashkent, February 6:
from 1330 on 5829.9v Farsi (DX Mix-Bulgaria)

Afghanistan International (Volant Media UK):

0300-1300 on 7599.9vTAC Pashto, not 0230-1430

1300-0300 on 7600.0 ERV Pashto, not 1430-0230 (Hard Core DX)

Iran International (Volant Media UK):

0430-1330 on 15629.8vTAC Farsi

1330-0430 on 5829.9vTAC Farsi (Hard Core DX)

Reception of DRE Dimtse Radio Erena via SPL Sofia, February 11:

from 1700 on 9720 Tigrinya (DX Mix-Bulgaria)

Radio Sedayee Kashmir: Has ceased broadcasting on shortwave.

Radyo Free Kashmir (Clan): Has ceased broadcasting on shortwave (WRTH Update)

Radio Ndarason International via ENC-DMS Ascension, February 13:

1900-2100 on 12050 Kanuri (DX Mix-Bulgaria)

Another program is coming to Eritrea via the shortwave station in Talata Volonondry. It comes from Erisat (<https://erisat.org>), (<https://erisat.org>), a TV channel "highly motivated Eritreans in exile" (highly motivated Diaspora Eritreans) in Los Angeles, which one day wants to be the broadcaster of Eritrea. According to information at Twitter is sent via the Eutelsat 7WA, Transponder 11.315V, Symbol Rate 27.500 FEC 7/8. The supplementary radio broadcasts run with the exception of individual weekdays. Erisat's tweet of December 18, 2021 named Monday and Tuesday, third-party sources such as the World Radio TV Handbook call Tuesday and Thursday. 1800-1900: 11690 (250 kW, 340°) per day Human Rights Watch describes the human rights situation in Eritrea as follows: "Eritrea's government under President Isaias

Afewerki is further along responsible for serious human rights violations. Thousands of Eritreans flee the country every month to avoid permanent national service. Eritreans are arbitrarily arrested and brutally treated in detention. There is no way to challenge the detention or other abuses. Eritrea has had no national elections, no legislature, no independent press or independent civil society organizations since 2001. Freedom of religion is severely restricted. The 2018 Peace Agreement with long-time enemy Ethiopia gave hope that the restrictions of national service would be repealed, but so far little has changed." Like them Deutsche Welle reports, Eritrea demands from Eritreans abroad both taxes and Declarations of remorse for their escape when they don't put relatives left behind at risk want. (Kai Ludwig/Dr. Hans Jorg Biener-Germany/ADDX)

11690, R. ERISAT via Madagascar. Dec.25 at 1800(S/on)-1806(S/off) in Tigrinya. SI0251. Test broadcast for Eritrea. S/on with music & male talk(ID?), followed by female talk. They started regular broadcast on Jan.1 and it was heard at 1800(S/on)-1830 in Tigrinya. SI0252. S/on with local song & ID, followed by male talk & local songs. (Nagatani-Japan/Japan Shortwave Club) 11690, Radio Erisat, via Talata Volonondry, e-mail message in 1 day. E-mail: info@erisat.org. (Roberto Pavanello-Italy/DX Fanzine)

COLOMBIA Fair signal of La Montana Colombia via Maicao, February 3:
0630 & 1050 on 4940 MIA 001 kW Spanish (DX Mix-Bulgria)

Good signal of La Montana Colombia via Maicao, February 11:
0745 & 1046 on 4940 MAI 001 kW Spanish (DX Mix-Bulgria)

4940, La Montana Colombia, Maicao, 1222, W in probable religious talk, enough SP getting

through to definitely rule out V of the Strait, 02/13. (XM /The Mosquito Coast)

CUBA China Radio International (CRI) (Gov) Spanish 0000-0100 daily on 15120qvc (del) Cantonese 1200-1230 daily on 9570qvc (ex - 1300) English 1500-1600 daily on 15700qvc (del) (WRTH Update)

DENMARK World Music Radio (WMR) is on the air now (since 1 January 2022) 24 hours 7 days a week on 15790 from Randers, Denmark. Power is 20 Watts only into a 3 element yagi beamed south. Reception is possible at times in Central and Southern Europe, but suffers from strong interference from the new DRM transmitter on 15785. So these are the WMR transmitters currently on the air: 927 – 200W – Hvidovre, Copenhagen 5930 – 200W – Bramming 15790 – 20W – Randers 25800 – 65W – Mårslet, Aarhus (Stig Hartvig Nielsen/British DX Club)

ENGLAND HCJB Radio Akhbar Mufriha in Tachelhit via ENC-DMS Woofferton, February 6:
2100-2115 on 7300 Tachelhit (DX Mix-Bulgaria)

ESWATINI Reception of Trans World Radio Africa in Somali via Manzini, February 15:
1500-1530 on 11780v Somali Daily (DX Mix-Bulgaria)

Reception of Trans World Radio Africa in Juba Arabic via Manzini, February 15:
1530-1545 on 13580v Juba Arabic Mon-Fri (DX Mix-Bulgaria)

Reception of Trans World Radio Africa in Kirundi via Manzini, February 15:
1557-1627 on 13580v Kirundi Mon-Fri (DX Mix-Bulgaria)

Reception of Trans World Radio Africa in Afan Oromo via Manzini, February 15:

1630-1700 on 11660v Afan Oromo Wed/Thu (DX Mix-Bulgaria)

Reception of Trans World Radio Africa in Arabic via Manzini, February 15:
1802-1902 on 13810v Arabic Mon-Fri (DX Mix-Bulgaria)

FRANCE NHK World Radio Japan in Farsi via MBR Issoudun, February 21:
1430-1500 on 13725 Persian (DX Mix-Bulgaria)

GERMANY Reception of Bible Voice Broadcasting via MBR Nauen on February 19:
1400-1500 on 11900 English 1st Sat (DX Mix-Bulgaria)

Reception of PAB Frank&Ernest Discussion via MBR Nauen, February 13:
1430-1445 on 11800 English Sun (DX Mix-Bulgaria)

HCJB Voice of The Andes in Russian & Chechen via MBR Nauen, February 12:
1529-1629 on 9500 Russian/Chechen Sat (DX Mix-Bulgaria)

Reception of Evangelische Missions Gemeinden EMG via MBR Nauen, February 20:
1130-1200 on 6055 German Sat/Sun (DX Mix-Bulgaria)

GREECE Possible end of an ERT Voice of Greece transmitting on shortwave 9420 via Avlis. The ERT CEO Giorgos Gambritsos, has signed a decree to close down the shortwave transmitting facility at Avlis from March 31, 2022. The news release by ERT is leaving the possibility of shortwave broadcasts to continue only if the Ministry of Defense and Foreign Ministry decide to oversee the continuation of broadcasts on shortwave. Current schedule of Voice of Greece:
v1800-0805 on 9420 AVL Greek, BUT not daily & 0805-1200 very rarely. NOTE: On the rare days when he works after 0805 from mid of November there has been NO NEWS in

other languages 0805-0815
Arabic/Serbian/Albanian; 0905-0915
Spanish/Romanian/Russian (DX Mix-Bulgaria)

Today is "World Radio Day", and the government has decided to commemorate it by suspending the ERT's international shortwave programme. The transmission of the shortwave signal, by decision of the ERT management, will continue until 31 March 2022. The reason for the decision, which was signed by ERT's CEO George Gabritsos, is that shortwave radio is technologically obsolete. ERT invites the Ministries of Foreign Affairs and Defence to declare whether they wish to take over the use of shortwaves. (Zacharias Liangas-Greece/Hard Core DX)

Fair to good signal of ERT Voice of Greece in Greek via Avlis, February 11:
0800-0805 on 9420 Greek tx#3 and off air (DX Mix-Bulgaria)

GUAM Additional transmission of KTWR Trans World Radio Asia effective February 2:
0942-1000 on 11995 English Daily in HFCC B-21 Database (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in English via Agana, January 30:
1100-1145 on 9910 Eng/Chi Sun (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in English via Agana on February 1:
1103-1133 on 11965 English Sun-Fri. (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in English via Agana, February 15:
1244-1300 on 11590 English Sun-Wed (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in Mongolian via Agana, February 7:

from 1044 on 12120 Mongolian Mon-Sat (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in English via Agana, February 7:
from 1103 on 11965 English Sun-Fri (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in Chinese via Agana, February 7:
from 1116 on 9975 Chinese Daily (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in Chinese via Agana, February 9:
from 1200 on 9910 Chinese Sun-Fri (DX Mix-Bulgaria)

11965/12040, Trans World Radio KTWR. English programme. QSL received in 67 days for report in English to: asiafeedback@twr.org. (Christian Ghibaud-France/British DX Club)

INDIA Very good signal of All India Radio AIR in Swahili & English via Bengaluru, February 18:
1207-1217 on 15030 BGL open carrier / dead air / 1000Hz test tone / Interval Signal
1217-1315 on 15030 BGL Swahili+English ann. Voice of Islam. (DX Mix-Bulgaria)

All India Radio in Baluchi and Dari via Bengaluru February 12:
1325-1330 on 15030 Baluchi unscheduled on shortwave &
1330-1500 on 15030 Dari (DX Mix-Bulgaria)

Much limited AIR shortwave schedule these days, noted on Feb 3rd around 1230-1330 AIR Baluchi service via Delhi Kingsway bcst on 9949.806 much odd frequency, 100 kW at 1325.(wb df5sx, wwdxc BC-DX TopNews)

Jose Jacob advises that the SW transmitters of AIR Aizawal 5050/7295 and AIR Gangtok 4835/6085 have closed permanently. Both had been off the air for a long time. The only

regional AIR station still using shortwave is AIR Leh (Kashmir) on 4760/6000. The AIR external service transmitters at New Delhi and Bengaluru also remain in service. (Jose Jacob DX_India/British DX Club)

All India Radio (AIR) (Pub) Revised complete schedule

Arabic 0500-0600 daily on 15030del

1730-1930 daily on 9620bgl

Baluchi 0300-0400 daily on 1071raj+

0300-0430 daily on 9950del

1230-1330 daily on 9950del

Bengali 0030-0900 daily on 594kkt

1000-1830 daily on 594kkt

Burmese 0315-0415 daily on 11560del

Chinese 1030-1200 daily on 13795bgl

2345-0115 daily on 13795bgl

Dari 0430-0600 daily on 9950del

1330-1430 daily on 1071raj+

1330-1500 daily on 9950del, 15030bgl

Farsi 0800-0830 daily on 15030bgl

1615-1730 daily on 9620bgl

French 1930-2030 daily on 9620bgl+

Indonesian 0130-0230 daily on 13710bgl

Nepali 0145-0315 daily on 11560del

0900-1030 daily on 9950del

Pashto 0430-0600 daily on 11560del

1230-1400 daily on 11560bgl

Swahili 1215-1315 daily on 15030bgl

Tibetan 0100-0230 daily on 9875del

1045-1215 daily on 1590del

Key: + DRM Transmission. (WRTH Update)

All India Radio has discontinued the following shortwave services from January 1, 2022: Aizawal (10 kW, 5050 and 7295), Gangkok (10 kW 4835 and 6085), Jeypore (10 kW 5040), New Dehli (10 kW 6030 and 6100) and Srinagar (10 kW 4950 and 6110). Now the only regional shortwave station of AIR still on the air is Leh (10 kW 4760 and 6000). (Asian DX Review)

The External Services Division of All India Radio (AIR) has expanded its transmissions in six neighbouring languages – Dari, Pashto, Baluchi, Mandarin Chinese, Nepali and

Tibetan – from 3 January. AIR said the broadcast duration in each of these languages had been doubled from the existing one to 1.5 hours per day to three hours per day. “The broadcast services in these six languages henceforth will be available every day for one and a half hours each in the morning and evening,” an AIR statement said. In keeping with its mandate of reaching out to the regions across the globe, the External Services Division of AIR currently broadcasts in 17 languages every day: French, Mandarin Chinese, Tibetan, Sindhi, Indonesian, Nepali, Urdu, Baluchi, Dari, Pashto, Arabic, Persian, Tibetan, Swahili, Punjabi, Saraiki and Bengali. (Asia-Pacific Broadcasting Union/Australian DX News)

INDIA (Kashmir) After a relative calm between India and Pakistan, the government has closed down the Balti Service from All India Radio Srinagar early this month, Outlook reported. “The government has shut down the Balti Service that was aired from the shortwave radio transmission of All India Radio Srinagar following the communication from the Ministry of Information and Broadcasting,” Outlook quoted officials as having said. The report said that the program was a “reach out project” to present the Indian views of the situation in Muzaffarabad, Gilgit and Baltistan regions. It was only last year when the government started the news bulletins on state-owned broadcasters Doordarshan and All India Radio (AIR). Along the news bulletins, weather forecasts of areas like Muzaffarabad, Mirpur and Gilgit-Baltistan had become a regular feature on the two broadcasters. They further added, “The shortwave was airing only one program, which was of Balti services.” The report stated that the Ministry of Home under a policy decision started the Balti service program on March 27, 1988, from the shortwave Radio Kashmir Srinagar to counter the Balti language program from Radio Pakistan and Azad Kashmir Radio

Trarkhal. This program catered even the people living in the Kargil region of Ladakh and a small number of scattered Balti speaking people in different parts of Kashmir. (Kashmir Life/Australian DX News)

INDONESIA Reception of Voice of Indonesia in English via Djakarta Cimmingis, February 3:

1000-1100 on 4750 JAK 010 kW English
1000-1100 on 3325 PGA 010 kW English-announcing ONLY 3325 kHz, but not on air today (DX Mix-Bulgaria)

3325, Feb 11, 1007, VOI via Palangkaraya. Thanks very much to Ivo Ivanov, who recently first observed the new schedule; now starting about an hour earlier than in the past; formerly, for a long time, had started about 1100; today noted with news in English till 1009, when they played the usual patriotic song “Bagimu Negeri” (For You Our Country); followed by “Today in History”; announced frequency of “3-3-2-5 KiloHertz”; normal audio level during English (1007-1100), but by 1211 the audio was gone (just dead air). (Ron Howard-CA/Shortwave Bulletin)

4749.95, Feb 4, 1142, VOI via Cimanggis/Jakarta. Very unusual to be able to hear VOI here; clearly two stations in Chinese; other one was CNR1; slight het as VOI is off frequency from CNR1; currently VOI is off the air on 3325 (Palangkaraya). My reception today was only possible during pre-Bangladesh Betar. (Ron Howard-CA/Shortwave Bulletin) 4749.95, Feb 11, 1211, VOI via Cimanggis/Jakarta. Clearly VOI and CNR1 (4750.0) mixing together here, along with CODAR QRM; both unusable, but certainly two stations. VOI is becoming more regularly heard here. (Ron Howard-CA/Shortwave Bulletin)

IRAN New time of VIRI IRIB in Hausa/Kazakh/Pashto/Turkish from February 1:

1053-1120 on 17595 SIR Hausa, ex 1223-1250 on same
1123-1150 on 11700 SIR Kazakh, ex 1253-1320 on same
1423-1520 on 9870 ZAH Bengali, x 1423-1520 via SIR
1653-1750 on 6040 ZAH Pashto, ex 1623-1720 via SIR
1653-1820 on 9870 SIR Turkish, x 1553-1720 on same
Canceled transmissions of VIRI IRIB PARS TODAY in Russian/German/Italian:
0323-0420 on 9550 SIR Russian - deleted in HFCC
1723-1820 on 5940 SIR German - deleted in HFCC
1653-1750 on 7290 SIR Russian - deleted in HFCC
1753-1820 on 5930 SIR Italian - deleted in HFCC (DX Mix-Bulgaria)

Reception of VIRI IRIB/PARS TODAY in Arabic via Zahedan, February 9:
1030-1430 on 9530 Arabic (DX Mix-Bulgaria)

PARS TODAY (Voice of the Islamic Republic of Iran (Gov)
Bengali 1420-1520 daily on 9620sir (ex 6150), 9870zah (ex ahw)
German 1720-1820 daily on 5940sir‡, 6090sir (del), 7425sir (del)
Hausa 1050-1120 daily on 17595sir (add)
1220-1250 daily on 17665sir (del)
Italian 1750-1820 daily on 5930sir (del)
Kazakh 1120-1150 daily on 11700sir (add)
Pashto 1650-1750 daily on 6040zah (ex 1620-1720)
Russian 0320-0420 daily on 9550sir (del)
Turkish 1650-1820 daily on 9870sir (ex 1550-1720)
Key: ‡ Inactive at time of publication. (WRTH Update)

Fair/good signal of VIRI IRIB/PARS TODAY in Arabic on wrong OBB via Zahedan, February 12:
1030-1430 on 9130 Arabic (DX Mix-Bulgaria)

Good signal of VIRI IRIB/PARS TODAY in Arabic via Zahedan on February 15:
1030-1430 on 9530 Arabic, instead of 9130! (DX Mix-Bulgaria)

9855, IRIB World Service, English programme. EQSL received in 40 days for email report to: englishradio@irib.ir. (Bill McDavitt-FL)

JAPAN NHK World Japan Network Radio Japan in Russian via Yamata, February 16:
1100-1130 on 5985 Russian (DX Mix-Bulgaria)

KOREA (South) Very good signal of KBS World Radio in Spanish on wrong 9515 via Kimjae, February 13:
1100-1149 on 9515 Spanish & off, instead of 11795 (DX Mix-Bulgaria)

3985, Feb 15, 1055, Aoki: 3985 0400-2400 KOR ECHO OF HOPE-VOH Kor Hwaseong 1-7 Voice of Freedom, 5920, at 1130, with the start of the program "Aneun geos-i him-ida" (Knowledge is Power); fair; while ex: 6045 still has N. Korean non-stop super jamming. VOH: 3985 // 4890 // 5995 // 6255 // 6350 // 9105, at 1138; the weekday audio feed from a TV program called "Wang cho bo yeong-eo" (translated into English - Beginner's English), with "English trainers," "Mayu" and "Mini"; "Computer in the box," "A gift inside," "There is no wonder this box is heavy," "There is no wonder you are tired," etc. (Ron Howard-CA/Shortwave Bulletin)

5920, Feb 11, 1156, Voice of Freedom back to their alternate frequency of 5920 (ex: 6045). Closing ID for the "Aneun geos-i him-ida" (Knowledge is power) program; 1200, the usual single tone; then "Jayu-e solibangsang-eseo bam 9 (ahob) sileul allyeodeulibnida." (In English - Voice of Freedom has announced 9pm); nice singing station jingle - "jinsil-e soli, huimang-e soli, jayu-e soli bangsong!" (Voice of Truth, Voice of Hope, Voice of Freedom broadcast); then

the "Bodo gwangjang" (News Plaza) segment; fair. (Ron Howard-CA/Shortwave Bulletin)

MADAGASCAR NHK World Radio Japan in Hindi via Talata Volonondry, February 16: 1430-1500 on 15720 Hindi (DX Mix-Bulgaria)

9885, QSL World Voice KNLS. Got a new QSL card from Madagascar World Voice KNLS. Card with the old theme of 2020 for receiving the broadcast from Madagascar on January 2, 2022. The envelope with the card was sent on January 5, 2022. A mini pennant of the station was added to the envelope. (Dmitry Elagin-Russia / "open-dx" via Anatoly Klepov-Russia, RUSdx #1170 via wwdxc BC-DX TopNews) This was clearly MWV but the card logo features KNLS and MWV so not a KNLS verification. (RAD)

MALAYSIA 11665, RTM Kajang Wai FM. Beautiful f/d eQSL received in a day. Email: pnk_rtmkajang@rtm.gov.my. (Pradip Chandra Kundu-India/Asian DX Review)

MOLDOVA TWR India relay FEBA Pakistan in Pashto via Grigoriopol, February 16: 1500-1545 on 7590 Pashto Daily (DX Mix-Bulgaria)

MYANMAR 5985, Myanma National Radio, Yangon, Myanmar. Sign on matching sign on recorded on YouTube, 2/4/2022, 2259. Conditions are wacky, so wacky things happen. (Ralph Brandi-NY/DXplorer) Also heard here in Germany from s/on at 2300 with short melody, station announcement, national anthem, religious singing, local style music. 2330 morning sports for the audience Signal strength poor to moderate; one of the more interesting dx stations these days. (Harald Kuhl-Germany/DXplorer)

NETHERLANDS Reception of Offshore Music Radio OMR Rockpower on new frequency via Nijmegen, January 29: 0600-2400 NF 7575 NIJ 001 kW Dutch, ex 7280

0000-2400 on 7280 NIJ 001 kW Dutch Daily OMR Rockpower in latest B-21 HFCC Database! (DX Mix-Bulgaria)

NEW ZEALAND Radio New Zealand Pacific in AM/DRM mode via 2 transmitters in //:
1651-1835 on 9700 RAN English AM mode Sun-Fri
1651-1835 on 9780 RAN English DRM mode Sun-Fri
1836-1935 on 11725 RAN English AM mode Sun-Fri
1836-1935 on 11690 RAN English DRM mode Sun-Fri
1936-2058 on 11725 RAN English AM mode Sun-Fri
1936-2058 on 13840 RAN English DRM mode Sun-Fri (DX Mix-Bulgaria)

7390, RNZ Pacific at 1259 with IS to time pips at 1300 and a man with "RNZ News at 2 o'clock" to 1305 and local weather then back to "The All Night Program" - Good Feb 6. (Coady-ON/The Mosquito Coast)

11725 RNZ Pacific at 1255 with a Nat King Cole song and a man with program ID at 1256 of "This is the All Night Program with Peter McIlwaine" then small talk to a woman with frequency changing announcements at 1258 and a single IS and off - Good Feb 6. (Coady-ON/The Mosquito Coast)

NIGERIA 7255, R. Voice of Nigeria, Abuja Luabe, 15/02, 0635 - 0639 music, male in Hausa talks (according Aoki), outside talks. Good. (Lúcio Bobrowiec-Brazil/The Mosquito Coast)

PERU 4747, Feb 3, 0010, R. Huanta 2000. Id y luego noticias locales sobre las plazas docentes. (Claudio Galaz-Chile/Shortwave Bulletin)

4752, R. Huanta 2000, Huanta; 11/02, 0004 - 0009 male Spanish ads "Instituto Pedagógico Nazareno...inspirar y transformar...educación primaria; La gota

milagrosa...Lagrimas de Maria...aqui en Huanta"; seems "optimistic philosophy" speech by male. Fair, fady. (Lúcio Bobrowiec-Brazil/The Mosquito Coast).

4810, Feb 3, 1113, presumed R. Logos. Best ever reception here, even with the normal heavy CODAR QRM; announcer (1113-1120) and OA music/songs (1120-1128). (Ron Howard-CA/Shortwave Bulletin) 4810, R. Logos, San Martin; 03/02, 0016 – 0023 flute instrumental music. Very weak, listening on 4808kHz to avoid STANAG on 4810. (Lúcio Bobrowiec-Brazil/The Mosquito Coast).

4955, Feb 3, 0026, R. Cultural Amauta. Música cristiana y luego programa bíblico. (Claudio Galaz-Chile/Shortwave Bulletin)

PHILIPPINES Reception of FEBC Radio in dialect Mon on via Bocaue, February 2: 1115-1200 on 15330 Mon/Karen (DX Mix-Bulgaria)

Reception of Vatican Radio via USAGM Tinang, February 5:
1230-1315 on 7485 Chinese Mass Sat
1230-1315 on 9720 Chinese Mass Sat (DX Mix-Bulgaria)

Reception of Vatican Radio on via USAGM Tinang, February 12:
1230-1315 on 7485 Chinese Mass Sat
1230-1315 on 9720 Chinese Mass Sat (DX Mix-Bulgaria)

ROMANIA Radio Romania International (RRI) (Pub)
English 0400-0500 daily on 15260gal (ex 11790), 17700tig (ex 13720) (WRTH Update)

RUSSIA Radio Free Waves Bay relay Radio Five Corners (Pirate Radio), February 6: from 1854 on 3940 unknown secret tx site Russian (DX Mix-Bulgaria)

SOLOMON ISLANDS SIBC has been absent from its shortwave channels for a few

months now, including during the recent civil unrest in Honiara which saw the deployment of a small Australian security team to help the local authorities restore order after rioting and looting. (Australian DX News) Thanks to Martin Hadlow, we have an update on SIBC which has been missing from shortwave since early December I believe. Martin writes: Have had a response from the SIBC in Honiara. "Their MW transmitter is on and working OK. The problem is with the Japanese manufactured transmitter on shortwave. (I think the one TX runs both 5020 and 9545 frequencies). The SIBC technical team is getting advice from the Japanese manufacturer. The equipment came back on-air briefly a few days ago, but is off again now. They are working as hard as they can to get it fixed." (Bryan Clark-New Zealand/New Zealand DX League via Jerry Berg) I also noted the new head of SIBC, Johnson Honimae, also posted on their Facebook page on 24 January in relation to COVID-19 updates: SIBC continues to experience technical problems with its SW transmitter on 5020 and 9545. Our technicians are working with the Japanese manufacturers to try and rectify the problem. Please tune to 1035 on AM and FM 96.3. Otherwise if you have access to internet go to sibconline for the livestream and also SIBC on Facebook. Happy listening to SIBC, Voice of the Nation. (Australian DX News)

SRI LANKA From 2 March to 9 March 2022, Wolfgang and Peter will visit the former Deutsche Welle relay station near Trincomalee. The station is now operated by the Sri Lanka Broadcasting Corporation. We will have the unique opportunity to use the large shortwave antennas between 7 and 21 MHz for amateur radio during the transmission breaks, which have up to 20dBi antenna gain. Also a 104m high 2 mast medium wave antenna for testing on the long bands. The intended focus with both stations will be operation in SSB as well as

FT8 and if necessary on FT8 F/H. The necessary, lengthy and complex approvals have been delayed, so unfortunately the announcement can only be made at very short notice. QSL please to the home call signs. (Harald Kuhl-Germany DL1AX/DXplorer)

Reception of BBC in Bengali via Trincomalle, February 9:
1330-1400 on 9900 Bengali (DX Mix-Bulgaria)

11905, Radio Sri Lanka (Trincomalee) on just before 0030 with carrier tone, pause and into indigenous music and then national anthem to 0033, more indigenous music, 0034 woman beginning Bangla programming, into slow singing and at 0035 man with speaking like a prayer, possibly Islamic (?) since this is the Bangla service, woman with possible ID as I think I heard "broadcasting", 0036 indigenous song, 0037 woman announcer and more singing. Fair, Feb. 12. (Harold Sellers-BC/DXplorer)

TAJIKISTAN 4765, Feb 13, 1952, Tajikistan, seems patriotic talks mentioning several times of Tajikistan, underground orchestral music / unequal side band modulation, S10 on Nosibirsk SDR. (Liangas-Greece/Shortwave Bulletin)

THAILAND 13750, Radio Thailand (Ban Dung) at 0000 bells and gongs, ID "This is HSK9 Radio Thailand's World Service broadcasting from the Public Relations Department in Bangkok.", repeated numerous times until 0005 then woman with English programming. Poor with splatter from Cuba on 13740, Feb. 12. (Harold Sellers-BC/DXplorer) I have been noting "Voice of Thailand station ID's Feb 13 and 23 after 0020. Anomaly? (RAD)

UNITED ARAB EMIRATES Mizzima Radio in Burmese via ENC-DMS Al-Dhabbayya on February 17:

1200-1300 on 17730 Burmese (DX Mix-Bulgaria)

Reception of Radio ERGO in Somali via ENC-DMS Al-Dhabbayya, February 16:
1200-1300 on 17845.1v Somali Daily

Reception of NHK World Radio Japan via ENC-DMS Al-Dhabbayya, February 16:
1315-1345 on 15325.1v Indonesian (DX Mix-Bulgaria)

15640, Radio Azadi (Dhabbaya), Dari programme. QSL received in 18 days for report in English sent to QSL@rferl.org. (Jacques Augustin-France/British DX Club)

UNITED KINGDOM BBC World Service
Dari 0130-0200 daily on 5945sla (ex 6195)
1600-1630 daily on 9910sof (del)
1630-1700 Sat/Sun on 9910sof (del)
1700-1800 daily on 7550sof (del)
English 0500-0600 daily on 15525dha (ex 15420)
0600-0800 daily on 15525mdc (ex 15420)
Pashto 0100-0130 daily on 5945sla (ex 6195)
1500-1600 daily on 9910sof (del)
1630-1700 Mon-Fri on 9910sof (del)
1800-1900 daily on 7550sof (del) (WRTH Update)

USA WBCQ will be running staggered propagation tests of 4790 during February for a new entertainment program block sponsored by Angela and Allan Weiner and curated by Uncle Bill Tilford. When the regular schedule begins in March, it will be 2 hours per night of music and other entertainment from around the world. Several new programs under development will participate. (British DX Club)

WLC Radio (Rlg) Revised complete schedule
English 0100-0900 daily on 9330bcq
1400-1700 daily on 9330bcq
1900-2000 daily on 9330bcq
2000-2100 daily on 9330bcq
French 0900-1000 daily on 9330bcq

1800-1900 daily on 9330bcq
2100-2200 daily on 9330bcq
German 1700-1800 daily on 9330bcq
Portuguese 2300-0100 daily on 9330bcq
Spanish 1000-1400 daily on 9330bcq
2200-2300 daily on 9330bcq (WRTH Update)

Changes of World's Last Chance Radio via WBCQ-6 Monticello:

1900-2057 on 9330 English, ex 1900-1957
2100-2157 on 9330 Spanish - new additional
2000-2057 on 9330 English deleted/canceled
2100-2157 on 9330 French deleted/canceled
(DX Mix-Bulgaria)

WWRB has ceased broadcasting on shortwave and is now an internet only station. (WRTH Update) WWRB is off air following the death of owner/operator Dave Franz. Had broadcast weekends only from Morrison, Tennessee using 3215/3360/5050 (british DX Club)

UZBEKISTAN Bible Vice Broadcasting via RRTM Telecom Tashkent, February 15:
1300-1330 on 11589.9v English Tue (DX Mix-Bulgaria)

VANUATU Good signal of Radio Vanuatu on new frequency 5040 via Port Vila, February 2:
from 0902 on 5040*PVL 2.5 kW Bislama * instead of 3945 PVL 2.5 kW Bislama R. Vanuatu 07-10 B-21 HFCC (DX Mix-Bulgaria)

Very good signal of Radio Vanuatu on 7260 via Port Vila, February 22:
0528 & 0552 on 7260 PVL 2.5 kW All Pacific Bislama (DX Mix-Bulgaria)

5040, Radio Vanuatu, Port Vila, 0753-0802, 02-02, English, comments, mentioned "Vanuatu", music, at 0800, id. "Radio Vanuatu", "Seven O'clock", news. Fair signal. (Manuel Mendez-Spain/Hard Core DX) 5040, thanks to Manuel's timely tip, I had to return to the beach to catch some actual audio, after many months of listening to just an

open carrier with no audio at all. Radio Vanuatu, as one of my favorite SW stations, pulled me back to the beach, even as I am still rather stiff from my fall last week. 1004-1019: News (Is normal for RV to not start the news at the ToH). 1019-1028: Island music/songs. 1028-1033: Start of the usual half hour religious program, starting with non-stop religious songs. 1033-1046: RV ID; into preaching (unreadable). 1046-1103: More religious songs. 1103-1104: ending audio with the National Anthem. 1104+: open carrier/no audio at all (1145+). (Ron Howard-CA via wwdxc BC-DX TopNews Feb 2) 5040, R. Vanuatu, Vanuatu; 13/02, 0900 - 0905 male TOH announcements. Poor but it has slowly improved in the last 3 days, enhanced by the Cuba's silence. (Lúcio Bobrowiec-Brazil/The Mosquito Coast) 5040, Feb 8, 1020, Radio Vanuatu, out of air right now, checked via SDR Kiwi remote receivers in New Zealand. (Manuel Méndez-Spain/Shortwave Bulletin) Also had the same results here in California! Feb 8 - Random checking from 1020 to last check at 1220; also noted no signal at all from Radio Vanuatu on any of their usual frequencies. Perhaps working on xmtr, as yesterday (Feb 7), they broadcast only dead air/open carrier, with no audio detected. Recently they had been running good audio levels (Feb 3, National Anthem). (Ron Howard-CA/Shortwave Bulletin)

VATICAN 15640, Radio Azadi (Santa Maria di Galeria), Pashto programme. QSL received in 19 days for report sent in English to QSL@rferl.org. (Jacques Augustin-France/British DX Club)

15550, Radio Tamazuj via Santa Maria di Galeria, QSL received by post in 20 days for report to: info@freepressunlimited.org. (Bill McDavitt-FL)

VIETNAM 9840, Voice of Vietnam (Hanoi-Sontay) at 2331 in English, woman with

news. Very poor, Feb. 11. (Harold Sellers-BC/DXplorer)

ZAMBIA Voice of Hope Africa on February 1, 2022 published the following broadcast and program schedule from Makeni Ranch:

0400-0800: 9680 11680 English

1200-1400: 9680 Swahili

1400-1600: 6065 9680 English

1600-2100: 4965 6065 English (Dr. Hansjoerg Biener-Germany, addx kurier Feb via wwdxc BC-DX TopNews)

Schedules, news and other information about shortwave broadcasting activity can be send to Richard A D'Angelo, 2216 Burkey Drive, Wyomissing, PA 19610 or via e-mail to rdangelo3@aol.com (please indicate in the subject that your contribution is for Listeners Notebook). Thanks! 73, Rich

Pirate Radio Report

Brian Penney • 30 Acorn Way • Brewster, MA 02631 • swradio@comcast.net

As the March 2022 Journal heads to our esteemed editor, we are about a week away from the much anticipated 2022 35th (!?) Winter SWL Fest. I hope everyone had time to attend the many forums and also spend some time chatting with fellow radio hobbyists in the virtual hospitality suite.

There's been no shortage of pirate radio activity recently and a few surprises as well! A few medium wave pirates have turned up recently. Dr Benway of *Undercover Radio* as well as *Throwback 90s* have been heard on 1720 kHz. European pirates *Cupid Radio* and

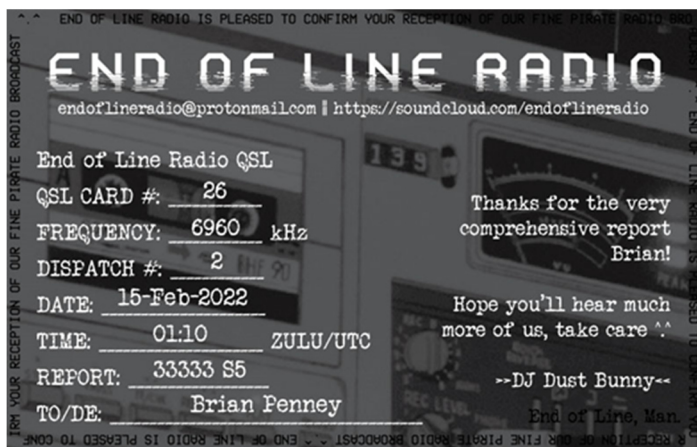
Foxy AM again after an absence of many months.

Many thanks to this month's contributors: Glenn Hauser, Greg Majewski, Bill Montney, Gianni Serra, and Mark Taylor.

1720-AM, PIRATE-NA. **UNDERCOVER RADIO.** 0049-0154, 02-05-22, Very nice show of tunes by the likes of AC/DC, Black Sabbath, Motorhead and others. Multiple ids given. ID by Doctor Benway. Fair to good signal with some fading (Majewski-CT) 0138, 01-31-22, (Taylor-WI)

1720-AM, PIRATE-NA. **THROWBACK 90's.** 0200-0225, 02-05-22, A show of 90s music. Enjoyable. Fair to poor signal. (Majewski-CT) 0155 - 0235, 02-06-22, Playing all those dance/club hits of the 1990s from various artists. Good signal. S7. (Penney-MA)

4185-USB, PIRATE-NA. **SYCKO RADIO.** 0113, 02-02-22, SSTV (mask like face with hat "Sycko Radio" on top of hat,) hard rock, Sycko w/ greetings, hard rock, ID into a more electronic style song w/ talk as part of song, Started out fair but deteriorated to poor. (Taylor-WI)



Mike Radio have been heard on 21460 kHz, 15075 kHz and 15085 kHz respectively. *End of Line Radio* and *Ten Watts And A Wire* were new pirates for me and it was fun to hear

4185-USB, PIRATE-NA. **TEN WATTS AND A WIRE**. 0018, 02-06-22, All ZZ Top music including "Just got paid", "Jesus just left Chicago", Mexican blackbird", "Tush", "Blue jeans blues", "Heard it on the X" - "It's only love". 0037 SSTV Fair. (Taylor-WI) 0000 - 0052, 02-06-22, (Penney-MA)

5055-AM, PIRATE-NA. **WDOG**.0217, 02-20-22, 60's & 70's pop music with frequent ID's and periodic dog howls over and between music. Fair - good. (Taylor-WI)

5780-AM, PIRATE-EUROPE. **RADIO HARMONY**. 0630-0703, 02-11-22, playing old mellow, pop, jazz, country etc songs, interspersed by man/woman brief soft announcements and ID at times (Wonderful music on Harmony - A world of beautiful music on shortwaves, this is Harmony, etc). (Serra-Italy)

6915-USB, PIRATE-NA. **CLEVER NAME RADIO**. 2119, 02-05-22, Rap, synth YL (as all ID's were) w/ ID, lite rock, ID, pause, "Long division" - Fugazi, brief skit, Several slow ID's in a row, "Killing in the name" - Rage against the machine, into a program of similar music with periodic ID's. Fair to good signal (Taylor-WI)

6917-USB, PIRATE-NA. **NOT CLEVER NAME RADIO**. 2156, 02-16-22, Fair. Have mx on-going sounding like "reggae", NOFX follows up w/"Separation of Church and State", "Straight Edge", and, "I Am an Alcoholic". YL next w/ID and states that "request lines are open", Ministry next w/"So What", ID again, more mx from NOFX w/ "Dinosaurs Will Die" (Montney-MI)

6920-AM, PIRATE-NA. **RADIO PUSHKA**. 0305, 02-13-22, S6-S7 music, 0410 JBA S5-S6. Slightly on the low side. 6920-, UNIDENTIFIED, Feb 17 at 0650, JBA carrier slightly offset minus, typical of N American Russian pirate, Radio Pushka UNIDENTIFIED,

Feb 17 at 0650, JBA carrier slightly offset minus, typical of N American Russian pirate, Radio Pushka.(Hauser-OK)

6925-USB, PIRATE-NA, **OUTHOUSE RADIO**. 0020, 02-05-22, "Possessions" - Salamander, "Filaments" - Shearwater, SSTV (Drawing of 2 girls in b&w facing one another on top and embracing in mirror on bottom. "Our world's children, what have we let them do to you?"), SSTV. (Taylor-WI)

6925-USB, PIRATE-NA. **WIRI RADIO INTERNATIONAL**. 2356 - 0003, 02-09/10-22, Heard Gordon Lightfoot. Fair Signal (Majewski-CT)

6925-AM, PIRATE-NA. **FOXY AM**. 2215 - 2310, 02-11-22, Music selections from Buckethead, Beach House, Steely Dan & others. OM w/ID. Good signal in spite of pesky interference on LSB. S5-S7. (Penney-MA) 2258 - 2319, 02-11-22. (Majewski-CT)

6930-AM, PIRATE-NA. **RADIO OLAH**. 2013, 01-16-22, Good. On-going mx from Iggy Pop w/ "I'm Bored", OM anncr w/ID, Mx from The Remains w/ "Why Do I Cry", Spanky and Our Gang w/ "Sunday Mornin" more anncr comments and ID, and The Yardbirds w/ "Over Under Sideways Down" (Montney-MI)

6930-USB, PIRATE-NA. **HELLFINO**. 0224, 02-06-22, Listening for some time before to indistinct music. Started fading in and out with contemporary dance music, ID over music at 0226, in at 0230 w/ 2 possible ID's by synth YL into more industrial music, SSTV ("Hellifino"), more industrial music. (Taylor-WI)

6930.97-AM, PIRATE-EUROPE. **INDY RADIO**. 1657-1721, 02-01-22, playing unid songs and music (presumed hard rock/heavy metal etc), man unclear brief talk at times. Weak signal. (Serra-Italy)

6935-USB, PIRATE-NA. **SMALL DOG RADIO.** 0049, 01-24-22, Jazz / blues, "Just a memory" - John Mayall, short announcement, Easypal waterfall, SSTV. Poor - fair. (Taylor-WI)

6940-USB, PIRATE-NA. **RADIO GENIX.** 2312, 01-23-22, Rock guitar fading in and out. 40 watt test per HF Underground. Poor. (Taylor-WI)

6940-AM, PIRATE-NA. **RADIO RONIN SHORTWAVE.** 2210 - 2301, 02-11-22, Music selections from Ten Years After for an Alvin Lee tribute show! Nice signal. S8. (Penney-MA) 2221, 02-11-22, "Radio Ronin Short Wave on your Radio Dial", more from Ten Years After. (Montney-MI)

6950-USB/4185-USB, PIRATE-NA. **RADIO 48.** 0200 - 0216, 02-16-22, Rap, Hip/Hop tunes from various artists. QSY to 4185 kHz @0207. Multiple ID's repeated. Decent signal. S5-S7 (Penney-MA)

6950-AM, PIRATE-NA. **CAPTAIN MORGAN SHORTWAVE.** 0030, 02-20-22, fair-good. Coming on-to possible ID -email address (not sure). Mx next: Andy Santana w/ "Baby Come Back to Papa",. Clear ID next w/ gmail address, T-Bear & The Dukes of Rhythm next w/"She Moves Me". (Montney-MI)

6952.5-USB, PIRATE-NA. **PEE WEE.** 0232, 01-30-22, "Dust in the wind", pop / rock tunes (familiar but I don't know their names), "Behind blue eyes," waterfall image. CW ID both over music, "I can't get no satisfaction" CW message, more rock, SSTV, "Setting Sun" - Blucas, SSTV ("Pee Wee" w/ names of HFU posters), Poor. (Taylor-WI)

6955- USB, PIRATE-NA. **MIX RADIO INTERNATIONAL.** 2322 - 0002, 02-13/14-22, A show of smooth jazz. Lots of IDs by female announcer. Good Signal (Majewski-

CT) 2355, 02-19-22, Fair to good. (Taylor-WI)

6955-USB, PIRATE-NA. **OUTHOUSE RADIO.** 0014, 02-13-22, "Twist" theme: Program of 60's style pop with Outhouse talking periodically. Fair to good. (Taylor-WI) 0014 - 0043, 02-13-22, Fair/Good Signal. (Majewski-CT)

6955-USB, PIRATE-NA. **WTF RADIO WORLDWIDE.** 2136, 02-19-22, Program of pop style music with frequent ID's including an ID sequence "Broadcasting from the East coast of North America to the world and Canada." Fair to Good. (Taylor-WI)

6955-USB/4185-USB, PIRATE-NA. **RADIO FREE WHATEVER.** 2322 - 0103, 02-20/21-22, The best in indie/rock-pop hits with DJ Dickweed. Commentary and insight from Dickweed. Phone call from Sycko Radio on the bunker hotline OM w/ID. Great signal. S8-S9. (Penney-MA)

6960-AM, PIRATE-NA. **BALLSMACKER RADIO.** 0100, 01-30-22, ID w/ frequency, Rosanna" - Toto, "Barbara ann" - Beach Boys, ID, "Little Jeannie" - Elton John, Repeat of last night's songs with "WOMAN" names in the titles show. (Taylor-WI)

6960-USB, PIRATE-NA. **WOLVERINE RADIO.** 0130, 02-13-22, "Sunshine of your love" - Cream, "Love street" - Doors, into a program of "LOVE" themed songs, SSTV. Good. (Taylor-WI)

6960-AM, PIRATE-NA. **END OF LINE RADIO.** 0110 - 0126, 02-15-22, Music selections from Depeche Mode, Duran Duran, Silent Circle, a-ha & others. YL w/ID & multiple SSTV images. Weak signal. S4. (Penney-MA)

6965-AM, PIRATE-NA. **ION RADIO.** 1712 - 1841, 02-06-22, Music selections Boston, Boz Scaggs, Dad Fogelberg, Three Degrees &

others. Synth YL w/ID. Strong signal. S8-S9. (Penney-MA)

6975-AM, PIRATE-NA. **ROCK-IT RADIO**. 1530-1545, 01-30-22, Played 50's and 60's tunes. Heard Rave On by Buddy Holly. Fair. (Majewski-CT)

15075-AM/21459.700-AM, PIRATE-EUROPE. **CUPID RADIO**. 1434-1504/1510-1605, 02-06-22, Techo-tunes from the Kungs, Lil Nas

X, MattOfficail & others. Rinus w/shout-outs to HFU posters. Noisy signal but copy able. S4-S5/S5-S6. OM & SSTV image for ID. (Penney-MA)

15085-AM, PIRATE-EUROPE. **MIKE RADIO**. 1721 - 1800, 02-13-22, Music selections from Janet Jackson, Modern Talking, Exception & others. DJ chatting about his transmitter, shout-outs to HFU posters. Decent reception.S4 (Penney-MA)

Scoreboard

Gary R. Neal • P.O. Box 1 • Cockeysville, MD 21030-0001 • grneal@earthlink.net

This month we are highlighting our members' totals from Africa. Ranking is based upon African Countries Verified. This is your chance to show everyone how well you are doing. The next deadline is August 15th for the September 2022 issue of the Journal. The spotlight will be on South America.

Name, State	Total		Africa		Best African QSL
	C/H	C/V	C/H	C/V	
Edward Kusalik, ALB	250	249	66	66	ORTF Reunion 2446
Dan Henderson, MD	253	248	66	66	ORTF Reunion 2446 kHz
Harold Cones, VA	247	246	66	66	R. Reunion
Marlin Field, MI	246	246	66	66	Kenya (250 w)
James W. Young, CA	253	239	66	65	R. St. Helena (450 w)
Jerry Berg, MA	244	244	64	64	R. Clube Tenerife, Canary Is.(250 w)
Tom Williamson, ON	243	230	65	61	ZNB Mafeking, Bechuanaland
Wendel Craighead, KS	235	223	65	61	UN R. via Katanga 11865
Chris Lobdell, MA	229	225	62	61	Guinea-Conakry-9650
Sheryl Paszkiewicz, WI	225	219	59	59	Guinea
Rich D'Angelo, PA	234	234	58	57	R. Mogadishu, Italian Somaliland
Jim Evans, TN	213	203	57	56	R. Leopoldville, Congo - 1962
Dan Robinson, MD	232	208	65	54	Renunion 2466 kHz
George Maroti, NY	208	202	55	53	Canary Islands
Ron Howard, CA	212	200	57	52	R. Cidade
Stephen Price, PA	198	183	53	46	R. Bata
Bill Smith, MA	186	177	46	41	Cape Verde
Ross Comeau, MA	193	172	52	40	R. Tanzania - Zanzibar
James R. Renfrew, NY	189	161	50	33	R. St. Helena
Jerry Johnston, KY	210	141	58	29	R. St. Helena
Dan Srebnick, NJ	156	121	42	26	Ivory Coast
Larry Colton, FL	254	125	42	25	Cameroon-Garoua 5010

David Turnick, PA	175	158	29	25	Zimbabwe Broadcasting Corp.
Scott R. Barbour, NH	168	115	42	22	Full Gospel L. P. Church (100 w)
Gary R. Neal, MD	137	127	27	22	R. St. Helena
Joe Kremer, OH	153	104	41	19	R. St. Helena
Edward G. Stroh, IL	135	104	30	18	R. Mogadishu, Somalia
Richard Murphy, TX	135	88	18	18	
Richard Bradley, MA	145	130	17	17	FEBA Radio, Seychelles
Gary W. Froemming, AZ	184	44	51	8	ZUD Time Station (S. Africa)
Jerry Ervine, TX	110	60	15	6	Nigeria
Donald Hosmer	228	201			
Bob Raymond, NH	175	151			
Ken McCartney, OH	125	73			

Contributors' Page

The following people made contributions to this issue:

The rightmost column is the column key: first letter of column name, except L = Loggings, LN = Listener's Notebook, and LR = Listening Review.

Member	Equipment	Column
Greg MAJEWSKI , Oakdale, CT		P,L
Mark TAYLOR , Madison, WI		P
Rich D'ANGELO , Wyomissing, PA		L
Vince HENLEY , Anacortes, WA		L
Bill MCDAVITT , Englewood, FL		LN
Eric BUENEMAN , Hazelwood, MO		L
Jim EVANS , Germantown, TN		L
Jerry BERG , Lexington, MA		LN
Gianni SERRA , Roma, Italy		P
Glenn HAUSER , Enid OK		P
Ed CICHOREK , Somerset, NJ		L
Bob WILKNER , Pompano Beach, FL		LN
Bill MONTNEY , Monroe, MI		P
Andre FREDETTE , Oakville, Ontario		L
Ralph BRANDI , Middletown, NJ		L

Note that, beginning in this issue, equipment is listed only for new contributors. A year-end summary of all contributors, including their equipment, will be published in the December e-Journal.

Loggings

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- 4775 **PERU Radio Tarma** OCX4E Tarma, Junin – 1/14 1026 noted with commentary in Spanish. SIO 212 in AM mode; 222 in SSB mode. (Bueneman-MO)
- 4790 **UNITED STATES WBCQ** – Monticello, *2254-0002 Feb 4, multiple station IDs prior to the opening of the test transmission at 2300 with old time jazz musical selections. Nice station ID at close-down at 2359 but followed by Allan Weiner Worldwide at 0000 but eventually program ended when I was no longer listening. Fair to good reception on this test channel. Nice E-QSL PDF attachment received in less than a day from Bill Tilford (4790info@gmail.com) who is helping coordinate the programming for this new block which officially starts on March 1st. (D'Angelo-PA)
- 4885 **BRAZIL Radio Clube Do Para**, Belem), 0606-0607. Talk in Portuguese by a man and a woman. Poor signal in heavy noise with CODAR interference. 01/26/2022 (Evans - TN)
- 4930 **BOTSWANA Voice of America**, Selebi-Phikwe, 0425-0428. Talk in English by a man and a woman. Weak signal in heavy noise. 02/12/2022 (Evans - TN)
- 4940 **COLOMBIA Radio Montana** Colombia, Maicao or Fuerza de Paz Radio, Arauca. 0609-0615. No ID so not certain who is correct, AOKI/EIBI or WRTH. Spanish language pop music. Weak to moderate signal in heavy noise. 01/26/2022 (Evans - TN)
- 5085 **UNITED STATES. WTWW** in EE. February 18, 0730 – 0745. SIO 343. MX, various POP and show tunes. OM announcer. Continuous MX program. Listenable with minor QRN / QSB. (Henley, WA)
- 5085 **UNITED STATES WTWW** Lebanon, TN 1/5 0739 noted with pop/rock Oldies, "WTWW" mention in promo in English. SIO 434. (Bueneman-MO)
- 5845 **PHILIPPINES BBC** in KK relay via Tinang. February 14, 2022, 1558 – 1600. SIO 444. KK / EE language lesson, ages, numbers, and counting. OM and YL instructors. (Henley, WA)
- 5845 **PHILIPPINES BBC** in KK relay to FE via Tinang. February 17, 2022, 1613 – 1619. SIO 444. YL announcer in KK. Good signal, moderate QRN / QSB. OM joins at 1616. News and commentary. (Henley, WA)
- 5900 **UNITED STATES WRMI** - English, 0100 - 0200 2/13 Texas Radio Shortwave show called the Texas Blues Sampler. It was a nice set of blues tunes. Texas Radio Shortwave seems to do very good shows. Excellent Signal (Majewski CT)
- 5915 **ZAMBIA ZNBC Radio 1**, Lusaka, 0412-0420. African pop music. Talk in vernacular by a man at 0415 followed by more music. Weak to moderate signal in heavy cable/digital noise at my location. Also, some splatter from CRI via Cuba on 5910. 02/12/2022 (Evans - TN)
- 5960 **KUWAIT Radio Kuwait** – Sulaiyah, 0410-0442 Feb 13, tuned in to music followed by two male announcers with Arabic language discussion. Another man began a series of announcements with brief music segments between items. More

- music from 0426 hosted by a man announcer with the feel of a relay of their home service program. Fair reception. (D'Angelo-PA)
- 5960** **TURKEY *Voice of Turkey***, Feb 18 at 2320, VOT English is VG into UTwente, now starting `Feeling Supreme` segment, this time delivered by heavily-accented YL, about ``fat-in-liver disease/syndrome`` which is problematic if over 10%. VG but some hum and by now the usual CCCCCI undercurrent. Signal strength merits max bandwidth of 9 kHz but audio input is still lo-fi ``telco quality`` (Glenn Hauser, OK,)
- 5965** **CHINA *China Radio Int'l*** in RR from Beijing to Siberia. February 17, 2022, 1535 – 1541. SIO 433. YL in rapidly spoken RR, background MX, moderate QRN / QSB. Listenable. (Henley, WA)
- 5985** **MYANMAR *Myanmar National Radio***, 2/4, 2259 Sign on matching sign on recorded at <https://www.youtube.com/watch?v=FKxSmronLkQ> (Brandi-NJ)
- 6050** **ECUADOR *HCJB*** - Pico Pichincha, 0349-0422 Feb 12, woman announcer with Spanish language talk hosting a music program. Flute music at 0400 with a man giving the station ID followed by more vocals. Poor to fair. (D'Angelo-PA)
- 6095** **FRANCE *BBC*** 0345 2-13-21. Male speaking in listed Persian through heavy noise. SIO222. (Cichorek-NJ)
- 6105** **FRANCE *NHK World*** 0342 Pop vocals with female host in Japanese introducing songs. SIO444 (Cichorek-NJ)
- 6125** **TURKEY *Voice of Turkey*** – Emirler, 0424-0451 Feb 2, woman announcer hosting the English program, instrumental music followed by a man announcer introducing the next program consisting of Turkish music and short talks. Nice station ID at 0439 followed by Mailbag program. Fair to good reception. (D'Angelo-PA)
- 6125** **TURKEY *Voice of Turkey***. 6125, Feb 11 at 0430, VOT English is on, S9/+10 into Maryland, modulation OK, no squeal; 0433 a talk about augmented reality. At 0358 direct I feared it would be late or missing, no interval signal yet (Glenn Hauser, OK)
- 6160** **UNITED STATES *WBCQ*** - English, 0016 - 0100 2/14 Radio Tim Tron Int'l show. Tim Tron show number 2022. A show of nice tunes, irreverent humor and Tim Tron's commentary. Very enjoyable Excellent Signal until 0100 and then start to fade badly. (Majewski CT)
- 6165** **FRANCE *NHK Radio Japan*** – Issoudun, 0609-0622 Jan25, woman announcer with Arabic language talk followed by discussion by a man and woman. Fair to good reception. (D'Angelo-PA)
- 6175** **BOTSWANA *Voice of America*** – Moepeng Hill, 0426-0441 Feb 1, man announcer with presumed Shona language talk. Poor to fair. (D'Angelo-PA)
- 6180** **CHINA *CNR 1*** in CC domestic program. February 14, 2022, 1547 – 1554. SIO 433. Jamming Radio Taiwan Int'l on the same frequency. Jamming is effective. Mixed OM and YLs in animated talk. Signal deteriorating with increasing QSB / flutter. (Henley, WA)
- 6180** **CHINA *CNR 1*** in CC to FE. February 17, 2022, 1526 – 1533. SIO 433. Domestic broadcast, possibly Jamming Radio Taiwan Int'l on the same frequency. Mixed announcers, advertisements, and MX. (Henley, WA)
- 6185** **MEXICO *XEPPM Radio Educación*** – Mexico City, 0554-0616 Jan 25, man announcer with Spanish language talk alternating with guitar instrumental music. Another man joined with laughter and discussion. A woman announcer

with announcements and station ID followed by romantic vocals. Fair. (D'Angelo-PA)

- 6190 **CHINA *China Radio Int'l*** in Vietnamese to SEA. February 17, 2022, 1520 – 1526. SIO 222. Mixed OM and YL announcers in Vietnamese. Talk / conversation and background MX. Heavy QRN, steep QSB to JBA. Poor listening overall. (Henley, WA)
- 7220 **CHINA *China Radio Int'l*** in JJ to FE. February 14, 2022, 1539 – 1546. SIO 333. YL announcer, MX with singer in CC. Moderate QRN / QSB. POP MX, then YL returns with monologue in JJ. QRN increasing. (Henley, WA)
- 7290 **TAIWAN (*Tentative*) *Clandestine*** / opposition in KK. February 14, 2022, 1526 – 1539. SIO 444. “Nippon no Kaze” likely from Tanshui, Taiwan targeting North Korea. Soft orchestral MX, YL with impassioned monologue after MX. Echo and flutter on signal. Announcer switch to another YL with a long monologue. Young children join the talk / plea in EE, accusing North Korea of evildoing and abductions. OM joins talk. (Henley, WA)
- 7290 **TAIWAN (*tentative*) *Clandestine Nippon no Kaze*** / opposition. “Nippon no Kaze” in KK February 16, 2022, 1555 – 1558. SIO 444. Orchestral MX, likely from Tanshui, Taiwan. Target is North Korea. Off the air at 1558. (Henley, WA)
- 7290 **TAIWAN (*Tentative*) *Clandestine Nippon no Kaze*** in KK to North Korea. January 31, 2022, 1541 – 1548. SIO 444. Likely broadcast from Tanshui, Taiwan. OM announcer with long monologue using slow, deliberate speech. Moderate QRN / QSB, Listenable. (Henley, WA)
- 7315 **FRANCE R. *Tamazuj*** 0335 2-13-22. Man and woman speaking in listed Juba Arabic with back and forth talk. SIO444. (Cichorek-NJ)
- 7325 **CHINA *China Radio Int'l***/ CGTN in EE to SEA. February 16, 2022, 1547 – 1554. SIO 322. OMs / YLs in vigorous discussion. Noisy signal with heavy QRN and slow QSB to JBA. Anti-American rhetoric and pro-China commentary. (Henley, WA)
- 7355 **SINGAPORE *BBC*** in KK relay via Kranji. February 2, 2022, 1633 – 1640. SIO 444. OM in KK talk with news items and commentary. Moderate QRN / QSB. Listed target is FE. QRN is increasing. YL joins at 1637 and then YL and OM alternate with items. (Henley, WA)
- 7390 **NEW ZEALAND *RNZI*** in EE to Oceania. February 14, 2022, 1442 – 1458. SIO 545. ID as “RNZ National”. Talk of government resources or lack thereof in dealing with COVID-19. There seems to be an argument over pandemic statistics and questionable model results... Folk MX follows, then the news. (Henley, WA)
- 7390 **NEW ZEALAND *RNZI*** in EE to Oceania. February 16, 2022, 1514 – 1535. SIO 555. POP / Rock MX. Excellent signal. YL announcer with MX commentary. Long monologue about MX performers, then more MX. (Henley, WA)
- 7390 **NEW ZEALAND *RNZI*** in EE to Oceania. February 2, 2022, 1429 – 1506. SIO 555. YL announcer, then program switch to BBC relay. Excellent signal. All OMs talking about a special class improvisation. WX report follows with status and forecasts from around the islands. (Henley, WA)
- 7390 **NEW ZEALAND *RNZI*** in EE to Oceania. February 5, 2022, 1510 – 1542. SIO 343. WX reports from around the islands. OM announcer with the weather reports and forecasts. Station ID given as “RNZ National. (Henley, WA)
- 7435 **CHINA *China Radio Int'l***/ CGTN in EE to Southern Africa. February 2, 2022, 1618 – 1630. SIO 232. OM discussing the Russia – Ukraine crisis and the world reaction.

- YL commentator discussion of various possible USA / Russian strategies. (Henley, WA)
- 7435 CHINA *China Radio Int'l*** / CGTN from Jinhua to Southern Africa. February 3, 2022, 1625 – 1633. SIO 333. Talk of Chinese space program, including of a possible manned Mars mission. YL interviewer, OM interviewee. Talk of government versus private sector efforts. “World Today” program. (Henley, WA)
- 7465 SINGAPORE *BBC*** in Pashto relay via Kranji. February 14, 2022, 1642 – 1649. SIO 333. Listed target is Afghanistan. Long dialogue, QRN increasing but otherwise listenable. (Henley, WA)
- 7465 SINGAPORE *BBC*** in Pashto relay via Kranji. February 17, 2022, 1634 – 1641. SIO 333. Target Afghanistan. YL announcers. Heavy QRN, steep QSB to JBA. Multiple YLs and OMSs in conversation. Listenable. (Henley, WA)
- 9400 BULGARIA *Overcomer Ministry***, Sofia / Kostinbrod, 0514-0525. Apocalyptic talk in English by two men. Discussed Revelation-predicted plagues on mankind (Black Death, Spanish flu, etc.) and bio weapons. Moderate strength signal with significant fading. Parallel Okeechobee on 7570. 01/22/2022 (Evans - TN)
- 9420 GREECE *Voice of Greece*** 2220 2-16-22. Program of Greek music with pleasant vocals. Fair to good (Cichorek-NJ)
- 9420 GREECE *Helliniki Radiophonia***, 22:19 GMT, Jan 28, SIO 333, Greek program, light popular music, good to fair with moderate fading. (Fredette-ON)
- 9435 NORTH KOREA *Voice of Korea*** in FF to NAM. February 16, 2022, 1632 – 1642. SIO 333. VOK with YL announcer between MX pieces. Noisy signal from Kujang. Steep QSB to inaudible. Programming is mostly choral singing. (Henley, WA)
- 9440 ASCENSION ISLAND *BBC World Service*** relay – 1/23 0725 noted with commentary in French. SIO 323. (Bueneman-MO)
- 9510 ITALY *Voice of America*** 0331, 2-13-22. Male speaking in listed Somali with faint music in background. SIO333 (Cichorek-NJ)
- 9520 CHINA *PBS Nei Menggu***, Hohhot 839, 2336-2341. Talk in Chinese by a man and a woman. Weak to moderate signal, improving over time. 01/29/2022 (Evans - TN)
- 9525 CLANDESTINE *Dengê Welat*** – Grigoriopol, 1315-1417 Feb 12, Kurdish vocals until man gave a long talk in the Kurdish language. Non-stop music programming until 1400 when a woman announcer took over with the news. Fair signal. (D’Angelo-PA)
- 9535 CLANDESTINE *Radio Ndarason Int'l*** via Ascension Island – 1/23 0735 noted with commentary in Kanuri. SIO 323. (Bueneman-MO)
- 9565 CUBA *R Havana Cuba*** 2210 2-16-22. Lively Cuban vocals with talk in between songs. Very good, armchair copy. (Cichorek-NJ)
- 9645 VATICAN CITY *Vatican Radio*** via Santa Maria di Galeria – 1/23 0740 noted with Liturgy in Ukrainian. SIO 323. (Bueneman-MO)
- 9665 NORTH KOREA *KCBS*** Pyongyang in KK. February 16, 2022, 1625 – 1631. SIO 232. Domestic program. Choral singing. YL announcer between MX pieces. Overall poor. (Henley, WA)
- 9666 BRAZIL *Radio Voz Missionaria***, Camboriu, 0547-0550. Up-tempo vocal music in Portuguese. Poor to moderate strength signal with major fading. 01/26/2022 (Evans - TN)

- 9680 **ZAMBIA *Voice of Hope Africa***, Lusaka (VOH), 0551-0553. Talk in English by a man. Threshold level signal, only occasionally audible above the noise. 01/26/2022 (Evans - TN)
- 9690 **SPAIN *Radio Exterior de España***, 22:21 GMT, Jan 28, SIO 544, Spanish program, man and woman speaking. Very strong signal, clear with minor fading. (Fredette-ON)
- 9690 **TAIWAN (Tentative) *Clandestine Furusato no Kaze*** in JJ. February 5, 2022, 1623 – 1630. SIO 343. Likely broadcast from Tanshui in Taiwan. Target is North Korea. YL announcer with soft MX. Steep QSB, YL continues with monologue after the MX. YLs singing in JJ. Off air at 1630. (Henley, WA)
- 9690 **SPAIN *REE***, Wed Feb 16 at 2307, token REE English is not off the air but VG S9+15/27 into Maryland SDR. After news, feature about a ``ghost village`` uncovered in a draining reservoir; 2310 about Gala cinema awards in Valencia, not in Castilian. Shortly retune to TURKEY, q.v. (Glenn Hauser-OK)
- 9800 **PHILIPPINES *Voice of America***, Tinang, 2025-2027. Talk in Korean by a woman. Moderate strength signal with minor fading. 02/03/2022 (Evans - TN)
- 9830 **CHINA *CNR 1*** from Beijing. Domestic broadcast. February 3, 2022, 1617 – 1623. SIO 333. OM with long monologue, MX clips. Heavy QRN, steep fluttery QSB. Listenable with difficulty. YL singer with CC MX. YL announcer joins at 1621. (Henley, WA)
- 9880 **THAILAND *Voice of America*** relay Udon Thani – 1/26 0038 noted with commentary in Chinese. SIO 323. (Bueneman-MO)
- 9899 **EGYPT *Radio Cairo***, Abis (Presumed), 1840-1850. Moderate strength carrier heard with very, very faint audio sounds. Possibly music, but could have been just tones. Presumed to be another failed transmission from Cairo. 02/04/2022 (Evans - TN)
- 9899 **EGYPT *R. Cairo*** Feb 18 at 2115 via UTwente, certainly R. Cairo on signature off-frequency, and signature extremely distorted but not suppressed modulation. Should be in English, but my brain cannot lock onto it as English, or Arabic, but what? Intonation seems more like Russian, maybe, which is an RC language but scheduled at 19-20 on 9510. I cannot recognize a single word in any known language. At 2130, there is a 5+1 time signal, more talk, non-English? By 2222 maybe I can make it English; at 2242 maybe utters ``goodbye``, music; 2144.5 tone to 2245* (Glenn Hauser, OK,)
- 9900 **EGYPT *R. Cairo*** 2203 2-16-22. Woman with probable news in listed English but poorly modulated and not totally understandable. Poor (Cichorek-NJ)
- 9900 **EGYPT *Radio Cairo***, 22:24 GMT, Jan 28, SIO 412, English program, strong signal but very distorted audio as to be unintelligible. They need to work on their Transmitters. (Fredette-ON)
- 9935 **NORTHERN MARIANAS *Voice of America*** in KK relay via Saipan. February 14, 2022, 1650 – 1656. SIO 233. Conversation in KK. MX. Poor, weak signal. VOA ID. Target is FE. There is some co-channel QRM from a late Brother Stair ranting sermon. QRN increasing, overall poor. (Henley, WA)
- 9980 **UNITED STATES *WWCR*** religious program in EE from Nashville, TN. January 25, 2022, 1544 – 1552. SIO 322. OM rant against every other religious denomination except his own. Anti- Catholic, anti- Protestant. The end of times and the Anti-Christ are coming. Demented fire and brimstone rant, target NAM. (Henley, WA)

- 11610 **MADAGASCAR *World Christian Broadcast***, the light of the world, 21:27 GMT, Jan 25, SIO 434, Chinese program, Man speaking. Good signal, clear, moderate fading. (Fredette-ON)
- 11610 **UNITED KINGDOM *Voice of America*** in Somali relay via Woofferton. February 1, 2022, 1639 – 1645. SIO 233. VOA target is East Africa. Noisy signal. Listenable with difficulty. Mixed OM and YL announcers. Increasing QRN / QSB. (Henley, WA)
- 11640 **MALI *China Radio Int'l***, 21:30 GMT, Jan 25, SIO 434, English program, woman speaking, Discussion on Confucius philosophy and morality, god signal, moderate fading. Cut off at 21:31. (Fredette-ON)
- 11680 **ZAMBIA *Voice of Hope Africa*** – Makeni Ranch, 0410-0427 Feb 12, man singer with religious vocal selection followed by a woman with “Living by Faith” feature from Our Daily Bread Ministries. After another religious vocal selection, a man announcer gave the station ID (“From Zambia Africa, this is the Voice of Hope”) followed by more religious vocal selections, Fair signal. (D’Angelo-PA)
- 11685 **SPAIN *Radio Exterior España*** – Noblejas, 2302-2317 Feb 11, tuned in to a man announcer reading the news in English with many items about Spain. Fair to good signal. (D’Angelo-PA)
- 11690 **CLANDESTINE *Radio Erisat*** - Talata Volonondry, 183901859* Feb 16, man announcer with talks in the listed Tigrinya language followed by brief vocal segment before another talk. Seemingly, close down at 1857 with nice flutes and drums with closing announcements. Some jamming noted so only poor to fair. (D’Angelo-PA)
- 11690 **MADAGASCAR *Radio ERISAT***, Talata Volonondry, 1850-1858. Initially only a strong carrier. Audio abruptly appeared at 1853 with Horn of Africa vocal music. Abrupt disappearance of both audio and carrier at 1858. 02/04/2022 (Evans - TN)
- 11710 **NORTH KOREA *Voice of Korea*** in FF to NAM. February 17, 2022, 1625 – 1631. SIO 333. YL announcer between MX pieces, mostly orchestral and choral MX. QSB to JBA. QSB to JBA. (Henley, WA)
- 11735 **JAPAN *NHK Radio Japan*** in JJ to SEA. February 14, 2022, 1657 – 1700. SIO 232. YL announcer with monologue. Background MX. Heavy QRN / QSB. Poor. From Yamata. Contact information given, time pips at TOH, then off the air at 1700. (Henley, WA)
- 11769 **NIGERIA *Voice of Nigeria*** – Abuja Lugbe, 1927-1930* Jan 30, man announcer talking in the listed Fulfulde language followed by flute music. Another man with station ID prior to carrier being terminated. Not sure if close down or just engineering problem. Poor to fair. (D’Angelo-PA)
- 11780 **BRAZIL *Radio Nacional da Amazonia***, 21:33, Jan 25, SIO 434, Portuguese program, man and woman speaking, good signal, clear, moderate fading. (Fredette-ON)
- 11780 **BRAZIL *Radio Nacional da Amazonia*** Domestic broadcast in PP. February 1, 2022, 2342 – 2348. SIO 555. OM announcer with news and commentary. Strong, clear signal. Easy listening. YL follows OM with MX clips. OM singer in PP with Latin MX. (Henley, WA)
- 11790 **GERMANY *Bible Voice Broadcast*** in Oromo via Nauen to East Africa. February 1, 2022, 1627 – 1637. SIO 333. OM with commentary, and African MX. Broadcast origin is Canada. Talk in Oromo as listed. Listenable. (Henley, WA)

- 11790 **CHINA *China Radio Int'l*** / CGTN Radio in EE to SEA. February 1, 2022, 2349 – 2354. SIO 433. Mixed OMs and YLs in discussion focused on the Chinese economy and trade. (Henley, WA)
- 11810 **ASCENSION ISLANDS *BBC***, 21:35, Jan 25, SIO 434, English program, female speaker. Discussion on Australian theater program regarding their first indigenous people. Strong signal, clear, moderate fading. (Fredette-ON)
- 11815 **BRAZIL *Radio Brasil Central*** – Goiânia, 0155-0237 Feb 18. Nice program of popular music vocals hosted by a man announcer with Portuguese language talk and announcements. Fair signal. (D'Angelo-PA)
- 11825 **PHILIPPINES *BBC*** in EE to Indonesia via Tinang. February 1, 2022, 2342 – 2348. SIO 333. YLs in EE discussing COVID, its impact, prevention, and treatments. Various interviewees talking about their experience with COVID-19. (Henley, WA)
- 11830 **FRANCE *Deutsche Welle*** in Amharic, relay via Issoudun to East Africa. February 16, 2022, 1617 – 1624. SIO 233. OM and YL announcers. Noisy signal. Listenable with difficulty. (Henley, WA)
- 11930 **UNITED STATES *Radio Marti*** in SS. February 17, 2022, 1621 – 1625. SIO 222. Weak signal, heavy QRN, steep QSB to inaudible after 1624. This is poor listening for Radio Marti. Mixed announcers. (Henley, WA)
- 11955 **GUAM *Adventist World Radio***, Agat, 2238-2242. Talk in Indonesian by a woman followed by vocal music. Weak signal, just above noise level, with minimal fading. Also heard slightly weaker on 12040 with music and talk in Javanese. 02/05/2022 (Evans - TN)
- 11975 **MALI *China Radio Int'l***, 21:38 GMT, Jan 25, SIO 444, French program, female speaker, News on Ukraine and its problems followed by news on relief efforts for Tongo after volcanic eruption. Strong signal, very clear with moderate fading. (Fredette-ON)
- 12075 **BOTSWANA *Voice of America***, 21:42 GMT, Jan 25, SIO 444, Bambara program, man interviewing another man, strong signal, very clear, moderate fading. (Fredette-ON)
- 12095 **ASCENSION ISLANDS *BBC***, 21:44 GMT, Jan 25, SIO 333, English program, woman-interviewing man, discussion on theater group in Australia and issues with indigenous people. Good to fair with moderate fading. (Fredette-ON)
- 13630 **MALI *China Radio Int'l***, 21:23 GMT, Jan 25, SIO 434, English program, female announcer discussing Confucius thought and sayings along with moral actions. Strong clear signal with moderate fading. (Fredette-ON)
- 13630 **MALI *China Radio Int'l***, 22:04 GMT, Jan 28, SIO 333, French program, man and woman speaking on industrialization in China, good signal, moderate fading. (Fredette-ON)
- 13630 **MAL *China Radio Int'l***, Bamako II, 1953-1957. Traditional Chinese music. ID and schedule in Portuguese by a man at 1954 followed by music. Program ended at 1957. 02/03/2022 (Evans - TN)
- 13750 **THAILAND *Radio Thailand*** – Udon, 0023-0029* Feb 15, man announcer with Business News in the English language followed by station ID and a woman with promotional announcements. Fair. (D'Angelo-PA)
- 13760 **FRANCE *Radio France Int'l*** – Issoudun, 1913-1938 Jan 30, two men in a discussion in the French language. Fair to good signal but periodic deep fades marred reception. (D'Angelo-PA)

- 13820 UNITED STATES *Radio Marti*** from Greenville, NC in SS. February 16, 2022, 1539 – 1544. SIO 433. OM with long monologue in SS. Target is Cuba. Steep QSB to JBA, moderate QRN. Signal is fading as the sun rises here. (Henley, WA)
- 13845 UNITED STATES *WWCR 3*** religious broadcast in EE. February 14, 2022, 1521 – 1526. SIO 222. OM preacher with sermon and congregation participation. Poor, weak and noisy signal. Listenable with difficulty. Possibly a following of the late Brother Stair, or at least a similar style of rant preaching. (Henley, WA)
- 15105 BOTSWANA *TWR Africa***, 19:52 GMT, Jan 28, SIO 434, Lingala program, Man speaking, good signal, very clear, minor fading. (Fredette-ON)
- 15105 SWAZILAND *TWR Africa***, Manzini, 1933-1935. Religious music. Talk in Lingala by a man and a woman. Moderate signal strength with minor fading. 01/29/2022 (Evans - TN)
- 15120 ASCENSION ISLAND *Voice of America***, 21:54 GMT, Jan 28, SIO 434, Bambara program, man interviewing another man along with a woman. Good signal, very clear, minor fading. (Fredette-ON)
- 15215 GUAM *KSDA*** Feb 14 at 2226, vocal SE Asian music, S5/S2, best if not only signal from west on mostly vacant band; it's KSDA amid Vietnamese hour, beamed even further west from Agat. One can only wonder how 7DA meshes or conflicts with Vietnamese culture, as well as it's countless other targets (Glenn Hauser, OK,)
- 15580 BOTSWANA *Voice of America***, Selebi-Phikwe, 1941-1942. Political talk in English between two men. Moderate strength signal with minimal fading. 01/29/2022 (Evans - TN)
- 15770 UNITED STATES *WRMI*** - English, 2100 - 2130 2/6 The Memphis Weirdo show with a bunch of different and nice music. Talked about the Memphis music scene. Very enjoyable Excellent signal (Majewski CT)
- 17630 MALI *China Radio Int'l***, 15:38 GMT, Dec 22, SIO 433, English program, man and woman discussing clothing and fashion trends and shops that provide specific type of clothes along with New York trends. Intermittent interference used USB. (Fredette-ON)
- 21630 ASCENSION ISLANDS *BBC***, Feb 18 at 1557, S4/S5 open carrier, 1558 Bow Bells, i.e. BBC about to open one hour only of English aimed 114 degrees at half power 125 kW per HFCC (Glenn Hauser, OK,)
- 21690 FRANCE *Radio France Int'l***, 15:36 GMT, Dec 22, SIO 333, Swahili program, two men speaking, good with moderate fading. (Fredette-ON)

NASWA Electronic Flashsheet: Are you getting the latest hot information about what is happening on the shortwave bands? If you have not signed up for the club's electronic Flashsheet service, you are missing out on timely news and information about the DX scene that will enhance your shortwave listening pleasure. If you are a current member of the club and want to receive the electronic Flashsheet, just drop Rich Cuff (hq@naswa.net) a note with your e-mail address, location and membership expiration date from your mailing label. You can participate by sending your latest logs to the electronic Flashsheet edited by Mark Taylor, markokpik@gmail.com. The club's electronic Flashsheet helps members stay on top of the action with breaking shortwave news and information. The electronic newsletter is an excellent supplement to the monthly Journal for the timely dissemination of DX loggings and breaking news. 



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<www.ontheshortwaves.com> Update, February 6, 2022 -- **X-Band-I**. Even a non-BCB DXer could enjoy tuning and QSLing the new "X-Band" (extended AM band) in the years following its late-1995 startup. Follow the red "New" to "DX History-I/Recordings/Compilations/X-Band-I" and you will find recordings from stations in Alabama through Maryland, heard in Massachusetts on an R8A and a longwire (no fancy antennas, phasers, etc.). ID locations are in brackets [:47] except where they are obvious. The stations: **WEUP**, Huntsville, AL (1700 kHz, 2000) [:09]; **WPHG**, Ardmore, AL (1620, 1998) [:08, 1:00]; **KGSL**, Costa Mesa, CA (1650, 1997) [:19, 1:12]; **WCMQ**, Miami, FL (1700, 1997); **WMIB**, Marco Is., FL (1660, 1999); **WTIR**, Winter Garden, FL (1680, 1999); **WAWX**, Augusta, GA (1630, 2000) [:07]; **WAXP (WNML)**, Warner Robins, GA (1670, 1998) [1:01. 1:22]; **KBGG**, Des Moines, IA (1700, 1998) [:09]; **KCJJ**, Iowa City, IA (1630, 1998) [:08]; **KCNZ**, Cedar Falls, IA (1650, 1998) [:24, :56, 1:07, 1:18, 1:35]; **WHLY**, South Bend, IN (1620, 1998) [:21]; **KTRK**, Ft. Meade, MD (1670, 1996); and **WMDM**, Lexington Park, MD (1690, 1998). There is also a file containing QSLs from these stations (except WEUP), plus four others: **KXBT**, Vallejo, CA (1640, 1996); **KAYK**, Englewood, CO (1690, 1998); **WSWK**, Atlanta, GA (1690, 2004); and **WRLL**, Chicago, IL (1690, 2003). More next time. -- And in "Specialized Resources/The DX Recordings of Tetsuya Hirahara," 11 new recordings from Peru.

<www.ontheshortwaves.com> Update, February 13, 2021 -- David H. Henderson of Wheeling, West Virginia, listening in the mid-1930s, must have been pretty happy with his replies from Angola and Mozambique. Look for them under "DX History-I/QSLs & Other Station Memorabilia/Countries/Angola & Mozambique." CR6AA, located in Lobito, was Angola's first shortwave broadcaster. In 1935 they sent David the letter and ham-style QSL shown in the file's first two images. Two years later David received a second QSL from the station--the folding card, with the studio and transmitter pictures on the front and some light handwriting on the back. Portuguese colonial station CR7AA was likewise the first shortwave broadcaster in Mozambique, and from them David had a card and a form letter. The frequency was 6137 kHz with a parallel channel on 11718. QSLs from Angola and Mozambique continued to be highly prized right up to the independence of both countries in 1975, and after.

<www.ontheshortwaves.com> Update, February 20, 2022 -- **X-Band-II**. Under "DX History-I/Recordings/Compilations/X-Band-II," you will find recordings of these early extended AM band stations in Michigan through Wisconsin. ID locations are in brackets [:47] except where they are obvious. The stations: **WJNZ**, Grand Rapids, MI (1680 kHz, 1998) [:32, :50, 1:13]; **WQSN**, Kalamazoo, MI (1660, 1998); **WBAH**, Elizabeth, NJ (1660, 1998) [:12]; **WJDM**, Elizabeth, NJ (1660, 1995) [1:17]; **WTTM**, Princeton, NJ (1680, 1999) [:22]; **KUSA**, Las Vegas, NV (1660, 1995); **KALT**, Texarkana, TX (1610, 2001) [:17]; **KQXX**, Brownsville, TX (1700,

1999); **KTBK**, Sherman-Denison, TX (1700, 1999) [:18]; **WTAW**, College Station, TX (1620, 2000) [:12]; **WHKT**, Portsmouth, VA (1650, 1999); **WKSH**, Sussex, WI (1640, 1998) [:29, :43]; and **WTDY**, Madison, WI (1670, 1998) [:04]. And here is a file containing QSLs from these stations (except WBAH and KALT); plus one other (for which I do not have a recording): **KKWY**, Cheyenne, WY (1630, 2002). -- And in "Specialized Resources/The DX Recordings of Tetsuya Hirahara," we have posted five new recordings from Peru.

NASWA E-group at Groups.io: Join moderator Dan Ferguson, the club's e-mail based E-group, and other club members to discuss reception of shortwave radio broadcasts, program content, propagation, reception conditions, loggings, hot news and information as well as radio equipment and accessories and any topics related to shortwave radio in general. Please keep in mind that loggings, QSL news, schedule changes should also be reported to the appropriate column editor of the Journal for publication. This forum is a supplement to, not a replacement of, The Journal. Subscribe by going to <https://groups.io/g/NASWA>. Any club members wishing to participate in the NASWA E-group at Groups.io, moderated by Dan Ferguson (k4voa@zerobeat.org), but not interested in registering direct with Groups.io should contact Dan direct by e-mail for further information. Dan can manually add you to the group.



NASWA Facebook Page: Join moderator Richard Murphy < rm271828@gmail.com > at the club's Facebook page which provides members with another way to keep in touch. This group is intended for social interaction between the club members and will not be used to publish loggings, articles, or other materials that would normally appear in The Journal, the NASWA E-group at Groups.io, or the Flashsheet. While the existence of the group is visible to all Facebook users, the online postings are available only to group members and group members must be NASWA members. Comments and suggestions from the membership are welcome. To locate the NASWA Facebook page, log into your Facebook account and then enter "North American Shortwave Association" into the Facebook search box at the top of the page. If you are into social media, give it a try.



Index

Key: the number in parentheses is the month number of the issue in this year.

- Antenna
 - vertical
 - (3), 15
- Book
 - WRTH
 - (3), 4, 24, 25, 26, 27, 28, 29, 31, 33, 35, 36, 37, 43
- Broadcaster
 - ABC (Australian Broadcasting Corp)
 - (3), 22
 - BBC
 - (3), 8, 12, 25, 36, 43, 44, 45, 46, 49, 50
 - VOA
 - (3), 12, 22, 23, 47, 48
- Column
 - Loggings
 - (3), 3, 42, 56
 - Musings
 - (3), 3, 5, 56
- Correspondence
 - eQSL
 - (3), 25, 34
 - QSL
 - (3), 7, 8, 25, 31, 34, 36, 37, 41, 43, 51, 56
- Country
 - ABKHAZIA (Georgian S.S.R.)
 - (3), 24
 - ALASKA
 - (3), 24
 - ARMENIA (Armenian S.S.R.)
 - (3), 24
 - ASCENSION ISLAND
 - (3), 46, 49, 50
 - AUSTRALIA
 - (3), 24
 - AUSTRIA
 - (3), 25
 - BOTSWANA (Bechuanaland)
 - (3), 43, 44, 49, 50
 - BRAZIL
 - (3), 25, 43, 46, 48, 49
 - BULGARIA
 - (3), 25, 46
 - CHILE
 - (3), 26
 - CHINA, PEOPLE'S REP.
 - (3), 26, 44, 45, 46, 47, 49
 - COLOMBIA
 - (3), 29, 43
 - CUBA
 - (3), 29, 46
 - DENMARK
 - (3), 29
 - ECUADOR
 - (3), 44
 - EGYPT
 - (3), 47
 - ENGLAND
 - (3), 29
 - ESWATINI (Swaziland)
 - (3), 29
 - FRANCE
 - (3), 30, 44, 45, 49, 50
 - GERMANY, FED. REP.
 - (3), 30, 48
 - GREECE
 - (3), 30, 46
 - GUAM
 - (3), 30, 49, 50
 - INDIA
 - (3), 31, 32
 - IRAN
 - (3), 32
 - ITALY
 - (3), 46
 - JAPAN
 - (3), 33, 48
 - KOREA, DEM. PEOPLE'S REP.
 - (3), 46, 48
 - KOREA, REP.
 - (3), 33
 - KUWAIT
 - (3), 43
 - MADAGASCAR
 - (3), 34, 48
 - MALAYSIA (Malaya)
 - (3), 34
 - MALI (French West Africa)

(3), 48, 49, 50
MEXICO
(3), 44
MOLDOVA (Moldavian S.S.R.)
(3), 34
MYANMAR (Burma)
(3), 34, 44
NETHERLANDS
(3), 34
NEW ZEALAND
(3), 34, 45
NIGERIA
(3), 34, 48
NORTHERN MARIANAS, COMMONWEALTH
(3), 47
PERU
(3), 34, 43
PHILIPPINES
(3), 35, 43, 47, 49
ROMANIA
(3), 35
RUSSIAN FED. - EUROPEAN (European R.S.F.S.R.)
(3), 35
SINGAPORE
(3), 45, 46
SOLOMON ISLANDS
(3), 35
SPAIN
(3), 47, 48
SRI LANKA (Ceylon)
(3), 35
SWAZILAND
(3), 50
TAIWAN (China)
(3), 45, 47
TAJIKISTAN (Tadzhik S.S.R.)
(3), 36
THAILAND
(3), 36, 47, 49
TURKEY
(3), 44, 47
UNITED ARAB EMIRATES
(3), 36
UNITED KINGDOM
(3), 36, 48
UNITED STATES OF AMERICA
(3), 36, 43, 44, 46, 47, 49, 50
UZBEKISTAN (Uzbek S.S.R.)
(3), 37
VANUATU (New Hebrides)
(3), 37
VATICAN CITY
(3), 37, 46
VIETNAM

(3), 37
ZAMBIA (Northern Rhodesia)
(3), 38, 43, 47, 48
Events
Winter SWL Festival
(3), 4
Language
Arabic
(3), 29, 30, 31, 32, 33, 43, 44, 45, 47
Chinese
(3), 24, 26, 31, 32, 35, 46, 47, 48, 49
English
(3), 4, 7, 8, 11, 22, 24, 25, 26, 27, 29, 30, 31, 32, 33,
34, 35, 36, 37, 38, 43, 44, 46, 47, 48, 49, 50
French
(3), 31, 32, 36, 37, 46, 49
German
(3), 6, 7, 8, 25, 30, 33, 37
Hausa
(3), 32, 33, 34
Hindi
(3), 24, 34
Italian
(3), 33, 41
Japanese
(3), 24, 25, 26, 28, 35, 44
Korean
(3), 26, 28, 33, 47
Portuguese
(3), 37, 43, 46, 48, 49, 51
Russian
(3), 11, 12, 24, 30, 33, 35, 39, 46, 47
Spanish
(3), 7, 23, 29, 30, 33, 34, 37, 43, 44, 46, 47
Swahili
(3), 31, 32, 38, 50
Turkish
(3), 27, 32, 33, 44
Urdu
(3), 24, 32
Mode
AM
(3), 15, 17, 19, 34, 35, 38, 39, 40, 41, 43, 51
DRM
(3), 11, 15, 16, 17, 29, 31, 34
FM
(3), 10, 19, 20, 22, 23, 34, 35
LSB
(3), 39
SSB
(3), 19, 20, 35, 43
USB
(3), 38, 39, 40, 50
Organization

EDXC	(3), 23
(3), 5	Hammarlund
HFCC	(3), 5, 20, 21
(3), 27, 30, 33, 34, 37, 50	SDR
NASWA	(3), 5, 11, 12, 36, 37, 47
(3), 6, 56	Station type
Publication	Clandestine
Flashsheet	(3), 45, 47
(3), 56	Pirate
Receiver	(3), 3, 35, 56
Drake	

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