

The **NASA** Journal

VOLUME LXII NUMBER 5

MAY 2022



CONFIRMATION

We thank you for your reception report and have pleasure in confirming that this is in accordance with our scheduled program.

Date: 27. TH. FEB. 1973.

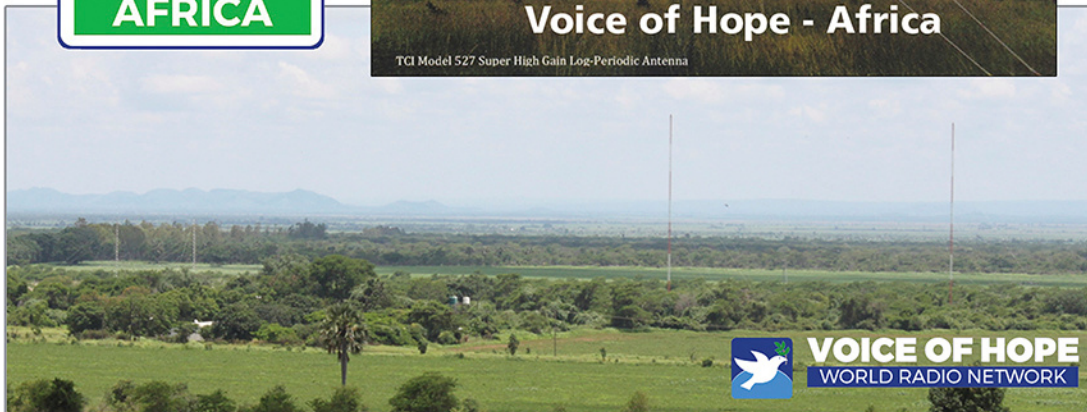
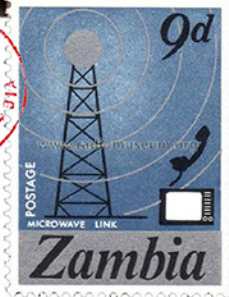
Time: 20:25-21:05 GMT

Frequency: 17.895 KHz

Programme: MUSIC AND POINTS OF VIEW

Remarks: PLEASE INFORM US AGAIN OF OUR RECEPTION

F.C. MUEBWA
for Chief Engineer,
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New for '22



WORLD RADIO TV HANDBOOK 2022

This long established publication is filled with schedules, frequencies and addresses of shortwave broadcast stations. Organized primarily by country. Also includes a by-frequency listing of shortwave broadcast stations. Plus interesting articles, maps and reviews. 76th Edition. ©2021 672 p. List \$49.95.
#2022 \$47.95



WORLDWIDE LISTENING GUIDE

By J. Figliozzi. This book covers all of today's formats: live on-demand, podcast, satellite, internet, digital, analog, AM, FM, shortwave and wi-fi. Learn what can be heard how, where and when! Spiral bound 10th Ed. 168 p. ©2021. List \$29.95.
#0110 \$27.95



2022 SHORTWAVE FREQUENCY GUIDE

By J. Klingentuss. This guide has 4,000 shortwave broadcast listings by frequency and includes 9,000 abbreviated entries from *Guide to Utility Stations 2021-22*. You get great coverage of broadcast and utility stations in one up-to-date book! 26th Ed. 350 p.
#0061 \$59.95



A Family Affair - The R.L. Drake Story

The behind-the-scenes story of the famous R.L. Drake Company, focusing on the glory days, when Drake was king in amateur radio. Also includes 150 pages of circuit modifications for Drake radios! 300 pgs. ©2000.
#1487 ~~\$29.95~~ Sale! \$21.99



Genuine Plastic Radios of the Mid-Century

A beautiful hardcover book with 439 color photos and values. ©1998 Schiffer 208 p. List \$39.95.
#3086 Sale! \$19.98



Transmitters, Exciters & Power Amps 1930-1980

By R. S. Moore. Over 550 transmitters from 118 companies are featured in this excellent reference with 470 photos. Includes, years produced, price new, bands, modes, power and tubes. ©1996 RSM 144 pages.
#0338 ~~\$24.95~~ Sale! \$13.98



Classic Favorites

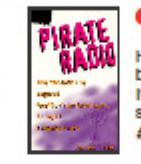
Shortwave Receivers Past & Present 1942-2013

Fourth Edition By Fred Osterman
A comprehensive guide to over 1700 shortwave communications receivers and 1200 variants manufactured from 1942 to 2013 by 370 manufacturers in 40 countries. Over 1800 photographs are presented in this 800 page hardcover book. ©2014. Fourth Edition.
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King of the Satellites - Six Five O By Thomas Baler

Half off special!
Clearly the famous Satellit 650, was the "king" of the entire Grundig Satellit line. Over 100 pictures are featured in this 80 page book. Learn about variants, production numbers, disassembly, adjustments, bulb replacement and more. Includes full Owner's Manual and schematics. ©2007.
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Pirate Radio By Andrew Yoder

Includes an audio CD!
Here is the incredible saga of America's underground, illegal broadcasters. From early pirate broadcasting to current times. It's all here. 326 p. Includes an audio CD with segments from some of the most famous, infamous and notorious pirates.
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Discover DXing! By John Zondo

Third Edition
A great introduction to DXing the AM, FM and TV bands. Includes: propagation, seasonal conditions, equipment, antennas, reference materials, best bets for hearing 50 states on AM, plus FM and TV information and tips.
#0009 \$6.95



Guide to Utility Stations By Joerg Klingentuss

2021-2022 Edition
Simply the best guide to non-broadcast stations. Nearly 10,000 frequencies 0-30 MHz for CW, SSB, AM, RTTY and FAX. Fully updated every two years. 31st Edition ©December 2020. 550 pages.
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Listening to Longwave By Kevin Carey

Your Introduction to the fascinating *basement band* of the radio spectrum. Includes: who is on the air, LW reception equipment, listening tips, sounds of nature: Whistlers, Tweaks, Dawn Chorus and other radio atmospheric, navigation beacons, time stations, broadcasters, NAVTEX and Lower band. 98 pages.
#0024 \$6.95



Joe Carr's Loop Antenna Handbook By Joe Carr

Here is a comprehensive, but readable guide to understanding and building loops for longwave, medium wave, shortwave and VHF. Loop antennas can be very effective, even if you have limited space and a tight budget.
#0016 ~~\$49.95~~ Sale! \$14.90



E. H. Scott - Dean of DX By Marvin Hobbs

During the golden age of radio, one man, E.H. Scott, set the highest standards for radio receiver performance, innovation and quality. The story of Scott and his Company as related by Hobbs, Scott's Chief Engineer from 1939-1947. 2nd Ed. 240 pgs. ©2004.
#0754 ~~\$29.95~~ Sale! \$19.98



Buying A Used Shortwave Receiver By Fred Osterman

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.
#0444 \$5.95



Universal Radio, Inc.
752 N. State St. Unit 222
Westerville, Ohio 43082

614 866-4267 Telephone
dx@universal-radio.com
www.universal-radio.com

www.RFfun.com or
www.universal-radio.com

- Prices and specs. are subject to change.
- Returns subject to a 15% restocking fee.
- Informative equipment archive on website.
- Special Note: We no longer have a showroom, but we ship Monday through Friday.

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In This Issue

NASA Notes	4
Musings.....	5
Listening Review	7
International Broadcasting.....	13
Shortwave Center.....	15
The Robinson Report.....	25
Listener's Notebook.....	27
Pirate Radio Report.....	40
Contributors' Page.....	44
Loggings.....	45
Publisher's Corner	51
On the Short Waves.....	52
Index.....	54

NASWA Notes

Richard A. D'Angelo • 2216 Burkey Drive • Wyomissing, PA 19610 • rdangelo3@aol.com



Over the years, I have mentioned our local NASWA Reading Area DX'ers group that meets on a monthly basis at some of the finer local eating establishments. Naturally, the pandemic curtailed many of our restaurant-based gatherings but we did continue to meet monthly utilizing the Zoom platform and periodically on the covered porch of Ron and Jana Hunsicker's home. Shortly after our March Zoom gathering one of our regulars, Germaine Ledoux, suddenly passed away. Within a couple of weeks, her husband Tom passed away. Naturally, the sudden and unexpected passing of two of our regulars stunned the group. The above

picture features Germaine and Tom at the Hunsicker's place for the "Red Noses and Floppy Feet" winter picnic gathering on 20 January 2018 during happier times (I still have a couple of those noses in my desk drawer). Rest in Peace!

Anker Petersen informs us that the new 24th edition of the Domestic Broadcasting Survey ("DBS-24") can now be downloaded free of charge from www.dswci.org/dbs/. The DBS-24 includes the 50th annual edition of the Tropical Bands Survey. A direct link: <http://www.dswci.org/dbs/dbs/dbs24.pdf>. Although the tropical bands and the


Unity and Friendship

domestic broadcasting stations utilizing the shortwave spectrum is diminishing, this is the best way to keep track of the action. Anker prepared this for many years while the Danish Shortwave Clubs International was still operating. He continues to undertake the arduous task of updating these valuable resources. Thanks Anker!

On April 11th, Chrissy Brand and Christian Ghibardo announced the cancellation of the European DX Council Conference scheduled for May in Bucharest, Romania from May 20-22, 2022. With just a few weeks to go, there were not enough delegates signed up to make it viable to hold a conference. This is, perhaps, understandable with people concerned about travel due to Covid-19, plus the war in neighboring Ukraine. They plan to arrange another Zoom meeting for EDXC members and the wider DX community, with speakers, in a few months' time.

This month we return to the world of currently active shortwave radio countries

with this our current cover. John Herkimer takes us to Zambia where two shortwave stations currently can be heard although one takes considerable effort. Zambia National Broadcasting Corporation can still be heard on 5,915 kHz usually between 0100-0400 UTC although nominal sign on times vary with the famous fish eagle interval signal opening the transmission day. The Voice of Hope Africa runs a service that opens at 0400 UTC on 9,680 kHz and 11,680 kHz which can usually be heard in North America. Other times and frequencies do exist for this station so be sure to check Listeners Notebook for the latest operating news for either station. The latter is a very good verifier of listener reception reports while the former is a difficult station to obtain a verification from these days.

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

Musings

Jerry Lineback • 4422 Sierra Del Sol • Paradise, CA 95969-8116 • jalinebk@gmail.com

Please e-mail your Musings, preferably as MS Word attachments, to jalinebk@gmail.com or mail to Jerry Lineback, 4422 Sierra Del Sol, Paradise, CA 95969-8116. Please note that the deadline for contributions to the June issue is May 25, 2022.

Jerry Alice Lineback, jalinebk@gmail.com, Paradise, CA

I am still going to physical therapy and my spouse has regular medical and physical therapy appointments, so it keeps us busy, meanwhile, I am trying to get caught up on housework and maintenance jobs that I missed out on the past three months. In other words, back to normal, more or less.

Lots of solar activity this Solar Cycle affecting propagation. Used to be the times for exotic catches. If anyone is keeping track of such things, please consider contributing to this column.

73, Jerry Alice

Edward Cichorek, ejc82@comcast.net, Somerset, NJ

While cleaning up the shack recently, I paused to look through some of my QSL verifications from the past and I started to think about how this all started. Fall back to 1962 when a curious teenager riding his bike through the neighborhood stopped to watch a fellow, a few years older than me, string up a wire in his back yard. I soon found out that this was an antenna for this shortwave radio. He and his dad invited me in to see his "Shack". The radio was a Hammarlund. I forget the model, but it was huge and impressive. Sitting there, I heard all manner of talk, music and static coming out of the speaker. I was immediately fascinated. Much to my surprise, this fellow offered to lend me a Knight Kit Space Spanner, a three-tube regenerative receiver, to try out at home. This was my introduction to this wonderful hobby.

The next year I convinced my mother that I was interested enough to make the leap and own my own receiver. My choice from the Allied Radio catalog was a Gonset GR-212, a seven-tube two semiconductor beauty with an S meter, brightly lit slide rule dial and a fly wheel weighted bandspread tuning knob. I was almost ready except for an antenna.

With a large roll of insulated wire, I started out at the garage and worked my way upward to the attic window with about fifty feet of wire. Inside the wire was run across the attic ceiling to the entrance door and finally out to my bedroom and the receiver. All total about one hundred feet of wire was used. I didn't know it then, but I had constructed a sort of sloper antenna running both indoors and outdoors.

This was my salad days of shortwave radio and although I didn't know it then, I was in the midst of a golden era for shortwave. I spent many happy hours in front of that brightly lit Gonset listening to all sorts of broadcasts. One of my best moments was when I had a question answered by the Moscow Mailbag. At that time the program was hosted by the late Joe Adamov who was an expert English speaker and spoke with a neutral American accent. Joe announced my name and answered my question on the air! I still have my tape of that broadcast.

Since then, I've gone through several receivers and kept some. The hobby has changed tremendously and most of the great stations are gone. But aside from some detours I've made along the way, I still enjoy SWLing with all the changes and losses, I still hold onto that feeling of excitement when I turn on the power. One never knows what one might hear.

eds note: Ed speaks for a lot of us who just cannot leave that radio alone, not even after 75 years!

Gianni Serra, gianni24.dx@gmail.com, Roma, Italy

Regarding Vatican Radio and its Transmission Center in Santa Maria di Galeria, sometimes quoted as Vatican, Vatican City or Vatican State, as seen in some loggings and schedules, below I pieced together some excerpts from websites concerning Vatican Radio, the "Vatican", the Holy See and the Vatican City State. The Vatican Radio site of Santa Maria di

Galeria is an area (surrounded by high grey walls) of approximately 450 hectares. It is a Holy See extraterritorial area in Italy, where Vatican Radio has its shortwave transmitter and directional antennas. The signals arrive via radio relay from the Vatican City. It is located in an area northwest from Roma, at about 18 km (@11.2 mi) as the crow flies from the Vatican City State, around 24 km (@14.9 mi) as the crow flies from my home. Currently, programs of some international radios are also relayed from this facility.

This site was granted the privilege of extraterritoriality with the agreement signed between the Italian State and the Holy See on October 8, 1951, ratified with Law no. 680 on June 13, 1952, for the construction of a new transmitting center for Vatican Radio. Afterwards, it was inaugurated by Pope Pius XII on October 27, 1957. The toponym of Santa Maria di Galeria also includes a hamlet of Roma Capitale and the urban area 19H of the Rome XIV Municipality, located to the northwest of Rome; it borders with the Roman hamlet of Cesano, and the municipalities of Fiumicino and Anguillara Sabazia. Vatican Radio is an institution of the Holy See, with its own juridical personality and based in the Vatican City State. In its capacity as the Holy See's radio broadcaster, it has the institutionally recognized task of spreading the voice and teachings of the Supreme Pontiff throughout the world. The site of Vatican Radio would be better reported only as "Vatican" and/or Holy See, and not as Vatican City State, Vatican State or Vatican City.

73, Gianni Serra (*eds note: This article was shortened to meet space requirements.*)

Thanks to our contributors, these pages are open for your contributions.

Listening Review

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

Welcome to Listening Review for May 2022. Just a reminder: this column is primarily dedicated to programs heard and enjoyed on shortwave (whether your own receiver or via webSDR), and also on occasion to programs also available via streaming or podcast. Please do let us know of any programs that you hear and enjoy, whether it is a few lines, or a few paragraphs, or even a whole page!

Welle 370 broadcast of Artists for Peace

Hansjoerg Biener writes: On 8 April 2022, **Welle 370** broadcast a charity event **Artists for Peace** from Königs Wusterhausen at short notice.
<https://www.kulturwerk.info/Classic-meets-Jazz-694265.html>

"The mayors of Eichwalde, Königs Wusterhausen, Mittenwalde, Schönefeld, Schulzendorf, Wildau and Zeuthen want to send a strong signal for peace in Ukraine with a charity concert. Under the motto 'classic meets jazz', top-class musicians from Ukraine, Russia and Germany come together on the Funckerberg in Königs Wusterhausen. The seven mayors will personally collect donations for the Ukraine aid in the evening."

The broadcast was scheduled Friday, 8 April 2022, 1600-1800 h UTC: 6030 kHz (Moosbrunn) to Europe, 9580 kHz (Nauen) to Ukraine/ Russia. [In the event, the concert over-ran until 1842UTC - ar].



In Europe, good reception was possible on at least one of the two frequencies. But there was intercontinental reception. In fact, 9580 kHz also reached Australia. While this frequency only briefly extended beyond 1800UTC, 6030 kHz was in operation

music with some jazz, accordion and some percussion music. There was also some operatic vocals and the haunting Theme from Schindler's List, composed by John Williams. I expected to hear the Ukrainian National Anthem (now a very familiar tune) to perhaps end the concert but I didn't notice it. Maybe it was played live at the concert but not carried in the over-running shortwave relay.

Anyway, thank you to the Museum Funkenberg and Welle 370 organisers for arranging the shortwave relay of this concert.

Radio Angela (WBCQ 4790 kHz)

From **Bill Tilford** we have news about the continuing development of the exciting development of the **Radio Angela** entertainment block on **WBCQ 4790 kHz**. It is hoped that 4790 specifically will evolve into a flagship radio cultural and entertainment channel with airtime available for sale outside the 0200-0400 UTC block (on 4790 as well as WBCQ's other frequencies). Inquiries to wbcq@wbcq.com. Please refer to last month's Listening Review for the full schedule of Radio Angela,



until around 1845 h.

The performing artists usually had a connection to Ukraine or Russia or played music with this connection up to music composed on the occasion of the Ukraine war. Two examples: Mikhail Mordvinov, a Russian pianist currently living in Berlin, explained why he played Frédéric Chopin's Revolutionary Etude. This piece was composed out of Chopin's anger about the Russian occupation of Warsaw. Bettina Sitte (1st violinist of the Rundfunk-Sinfonieorchester Berlin) played a composition that was even more moving for those with knowledge. It should have been explained in more detail because it quoted a/the Ukrainian national song. A musical rendition of Taras Shevchenko's "The Mighty Dnieper". Ukrainians around the world get up when they hear this song (e.g. <https://video.link/w/D2qld>). Short wave listeners know some notes from the interval signal of former Radio Kiev. In this case, the best-known melody lines were incorporated into an elegy by a Ukrainian composer after the Russian annexation of Crimea in 2014.

(Dr Hansjoerg Biener 9 April 2022)

// I also tuned-in to this broadcast, and very much enjoyed the range of mostly classical

however there are a few schedule changes of interest:

1. On Tuesdays through Fridays from 0400-0410 UTC following the scheduled Radio Angela programming are two short science programs (***Earth Date*** and ***Science and the Sea***).
2. On the 2nd Friday of each month at 0300 UTC will be ***Colombia All Music*** (hosted by Cesar Rodríguez Charry in Colombia) exploring the kaleidoscope of musical genres in Colombia
3. Every Friday from 0200-0230 UTC will be ***The Pirate Joe Literary Half-hour*** with J. P. Ferraro, beginning with the serialized reading of a Zane Grey classic. This will be followed at 0230-0300 UTC by ***The Plain Old Doug Show***, a program of mostly early string band music.
4. On Mondays 0200-0400 UTC, ***The WBCQ Concert Hall*** will now include some short poetry recitals by Lainie Petersen in addition to light music during its intermission segments.

Radio Angela Call For Participants

In months with a fifth Wednesday US date (Thursday world date, the next will be June 30 world date), WBCQ's Radio Angela will present ***WBCQ Open Mic***, to be filled with entertainment content submitted by listeners. The ground rules are:

1. Content must be entertainment (literary, comedy, musical). Examples are reading a poem, singing a song, playing your guitar, doing a comedy monologue etc. Radio Angela reserves the right to determine whether the content meets its definition of entertainment.

2. Submission should be less than a half hour. Submissions of a half hour or more will be treated as a program audition. Non-entertainment content can be aired by purchasing time on WBCQ's other frequencies.
3. Submission deadline is second of month of broadcast world date (the next WBCQ Open Mic is in June, so submission deadline for June is June 1 US date).
4. The submission must include the real name and contact information for the submitter (no exceptions)
5. Radio Angela reserves the right not to use submitted content for any reason including no reason at all.
6. Submissions should be sent as a digital file (mp3 preferred) to 4790info@gmail.com with name and contact information for the submitter along with a short description. Subject line should read WBCQ Open Mic Submission.

BBC World Service News

Reliable and trustworthy news via shortwave is as important today as it's ever been, and the **BBC WS** output continues with many news programs each day. Usually, there is a six-minute news bulletin on the hour regardless of target area. Additionally, the following programs all provide extended news coverage: ***Newshour***, ***Newsday***, ***Newsroom***, ***BBC OS*** and ***Weekend*** programs,



along with the *Focus on Africa* programs. These are all broadcast at various times on shortwave, and with the BBC's complex schedule I have found it quite difficult to keep track of when and where to hear to them. So, I have navigated through all of the BBC WS schedules and have compiled this time-ordered summary of when and where to hear these news programs, which I hope that you will find to be a useful reference.

0306-0330 mo-frNewsroom

9740-sla 12095-sla (ME)

0406-0430 sa-su Newsroom

9915-mdc 12095-sla 13580-sla
(e+sAF, ME)

0406-0500 mo-frNewsday

9915-mdc 12095-sla 13580-sla
(e+sAF, ME)

* also relayed on RNZPac on 15720

0506-0600 mo-frNewsday

3955-wof(drm) 6195-asc 9410-smg
9915-mdc 11810-wof 17530-dha
(e+sAF,w+cAF,eEU)

0506-0600 sa-su Weekend

3955-wof(drm) 6195-asc 9410-smg
9915-mdc 11810-wof 17530-dha
(e+sAF,w+cAF,eEU)

0606-0700 mo-frNewsday

7345-asc 9410-wof 13600-sao 15420-
mdc
15490-smg 17530-mdc 17830-wof
(e+sAF,w+cAF)

0606-0700 sa-su Weekend

7345-asc 9410-wof 13600-sao 15420-
mdc
15490-smg 17530-mdc 17830-wof
(e+sAF, w+cAF)

0706-0800 sa-su Weekend

11810-asc 13580-sao 13600-sao 15490-
wof
17530-mdc 17640-mdc 17830-smg
(e+sAF, w+cAF)

0806-0830 sa-su Newsroom

17720-sng(drm) (sAS)

1006-1032 daily Newsroom

6195-sng 9410-sng 11695-sng 11945-
sng
(e+sAS)

1206-1230 mo-frNewsroom

12065-sla 15400-sla 15640-sng(e+sAS)

1206-1300 sa-su Newshour

12065-sla 15400-sla 15640-sng 15740-
wof
(e+sAS, eEU)

1306-1400 mo-frNewshour

11685-sng 11805-sla (sAS)

1406-1500 mo-frNewshour

15740-wof (eEU)

1506-1530 mo-frFocus on Africa

9410-sla (e+sAF)

1506-1530 mo-frBBC OS

12025-sng (ME)

1532-1600 mo-frBBC OS

9410-sla 12025-sng (e+sAF, ME)

1606-1700 mo-frBBC OS

7445-mdc 12025-sng 17640-asc 17830-
asc
21630-asc (e+sAF, w+cAF, ME)

1706-1730 sa Newsroom

6195-sla 12025-sng 15400-wof 17780-
asc
17830-asc (w+cAF, ME)

1706-1800 mo-frFocus on Africa

7265-mdc 7445-mdc 15400-wof
17780-asc 17830-asc (e+sAF, w+cAF)

1806-1830 su-fr Newsroom

6195-sla 7265-mdc 7445-mdc 9410-
dha
11810-wof 12025-sng 13580-wof
15400-asc
(e+sAF, w+cAF, ME)

1906-1930 mo-frFocus on Africa

6155-sao 6195-dha 7265-mdc 7445-
mdc
11810-wof 12095-asc (e+sAF, w+cAF)

1906-2000 mo-frNewshour

11680-wof (eEU)

2006-2100 daily Newshour

11680-wof-(sa,su only) 11810-wof
12095-asc
(w+cAF, eEU)

2206-2220 daily Newsroom

3915-sng 5955-sla 6195-sng 7445-pht
7465-sng 9580-sla (e+sAS)

NB: This is a slightly updated/corrected version to the list which I originally circulated via the NASWA iog mail list in April. * Thanks to Bryan Clark in NZ for the RNZPac update above at 0406.

Texas Radio Shortwave



Texas Radio Shortwave continues to provide a great line-up of programming throughout 2022 - primarily featuring songs by Texas artists, or about Texas, or music performed at Texas venues. There are also occasional specials featuring including a variety of music genres and artists including non-Texans and topical themes. In brief, the schedule for May via **WRMI**, **WBCQ** and **Channel 292** includes programs of music from the **50th Kerrville Folk** and the **2022 Conroe Crossroads Music Festivals** (two programs for each), music from **The Chicks** (formerly *The Dixie Chicks*), music specials from **Meat Loaf** and **ZZ Top**, and not forgetting an encore presentation of the

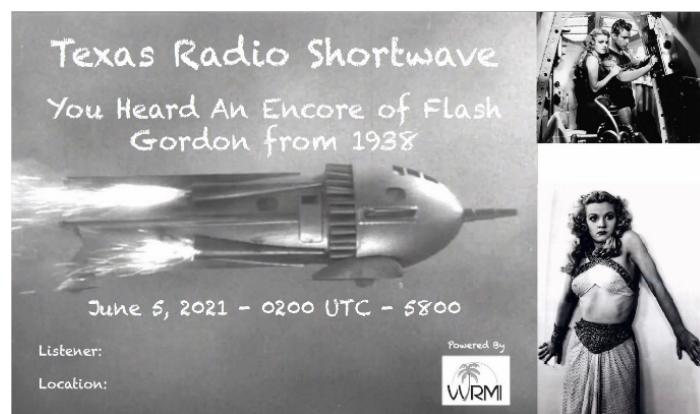


Cinco de Mayo. See last month's edition of *Listening Review* for the detailed schedule of program themes, times & frequencies for May (or consult my *Music on Shortwave pdf file*).

In addition, **Terry Colgan** also forwards the schedule for the "unscheduled WRMI hour" at 2300 UTC Saturdays on 5950 kHz through mid-June. The "unscheduled WRMI hour" is a temporary airing by WRMI which may be replaced by other paid programming at any time. The planned programs at this time will be as follows:

May 7 and 14: Flash Gordon

May 21 and 28: Yours Truly Johnny Dollar



June 4 and 11: Camel Rock and Roll Dance Party.

Terry notes: "These are rebroadcasts of shows that we ran in June 2021. We're not calling these encores (although we did when we originally ran them) since they're not part of the regular schedule and don't fit our nomenclature. These programs may be interesting to listeners since the original radio programs ran in 1956, 1936, 1955, and 1952 so the most recent is 66 years old and the oldest is 86 years old! Few of today's listeners have heard any."

In all, that's ten different programs in May alone (!) from TRSW - and all have their own special eQSL cards, such as "The Chicks",

'Flash Gordon' and 'Yours Truly, Johnny Dollar' eQSLs pictured (with thanks to TRSW for permission to republish here).

Radio Onda



Radio Onda (a low power station based in Belgium, but using a transmitter in The Netherlands) has been broadcasting at irregular times, mostly weekends, on 6140 kHz for some time with a mix of Brazilian music and pop oldies. On 24 April at around 0800UT, I came across R Onda broadcasting a BBC Radio Play: "The Name of the Rose" by Umberto Eco. This was an excellent two-part radio drama based on the novel (adapted by Chris Dolan) which was originally broadcast on BBC Radio 4 in 2006. As one might expect from a BBC production, the dramatization was first rate and was totally absorbing. I was sorry that I missed the start (although as I had been recording the shortwave band earlier, I was able to catch-up on the first fifteen minutes later). This play was followed up a short while later by an airing of another BBC Radio Play - a production of "On Her Majesty's Secret Service". I started listening, but had to go out so I recorded the play via the Twente webSDR. I asked R Onda about this and the operator, Julio Roth, replied that these were trials and he maybe will play these regularly in the evenings, perhaps around 1900h (I'm not sure if that is Central European Time or UTC). Anyway, keep a

watch out for these on 6140 kHz in the European evenings. If any advance publicity is made, I will circulate via the NASWA iog mail list.

89.5 MHz KSKO, McGrath, Alaska



So, how come there's an entry for **KSKO-FM** (89.5 MHz) from McGrath, Alaska here in Listening Review? I came across a live relay of the **Afternoon Show** from this station on 5900 kHz via Spaceline, Bulgaria on 18 April from 2200-2400UT, and was a pleasant couple of hours. The relay was arranged by Paul Walker (an active DXer and member of NASWA, who is also the DJ/Presenter for this show) and who advised in the NASWA iog mail list that the program will be aired at the same time for "the next few months" on 5900 kHz.

For something a little different to listen to, you may want to tune-in for the next few months on a Monday: imagine yourself in the small town of McGrath (with a population 346 in the 2010 census, according to Wikipedia) and enjoy some truly local programming from the USAs largest, and most northerly, state. Thank you to Paul Walker for arranging this relay.

Until next month, best wishes - Alan

International Broadcasting

Kim Andrew Elliott • 5001 25th St. North • Arlington, VA 22207 • kimelli@verizon.net
<http://www.kimandrewelliott.com>

Not your father's shortwave

Recent disruptions of the internet have been in the news. These are due to censorship in Russia and destruction of infrastructure in Ukraine. Not surprisingly, radio (shortwave and medium wave) has been discussed as an alternative to the internet to provide information to the affected areas.

Two recent derisive commentaries have thrown cold water on notions of a shortwave revival. In Radio World, Dan Robinson and Keith Perron observed that "BBC cut all shortwave broadcasts to eastern Europe. Voice of America, Deutsche Welle, and others sharply reduced or dropped use of shortwave. Audiences were simply not listening anymore and had migrated to the Internet where numerous alternative sources became available." (bit.ly/3ES8z91)

The Robinson/Perron column brought several responses, including this from Gary L. Wesley Jr: "Feel free to promote the new forms of cellular communications, however when it fails (and it has multiple times in the past), ham radio and shortwave may be the only way people can get the lifesaving information they need." (<https://bit.ly/3kjr2Su>)

And from Matthias Hettwer: "Shortwave radios are available and purchased, and it is fair to conclude that they are used. ... let's not assume that nobody would try using ... shortwave radios when provided while facing

Internet censorship or outage." (<https://bit.ly/3EUZPPx>)

Matt Armstrong, a former member of Broadcasting Board of Governors (now US Agency for Global Media) added to the anti-shortwave sentiment. In 2014, as a governor on the BBG, he authored a report on the viability of shortwave. He wrote that BBG data indicated "once people leave shortwave, they do not come back when alternative platforms are available. Further, even when those alternatives are shut down, and we had several contemporary examples to analyze, they do not return to shortwave. Audiences left shortwave as soon as possible and never looked back." (bit.ly/3vPWrm)

Gerhard Straub, retired director of terrestrial transmission systems at USAGM, responded: "For two hours per day, the cost (of shortwave) is approximately \$73,000 for an entire year of broadcasting. For an agency with an average annual budget of around \$750M, that is about 0.01% of the annual budget. At that cost, why would every asset not be used in the information war, just like every asset is being utilized in the physical war, no matter how old or crude. If it impacts no one, the cost was low. If it impacts one person that can help shorten this war, the value is immeasurable." (bit.ly/38uWYAU)

The future of international communication includes radio

All of the commentators mentioned above make valid points. It is, however, easy to dismiss shortwave as a viable medium for the modern world if one observes only the present surface indicators. With a bit of forward thinking, one can see where international communication is going. The scenarios include a squeezing and perhaps a complete closure of the internet going into denied countries.

Then the utility of radio as a workaround becomes more apparent. This will include shortwave if necessary. But it won't be shortwave as we knew it in the Twentieth Century. The regions of the world where shortwave listening is a mainstream activity are disappearing. Shortwave listening in the future will be a specialist activity of relatively small audiences. They may tune in for hobby purposes, but they may be needed for the important work of relaying uncensored information to larger audiences in countries where the internet has become a "splinternet."

This specialist audience would consist of hobbyist shortwave listeners (like us in NASWA), radio amateurs (most ham transceivers now have general coverage receivers), government and military personnel, and technology enthusiasts, especially those who add SDRs to their other computer gear.

In 2012, or thereabouts, I first paid serious attention to the digital modes of amateur radio. PSK31 was the popular mode back then. I was amazed at how such a weak signal, barely audible, occupying only a narrow sliver of shortwave spectrum, could produce text. At the time, I was aware of a growing number of countries developing more and more ways to stop internet content from reaching users within their borders. Could text (the basic building block of a website) via radio work around a physical cut

of internet traffic to a target country? I was imagining a scenario similar to what is happening now in Russia.

After many meetings, discussions and delays, in the fashion of a bureaucracy, I finally received the blessing of BBG and VOA to start "VOA Radiogram," an experimental weekly program from the Greenville, North Carolina, transmitting site. We transmitted digital text modes, some with images, on old analog AM shortwave broadcast transmitters. And because it was AM, it could be received on any shortwave radio, including cheap portables with no single sideband capability.

It worked. I received reports from listeners/decoders all over the world. They were hearing and receiving accurate text, even in reception conditions where conventional voice content was difficult to understand. Some listeners used those cheap portables, and some used high-end communications receivers and transceivers, with the audio patched (or juxtaposed) to PCs or mobile devices with the necessary decoding software.

In 2017, I retired from VOA. VOA Radiogram became Shortwave Radiogram (swradiogram.net), moving to private shortwave stations (now WRMI and WINB).

Digital, but not DRM

While Shortwave Radiogram involves digital text modes, it is not Digital Radio Mondial (DRM). DRM does eliminate the fading and background noise that was heard on analog longwave, medium wave and shortwave broadcasts. DRM probably would be a good improvement on MW and LW and possibly short-hop shortwave signals, such as UK to Western Europe. For longer, transoceanic shortwave transmissions, DRM drops out too often. I know this from tuning in hundreds

of hours of DRM signals since the introduction of DRM early in this century.

DRM drops out if the signal drops below certain level, or as a result of fading, or because of even a modest amount of interference. I.e., *typical shortwave conditions*. When the DRM drops out, all that is left is a 10-kHz-wide swatch of spectrum that is occupied but conveying no information.

As we NASWA members are well aware, analog shortwave signals degrade, but do not drop out until conditions become very bad. In the radiogram method of text via radio, the digital modes are placed on analog carriers. They use their error correcting tricks to produce accurate decodes even when reception deteriorates to appalling levels. It's a hybrid analog-digital system: the best of both worlds.

In the future, we can expect the environment for international communication to become even more hostile. The internet will increasingly be

squeezed. Radio could step in as an alternative, but with so many shortwave transmitting sites having been dismantled, many signals must reach the target country from distant and disadvantageous locations. DRM has little chance of success in such conditions. Analog voice can be difficult to understand. Digital modes via an analog carrier have the best chance of delivering accurate content. And that text can easily be passed on by way of copy-and-paste or other techniques.

Text via radio will not replace voice via radio. Both text and voice will be important components of future shortwave. Shortwave broadcasters should be transmitting some text, at least once a week, to familiarize audiences with the concept. This will also attract the attention of receiver manufacturers and software developers, who can bring about solutions to simplify and combine the reception and decoding processes.

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

Shortwave Center

John Figliozi • 45 Algonquin Rd • Clifton Park, NY 12065 • jfiglio1@nycap.rr.com

To be honest, I don't know if May is antenna time. But with the weather outdoors on this continent finally moderating nearly everywhere, it seems as good a time as any. In that regard, we have two antenna related articles this month. Furthermore, the debate over shortwave's relevance in the 2020s continues and James Careless of RadioWorld magazine chronicles the perspectives. (N.B.: A

link is provided to the article that fired the first shot in this donnybrook, just in case you missed it.) Finally, we have a pictorial profile of Jeff White's WRMI – Radio Miami International.

Whether constructing, repairing or arguing, avoid live wires, stay safe and stay healthy.

SHORTWAVE RECEPTION

Active Antenna Antics

Installing the Minikits EM 232 Active Antenna

with John Schache, VK2JLS
(Australian DX News)

Sometime ago, for some reason, I became interested in active antennas, reading about them on the net - as you do. While I have a reasonably large yard and trees to hang wires from, you cannot have too many antennas, especially if you like tinkering and experimenting. Being offered the chance to purchase a Mini kits EM232 active antenna kit, I did so.

well designed to resist overload and proper installation away from all the noise generators in your home is needed. The first is up to the manufacturer, the second to the user.

The active part is a little more than just an amplifier. Firstly, the electronics must convert the very high impedance of a small

antenna to something that matches the input impedance of your receiver. This helps extract the most signal possible from a small whip antenna. The amplifier part comes after this and provides some extra gain as well. However, we do not need excess amplification and we certainly do not need to connect too long an antenna element. Too much signal will just overload the whole thing and you will certainly hear lots of stations - just not real ones - all over the dial!

	HF ACTIVE ANTENNA	P.O. Box 686, Prospect East South Australia, 5082
		Tel: 0419826666 Email: support@minikits.com.au Twitter: com#minikits Facebook.com/minikits

Mini-Kits EME182

High Performance HF Active Receive Antenna

The Mini-Kits HF Active Antenna is easy to install and covers a wide frequency range of 100kHz to 80MHz. It is particularly suitable for those that have antenna restrictions or limited space to install a full size antenna, and can be used in antenna arrays for noise cancellation or beam forming. The design incorporates static and lightning protection, and has a broadband output impedance suitable for driving most receivers. A J310 FET is used as the active device, and along with a complementary push pull output buffer produces high output second and third order figures reducing the possibility of inter modulation on the received signals. The design incorporates power supply decoupling so that power can be fed to the active circuit via the coaxial cable. The recommended Antenna is a 1.5m long stainless steel VHF whip.



HF ACTIVE CIRCUIT EME182-B

The EME168-HF Bias Tee has been designed to power the Active Antenna circuitry via the coaxial cable. It incorporates circuitry to disconnect the power from the active circuit in TX mode, to protect it from high RF levels. The TX input on the Bias Tee, can simply be connected to the TX control output connection on the rear of many HF Transceivers.



There are lots of active antennas on the market with, one must say, some interesting claims about them. Small size, unobtrusive and the ability to be placed in a convenient location are 3 real attributes of the active antenna. All true, but there are a couple of downsides as well! The electronics must be

The kit is sold as a basic board or assembled to which has to be added the enclosure, whip, coaxial cable and a 'bias T' (power supply) which sits next to your receiver. Mine came unassembled. SMD components are used so you will need to have some experience in kit assembly and a fine tipped soldering iron plus a steady

hand, good lighting and maybe some magnifying capability as well. Despite not having much experience with SMD work, everything went together in the end. I also had to assemble the bias T. I would suggest purchasing the pre-made version for many people.

I chose to mount it in one corner of the yard in a location away from the house, on a metal pole about 2M high and in the shrubbery - probably not ideal, but I had checked with a portable and found a spot which seemed to have a bit less noise. Higher up and in the clear would be best and there is another location in mind (one of these days). Three radial wires about 2M long have been installed, connected to the earthed metal pole as recommended. The coax shield is also at earth potential. I used RG6 cable as it is readily available, cheap and low-loss. The other end has the shield earthed just outside the house before coming indoors and connecting to the Bias T next to the receiver. All this to avoid noise pick-up on the coax shield.

From here the signal goes to my MFJ 1026 phaser which has an in-built amplifier. An amplifier at this point is suggested by Minikits and I would support this suggestion. It gives some boost when needed; about 10db is enough. If your receiver has a built-in pre-amp, the external one is probably not needed. One thing I made sure of, the use of

a clean power supply. In my case, this was an existing one from the junk box - the older, transformer type - NOT the modern switching type. The output was unregulated and unfiltered, so an external filter and regulator was added to give about 13.5 volts. The circuit and an interesting article can be found [here:](http://www.dxing.info/equipment/wall_warts_bryant.dx)
http://www.dxing.info/equipment/wall_warts_bryant.dx

The results? Quite pleasing actually. I now have a small vertical antenna which can be phased with my loop to give a uni-directional pattern, and is low noise for general listening. Specified useful range is from 100 KHz to 80 MHz which seems pretty correct. Performance on MW is on par with my loop so no complaints there. Up over 15 MHz or so sometimes the loop seems better but different antennas have different characteristics. No spurious signals have been noted though we have only one nearby station. By night there are plenty of nice strong signals on the SW bands and attention to installation and grounding gives a nice low noise floor. In metro areas a high-pass filter can be added between antenna and amplifier - maybe even needed - where strong local MW stations are present. This is not a formal review and I have no connection with Minikits in any way whatsoever. Their website can be found at: <https://www.minikits.com.au/eme232>.

Do End-Fed Wire Antennas Work?

By Greg Majewski

Getting back into the hobby, I had a problem. My 40-meter full wave loop antenna had disappeared due to the trees supporting it dying from gypsy moths and drought.

Additionally, the "Council on Greg" (COG, consisting of my sweet bride and children), had mandated that Greg not to go on ladders above 6 feet. I needed an antenna that was either in the house -- or extended from the old television antenna mount at the peak of

the house, since I could reach the bottom of the television antenna mount through a window.

I tried several loops and a simple clipped on wire antenna. They were okay for shortwave broadcasting stations, but not for weak signals. I needed something better.

I was looking at YouTube channels for amateur radio. I found the "Parks on the Air" (POTA) and "Summits on The Air" (SOTA) groups were using end-fed antennas. In the sixties and seventies, the amateur radio community did not recommend the use of end-fed antennas due to RF hot spots developing in the shack. I decided to investigate them and give one a try.

There are two types of end-fed antenna, the End-Fed Half Wave (EFHW) and the End Fed Random Wire (EFRW). Both use a matching transformer (sometimes call UNUN). The EFRW uses a 9:1 impedance ratio transformer. The EFHW version uses a higher impedance ratio -- either 49:1 or 64:1 impedance ratio transformer.

In deciding on what to use, I found two useful resources on end-fed antennas. The first is the YouTube channel of Steve Ellington. The second was provided by a poster on the HF Underground, who goes by the name of SigInt. Here is what he provided in a posting on common mode chokes (aka 1:1 current BALUN):

"Have a look at the Palomar Engineers application notes on End Fed Antennas.

<https://palomar-engineers.com/tech-support/tech-topics/best-hf-end-fed-antenna>

If one scrolls down to the bottom of the page, there is a copy of Bullet End-Fed Antenna Notes (PDF). The information on

Palomar website is informative on EFRW antennas."

To understand the differences between the two, I need to explain the difference between resonant and non-resonant electrical systems.

A resonant system at a particular set of frequencies looks like only a resistor load to an electrical power source.

A non-resonant system at most frequencies is a complex impedance load - i.e.: both a resistor and reactance component either a capacitance or inductance -- for an electrical power source.

A resonant system can accept power from a power source more efficiently.

The EFRW is generally considered a non-resonant antenna. The suggested antenna wire elements are not a half wavelength for any of amateur bands. The amateurs have done a lot of testing for both types of antennas. Here are recommended antenna wire element lengths for an EFRW 9:1 transformer from several sources: 35.5, 41, 50.3, 58, 71, 84, 85.6, 107, 119, 148, 203, 347, 407, and 423 feet long.

The EFHW is generally considered a resonant antenna. The wire element is a dipole half wavelength of the lowest band that one wants to use. The antenna is resonant on the frequencies that are an integer multiple of the lowest frequency. The feed point impedance is a function of the installation and how close the antenna is to the ground. The feed point impedance is usually at least 2000 ohms or greater. Therefore a 49:1 or 64:1 transformer is recommended.

Now, the interesting thing about both antennas being used as general coverage antennas is there are frequency regions

where are they both either resonant or non-resonant. The matching transformer is a compromise for both types. They work, but there will be problem frequency regions and the antennas will be not optimum for those frequency regions.

Both types need a counterpoise, generally about 1/5 the length of the element. If a counterpoise is not used, then the transmission line is used as a counterpoise. This results in the transmission line currents being unbalanced since the transmission line is part of the radiating elements.

If a counterpoise is used, then it should be at right angles to the antenna wire element. In my installation, my station ground wire is the counterpoise. I have connected the ground directly to the ground/counterpoise terminal on the matching transformer.

A common mode choke or 1:1 current BALUN is required for proper operation. Normally, if one buys an antenna, it does not come with a common mode choke. The common choke is needed to minimize local electrical noise pickup on the transmission line and needs to be connected close to the receiving/transmitting equipment.

The first version I tried was a 50-foot EFRW. It worked, but I found the interference pickup problems commonly ascribed to end-fed antennas. After solving the various interference problems, the antenna worked better than the previous ones that I used, but receiving weak signals was a problem.

This prompted me to try a 40-meter (66-foot) EFHW. Having already solved the interference problems, it works well. I can hear weak utility signal and free radio stations. I started think about whether the longer length was the factor for the better performance.

I made a 71-foot wire element, tried it with the 9:1 transformer that came with the 50-foot EFRW and determined that the longer length does make a difference. At this time, I can't tell which is better -- the 40-meter EFHW or 71-foot EHRW.

One surprise for me was that all three antennas work well to receive FM broadcast stations. They were better than a standard twin lead dipole.

So, yes! End-fed wire antennas do work. But there are a few "Oh, by the ways".

Pro:

- They are easier to install.
- As a sloped installation, only one high point is needed. (66-foot). A tree makes a good support point. - POTA and SOTA both like them.
- One end can be near the ground.
- They can be bent into shapes to fit the available space.
- The costs of making one is not high, especially when used to receive only or transmit at low power (less than 150 watts). The kits or assembled low power versions can be had for around 100 US dollars or less.

Con:

- Their impedance characteristics make them susceptible to local electric field noise sources. Using them in remote low noise area is a good idea (i.e. POTA or SOTA). However, most urban areas are not low noise, and some troubleshooting is required.

- There also will be some frequencies where they cannot easily be made to work well without additional matching devices.

The bottom line is, for a general receiving antenna, the end-fed random wire antenna is a good candidate. For a transmitting antenna used for two-way communications, end-fed half wave antennas are preferred.

They can be constructed for a specific frequency band or bands. Performance wise, the two types are very similar. However, in a particular frequency band, one may be better than the other. The decision on which to use is determined by to what you want to listen.

In my case, since I am interested in 43-to-40-meter bands, I am using the 40M EFHW.

SHORTWAVE NEWS

Нет Войне! No to War! No alla Guerra!

Ukrainian, Russian radio enthusiasts battle over alleged Russian military frequency

Taken from /kyivindependent.com website of "The Kyiv Independent"
Via DX Fanzine

The frequency of a suspected Russian military shortwave radio broadcast, known as the "buzzer" for its recognizable repeating channel marker, has become the battleground for rival Russian and Ukrainian radio enthusiasts, who have been attempting to hijack the frequency to play memes and propaganda.

The UBV-76 transmission, which can be listened to at 4625 kHz on shortwave radio, is suspected to be used by the Russian military for relaying coded messages to military forces. The signal has been transmitted since the late 1970s, during the height of the cold war.

There has been much speculation about the exact purpose of the radio signal, however according to Numbers Station Research and Information Center, the most widely accepted theory is that the transmissions are used to send communications to and from Russia's Western Military District.

The radio signals originate from the village of Naro-Fominsk, near Moscow. The frequency is allegedly marked by the Russian military with a repeated buzz, which is occasionally interrupted by live coded messages.

With tensions between Russia and Ukraine mounting, enthusiasts noted that the encrypted radio messages were becoming much more frequent.

Since the end of November, listeners reported that encrypted radio messages had become a frequent occurrence. The cryptic messages can be picked up hundreds of miles away using strong antennae.

Following this flurry of military radio activity, enthusiasts decided to take to the airwaves themselves, flooding the frequency with memes, propaganda, and pirated music. Radio enthusiasts, including many users suspected to be based in Ukraine, are using

internet-based radio transmitters to blast songs such as Korean viral-hit “Gangnam Style”, MGMT’s “Little Dark Age”, and other hits.

Modern shortwave radio receivers also allow users to visualize audio transmissions, leading radio enthusiasts to compete to create images, such as Ukrainian symbols or popular memes.

The flood of memes and music means that the original users of the frequency,

suspected to be from the Russian military, are now struggling to be heard.

In a December 11 broadcast, live encoded messages were drowned out by Linkin Park’s hit song “In The End.”

In response, Russian listeners began blaring the Soviet national anthem, Russian 90s rock songs, and Russian state propaganda. The frequency is now also being blocked by heavy radio jamming, possibly by the Russian military getting fed up with pirates using their frequency.

SHORTWAVE OPINION

“Why Reviving Shortwave is a Non-Starter” Sure Got Our Readers Started!

By James Careless
RadioWorld magazine – April 5, 2022

As a long-time RW contributor (my first article was in June 1990) and even longer-time shortwave radio fan and broadcaster (Radio Canada International, HCJB in Ecuador, radioEARTH, and Monitor Radio; all sadly now defunct), I have been covering the revival of shortwave radio transmissions to Eastern Europe for RW with great interest.

So have our loyal RW readers, some of whom have taken great exception to our recent guest commentary, “Why Reviving Shortwave is a Non-Starter.” Written by Keith Perron (previously with Radio Netherlands, Radio Canada International, and BBC World Service) and Daniel Robinson (retired White House, congressional and foreign correspondent for Voice of America), their article argued against reviving shortwave radio to reach information-seeking listeners in Russia and Ukraine.

(Writer’s note: Both of these men have devoted much of their careers and passion to shortwave radio. Their credentials as shortwave enthusiasts are bona fide and undeniable.)

“Today, shortwave hobbyists assert that there is great value in beaming shortwave to Russia where a Putin crackdown closed independent media and pushed western reporters out,” said the Perron/Robinson commentary. “But this is like claiming there is a VHS revival, because a few VCRs may still be floating around. At one time, there may have been millions of shortwave radios across the region. But no longer — gone are the days of people huddling around radios.”

Here’s what our readers had to say about it.

Shortwave Is Not Dead

RW reader and HAM (amateur radio) operator William Pietschman (W8LV) disagrees with the idea that shortwave radios have more or less vanished from Eastern Europe. "Shortwave is a 'standard' band found on MOST radios outside of North America, so shortwave radios didn't disappear with the advent of the Internet," he writes. "SETTING ASIDE Radio 'hobbyists', shortwave radios are STILL being built by manufacturers such as Tecsun (and others) and they wouldn't be producing them unless 'someone' other than 'radio hobbyists' was purchasing them.

"The idea of some saying Shortwave is dead is just as stupid as those same individuals saying constantly that Amateur Radio (HAM) is dead or at least dying," writes Gary L. Wesley, Jr. (W9CRT). "The fact is Russia and China have retained their Shortwave and analog capabilities to transmit news / propaganda as well as transmitting information / data to their military units on the ground and in the air."

Sheldon Harvey is President of the Canadian International DX Club, a shortwave radio enthusiast organization established 50 years ago. (I know of Harvey and CIDX from my shortwave broadcasting days back in the 1980s; both were respected even then.)

Harvey writes, "Interesting as well that there is no mention in the commentary about the amount of money still being spent by the U.S. government on services like Radio Marti to Cuba; RFE/RL, Radio Free Asia, etc. which are all using shortwave. So is all of the money on these services simply being wasted because there are no shortwave radios out there and that no one is listening? Ask the Chinese Government what they think about the viability of shortwave broadcasting."

"Why would several international shortwave broadcasters who lost their government funding choose to spend some of the little

money they may have to purchase airtime on independent shortwave transmitters in places like the USA, Germany, France and other locations," Harvey adds. "Why would they bother if no one was listening?"

Shortwave Radios Are Widely Available

Some RW readers apparently viewed Perron/Robinson's commentary as implying that shortwave broadcasting was no longer viable because shortwave receivers were no longer widely available. (They never made this claim, by the way.)

"Today, while the use of shortwave radio has dropped sharply over the last 20 years, it is paradoxical to note that it has never been so easy to listen to shortwaves in a very discreet way and for a very modest investment," writes Paul Jamet from the French shortwave listeners' group Radio Club du Perche. "In-deed, a few dozen euros are enough to acquire one of the many ultra-portable DSP receivers marketed by Chinese manufacturers, which most often use a Silicon Labs Si47xx (American) chip... Another paradox!"

Sheldon Harvey makes a similar point: "I'd ask anyone to do a search for 'shortwave radios' on any Internet marketplace site and you'll see more companies and models than you could shake a stick at," he writes. "There are more new models being released at a rate we have not seen for many years ... There was a recent statement from Tecsun, from their Australian office, that quoted annual sales of a million-plus radios per year."

Listener Groups Are the Tip of the Iceberg

One point in the Perron/Robinson commentary that put some readers' nooses out of joint was the following: "Hobbyists and members of the amateur radio community are piling on governments in

Canada, Australia and Sweden to revive shortwave. But purchasing new transmitters costs millions, and for an audience which is practically nonexistent.”

Harvey responded to this point by writing, “A search on Facebook for the word ‘shortwave’ for exam-ple will yield literally dozens of active groups of users of shortwave radios, literally spread throughout the world. Many of these groups have memberships of well over 1,000 members each, with some reaching 5-figure memberships.” He then notes that these relatively small numbers do not prove the absence of a much larger shortwave listener ‘Silent Majority’ (my Nixonian-era term, not his). “One could use the analogy that everyone who owns a camera does become a member of a photography club or group; same goes for shortwave listeners,” Harvey contends. “Many of them don’t have dependable Internet service to even become members of these online groups.”

Russians Have Access to Radios

Another Perron/Robinson point that apparently irritated readers was this one: “Thousands, much less millions, of shortwave radios are not somehow hidden away in attics, though some commentators assert that people in Russia, particularly those with Cold War memories, will suddenly begin using shortwave to get around Putin and Xi Jinping’s firewalls.”

Paul Jamet tackled this one head-on. “Did the Russians and Ukrainians keep the receivers they used during the cold war? I don’t know,” he writes. “But what I do know is that many Russians buy DSP receivers via the AliExpress website! Their comments are numerous and easily spotted with the Russian flag ... Also, why would several Chinese companies continue to invest in research and development to sell DSP

receivers that perform amazingly well! I am not sure that the niche market for radio receivers is sufficient to make such investments worthwhile.”

Ruminations on Consequences

Within the comments received by RW were some ruminations on the consequences of governments having allowed shortwave to wither — a point raised by Perron and Robinson themselves — when the vulnerability of the web and local AM/FM retransmissions being blocked by hostile governments was obvious for all to see. (This reality has dogged me since the BBC’s decision to retreat from shortwave in favor of cheaper web and locally-retransmitted programming back in 2001. But nobody in power was apparently listening.)

As Gary L. Wesley, Jr. points out, digital media tends to fall short when things hit the fan. “People need to remember during 9/11 HAMs were there to support and pick up the OVERLOAD of the NY public service communications system,” he writes. “We were there for Katrina, the wildfires in the western United States and several other disasters. Feel free to promote the new forms of cellular communications however when it fails (and it has multiple times in the past), HAM radio will and Shortwave may be the only way people can get the lifesaving information they need.”

This being said, “It’s not cost effective to shut down and then rebuild shortwave infrastructure because of this reality,” William Pietschman writes. “As a matter of fact, it’s naive and foolish to not have adequate shortwave facilities activity broadcasting information worldwide. Now on the brink the like of which hasn’t been seen since the Cuban Missile Crisis, citizens abroad, armed with information might have

acted as a deterrent to keep this war from starting in the first place.”

Closing Thoughts

As a shortwave enthusiast (and recently licensed HAM) who still has a longwire antenna and a radio room stocked with receivers — although not enough, because you can never have too many radios — I am more than sympathetic to the case made by RW’s readers in support of reviving shortwave broad-casts to Europe. And much as I respect the strong logic of Perron/Robinson’s closing argument that “In 2022, Ukrainians and Russians need 21st century solutions, not a legacy technology primarily being kept alive by hobbyists,” I am not sure that I agree with it.


After all, according to the Human Rights Foundation, USB drives are frequently used to smuggle for-bidden information into North Korea. Now, a USB drive is not a shortwave radio, but the two can share the same purpose in closed societies: namely serving as the best available options for getting out-side information in when most other paths have been blocked.

Meanwhile, although some Russians are reportedly using VPNs and the Dark Web to

access Western news sites, I rather doubt that they are in the older age brackets. Meanwhile, internet access is not something that Ukrainian refugees can easily obtain, I suspect, while a portable radio is probably doable. This being said, Western broadcasts beamed onto these nations via AM/MW would be more likely to be heard than those carried on shortwave, because AM/FM radios are still ubiquitous.

The bottom line: The points raised by everyone in this debate are worth raising. Yet, all sides seem to share a common belief: The West needs to get uncensored news and information to Russians behind Putin’s ‘New Iron Curtain’. All that’s at issue is the best way to do it. Logically, using all means possible — including shortwave radio — would seem to maximize our chances of success.

James Careless is an award-winning freelance journalist with experience in radio/TV broadcasting as well as A/V equipment, system design and integration. He has written for Radio World, TV Tech, Systems Contractor News and AV Technology among others. Broadcast credits include CBC Radio, NPR and NBC News. He co-produces/co-hosts the “CDR Radio podcast” and is a two-time winner of the PBI Media Award for Excellence.

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. 

The Robinson Report

Daniel Robinson • PO Box 3292 • Allentown, PA 18106 • dxace1@gmail.com

The ICF-2001/2010: My History with SONY's 1980s Technology Tour de Force Receivers

In the last four decades, shortwave/multi band receiver technology has changed in major ways. We have been through dozens of examples of desktop and portable design, and the SONY 2001 and 2010 rank at the top, establishing new firsts.

SONY scored a technology home run in early 1980 with its revolutionary ICF-2001. It took the world by storm, backed by a major advertising campaign and reviews in hobby publications and programs devoted to shortwave.

Let's step back for a moment to look at the 2001. For the first time in a portable radio, it introduced direct keypad frequency entry, with 1 kHz readout. At the time, that deserved the WOWs it got.

The 2001 had a five-segment LED signal strength indicator, scanning capability, UP/DOWN tuning with unique for that time left/right slewing keys and a middle key for fast tuning. Easy to forget, the 2001 also had an antenna trim control, and another for tuning in SSB/CW.

As one reviewer noted in an excellent article (<https://swling.com/blog/2015/03/my-new-to-me-sony-icf-2001-shortwave-radio/>) on SWLing.com in 2015, the addition of the antenna trim was a brilliant move, a throwback to the days when tube receivers had that flexibility to boost the level of what was being heard.

This SWLing.com piece (<https://swling.com/blog/2014/10/john-lennon-and-the-sony-icf-2001/>) told the story of John Lennon who was shown in a photo taken in a New York City recording studio with his legs up on a console, on which also sat a SONY 2001, presumably his.

Some years later, the ICF-2010 was to become the most popular receiver and longest production of any radio for SONY. It also became "the best commercial spy radio in history" as described in this fascinating YouTube video from 2021: <https://www.youtube.com/watch?v=ETd6892GK34>.

My journey with these radios began in 1980 when I acquired several at one of the electronics stores in New York City (I think it was 47th Street Photo). In 1983, I brought my 2001 to Nairobi, Kenya where I headed VOA's East Africa bureau.

The 2010 which followed in 1985 was a whole other story. In the VOA Nairobi bureau, I used my DXing knowledge to monitor the daily English broadcast from the Sudan People's Liberation Army (SPLA) radio, and broadcasts from Radio Tanzania, Ethiopia and Uganda.

Interestingly, propagation in Kenya was not what I had expected it to be. For example, it was difficult to hear stations in Congo and south central Africa, and West Africa.

Hearing Comoros and Mauritius, though possible, was also a challenge.

The most memorable experiences, which showed the impressive capabilities of the receiver, involved coups in Uganda and Nigeria. In one, Milton Obote (who had been forced from power a first time in 1971) was overthrown by General Tito Okello (the Okello regime would last only until 1986 when Yoweri Museveni seized power beginning decades of rule in Uganda).

I still remember hearing Radio Kampala on its 4,976 and 5,026 kHz as one of the coup leaders went on air to announce: "I am happy to announce to you that a military coup has happened in Uganda today."

Obote forces fleeing Kampala headed north, wreaking havoc in villages on the way to the Sudan border. I had the SONY 32 easily accessible memories set for frequencies used by missionary posts, police and military. In one instance, I was able to hear cries for help from a missionary post north of Kampala as all of this played out.

Another instance involved one of many coups in Nigeria, not technically my coverage area as VOA had a bureau at that time in Abidjan, Ivory Coast. The August 27th 1985 coup saw a military faction led by Ibrahim Babangida overthrow the Major General Muhammadu Buhari (who himself took power in a 1983 coup).

One evening while listening to Voice of Nigeria on 15,120 kHz, I heard what sounded like military communications bleeding over on the VON international service. It was the strangest of things, but showed again the flexibility of the SONY which using only its telescopic whip in downtown Nairobi was able to pick up that broadcast.

VOA eventually sent me to Nigeria to cover the aftermath of the 1985 coup. I'll always remember passing through checkpoints on the way into Lagos, and the need to appease teenage soldiers holding M-16s with gifts -- a similar situation played out in Uganda.

By the way, my recording of the Uganda coup announcement would feature in a VOA program looking at the history of military takeovers in Uganda - I still have the recording somewhere in my archive.

Years later I ended up selling that 2010 - a dumb decision because I had a lambskin case made for it in Nairobi. About two decades later I obtained a high 300xxx serial number 2010 new in box.

I modified the filters and display LED and recently had it aligned by an expert who corrected the calibration - it was about .100 kHz high, something important only to OCD owners like myself, and replaced the caps, and expect it to provide many more years of service.

After 40+ years, I am now firmly back in the large community of 2010 owners. The sensitivity, coverage of the AIR band, fantastic SYNC mode, and easy-to-use tuning system bring back many memories of my first days with these fine receivers from the 1980s.

The 2001 and 2010 led to SONY's introduction in the mid-1980s of the 7600D/S (ICF-2002) models. These were a bit of a disappointment, providing memory capability but not retaining the superb SYNC of the 2010 and only fine tuning with no bandwidth filter options.

But the 7600D/2002 became a standard piece of equipment for traveling journalists and paved the way for SONY's later and much smaller SW1 and SW100 receivers which were

even more useful for news correspondents who, in the course of doing their jobs,

needed to hear the latest news from BBC, VOA and other stations.

Listener's Notebook

Richard A. D'Angelo • 2216 Burkey Drive • Wyomissing, PA 19610 • rdangelo3@aol.com

Times are UTC and frequencies in kHz.

ALASKA KNLS Anchor Point A-22 season schedule for the season March 27, - October 29, 2022:

0800-0900 on 9695 English
0800-0900 on 11875 Chinese
0900-1000 on 9695 Russian
0900-1000 on 11875 Chinese
1000-1100 on 9580 English
1000-1100 on 9685 Chinese
1100-1200 on 9580 Russian
1100-1200 on 9730 Chinese
1200-1300 on 7355 English
1200-1300 on 9695 English
1300-1400 on 7395 Chinese
1300-1400 on 9740 Chinese
1400-1500 on 7355 Chinese
1400-1500 on 9580 English
1500-1600 on 9760 Chinese
1500-1600 on 9800 Russian (KNLS Website)

Additional frequencies of WCB KNLS The New Life Station via Anchor Point but registered under LeSea Broadcasting Corporation:

1600-1800 on 11870 Chinese tx#1 HRI FCC
1600-1800 on 9580 Russian tx#2 HRI FCC (DX Mix-Bulgaria)

7355, KNLS, Anchor Point, at 1236 ending a program, into "Music of Your Time" and song by Toto. Excellent, Apr. 18. (Harold Sellers-BC/DXplorer)

ARMENIA Trans World Radio India in English via CJSC Yerevan, April 25:

1430-1500 on 13690 English Mon-Fri (DX Mix-Bulgaria)

AUSTRALIA Reception of Reach Beyond Australia in English via Kununurra, April 22: 1200-1215 on 11900 English Fri-Mon (DX Mix-Bulgaria)

Fair/good signal of Reach Beyond Australia via Kununurra on April 18: 1330-1345 on 9720 Hindi/English Daily (DX Mix-Bulgaria)

5045, Bay Islands Radio, relay of Island FM 88 (presumed), from 1130+, 14/3. Again being heard with audio above threshold level; pop songs; brief announcers; very poor. (Howard-CA/Australian DX News)

9610, Reach Beyond Australia at 1314 into English "You are listening to Reach Beyond Australia." with contact e-mail, portion of a Gospel song, 1315 intro to Bible message. This English broadcast is 1315-1330 Mon., Wed., Fri. & Sat. Very good, Apr. 18. (Harold Sellers-BC/DXplorer)

11905, Reach Beyond Australia (HCJB): E-QSL in 5days for a Japanese report to hcjbjapan.office@gmail.com. (Nozomi Matsunaga-Japan/Japan Shortwave Club)

AUSTRIA From: Christoph Ratzer. Against the background of the war in Ukraine, ORF expands its information offer via shortwave. We are pleased about reception reports and write: Due to our expanded shortwave

program, we are now sending QSL cards again. If you send us a reception report, we will gladly confirm it. The address for reception reports is Kind regards Antonia Chott ORF Ö1 Listener Service According to information from Alfred Albrecht and Ing. Thomas Zurk (Via HCDX Wolfgang Bueschell 12 March 22/New Zealand DX Times)

Reception of Oesterreichischer Rundfunk-1 in German via Moosbrunn on April 21:
1000-1100 on 13730 German Mon-Sat (DX Mix-Bulgaria)

Updated SW schedule of Radio Pravda dlja Rossii, started on April 9, via Moosbrunn:
1500-1600 on 13600 MOS Russian Tue/Thu/Sat, no change
1900-2000 on 6070 MOS Russian Sun, addit. from May 01
1600-1700 on 9670 MOS English Fri* addit. from Apr.29. * New High Power Broadcast of VORW Radio International. All frequencies registered in HFCC under Broadcaster Channel 292 (Germany) (DX Mix-Bulgaria)

BOLIVIA 3310, Apr 10, 0128, Radio Mosoj Chaski, Cotapachi, Quechua comments. (Méndez-Spain/Shortwave Bulletin)

BRAZIL 4885, Apr 10, 0403, Radio Clube do Pará, Belém, "Lambada", other Brazilian songs, program "Clube da Madrugada", ID "Radio Clube, 690 AM, a poderosa". (Méndez-Spain/Shortwave Bulletin)

BULGARIA The following frequency schedule is effective 27 March 2022 until 30 October 2022 for all broadcasts originated by NEXUS-IBA on IRRS-Shortwave:
7290 1800-1900 Daily English
9510 0800-0900 Sat English (Include programs from International Public Access Radio)
9510 0930-1200 Sun English (Include programs from European Gospel Radio and International Public Access Radio).
Transmitter site is Kostinbrod (Sofia).

Reception reports to reports@nexus.org. (IRRS Website)

Summer A-22 of Radio Taiwan International via SPL Sofia:
2000-2030 on 6005 Russian additional transmission
1700-1730 on 5900 Russian as scheduled Summer A22
1900-1930 on 5900 German as scheduled Summer A22
1900-1930 on 6005 French as scheduled Summer A22 (DX Mix-Bulgaria)

CHILE 7610. RCW. Apr. 17. 0040- 0059. Radiograma with news from R. BIO-BIO. 55444. (Claudio Galaz-Chile/Hard Core DX)

CHINA Summer A-22 frequency changes of CGTN (former CRI):
0000-0057 NF 11865 XIA English, ex 11790
0100-0157 NF 5990 KAS Russian, ex 5905
0200-0457 NF 6180 KAS Russian, ex 5905
1130-1157 NF 5985 BEI Filipino, ex 5910
1200-1257 NF 6050 HUH Mongolian, x 5915
1300-1357 NF 6050 HUH Russian, ex 6050
1400-1457 NF 6105 HUH Mongolian, x 5915
1400-1457 NF 6155 KAS Russian, ex 5905
1400-1457 NF 7360 XIA Japanese, ex 7395
1310-1357 on 13685 BKO French, canceled
1310-1357 on 17880 BKO French, canceled
1400-1457 on 13685 BKO English, canceled
1400-1457 on 17630 BKO English, canceled
1500-1557 NF 6100 KAS Russian, ex 5905
1500-1557 NF 6085 HUH Russian, ex 5915
1500-1557 NF 6155 BEI Chinese, ex 5910
1500-1557 NF 7445 URU English, ex 7395
1500-1557 NF 9490 KUN Bengali, ex 9610
1500-1557 NF 9610 KUN Bengali, ex 9690
1500-1557 NF 9690 KAS Tamil, ex 9490
1500-1557 on 11880 QVC English, canceled
1500-1557 NF 13630 URU English, ex 9720
1600-1657 NF 5995 KAS Russian, ex 5905
1600-1657 NF 6100 KAS Hindi, ex 5915
1600-1657 NF 7265 KUN Hindi, ex 7395
1600-1757 NF 9535 BJI German, ex 7380
2100-2157 NF 9655 BEI Croatian, ex 7225
2200-2257 NF 7285 URU Chinese, ex 7395

2300-2357 on 11975 BKO Chinese, canceled (DX Mix-Bulgaria)

CLANDESTINE The program is aired on behalf of International Public Access Radio (IPAR) and is from Oromia National Media (Arraata Biyyoolessa Oromiyaa), now (A22) from 1500-1530 on 15400 Monday, Tuesday, Wednesday, Friday, and Saturday. (Ron Norton-Italy/IRRS)

Reception of Oromia Public Media Raadiyyoni Dirree Shaggar via Issoudun, April 26:
1600-1630 on 15415 Afan Oromo (DX Mix-Bulgaria)

Radio Erena heard on new 11810 on 24/25 March at 1700-1757 by Dennis Koyabashi. ID was confirmed against station's Youtube channel. (WRTH Facebook). Reception of Dimtse Radio Erena via SPL Sofia, April 22:
1700-1800 on 11810 Tigrinya (DX Mix-Bulgaria)

New clandestine transmission of Radio Axumite via TDF Issoudun, April 23
1730-1745 on 15340 Tigrinya (DX Mix-Bulgaria)

Registered frequency of Radio Ominira Yoruba in HFCC from April 21:
1900-2400 on 9450 WOF Yoruba Radio Freedom Yoruba A22 (DX Mix-Bulgaria)

Reception of Voice of Oromo Liberation in Afan Oromo via MBR Nauen, April 24:
1700-1730 on 15420 Afan Oromo Wed/Fri/Sun (DX Mix-Bulgaria)

Summer A-22 of Afghanistan International:
0300-1300 on 7599.9vTAC Pashto
1300-0300 on 7600.0 ERV Pashto (DX Mix-Bulgaria)

Changes of Radio Iran International TV (Volant Media UK):
0400-1600 on 15629.8vTAC Persian, ex 0330-1530

1600-0400 on 5829.9vTAC Persian, ex 1530-0330 (DX Mix-Bulgaria)

Reception of Radio ERISAT via Talata Volonondry on April 22:
1800-1900 on 11690 Tigrinya (DX Mix-Bulgaria)

Summer A-22 frequency change of National Unity Radio from March 27
1200-1458 NF 7200 TSH Korean Free Chosun, ex 9475 A-21 (DX Mix-Bulgaria)

Radio Dap Loi Song Nui/Vietnam Democracy Radio via Paochung, April 28:
1230-1258 on 9670 PAO Vietnamese (DX Mix-Bulgaria)

Dimtse Woyane Tigray via Issoudun from March 27:
1500-1600 NF 17870 Tigrinya, ex 17750 Summer A-21
0400-0500 on 11570 Tigrinya no change Summer A-21 (DX Mix-Bulgaria)

Manara Radio International via Issoudun from March 27:
0700-0800 NF 15430 Hausa, ex 13740 in Summer A-21.
1600-1700 on 15285 Hausa same Winter B-21 & Summer A-21 (DX Mix-Bulgaria)

Changes of Denge Welat as of April 18. All transmissions via Issoudun/Grigoriopol are canceled. BRB Denge Welat is on air only via MBR / SPL Sofia:
0400-0530 on 7285 Kurdish
0530-1700 on 11775 Kurdish
1700-2100 on 5935 Kurdish (DX Mix-Bulgaria)

Very good signal of Radio NUG via Paocunhg, April 21:
1400-1430 on 11940 Burmese (DX Mix-Bulgaria)

Frequency changes of Voice of Martyrs via RRTM Tashkent:

1200-1230 NF 15600 Korean Daily, ex 9930
1530-1600 NF 7530 Korean Daily, ex 7525
(DX Mix-Bulgaria)

National Unity Radio Free Chosun via Tamsui
on April 5:

1200-1458 on 7200 TSH Korean (DX Mix-
Bulgaria)

Frequency changes of Radio Free North Korea
via Tashkent:

1300-1400 NF 11510 Korean, ex 9910 B-21
(DX Mix-Bulgaria)

A22 schedule for Radio Mazaris Sumay in
Tigrinya to East Africa via Madagascar:

1730-1800 11705-mdc

1800-1900 11690-mdc (British DX Club)

COLOMBIA 4940, Fuerza se Paz, Arauca, 0340, M in Sp, apparent relig talk, fair, 04/08. (XM /The Mosquito Coast) 4940, Unknown relaying Fuerza de Paz, 0404-0625, 21-04, Spanish, religious comments, Colombian-Venezuelan songs, "Llaneras". 25322. Colleague and friend Jose Hernandez in Madrid sends me the reply that Rafael Rodriguez, QSL manager of La Voz de tu Conciencia sent to Adolfo Arto who sent him a reception report about the station on 4940 (Google translation): "1. The Signal on 4940 is not operated by the Colombia Para Cristo Organization or its Fuerza de Paz Campaign, which in previous years operated on 5910 and 6010 from Colombia and of which I am the QSL Manager. 2. Although the 4940 signal re-transmits old programs from those stations and for this reason Fuerza de Paz is mentioned, these programs are taken from public web servers where these programs have been hosted for several years. 3. The 4940 signal has never been identified in any way, it presents Colombian-Venezuelan music, they give the UTC -4 time (Venezuela time) and in my opinion it transmits from that country or very close to the border between Venezuela and Colombia. 4. I ask you to be attentive because it is working on

the reactivation of the 6010 signal and that I trust you can listen and report to my email: rafaelcoldx@yahoo.com, where I will be sending you the eQSL and other souvenirs? (Méndez-Spain/Hard Core DX)

6010, La Voz de tu Conciencia. Puerto Lleras, Colombia. Noted reactivation from this signal, today at 2230 with Martin Stendal's predication. TC: "...son las 5 de la tarde y 45 mins" (UTC-5) At 2300 Colombian national anthem. Please send report to: rafaelcoldx@yahoo.com. eQSL 100% guaranteed. (Rafael Rodriguez R.-Colombia/Hard Core DX) 6010, La Voz de tu Conciencia, Puerto Lleras, received eQSL, v/s Rafael Rodriguez and pennants in 2 hours. Reception report sent to: rafaelcoldx@yahoo.com. (Manuel Mandez-Spain/Hard Core DX) 6010, R. La Voz de Tu Conciencia, 07/04, 0903 - 0907 male talks. By the generosity of absence of R. Inconfidência (6010), caught a very poor, fady, unreadable signal. (Lúcio Bobrowiec-Brazil/The Mosquito Coast) 6010, Apr 9, 0528, La Voz de tu Conciencia, Puerto Lleras, ID "info@fuerzadepaz.com, La Voz de tu Conciencia", religious songs, program "Tu Historia Preferida". (Méndez-Spain/Shortwave Bulletin)

6017.2, Apr 6, -0344*, UNID. Thanks to Bill Harms for the tip about a possible pirate. Heard from 0333 till cut off in mid-song at 0344*; signal slowly improving the whole time; non-stop LA ballads; never heard any announcers; poor reception. No signal was heard from Zanzibar (6015). (Ron Howard-CA/Shortwave Bulletin) Am very grateful to Rafael for his comments about the pirate station on 6017.2: "Yes the signal on 6017,20 it's a pirate station identified as "Organización Radial El Prado." They have been operating irregularly for a year, always with long musical sessions without announcers, they don't even report TC. It has an irregular schedule opening around 2230 or 2330 and closing 0200 or 0300 even later.

It is not every day, sometimes during the week days and other times only Fridays and Saturdays. I heard an identification a couple of months ago, then there hasn't been much talk, it's called "Organización Radial" because it mentioned operating two signal more, on 88.1 MHz as Prado Stereo and 98.1 MHz as Musical Stereo, I guess also without an operating license. It seems to be transmitting from the municipality of Palermo in the department of Magdalena, although very close to the cities of Soledad and Barranquilla in the department of Atlantico, where I think they direct their broadcasts. They have been very careful not to mention any means of contact. The signal has moved from 6016.3 to 6017.2. (Ron Howard-CA/Shortwave Bulletin)

EGYPT Tentative A22 schedule for Radio Cairo on SW as registered in HFCC:

1500-1600 Albanian 9410

1700-1900 Turkish 9900

1800-1900 Italian 9440

1900-2000 German 9410

1900-2000 Russian 9870

2000-2115 French 9810

2115-2245 English 9440

2215-2330 Port. 9900

2330-0045 Arabic 9885

0045-0200 Spanish 9890 (NB not all transmissions are active) (British DX Club)

9899.6, Radio Cairo, E-QSL for their Italian Broadcast in 6 days. E-mail: frequency@yahoo.com. Reply from: Syd mm Hanein, Engineer. (Edward Kusalik-AB/DX Fanzine)

ENGLAND Updated shortwave schedule of BBC World Service in English to RUS/UKR:

1200-1300 on 15740 WOF English Sat/Sun, is unchanged

1400-1500 on 15740 WOF English Mon-Fri, ex 1300-1500

1900-2000 on 11680 WOF English Mon-Fri, is unchanged

2000-2100 on 11680 WOF English Sat/Sun, ex Daily px (DX Mix-Bulgaria)

ERITREA 7140, Apr 10, 0355, Voice of Broad Masses, Asmara, Vernacular, comments, East African songs. Ham QRM. (Méndez-Spain/Shortwave Bulletin)

ETHIOPIA 6030, Apr 1, 1907, Radio Oromiya, Addis Ababa, East African songs, Vernacular, comments. (Méndez-Spain/Shortwave Bulletin)

6090, Apr 2, 0346, Voice of Amhara State, Addis Ababa, 0346, Apr 02, Vernacular, comments. (Méndez-Spain/Shortwave Bulletin)

6090, Voice of Amhara State, Geja Jewa, 0311, M in talk, apparent local language, very weak signal with QRN, 04/08. (XM /The Mosquito Coast)

7110, Apr 10, *0400-, Radio Ethiopia, Addis Ababa, Vernacular, comments. (Méndez-Spain/Shortwave Bulletin)

FINLAND 11690, Apr 2, 0941, Scandinavian Weekend Radio, Virrat, rock songs, Finish, comments. (Méndez-Spain/Shortwave Bulletin)

FRANCE Updated schedule of Radio France International to Russia & Ukraine. Probably will start from April 25:

1300-1500 on 17815 ISS French

1500-2030* on 15230 ISS French

2000-2130 on 9500 ISS French

*or till 2000 and then changed to 9500 from 2000 (DX Mix-Bulgaria)

Summer A-22 of TDA Telediffusion d'Algerie via TDF Issoudun:

0400-0459 on 6050 Arabic*Holy Qur'an program

0500-0559 on 7295 Arabic*Holy Qur'an program

0500-0559 on 9535 Arabic*Holy Qur'an program

0600-0659 on 9620 Arabic Holy Qur'an program
 1800-1859 on 13815 Arabic Holy Qur'an program
 1900-1959 on 11985 Arabic Holy Qur'an program
 1900-1959 on 12060 Arabic Holy Qur'an program
 2000-2059 on 9510 Arabic Holy Qur'an program
 2000-2059 on 9660 Arabic Holy Qur'an program
 2100-2159 on 5930 Arabic Holy Qur'an program
 2100-2159 on 9585 Arabic Holy Qur'an program
 2200-2259 on 5930 Arabic Holy Qur'an program
 * including French nx bulletin 0450-0458 & 0500-0513, please check other (DX Mix-Bulgaria)

Unscheduled NHK World Radio Japan IS & ID via TDF Issoudun, April 16:
 0430-0500 on 7355 IS & ID Saturday via SDR Szekesfehervar Hungary
 0430-0500 on 7355 English Mon-Fri & 0500-0530 Sat/Sun Summer A-22 (DX Mix-Bulgaria)

Reception of NHK World Radio Japan in English via TDF Issoudun, April 17:
 0500-0530 on 7355 English Sat/Sun (DX Mix-Bulgaria)

Reception of NHK World Radio Japan in English via TDF Issoudun, April 19:
 0430-0500 on 7355 English Mon-Fri (DX Mix-Bulgaria)

GERMANY Summer A-22 schedule of Shortwave Radio/Shortwave Gold:
 1600-2200 on 3975 WIS 001 kW Music/vary langs
 0700-2200 on 6160 WIS 001 kW Music/vary langs (DX Mix-Bulgaria)

Reception of Bible Voice Broadcasting BVB via MBR Nauen on April 2:
 1400-1500 on 15265 English 1st Sat (DX Mix-Bulgaria)

HCJB Voice of The Andes in Russian and Chechen via MBR Nauen, April 23:
 1529-1601 on 13800 Russian Sat
 1601-1629 on 13800 Chechen Sat (DX Mix-Bulgaria)

GREECE Summer A-22 shortwave schedule of ERT Voice of Greece VOG;
 1700-0700 on 9420 AVL Greek^ not daily & 0700-1700 on 9420 AVL Greek^ very rarely
 New A-22 schedules in other language, except Greek are: ^ 3-4 minutes news Mon-Fri in Arabic/Serbian/Albanian 0705-0715, Spanish/Romanian/Russian 0805-0815, Polish/English unknown times (DX Mix-Bulgaria)

The closure of the Voice of Greece has been delayed. With a decision taken and signed by ERT CEO George Gabritsos, the public radio and TV announced that at the request of the Ministry of Defense, the Avlida shortwave broadcast centre will remain active until May 31. In an earlier decision, ERT had stated that its broadcast on shortwave would end March 31 and had addressed the Ministries of Foreign Affairs and Defense "to decide whether they want the continuation of the shortwave broadcasts, as well as the acquisition of ownership and the operation of the shortwave operation at their own risk". (Greek City Times via TopNews) The ERT press release, also said there were only two staff members, working Monday-Friday. So maybe you shouldn't expect to hear it at weekends. It's always been intermittent. (Alan Pennington-UL/TopNews)

GUAM Frequency changes of KTWR Trans World Radio Asia eff. from May 1:
 1230-1315 NF 11550 Vietnamese Sat, ex 9975
 1245-1300 NF 11550 Vietnamese Sun, ex 9975 (DX Mix-Bulgaria)

KTWR Trans World Radio Asia in Ukrainian in DRM mode will be on air from April 18: 1600-1700 on 15200 Ukrainian DRM, instead from previous May 1 (DX Mix-Bulgaria)

KTWR Guam A22 English Programming
11965 1100-1133 M Tu W Th F
15200 1030-1100 Su DRM
11590 1245-1300 M Tu W
11590 1305-1310 M Tu W Th F. Reception reports to: asiafeedback@twr.org. (Via Alokesh Gupta New Delhi SourceTWR, 8th March 2022/New Zealand DX Times)

Upcoming additional & frequency changes of KTWR Trans World Radio Asia via Agana:
1600-1700 on 15200 Ukrainian Daily DRM mode from April 18
1245-1300 NF 13740 English Sun-Wed, x 11590 from April 24
1300-1304 NF 13740 Hindi Mon-Fri, ex 11590 from April 24
1304-1308 NF 13740 English Mon-Fri, x 11590 from April 24
1315-1330 NF 13740 Bhatari Sun only, x 11590 from April 24
1230-1315 NF 11550 Vietnamese Sat, ex 9975 eff. from May 1
1245-1300 NF 11550 Vietnamese Sun, ex 9975 eff. from May 1 (DX Mix-Bulgaria)

Reception of KTWR Trans World Radio Asia in Ukrainian in AM mode via Agana, April 18: 1601-1701 on 15200 Ukrainian, not in DRM (DX Mix-Bulgaria)

Frequency change of Adventist World Radio from April 24:
1200-1300 NF 9590 SDA Korean, ex 9895 (DX Mix-Bulgaria)

Additional transmissions of AWR KSDA effective April 24:
1330-1400 on 12055 SDA Manumanaw Karen
1400-1430 on 12070 SDA Manumanaw Karen (DX Mix-Bulgaria)

12080, Adventist World Radio (Agat) at 1600 s/on, "This is Guam...", "..the following program is in ___", not English as listed in EiBi and HFCC, songs and talk in subcontinental language, looked on AWR website and found that it is Telugu language. Poor, Apr. 18. (Harold Sellers-BC/DXplorer)

15200, 1601-, KTWR Apr 19 Special Ukrainian programming starting at 1601 with a crash start. No IS. Unfortunately, centered on a frequency with 15 to 20 kHz wide OTH radar. Fair to Fair +. (Salmaniw-BC/DXplorer)

INDIA Summer A-22 shortwave schedule of All India Radio AIR External Service:
0100-0230 on 9874.8 DEL Tibetan
0130-0230 on 13710.0 BGL Indonesian - unregistered in HFCC
0230-0400 on 13690.0 BGL Indonesian is in Summer A-22 HFCC
0145-0315 on 11559.8 DEL Nepali
0300-0430 on 9949.8 DEL Baluchi
0315-0415 on 11559.8 DEL Burmese - unregistered in HFCC
0030-0200 on 9950.0 BGL Burmese is in Summer A-22 HFCC
0430-0600 on 9949.8 DEL Dari - unregistered in HFCC
0330-0500 on 11559.8 DEL Dari is in Summer A-22 HFCC
0430-0600 on 11559.8 DEL Pashto - 0500-0630UT in HFCC
0500-0600 on 15030.0 BGL Arabic
0800-0830 on 15030.0 BGL Persian - unregistered in HFCC
0500-0630 on 17650.0 BGL Persian is in Summer A-22 HFCC
0900-1030 on 11559.8 DEL Nepali
1030-1200 on 13795.0 BGL Chinese - unregistered in HFCC
1030-1200 on 17800.0 BGL Chinese is in Summer A-22 HFCC
1045-1215 on 11589.8 DEL Tibetan
1215-1315 on 15030.0 BGL Swahili
1230-1330 on 9949.8 DEL Baluchi
1230-1400 on 11559.8 DEL Pashto - unregistered in HFCC

1200-1330 on 11560.0 BGL Pashto is in Summer A-22 HFCC
1330-1500 on 9949.8 DEL Dari
1330-1500 on 15030.0 BGL Dari - unregistered in HFCC
1330-1500 on 11560.0 BGL Dari is in Summer A-22 HFCC
1615-1730 on 9620.0 BGL Persian
1730-1930 on 9620.0 BGL Arabic
1930-2030 on 9620.0 BGL French DRM mode
2345-0115 on 13795.0 BGL Chinese - unregistered in HFCC
2345-0115 on 15030.0 BGL Chinese is in Summer A-22 HFCC (DX Mix-Bulgaria)

IRAN Tentative A22 schedule for IRIB Voice of the Islamic Republic of Iran in English:
1520-1620 on 11645-sir 11865-sir
1920-2020 on 9835-sir 9855-sir (HFCC/British DX Club)

IRELAND 6295, 1748, Reflections Europe w/religious format - preaching, hymns, weak but improving signal. Followed past 1920 27/3. (Sked Sundays only). (Bryan Clark-New Zealand/New Zealand DX Times)

JAPAN 11790, NHK World Radio Japan via Yamata reception report submitted with audio files to: www3.nhk.or.jp/nhkworld/en/contact/ f/d QSL card arrived after 7 months. (Babul Gupta-India/Asian DX Review)

KOREA (South) 9570, KBS World Radio (Kimjae) at 1321 in English, man and woman with news to 1322, then news analysis feature. Fair, Apr. 18. (Harold Sellers-BC/DXplorer)

KUWAIT Reception of Radio Kuwait on drifting frequency via Kabd Sulaibiyah, April 13:
from 0500 on 15499v English (DX Mix-Bulgaria)

Frequency changes of Voice of America from April 18:

0000-0100 NF 9895 KWT Tibetan, ex 9855 (DX Mix-Bulgaria)

MADAGASCAR MWV A-22 season schedule for the season March 27 - October 29, 2022:
0300-0400 on 6180 Spanish
0300-0400 on 13760 English
0400-0500 on 11825 English
0400-0500 on 17530 Chinese
1800-1900 on 9885 Russian
1800-1900 on 9845 English
1900-2000 on 13710 Russian
1900-2000 on 11965 English
2000-2100 on 13710 Arabic
2000-2100 on 11965 English
2100-2200 on 11610 Chinese
2100-2200 on 9765 Portuguese (KNLS Website)

Additional transmissions of WCB KNLS Madagascar World Voice via Mahajanga:
0200-0300 on 6180 Spanish tx#2 La Voz Alegre
0200-0300 on 11880 English tx#3 KNLS The New Life Station
2200-2300 on 9765 Portug. tx#3 Palavra Alegre
2200-2300 on 11610 Arabic tx#2 Radio Feda (DX Mix-Bulgaria)

MALAYSIA 11665, Apr 3, 1340, Wai FM. Timm Breyel (Malaysia) has informed me that the indigenous chanting I often hear is probably in one of the dialects spoken in Sabah, and possibly their prayers and is not Islamic; Wai FM continues to have poor audio. Sarawak FM (9835) continues to be off the air. (Ron Howard-CA/Shortwave Bulletin)

MEXICO 6185, Apr 2, 0402, Radio Educación, Ciudad de México, music, Mexican songs, song "Guadalarajara", Spanish, comments, classical music. (Méndez-Spain/Shortwave Bulletin)

MONGOLIA Summer A-22 SW schedule of Voice of Mongolia:

0900-0930 on 12084.9 U-B English
0930-1000 on 12084.9 U-B Mongolian
1000-1030 on 12084.9 U-B Chinese
1030-1100 on 12084.9 U-B Japanese
1400-1430 on 12014.9 U-B Mongolian
1430-1500 on 12014.9*U-B Chinese
1500-1530 on 12014.9*U-B Japanese
1530-1600 on 12014.9*U-B English (DX Mix-Bulgaria)

12015, V of Mongolia English service heard (via webSDR in Japan) on 7 April at 1430-1500, a change from the former time of 1530. Sign-on announcement at the start of the broadcast gives English broadcasts at 0900 on 12085 and also 1430 on 12015. (Alan Roe-UK)

MYANMAR 5915, Apr 5, 1238, Myanmar Radio. Very good news here! Today heard in the clear from 1238 till 1400* UT; no longer with CRI blocking this frequency; NOT // 5985. From 1316+, segment with listeners calling in to request pop Burmese songs; at 1400, went off with the usual brief indigenous music. Today had overall poor propagation, so we should do much better on a day with good conditions. (Ron Howard-CA/Shortwave Bulletin)

NETHERLANDS 5955, Sunlight Radio, is currently out of air. I have contacted the station via email and here is the reply: "Thanks for your mail. It is correct that Sunlite's currently not on shortwave. There are problems with the shortwave transmitter and we've ordered a new one which is currently on its way. I expect to be back on 5955 before the end of the week or maybe the coming weekend. In the meantime you always can listen on Sunlite of course via www.sunlite.nl. Best wishes." (Manuel Méndez-Spain/Shortwave Bulletin)

Julio from Radio Onda mentioned in an email that their 9530 antenna was damaged in strong winds last month and for the time

being is not being repaired. (Allen Dean-UK/British DX Club)

Radio Piepzender, Zwolle, A22 frequencies registered in the HFCC: 5940, 7425, 6185 and 7445. (British DX Club)

NEW ZEALAND Updated schedule of Radio New Zealand Pacific, March 31:

AM mode Daily

2059-0558 on 15720 RAN English

0559-0758 on 11725 RAN English

0759-1058 on 9700*RAN English

1259-1650 on 5980 RAN English

*alt.in HFCC 9585 RAN English, ex 9470

AM mode Mon-Fri

1059-1258 NF 7245*RAN English, ex 9695/9700

*alt.in HFCC 9585 RAN English, ex 9470

AM mode Sat/Sun

1059-1258 NF 7245*RAN English, ex 9695/9700

*alt.in HFCC 9585 RAN English, ex 9470

AM mode Saturday

1651-1858 on 5980 RAN English

1859-1958 on 11725 RAN English

1959-2058 NF 15720 RAN English, ex 13840

DRM mode Sun-Fri

1651-1735 NF 7285 RAN English, ex 6115

1736-1850 on 9760 RAN English

1851-1850 NF 11690 RAN English, ex 13840

1951-2058 on 13840 RAN English (DX Mix-Bulgaria)

Frequency change of Radio New Zealand RNZ Pacific eff. from April 1:

AM mode Mon-Fri

1059-1258 NF 9700 RAN English, ex 7245/9695/9700

AM mode Sat/Sun

1059-1258 NF 9700 RAN English, ex 7245/9695/9700 (DX Mix-Bulgaria)

PALAU T8WH Angel 4 Medorn

0840-0935 on 15680 HBN English Hope Radio Sat

0110-0220 on 15680 HBN English Hope Radio Sun

0810-0920 on 15680 HBN English Hope Radio Sun
T8WH Angel 5 Medorn
0805-0835 on 9965 HBN English Hope Radio Mon/Tue
0805-0850 on 9965 HBN English Hope Radio Wed-Fri
0840-0935 on 9965 HBN English Hope Radio Sat
0810-1250 on 9965 HBN English Hope Radio Sun (DX Mix-Bulgaria)

PERU 4752, R. Huanta 2000, Huanta; 01/04, 2323 – 2335 music and seems ads. Poor and deteriorating over the listening, unreadable. (Lúcio Bobrowiec-Brazil/The Mosquito Coast)

4775. R. Tarma. Apr. 17. 2320-2330. Cumbias. 35343. (Claudio Galaz-Chile/Hard Core DX) 4775, Apr 10, 0125, Radio Tarma, Tarma, comments. (Méndez-Spain/Shortwave Bulletin)

5025. Radio Quillabamba, Apr 17. 2333 - 2355. Music and greetings in Quechua.45333. (Claudio Galaz-Chile/Hard Core DX)

9675, one big surprise is the reactivation of Radio Pacifico, first noted by Claudio Galaz and also heard by Rafael Rodriguez. (Shortwave Bulletin) 9675.1, on April 2 between 0300 and 0400 I was able to listen to the signal of this station presenting the program: Club del Pacific with preaching and evangelical music. They mention Movimiento Nacional de Oración and Pacífico Comunicaciones. At 0430 with pgm: Un Mensaje a la Conciencia con el Hermano Pablo . Despite the low signal, most of the program is audible. I can hear the signal on this frequency again after almost a decade. (Rafael Rodríguez R./ Colombia/Shortwave Bulletin) 9670. R. del Pacifico, Apr 3, 0257-0515. Ads, web page and IDs, 0301, special program with "praise music" in Spanish and testimonials. 0425 ID: "Radio del Pacifico, 640 AM", then music. 0510, man preaching about New Testament. 43443 to 44444

splatters from 9665 R. Voz Missionaria. (Claudio Galaz-Chile/Hard Core DX) 9675, Radio del Pacífico, Lima. Reactivated, SS devotionals at rather weak level from 0530 t/in, SS ID 0544, promo break 0558 and telephone callers 0600 1/4 (Francis-Australia) Unexpected, and significant! I've not seen other reports, but then I don't get time to read everything these days. (Seager-Australia/Australian DX News) 9675, Radio del Pacifico; 08/04, 0420 – 0433 male Spanish. preacher "...estamos orando por Dios...los sacerdotes...ay unas fuersas terribles...vamos levantar las manos...la relacion con Dios...". Fair. (Lúcio Bobrowiec-Brazil/The Mosquito Coast)

PHILIPPINES Summer A-22 schedule of Radio Pilipinas:

0200-0330 on 12010 English
0200-0330 on 15640 English
0200-0330 on 17820 English
1730-1930 on 9960 Filipino
1730-1930 on 12120 Filipino
1730-1930 on 15190 Filipino (New Zealand DX Times)

9400, FEBC Radio Liangyou via Iba f/d QSL card arrived after 6 months for my email report to: arc@liangyou.net. (Babul Gupta-India/Asian DX Review)

RUSSIA DRMode digital bcst. Far East Plan to ITU zone #26. From 27 March 2022:
5735 from 0400-1000 Komsomolsk Amur
9850 from 2000-2300 Komsomolsk Amur
12025 from 2300-0400 Komsomolsk Amur (Anatoly Klepov-Russia, RUSdx #1177 via wwdxc BC-DX TopNews)

Summer A-22 of Radio Purga in DRM via Komsomolsk Amure:

2000-2300 on 9850 K/A 020 kW Russian DRM mode
2300-0400 on 12025 K/A 020 kW Russian DRM mode
0400-1000 on 15735 K/A 020 kW Russian DRM mode (DX Mix-Bulgaria)

SAIPAN Very good signal of Voice of America in Korean via Saipan, April 21:
1200-1300 on 9490 SAI Korean, ex UDO // frequency 9350 PHT Korean no change (DX Mix-Bulgaria)

SOLOMON ISLANDS 5020, SIBC, Honiara. Very good in EE at 0827 on 21/3 (Adams-Australia) 29/3 at 0840, heard with normal audio (no xmtr noise); checked at 0910 to find xmtr noise was back again, mixing with very faint program audio; still later after 0940+ (thru last checked at 1040), was only able to hear the strong SIBC xmtr noise. Clearly a serious problem! (Howard-CA/Australian DX News)

SPAIN A22 schedule for REE:
Mo-Fr: 1500-2300 11670 15520
1800-0200 11940 17855
Sa-Su: 1400-2200 11670 11940 15520 17855
(HFCC) REE English is scheduled 2200-2230
Mon/Wed/Fri on 11670 11940 15520 17855
(British DX Club)

TAIWAN Radio Taiwan International (RTI) has boosted its Russian-language shortwave radio coverage to ensure listeners can access reliable news during the ongoing Russia-Ukraine war. Starting March 27, people in Ukraine and western Russia have been able to tune in to two frequencies to listen to RTI's 30-minute Russian language broadcast. Listeners can hear RTI Russian news and features on 6005 from 2000 to 2030, and 5900 from 1700 to 1730. In response to the conflict, the RTI Russian service has also increased its presence on the Russian social media site VK. It has also set up an account on Telegram, a popular Russian messaging service. (Australian DX News)

Frequency change of USAGM - Radio Free Asia in Korean eff. from April 1:
1200-1258 NF 9580 PAO Korean, ex 9700 to avoid RNZ Pacific (DX Mix-Bulgaria)

Reception of Radio Taiwan International RTI in Russian via Paochung, April 15:
1100-1200 on 9490 Russian (DX Mix-Bulgaria)

11840, Radio Taiwan International via Kouhu report with audio files to: rti@rti.org.tw f/d beautiful round QSL card arrived after 2 months 6 days. (Babul Gupta-India/Asian DX Review)

15320, 0341-, Radio Taiwan Int'l Apr 14 English program of Taiwanese pop music with descriptions. Heard well on my new and enlarged ALA 100 antenna aimed 220/40 degrees. S6 to S7 signal with white noise, which is difficult to tell whether that's just noise, or whether there's some deliberate interference. (Salmaniw-BC/DXplorer)

THAILAND Summer A-22 shortwave schedule of HSK9 Radio Thailand WS:
0000-0030 on 15590 UDO English
0030-0100 on 15590 UDO Thai
0200-0230 on 15590 UDO English
0500-0530 on 17640 UDO English
1000-1030 on 17850 UDO Thai
1200-1230 on 9390 UDO English
1230-1245 on 9390 UDO Vietnamese
1245-1300 on 9390 UDO Chinese
1300-1315 on 9390 UDO Japanese
1315-1330 on 9390 UDO Malaysian
1330-1415 on 9390 UDO Thai
1800-1830 on 9920 UDO Thai
1830-1930 on 9920 UDO English
1930-1945 on 9920 UDO Thai (DX Mix-Bulgaria)

TURKEY Tentative A22 schedule for TRT Voice of Turkey in English:
0300-0400 on 6165 7275
1230-1330 on 15450
1630-1730 on 11660
1830-1930 on 5945
2030-2130 on 9875
2200-2300 on 9830 (Wolfgang Büschel-Germany/British DX Club)

UNITED ARAB EMIRATES Broadcast of Mizzima Radio in Burmese via ENC-DMS Al-Dhabbayya, April 23: 1130-1300 on 17730 Burmese, ex 1200-1300 (DX Mix-Bulgaria)

UNITED KINGDOM The BBC World Service will receive more than GBP 4m in extra funding from the UK government to help counter disinformation about the Ukraine war. The BBC made the request for the money, which will also be used by the Ukrainian and Russian language services to cover urgent and unexpected costs. It welcomed the announcement and said the money would help relocate staff and operations to safe locations. The two language services have had record audiences since the Russia's invasion. The announcement followed a BBC request to the Department for Digital, Culture, Media and Sport and the Foreign Office. "The BBC has seen a big demand for clear, fact-based, impartial journalism to counter disinformation and our teams are working around the clock to bring people the very best independent journalism," BBC director general Tim Davie said. "This funding will also help us with the immediate need to support staff who have been displaced, many of whom are continuing to work and provide vital expertise to the whole of the BBC," he added. In a statement, the government said it would give the World Service emergency funding "To help it continue bringing independent, impartial and accurate news to people in Ukraine and Russia in the face of increased propaganda from the Russian state". Culture Secretary Nadine Dorries said the funding would help the World Service broadcast directly into both countries. Ms Dorries said: "The BBC will ensure that audiences in the region can continue to access independent news reporting in the face of systemic propaganda from a dictator waging war on European soil." Before 2014, the World Service was funded with a grant from the Foreign Office. But since then, it

has been primarily funded by the licence fee, although in 2016 the government agreed to provide funding for it to expand. Between 2016 and 2021, the government has contributed GBP 378m, including GBP 8m announced for 2021/22 to fight disinformation around the world. (BBC News, 23 March 2022, By Malu Cursino via Mike Terry-UK, March 24)

USA WMLK Bethel PA posted on their Facebook a video with message: "Successful load test of the step-start". Maybe this means their new transmitter is nearly ready for use? But Gavin McAvin, the WMLK broadcast engineer for over 40 years, sadly died in January aged 77, which might delay the re-start of WMLK shortwave transmissions which have been off the air since a fire in 2017. (WMLK Facebook; Alan Pennington-UK/British DX Club)

Summer A-22 frequency changes of USAGM Radio Free Asia, various locations:
0030-0130 on 7280 DHA Burmese, canceled
0030-0130 on 15110 SAI Burmese, canceled
0700-0800 on 15110 SAI Burmese, canceled
0700-0800 on 17690 TIN Burmese, canceled
1200-1258 NF 9700 PAO Korean, ex 9580
1200-1300 NF 17860 LAM Tibetan, ex 17720
1300-1358 NF 9900 PAO Korean, ex 9560
1500-1600 NF 11975 DHA Tibetan, ex 12085
1600-1700 NF 15625 BIB Uyghur, ex 15700
1800-1900 NF 11760 KWT Chinese, ex 11745
2200-2300 NF 7355 KWT Tib. Mon, ex 7460
2200-2300 NF 7365 KWT Tib. Tue, ex 7470
2200-2300 NF 7360 KWT Tib. Fri, ex 7465
2230-2330 NF 13715 SAI Khmer, ex 9940 (DX Mix-Bulgaria)

Summer A-22 frequency changes of USAGM - Voice of America VOA and Deewa Radio:
0100-0400 NF 13750 UDO Pashto Deewa Radio, ex 13745
0330-0400 NF 15730 UDO Somali Voice of America, ex 15630#
0400-0500 NF 6140 BOT English/Shona/Ndebele Mon-Fri VOA, x 7270

0500-0530 NF 7225 SAO Kirundi Mon-Fri
Voice of America, ex 9815
1030-1100 NF 15730 SMG Somali Voice of
America, ex 15620
1300-1400 NF 15730 BOT Somali Voice of
America, ex 15620
1400-1500 NF 9910 KWT Tibetan Voice of
America, ex 9920
1400-1500 NF 17490 BIB Tibetan Voice of
America, x 15730
1530-1600 NF 13775 SAO Hausa Mon-Fri
Voice of America, ex 13770
1600-1700 NF 15730 BOT Somali Voice of
America, ex 15620
1700-1800 NF 15730 KWT Somali Voice of
America, ex 15620
2130-2200 NF 7355 BOT Bambara Mon-Fri
Voice of America, x 7360
#to avoid on 15630vTAC 100 kW / 236 deg to
WeAs Persian Iran International at same
time!

Reception of Vatican Radio in Spanish via
USAGM Greenville, April 27:
1130-1145 on 7305 Spanish (DX Mix-
Bulgaria)

New on shortwave via WRMI-01 Okeechobee
is Radio Tirana in English, April 2:
0600-0630 on 7730 English Daily (DX Mix-
Bulgaria)

VANUATU Very good signal of Radio
Vanuatu on new 7260 via Port Vila, April 2:
from 0900 on 7260* PVL 2.5 kW Eng/Bis via
SDR Rutorua, NZ.

* instead of 3945 PVL 2.5 kW 0700-1130 A22
HFCC Database!

* instead of 5040 PVL 2.5 kW the last days
of Winter B-21 (DX Mix-Bulgaria)

7260, Apr 2, 0605, Radio Vanuatu, Port Vila,
songs, English, comments, female, male,
strong carrier, very weak audio, improving
reception at 0620. (Méndez-
Spain/Shortwave Bulletin) 7260, Apr 2,
0550, R. Vanuatu, 0550+. Thanks very much
to Lucio Otavio Bobrowiec for the timely

alert as to the RV change of schedule; this
new schedule now provides me with good
reception; formerly RV was on 7260 till
0559*, when they switched to 5040; today
stayed on 7260. Some highlights: 0612-0618:
PSA from Department of Health about COVID-
19; 0630-0644: Religious songs in English.
0652: PSA spot in French. 0655-0700: PSA's
and commercial announcers in English and
Bislama. 0700-0713: News/sports/weather in
Bislama, 0715: Full ID and list of frequencies.
0721: schedule of upcoming programs. (Ron
Howard-CA/Shortwave Bulletin) 7260, R.
Vanuatu, very strong 0958
w/announcements about Omicron/Covid-19,
ID 0959, 5/4. (Seager-Australia/Australian
DX News) 7260, R. Vanuatu, 03/04, 0903 –
0909 male local accent English speech, 0907
female "good night", short instr. music as
bridge, some 20 seconds silent, slow English
music. Since 01/04 new schedule, good to
excellent reception. (Lúcio Bobrowiec-
Brazil/The Mosquito Coast) 7260, Radio
Vanuatu, 0541-0559* on Apr 15. Poor
reception; mostly C&W songs in English;
0558, start of a radio drama. (Ron Howard-
CA/TopNews)

7890H, Radio Vanuatu, 0944-1101*, on 6/4.
Thanks very much to Lucio Otavio Bobrowiec
(Brazil), for the timely alert of the change of
frequency (ex: 7260), segment of phone
conversations; variety of music; 1001-1006,
news in Bislama; distinctive station's singing
jingle with IDs for "Radio Vanuatu" and
"Voice of Papua New Guinea"; 1045, start of
religious segment; 1100-1101, National
Anthem, then open carrier/dead air. 7890
always had the best reception, even with
some QRM of pulsating noise; 3945 was
mostly unusable. (Howard-CA/Australian DX
News)

11835 (3rd harmonic), Radio Vanuatu,
started *0559 till tuned out at 0730 on Apr
15. Best recent reception so far; mostly
readable; also // 7890 (2nd harmonic), but
not as good. (Ron Howard-CA/TopNews)

VATICAN A22 schedule for Vatican Radio in English:

1130-1200 Friday on 15595-smg 17790-smg (Mass)

1615-1630 Daily on 11620-smg

1630-1700 Daily on 7360-mdc 15565-smg

2000-2030 Daily on 7360-smg 9705-smg (HFCC/British DX Club)

VIETNAM 9840, Voice of Vietnam (Hanoi-Sontay) at 1330 in English, woman with news headlines and news in detail. Very good, //12020, poor Apr. 18. (Harold Sellers-BC/DXplorer)

ZAMBIA Voice of Hope Africa Lusaka:

0400-0800 on 9680 LUV English Daily tx#1

0400-0800 on 11680 LUV English Daily tx#2

1200-1400 on 9680 LUV Swahili Daily tx#1

1400-1600 on 6065 LUV English Daily tx#2

1400-1600 on 9680 LUV English Daily tx#1

1600-2100 on 4965 LUV English Daily tx#1

1600-2100 on 6065 LUV English Daily tx#2 (DX Mix-Bulgaria)

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

Welcome everyone to the May 2022 edition of the Pirate Radio Report.

Pirate activity on the bands has busy as ever. Weekends are the more active times to catch a pirate with 43 meters leading the way. Higher frequencies have been logged as well, with Zeke and his myriad of named stations (*CHIL*, *KUFO*) being heard on 9500 kHz. Easter weekend featured a complete broadcast of the album; Jesus Christ Superstar, brought to us by none other than *WJCS*. *Mix Radio International* continued to showcase classical music with a 6+ hours show on 04-24-22 featuring opera overtures as well as popular classical compositions, all with superb AM-quality sound. It was good to hear Mr. Blue Sky again as *TRI International* relayed an old *Radio USA* show. DJ Liquid Todd from *Radio Boombox* was busy spinning indie rock.pop hits, and Mr. Sycko of *Sycko Radio* fame, activated a special event station on World Weed Day-2022,

identifying as what else? *WEED Radio*. To round-out the highlights from this month's broadcasts, *Wolverine Radio* and *WDDR (Drunken DJ Radio)*, entertained us with a 3-hour broadcast. Commentary from the drunken DJ as well as customized SSTV images for HFU posters are always a highlight of these shows. European pirates continue to trickle-in here at my QTH with *The Vault*, *Mystery Radio 21* and a first time logging of *Radio Sovereign* from Ireland.



There seems to be no slowdown in the number of pirate stations taking to the airwaves. So fire-up your radios, tune around, and enjoy the show! This month's QSL is from 1993, featuring *Radio USA's* 10th anniversary.

Many thanks to this month's contributors: Glenn Hauser, Greg Majewski, Bill Montney, Gianni Serra, and Mark Taylor. Any free-radio related logs, QSLs or stories you'd like to share with others are always welcome!

5800-AM, PIRATE-EUROPE. MIKE RADIO. 1807-1831, 04-13-22, slow song w/ fine organ music, man ID at 1810 (Mike, Mike, Mike, Radio), playing pop, rock songs. English at times above some techno music. Good (Serra-Italy)

6174.95-AM, PIRATE-EUROPE. RADIO YOUNG EUROPE. 1720-1804, 03-20-22, non-stop songs by: KC & The Sunshine Band's "That's the Way I like it", Lady Gaga's "Alejandro", Lipps Inc.'s "Funkytown" fair/almost good at times. (Serra-Italy)

6280.03-AM, PIRATE-EUROPE. RADIO CONTINENTAL. 2017-2036, 04-14-22, playing pop dance songs and music, man dj brief talk at 2024, almost good/fair (Serra-Italy)

6872.76-AM, PIRATE-NA. BOOMBOX RADIO. 0008 - 0039, 04-11-22, Eclectic indie pop/rock music mix from K.Flay, History, The Griswolds & others. OM w/multiple IDs. Some frequency drift throughout broadcast. Some fading but otherwise pretty decent. S7. (Penney-MA)

6876-USB, PIRATE-NA. MIX RADIO INTL. 2035, 04-02-22, Good! Catching here a slow jazz menu. anncr w/ "playing slow-jazz", shout-outs from listeners, ID given, mc w/ "this is the Best jazz from London". Paul Hardcastle next w/ "Happy Go Lucky", YL w/ID. (Montney-MI)

6880-USB, PIRATE-NA. WDOG. 2346, 04-02-22, good. The Human League w/ "Don't You Want Me" OM w/ID and sez "Were playing 1981 mx when the economy was messed up". Kim Wilde w/ "Kids in America", George Harrison w/"All those Years Ago" good selection/thanks! (Montney-MI) 2347-0200, 04-02/03-22, Fair Signal (Majewski CT)

6885-USB, PIRATE-NA. WJCS. 0110 - 0155, 04-16-22, Playing the entire album from the rock opera Jesus Christ Superstar. Synth ID. Good signal. S8. (Penney-MA) 0106, 04-16-22, (Taylor-WI)

6915-USB, PIRATE-NA. WOLVERINE RADIO. 0000 - 0103, 04-24-22, Eclectic and varied music genre with the theme of "Time". SSTV image of clocks. ID by synth OM. Excellent signal. S9+ (Penney-MA)

6915/6900-USB, PIRATE-NA. WDDR-DRUNKEN DJ RADIO. 0105 - 0300, 04-24-22, Wolverine Radio op continues the broadcast as his alter-ego; "The drunken DJ". SSTV image s of HFU posters. Music selections by various artists. Drunken DJ w/ID and chat. Excellent signal. S9+ (Penney-MA)

6920-USB, PIRATE-NA. CLEVER NAME RADIO. 0029, 04-10-22, Good! Here we go: Jack White w/ "Taking Me Back" YL w/ ID and "Request lines are open, I will wait". (Montney-MI) 2325, 4.10.22. (Taylor-WI)

6925-USB, PIRATE-NA. WHIZ. 0055, 03-29-22. "Swimmer" - A great big pile of leaves, "Absence" - Dyan, "Averse to try it" - Jeremy Neale, "Head" - Law, Fair- Poor. (Taylor-WI)

6925-AM, PIRATE-NA. CAPTAIN MORGAN SHORTWAVE. 2321-2334, 04-03-22, Classic Rock music of covers and the likes of The Band and Jimmie Hendrix. Gave the email address. Fair Signal (Majewski-CT)

6925-USB, PIRATE-NA. OUTHOUSE RADIO. 2346, 04-10-22, Mellow guitar, Outhouse w/ ID, OM talking about a new guitar into nice piece, ID, "Setting Sun" - Blucas. Shortly after end of "Setting Sun" SSTV of a goat with its tongue sticking out. (Taylor-WI)

6925-AM, PIRATE-NA. YEAH MAN RADIO. 2336 04-15-22, On-going mx OM anncr w/ ID, Petula Clark w/ "Don't Sleep in the Subway," (Montney-MI), 2347-0034, 04-15/16-22, Yeah Man doing his Million Dollar Weekend show with songs from 1967. Good signal (Majewski-CT)

6930-USB, PIRATE-NA. RADIO OLAH. 1957. 03-20-22, Running into the MC-5 w/"Kick Out the Jams", OM w/ ID. "Slow Down you move too fast" - Simon and Garfunkel, anncr comments we want "fun music". (Montney-MI).

6930-USB, PIRATE-NA. TWO DOG RADIO. 0219, 04-04-22, On right after Outhouse Radio went off with SSTV (2 dogs with guy with arms around them in the middle "2 Dog Radio"), country song about a man and his dog, blues song about dogs, ID, another blues about dogs, ID into more blues. Poor - fair. (Taylor-WI)

6932-USB, PIRATE-NA. ANGRY COW RADIO. 0141, 04-11-22, Chaotic music, chicken clucking & crowing, more chaotic music, cow moos, rapidly alternating music and sort of moos / bellows, chaotic music, 0156 moos, rap, ID, speech loop, "Cattle Call" - Eddy Arnold, "Slaughterhouse Blues" - Cotton Pickers, "Burger man," - ZZ Top, (Taylor-WI)

6934.9-AM, PIRATE-NA. KMUD. 0306, 04-17-22, JBA talk, music, only sign of a pirate as I haven't been searching earlier during `prime time` UT Sundays. These say it's KMUD on `6935`: <https://www.hfunderground.com>

/board/index.php/topic,96019.0.html.
(Hauser-OK)

6935-USB, PIRATE-NA. PISS ANT RADIO. 0134, 04-10-22, Meditative, instrumental, mostly guitar, music, 0145 SSTV ("Piss Ant Radio 10Watts of Piss Ant Power" cartoon drawing of an ant.) (Taylor-WI)

6935-USB, PIRATE-NA. DAMN SKIPPY. 0140, 04-16-22, . SSTV ("Damn Skippy"), continues with 2 electronica, Outhouse talking briefly, Shiantrara, Waterfall - "Why was Darth Vader referred to as Lord Vader ... Because calling him master Vader made them giggle", Outhouse taking and ID for "Outhouse Radio". Good deteriorating to poor by 0205. Taylor-WI)

6940-LSB, PIRATE-NA, WTF RADIO WORLDWIDE. 0113, 04-24-22. "The poet and the painter" - Jethro Tull, "What do you do when the old man's gone? / From the Upper Class" - Jethro Tull, ID. (Taylor-WI)

6950-USB, PIRATE-NA. WCAT. 2252, 04-07-22, fair-good. Electronic mx on-going / OM w/ possible ID next (bad copy), OM continues w/"We are the one, you do not understand" The Todies w/"Possum King," (Montney-MI)

6950- USB, PIRATE-NA. LIME IN THE COCONUT RADIO. 2216, 04-23-22, Eric Clapton and his "I Shot the Sheriff", OM w/ ID. The Police show up w/ "Can't Stop Losing You", "Message In a Bottle", Another ID, Police back w/ "Walking On the Moon", then- "Don't Stand So Close to Me". (Montney-MI)

6950-AM, PIRATE-NA. CAPTAIN MORGAN SHORTWAVE. 0012-0055, 04-25-22, Nice show of R&B tunes. I did hear two versions of the song Rocket 88. Fair Signal. (Majewski-CT)

6955-AM, PIRATE-NA. ION RADIO. 2221, 04-08-22, fair. Sheryl Crow pops in w/"Now That

Your Gone", Queen w/"The Show Must Go On". YL w/ID. (Montney-MI) Fair/good signal (Majewski CT)

6955-AM, PIRATE_NA. WDOG. 2334, 04-15-22, dog howls, "W D O G" into some talk and a fade so I can't tell what the music is., signal comes up to "Low Rider" other era songs ... 2355 "You ain't seen nothing yet" - BTO, "Born to be wild," "I'm a man" - Chicago, few howls. (Taylor-WI), 0035- 057, 04-16-22, show of songs with a Cow Bell in theme. Good signal (Majewski-CT)

6960-AM, PIRATE-NA. BALLSMACKER RADIO. 0054, 04-16-22, "Good Golly Miss Molly" - Little Richard, "Thank God It's Friday," - Love and Kisses, into program of somewhat God / heaven, etc. music for "Good Friday". Very good to good. (Taylor-WI) 0131, 04-17-22. (Montney-MI)

6970-AM, PIRATE-NA. ION RADIO. 2054-2159, 04-03-22, played Doors Riders in the Storm. Did SSTV image ids with the HF Underground posters avatar images. Voice ID by female voice. Good Signal (Majewski-CT)

6970-AM, PIRATE-EUROPE. RADIO SOVEREIGN. 2310 - 2341, 04-04-22, Nice Grey Line propagation across the pond. Music selections from ELO, Bob Marley, Herb Albert & others. DJ chat w/ID. Noisy conditions. S5. (Penney-MA)

9500-USB, PIRATE-NA. CHIL. 2224-2303, 04-10-22, 2310-2317, 04-15-22, Nice mellow chill tunes including some older ones by Beatles and Bee Gees Had SSTV images with ID. (Majewski-CT)

9500-USB, PIRATE-NA. KUFO, 2310-0112, 04-24/25-22, A show of UFO stories about alien abduction, UFO incidents in the UK and at Pascagoula Mississippi. I have heard this same show in the past. Good signal (Majewski-CT)

15785-AM, PIRATE-NA. YHWH. 1508, 04-08-22, in routine band scan, I discover anti-Christ pirate Station YHWH on new frequency, the signature vocalizations of Josiah needing no explicit ID. No problem from the 1 kW DRM in Germany allegedly 24h on 15780-15790 (Hauser-OK)

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.




Contributors' Page

The follow 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, S
Mark TAYLOR , Madison, WI		P
Rich D'ANGELO , Wyomissing, PA		L
Vince HENLEY , Anacortes, WA		L
Eric BUENEMAN , Hazelwood, MO		L
Gianni SERRA , Roma, Italy		P
Glenn HAUSER , Enid OK		P
Ed CICHOREK , Somerset, NJ		L
Pamela PRODAN , Wilton, ME		L
Bill MONTNEY , Monroe, MI		P
Richard CUSHMAN , Dixon, CA		L
Randy WYNN , Norfolk, NE	PL-660	L
Alan ROE , Teddington, U.K		LN
Anker PETERSEN , Skovlunde, Denmark		LN
Bob WILKNER , Pompano Beach, FL		LN

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.

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. 

Loggings

Dave Turnick • 372 Spohn Road • Sinking Spring, PA 19608 • david.turnick@gmail.com

- 5505 **IRELAND Shannon VOLMET** – 3/4 0733 noted with weather reports for various European airports, “This is Shannon VOLMET, Shannon VOLMET” ID in English. SIO 333 in USB mode. (Bueneman-MO)
- 5910 **ROMANIA Radio Romania Intl** Romanian 0240-57 Schumann piano concerto, off suddenly; good 3/20 (Prodan-ME)
- 5950 **UNITED STATES WRMI** Okeechobee, FL 0000-0100 Texas Radio Shortwave encore broadcast of Channel 292 November 8, 2020 show featuring Texas musicians; “I Can't See Texas From Here,” “If You're Going To Play In Texas, You Gotta Have a Fiddle in the Band”; fair-good 3/12 (Prodan-ME)
- 5950 **UNITED STATES WRMI** Okeechobee, FL 0300-20+ “Cruising' The Decades – 100 Years Of Musical History,” starting with 1913 recording of American Premier Quartet's “Sailing Down the Chesapeake Bay” (side note: this was one of the theme songs of WBALBaltimore's jazz program “The Harley Show,” back in the 1960s +/-); good 3/20 (Prodan-ME)
- 5960 **GERMANY Mighty KBC** 0005-0100 music, incl Beatles “You Really Got a Hold on Me”; fair-good 3/27 (Prodan-ME)
- 5980 **UNITED STATES Radio Marti** Spanish 1233-51 m spkg to m on tel re Panama; //7355 //7435; all freq fair-very good 3/19 (Prodan-ME)
- 5995 **MALI Radio Mali** French 2300-20 m announcer “tous les Samedis,” music; poor+ 3/11 (Prodan-ME)
- 5995 **MALI Radio Television du Mali** - Kati (Bamako), 2348-0003* Mar 28, program of local vocals and instrumentals hosted by a man announcer with French language talks. At 0000, another man announcer with station ID and several announcements followed by a man and woman announcer opening a new program which was almost immediately terminated. Fair to good. (D'Angelo-PA)
- 6100 **CHINA China Radio Intl** 2323-32 Chinese music; fair 3/11 (Prodan-ME)
- 6155 **AUSTRIA Oesterreich.Rundfunk** – Moosbrunn, 0509-0526 Apr 17, woman announcer with the new sin the German language. Brief instrumental music followed by a talk by a man. Classical music from 0520. Fair. (D'Angelo-PA)
- 6160 **UNITED STATES WBCQ** Monticello, ME 0140-45 The Lumpy Gravy Show – Dylan “You're Going to Have to Serve Somebody”; good 3/27 (Prodan-ME)
- 7220 **ROMANIA Radio Romania Intl** English 2340-50 music, “This is Bucharest, Radio Romania Intl,” “Listeners' Letterbox,” letter from Indian student evacuated from Ukraine via Romania; very good 3/11 (Prodan-ME)
- 7250 **CHINA China Radio Intl** Spanish 2339- f ann over piano; poor 3/11 (Prodan-ME)
- 7290 **CHINA CNR1** Beijing – 3/6 1015 noted with commentary and promos in Chinese. SIO 323. (Bueneman-MO)
- 7300 **CHINA China Radio Intl** Chinese 2336-39 f & m announcers; poor 3/11 (Prodan-ME)

- 7305 **UNITED STATES *Vatican Radio*** Greenville, NC Spanish m Ann 1239-45 off; good 3/19 (Prodan-ME)
- 7350 **CHINA *China Radio Int'l*** – Kashi, 0030-0116 Mar 23, woman announcer with English news magazine program discussing Ukraine situation and conducting interviews on various subjects. Poor to fair reception. (D'Angelo-PA)
- 7375 **UNITED STATES *Radio Marti*** Greenville, NC Spanish f & m Ann; fair-good 3/11 (Prodan-ME)
- 7410 **CHINA *China Radio Int'l*** in JJ to FE. April 16, 2022, 1431 – 1438. SIO 444. POP MX, OM singer. Minor QRN / QSB. Good signal easy listening. YL announcer in JJ with commentary, then more MX. (Henley, WA)
- 7410 **CHINA *China Radio Int'l*** in JJ to FE. April 9, 2022, 1352 – 1357. SIO 444. MX. YL announcer in JJ. Good signal, minor QRN / QSB. Listenable. YL with long monologue. CRI ID at 1356. (Henley, WA)
- 7465 **PHILLIPINES *Voice of America*** Korean 1252-1301 f Ann, music theme from “A Summer Place,” “this is the Voice of America, signing off”; poor 3/19 (Prodan-ME)
- 7730 **ALBANIA [non] *R Tirana***, Sun Apr 17 at 0608, WRMI S9+10 with travelog of Albania, S9+10, so R. Tirana is still the primary occupant at 0600, although on April 13 Ivo Ivanov reported RFPI at this time: that may be only weekly on Wednesdays (Glenn Hauser, OK)
- 9350 **PHILIPPINES *Voice of America*** in KK to FE via Tinang. April 9, 2022, 1343 – 1351. SIO 434. YL announcer in KK, background MX. Moderate QRN / QSB. Flute MX followed by jazz saxophone MX. (Henley, WA)
- 9410 **PHILIPPINES *Voice of America*** in KK to FE via Tinang. April 16, 2022, 1420 – 1430. SIO 444. POP MX in EE, talk, YL announcer in KK. Continued POP MX, VOA ID. (Henley, WA)
- 9435 **NORTH KOREA *Voice of Korea*** via Kujang – 3/5 1132 noted with commentary in French. SIO 323. (Bueneman-MO)
- 9439 **EGYPT *Radio Cairo***, April 20 at 2204, R. Cairo with extremely distorted but recognizable English, very strong into UTwente. Something's always egregious in Egypt (Glenn Hauser, OK)
- 9490 **PHILIPPINES *Voice of America*** Korean 1256-1300 f Ann then m Ann “www.voa...” & off; fair 3/14 (Prodan-ME)
- 9550 **SÃO TOMÉ E PRÍNCIPE *Voice of America*** relay – 3/5 0602 noted with news and analysis in English. SIO 323. (Bueneman-MO)
- 9580 **OMAN *BBC*** 2224 4-5-22. Male in English talking sports news. At 2230 heard “BBC World Service” ID, very weak. (Cichorek-NJ)
- 9580 **ALASKA *KNLS*** religious broadcast in EE April 4, 2022, 1458 – 1500. SIO 444. POP MX with station sign-off. Tail end of EE broadcast. (Henley, WA)
- 9630 **SOUTH KOREA *Radio Korea Int'l***, 14-Feb 1530 in EN with News. Good reception. (Cushman-CA)
- 9666 **BRAZIL *RVM***, April 20 at 0632, standout signal from RVM even tho only S8/S9, with .br website and 3:32 time check, back to music, which sounds more secular than sacred without understanding any lyric. Will it ever reach 9667.000? Some still log this as if on nominal 9665! (Glenn Hauser, OK)
- 9720 **KUWAIT *Radio Free Asia*** 2329 4-3-22. Tuned in to woman in Chinese with talk heard under Radio Havana. Poor (Cichorek-NJ)

- 9760 **ALASKA KNLS** religious broadcast in CC to FE. April 5, 2022, 1553 – 1600. SIO 433. OM with sermon in CC to FE. Moderate QRN, steep QSB to JBA. (Henley, WA)
- 9800 **IRAN Voice of Iran Radio** Arabic 1305-07 m Ann; poor 3/14 (Prodan-ME)
- 9800 **PHILLIPINE Voice of America** Korean 1308-23 f Ann with song (in English); fair-3/14 (Prodan-ME)
- 9875 **UNITED STATES AWR** Rancho Simi, CA 0213-32 interview with Kim Andrew Elliott re importance & relevance of radio & shortwave in current Ukraine war; Waves can; AWR and KVOH internet addresses; good 3/20 (Prodan-ME)
- 9885 **EGYPT Radio Cairo** – Abis, 2330-0004 Apr 11, tuned in to 5 time pips followed by a man announcer talking in the Arabic language. Mainly talks by occasional vocal selections until five more time pips at the top of the house. Good signal with some fading but awful modulation. (D'Angelo-PA)
- 9895 **GERMANY Radio Farda** via Biblis – 3/4 0725 noted with commentary in Farsi. SIO 323. (Bueneman-MO)
- 9940 **UNITED STATES WTWW** the Voice of Freedom 2137 4-6-22. Music from the 60's, 70's and 80's with many ID's "this is the voice of freedom WTWW" Jingle ID's. Very good signal. At 0233 host gave instructions on stringing an antenna for a portable radio for better reception. SIO444 (Cichorek-NJ)
- 9940 **UNITED STATES WTWW** 16-March 0233. Playing oldies for the people of Ukraine. Listners were calling in expressing love for Ukraine. (Wynn-NE)
- 9975 **GUAM TWR** Chinese 1150-1200 f & m in dialogue, guitar, 1159 "TWR" twice then internet address; fair- 3/19 (Prodan-ME)
- 9975 **GUAM KTWR** Merizo – 3/5 1138 noted with Christian teaching in Chinese. SIO 323. (Bueneman-MO)
- 11590 **KUWAIT Radio Free Asia** Chinese 1513-16 f Ann; poor 3/12 (Prodan-ME)
- 11630 **CHINA CNR 17**, in Kazakh. April 17, 2022, 1453 – 1506. SIO 444. YL announcer. Target interior China. YL singing ethnic Kazakh MX. Good signal, listenable. Mixed OM chorus follows at 1457 with possible Slavic MX. (Henley, WA)
- 11660 **CHINA China Radio Int'l** in Urdu to South Asia. April 17, 2022, 1415 – 1424. SIO 555. Hindu / Pakistani ethnic MX. YL announcers with commentary between MX pieces. Animated conversation. (Henley, WA)
- 11675 **CHINA China Radio Int'l** in Hindi to Pakistan. April 9, 2022, 1320 – 1340. SIO 433. MX, ethnic songs, OM singer in Hindi, Sitar MX. YL announcer in Hindi between songs. Moderate QRN / QSB. (Henley, WA)
- 11700 **FRANCE Radio France Int'l** – Issoudun, 2011-2029* Apr 11, man announcer speaking in the listed Hausa language. Brief instrumental music segment followed by a talk by a man and woman. Closed program with a female vocal selection. Fair. (D'Angelo-PA)
- 11710 **NORTH KOREA Voice of Korea** in FF to NAM. April 4, 2022, 1450 – 1455. SIO 333. YL announcer between MX pieces. Instrumental marching MX. Steep QSB, Heavy QRN, but listenable. (Henley, WA)
- 11725 **CHINA China Radio Int'l** in GG to Europe. April 17, 2022, 1606 – 1625. SIO 444. Pleasant instrumental MX. Moderate QRN, shallow QSB. (Henley, WA)
- 11765 **CHINA China Radio Int'l** in EE to Pakistan. April 17, 2022, 1447 – 1452. SIO 333. OM interviewing YL in EE. Popular culture conversation. Pro-Chinese cultural model. Thin propaganda. (Henley, WA)
- 11790 **GERMANY Adventist World Radio** – Nauen, 2041-2059* Apr 11, a woman announcer with a long religious talk in the listed Yoruba language. Nice group

- vocal selection at 2042 followed by a religious talk by a man announcer. Group singing closed the program. Fair. (D'Angelo-PA)
- 11810 ENGLAND BBC** English 1912-33+ news at 1930 then "This is Africa" music & interviews; fair 3/12 (Prodan-ME)
- 11815 BRAZIL Radio Brasil Central** – Goiânia, 0002-0056 Apr 1, man and woman announcers with news and news features program in the Portuguese language. Nice station ID at 0030 followed by pop music program hosted by another man announcer. Fair signal. (D'Angelo-PA)
- 11815 JAPAN NHK Radio Japan** in Burmese to SEA. April 4, 2022, 1440 – 1448. SIO 444. OM with monologue in Burmese. Slow, shallow QSB, minor QRN. YL joins at 1444. OM / YL conversation and/or humor, perhaps a radio play. (Henley, WA)
- 11825 BRASIL Radio Brasil Central** Portuguese 2246-55 m Ann, songs "Oh Carol" in English, others Portuguese; poor-fair 3/19 (Prodan-ME)
- 11825 AUSTRALIA Reach Beyond Australia** via Kununurra – 3/5 1140 noted with Christian teaching in Dzongkha. SIO 323. (Bueneman-MO)
- 11825 MADAGASCAR World Christian Broadcasting** – Mahajanga, 0400-0428 Mar 24, opening of the English language program with "This Day in History" feature followed by religious features. Good signal. (D'Angelo-PA)
- 11825 AUSTRALIA DRBA**, April 19 at 1525, Burmese song S7/S9, the Myanmar service of RBA at 1500-1530. Today the signal is about equal to 11620, VOMKorea to Maldives from secret site; not that that prove anything, else when much weaker than that (Glenn Hauser, OK)
- 11880 CUBA Radio Habana Cuba**, April 20 at 2315-2335+, RHC with S9/S6 of dead air except for traces of English modulation while the carrier crackles cutting off and on. Something's always wrong at RHC (Glenn Hauser, OK)
- 11905 SRI LANKA SLBC** via Trincomalee – 3/19 0050 noted with South Asian music and commentary in Bengali. SIO 444. (Bueneman-MO)
- 11910 CHINA China Radio Int'l** in RR to Central Asia. April 17, 2022, 1442 – 1446. SIO 444. YL announcer in RR, POP MX, talk. Ballad sung by YL. Listenable. (Henley, WA)
- 11930 UNITED STATES Radio Marti** in SS, to Cuba. April 17, 2022, 1436 – 1439. SIO 343. OMs in SS talk. Moderate QRN and shallow QSB. Listenable. (Henley, WA)
- 11940 SPAIN REE** Spanish 2242-46 2 fast speaking f Ann; very good 3/19 (Prodan-ME)
- 11975 ROMANIA Radio Romania Int'l** Romanian 1520-23 f & m Ann, sta ID; fair-good 3/12 (Prodan-ME)
- 11975 CHINA CGTN Radio** via Kunming – 3/19 0044 noted with commentary in Chinese. SIO 323. (Bueneman-MO)
- 12025 SINGAPORE BBC WS** in EE to the ME with a sports program, including a soccer match played at Wembley stadium. April 17, 2022, 1508 – 1543. SIO 555 Enthusiastic YL announcer. Excellent signal. OM joins at 1511. It sounds as if the entire match will be broadcast via the BBC WS. (Henley, WA)
- 12025 SINGAPORE BBC** in EE to ME via Kranji. April 5, 2022, 1534 – 1543. SIO 434. BBC coverage of the Ukraine war. Focus on the task of controlling Russia and Russian atrocities and the killing of civilians. (Henley, WA)
- 12030 SPAIN REE** Spanish 1524-26 m Ann; poor 3/12 (Prodan-ME)
- 12035 THAILAND Voice of America** Deewa Radio in Pashto to Afghanistan via Udon Thani. April 17, 2022, 1431 – 1435. SIO 444. OMs in animated conversation, YL with MX clip, and intro to possible radio play. (Henley, WA)

- 12035 THAILAND *Voice of America Deewa Radio*** in Pashto to Afghanistan via Udon Thani. April 9, 2022, 1416 – 1421. SIO 333. YL commentator. Heavy QRN, shallow QSB. Listenable with difficulty. (Henley, WA)
- 12045 THAILAND *Voice of America*** in KK to FE via Udon Thani. April 17, 2022, 1425 – 1430. SIO 555. Excellent signal. OMs in conversation. (Henley, WA)
- 12045 THAILAND *Voice of America*** in KK to FE via Udon Thani. April 4, 2022, 1432 – 1437. SIO 444. Same program as on 12080 above. Different country and transmitter. YL joins at 1436. (Henley, WA)
- 12045 THAILAND *Voice of America*** in KK to FE. April 7, 2022, 1433 – 1442. SIO 555. VOA via Udon Thani with mixed KK / EE commentary. OM announcer. Focus on North Korean weaponry, especially nuclear ICBM capability. Long discussion and monologues. Good signal easy listening. (Henley, WA)
- 12050 CHAD [non] *R. Ndarason Int’le***, April 19 at 0620, S9/S7 with heavy flutter, French and music: R. Ndarason Internationale via Woofferton UK at 0600-0700; also despite WEWN at 1900-2100 (Glenn Hauser, OK)
- 12075 SINGAPORE *BBC*** in EE to ME. April 7, 2022, 1450 – 1600. SIO 444. Talk of golf and Tiger Woods return to the Masters. Broadcast via Kranji. YL host, OM interviewee. Can Tiger Woods win? Talk of Pakistani politics and no confidence vote against the current leader. YLs in political talk exploring possible outcomes of the vote. Will the leader resign? BBC WS ID at TOH. Mention of BBC schedules. Time pips at TOH. (Henley, WA)
- 12080 PHILIPPINES *Voice of America*** in KK to FE via Tinang. April 4, 2022, 1427 – 1432. SIO 444. OM in strident KK monologue. Minor QRN / QSB. Good signal easy listening. (Henley, WA)
- 12095 ASCENSION ISLANDS *BBC*** – English Bay, 2133-2152 Mar 23, program about Bob Marley’s music hosted by a man announcer with English language commentary. Good signal. (D’Angelo-PA)
- 12160 UNITED STATES *WWCR 2*** in EE from Nashville, TN. April 5, 2022, 1510 – 1534. SIO 333. CSC Talk Radio with Beth Ann. Advertisements for Made in USA products and services. Conservative talk. Advertisement for “Range” magazine. Animal Rights activism warning. Advertisements for “My Pillow” and sheets. Moderate QRN / QSB. Some pulse-type QRM. (Henley, WA)
- 13530 CHINA *CNR 1*** jammer to FE, April 7, 2022, 1527 – 1432. SIO 433. CNR jammer, probably jamming Taiwan Sound of Hope. Talk, advertisements, MX clips, multiple OM / YL announcers. Heavy QRN. (Henley, WA)
- 13590 SAO TOME *Voice of America*** 1919-23 music; poor 3/12 (Prodan-ME)
- 13605 UNITED STATES *Radio Marti*** in SS to Cuba. April 17, 2022, 1559 – 1605. SIO 333. ID at TOH. MX, chorus MX with ID. Noisy signal, Heavy QRN, steep QSB. Listenable with difficulty. OM announcer with news, then YL joins with talk. (Henley, WA)
- 13700 CUBA *Radio Habana Cuba*** Spanish 1533-42 songs then f talking; poor+ 3/12 (Prodan-ME)
- 13710 CHINA *China Radio Int’l*** in EE to Europe. April 5, 2022, 1441 – 1452. SIO 444. YLs talking about excessive drinking and bar hopping. Excessive shopping seen as morally bad. Subtle government control of every aspect of personal life accepted. Multiple conversations, similar theme. (Henley, WA)
- 13755 CHINA *China Radio Int’l*** in CC to Europe. April 4, 2022, 1506 – 1512. SIO 333. Moderate QRN / QSB. Listenable. Mixed OM and YL announcers in conversation. (Henley, WA)

- 15120 **ASCENSION ISLAND *Voice of America*** relay – 3.23 2145 noted with commentary in Bambara. SIO 323. (Bueneman-MO)
- 15410 **CHINA *China Radio Int'l*** in CC to Europe. April 5, 2022, 1435 – 1440. SIO 444. Good signal. Mixed OM and YL commentators. Minor QRN. Multiple conversations, MX clips, and background MX. News clips in various languages depending on source. (Henley, WA)
- 15435 **PHILIPPINES *BBC*** in KK to FE via Tinang. April 17, 2022, 1545 – 1555. SIO 444. YL announcer with the occasional participation of an OM. Moderate QRN / QSB. BBC ID. Various news items and clips. Language lesson begins at 1549. KK / EE. “Goodbye. It was nice to meet you” root theme. (Henley, WA)
- 15460 **BOTSWANA *Voice of America*** Hausa, talk, 1523 – off at 1530; poor 3/13 (Prodan-ME)
- 15520 **SPAIN *REE*** 2102-08 Spanish 2 m with sports scores; very good 4/3 (Prodan-ME)
- 15550 **VATICAN CITY *Radio Tamazuj*** 1500-25 Sudanese m & f announcers talk & songs; heard Sudan & radio Tamazuj good 3/13 (Prodan-ME)
- 15550 **CLANDESTINE *Radio Dabanga*** via Issoudun, France – 3/10 1601 noted with news and commentary in Darfur Arabic. SIO 333. (Bueneman-MO)
- 15565 **VATICAN STATE *Radio Vatican*** in Amharic to East Africa. April 7, 2022, 1540 – 1548. SIO 333. OM with long monologue. Heavy QRN, minor QSB. Listenable. MX clips. From Santa Maria di Galeria. (Henley, WA)
- 15575 **KOREA *KBS World Radio*** Korean 1414-21 2 m in discussion; fair-good 3/15 (Prodan-ME)
- 15580 **BOTSWANA *Voice of America*** 2000-2100 news – quotes from Selewski & Biden, El Salvador; 2006+ “African Beat” music; fair-good 4/6 (Prodan-ME)
- 15590 **CHINA *China Radio Int'l*** – Urumqi, 1247-1318 Mar 30, man and woman announcers with short English language news features in a World Affairs program. Another man with news at 1300 followed by a time check for eight minutes after the hour at 1308. Poor to fair reception. (D’Angelo-PA)
- 15590 **THAILAND *Voice of Thailand*** - Ban Dung, Udon Thani Prov., *2357-0029* Mar 30, open carrier noted until a man announcer opened the program with “This is Radio Thailand News”. A man and woman gave the National News. Later in the broadcast there were Voice of Thailand station IDs so this station seems to be only somewhat committed to the new name. Poor reception. (D’Angelo-PA)
- 15640 **VATICAN CITY *Radio Izadi*** – Radio Free Afghanistan Dari 1421-30 f interviewing m; heard “Taliban”; good 3/15 (Prodan-ME)
- 15730 **UNITED STATES *Voice of America*** Greenville, NC 2059 “Yankee Doodle” & off; good 4/3 (Prodan-ME)
- 15730 **BOTSWANA *Voice of America*** French 1855-1902 Sta ID; fair 3/15 (Prodan-ME)
- 15730 **ENGLAND *BBC*** 1425-1500 BBC World Service News Hour headlines at 1430, then “science of massage”; poor-fair 3/12 (Prodan-ME)
- 15740 **ENGLAND *BBC*** 1400-50 BBC World Service News Hour Ukraine news, Selewski to address UN Security Council; more; good 4/5 (Prodan-ME)
- 17720 **TURKEY *Voice of Turkey*** Arabic 1536-40 music, song with f announcer; poor-fair 3/13 (Prodan-ME)
- 21630 **ASCENSION ISLAND *BBC World Service*** relay – 3/10 1608 noted with commentary and analysis on the war in Ukraine in English. SIO 333. (Bueneman-MO)

Publisher's Corner

Richard Cuff • P.O. Box 3292 • Allentown, PA 18106 • hq@naswa.net

The inflation bug has not struck NASWA – yet

Inflation has certainly dominated economic news in the USA, and any trip to the gas station or the supermarket leaves a larger hole in the wallet than before. 2022 saw a slight increase in postage costs for the *Journal* but not enough to warrant any increase in membership cost. We'll continue to monitor postage and printing costs in the coming months to see if we need to bump up membership fees. We know that many members – especially our older members – don't have as much income flexibility as they might have in their younger years, and we'll certainly keep that in mind as we monitor printing and postage costs.

Time for summertime shack and antenna projects!

Here in the Northern hemisphere we are working our way through spring and increased daylight hours. That tends to reduce the number of hours available for DXing but the better weather means we can get outside and improve our antennas, feed lines, ground connections, and maybe visit a local park with a portable shortwave radio to get away from the electrical noise that plagues a modern home.

We'd love to hear about the projects you're considering for the coming months, and then hear about how they've improved your listening conditions once you've completed them – those items would be perfect topics for our *Musings* column. Perhaps you've done

some A/B comparisons with a new antenna configuration or something else more involved...that might be a topic suitable for our monthly features column, *Shortwave Center*. In either case, contact the editor responsible for the column – their information always appears at the beginning of their column – with a submission or to brainstorm a topic for *Shortwave Center*.

Welcome to our new members!

We have a few new folks join the club each month – and the war in Ukraine, and the increase in shortwave broadcasts targeting Ukraine – have piqued interest in shortwave radio. We have some new members that are new to the hobby, and other new members who are dusting off old radios that they haven't touched in a few years...and have rejoined the club after years of being away in order to become more current in the hobby.

If you're new to shortwave listening, it can be a bit intimidating to pick up the *NASWA Journal* and make sense of the jargon, shorthand text, and time conventions that might not be familiar to you. This is where our groups.io-based e-mail group can be a helpful resource - there's a ton of shortwave listening experience among club members, and you can ask questions there and tap the wisdom of the assembled multitude that participates. Club member Dan Ferguson manages the group, and you can contact him directly at k4voa@zerobeat.org or visit the club's subscription page at <http://groups.io/g/NASWA>. Club members can answer

questions in the group itself and also recommend you to other resources that are just a mouse click away.

While I'm on the topic of new members, if you're new to the club - whether an experienced DXer or new to the hobby - we invite you to introduce yourself to the gang

via our monthly *Musings* column. Each one of us has a unique story to tell, and a paragraph (or two) about yourself, your experiences, and your interests would also be something that folks would enjoy reading about!

73 DE Richard



Jerry Berg ♦ 38 Eastern Ave ♦ Lexington MA 02421 ♦ jsberg@rcn.com

<www.ontheshortwaves.com> Update, March 27, 2022 -- Over the years, many of the larger shortwave stations sponsored listener "clubs," usually to promote listener loyalty (and maybe keep the mail count up). Typically they required submission of a certain number of reception reports, which would gain you various trinkets, certificates, newsletters, contest participation or other benefits. An offshoot of this model was the Monitoring Panel of Radio RSA, South Africa. We have already posted two of the Monitoring Panel membership certificates (in "DX History-I/Stations/Certificates V"). Now, in "DX History-II/SWLing & DXing," we have posted a copy of the "Radio RSA Monitoring Panel Handbook," which was published in 1980. It contains much interesting material about shortwave transmitting and receiving, how to grade and report reception, antennas, etc., together with information about the Monitoring Panel program and Radio RSA itself, plus a 1987 memo to Monitoring Panel members. Look for the red "New." -- And under "Specialized Resources/The DX Recordings of Tetsuya Hirahara," we have four "new-old" recordings of stations in Bolivia. Thanks, Tetsuya.

<www.ontheshortwaves.com> Update, April 3, 2022 -- In "DX History-I/Stations," follow the red "New" to a writeup about the first shortwave broadcaster in Portugal—CT1AA, Radio Colonial, in the 1930s. -- Also in "DX History-I/Stations," we have updated our story, "WRUL and the West Indian Radio Newspaper," with a QSL verifying reception of the program over CKCX, the CBC International Service channel on 15190 kHz, in March 1946. Look for the red "New." -- In "Specialized Resources/Wavescan," we have updated the list of "Wavescan" scripts to include all history segments through March 27, 2022. However, most segments from December 2021 forward are available right now in audio form only, that is, you must listen to the program over the air or via the internet. If text scripts are forthcoming for these programs, we will post them to the list as usual. We have also updated the Wavescan Index through March 27. There are many interesting stories in the Wavescans since December: Australia, Barbados, Bulgaria, New Caledonia, VOA-Philippines, Tonga, Navajo radio,

weddings, submarines, bird calls, 2MT (England), American shortwave in 1925, and an Ancient DX Report for 1927. Check them out.

<www.ontheshortwaves.com> Update, April 10, 2022 -- Under "Specialized Resources/Radio Postcards," we have posted some cards and photos of the following stations: **Kentucky** - The Courier-Journal/Louisville Times Building that was home to WHAS, Louisville. **Michigan** - WEMC, Berrien Springs (predecessor call letters KFGZ equipment at top); WKMI, Kalamazoo; WKZO, Kalamazoo (sign at upper left); and WMPC, Lapeer. **Nebraska** - KFKX, Hastings (shortwave from 1923 to 1927); KGNF, North Platte; KHOL TV, Kearney; four views of KMMJ, Grand Island; WOAW, Omaha; WOW TV, Omaha; and three views of WOW, Omaha (WOAW until 1926). **Utah** - Street scene outside KSL, Salt Lake City.

<www.ontheshortwaves.com> Update, April 17, 2022 -- DXers who were active in the years 1952-1974 may remember buying some copies of "Broadcasting Stations of the World" (BSW), published every year or two by the Foreign Broadcast Information Service, part of the CIA. While it wasn't in the same league as the WRTH, maybe the CIA knew something that O. Lund Johansen and Jens Frost didn't. But FBIS was formed in 1941. What was it doing between 1941 and 1952? You can find a partial answer in "DXers and the Early Days of the Foreign Broadcast Information Service," posted in the "Specialized Resources" section. In addition to some FBIS history, there are four complete and one partial, pre-1952 BSWs; a series of seven heretofore unknown shortwave lists, issued in 1942-43 ("Shortwave Broadcasting Stations of the World"); nearly the full run (62 issues) of the club-like publication, "Short Wave Schedule and Reception Notes," 1943-46 (we had posted a few of these before); and a guide to listening to online FBIS recordings from the years 1941-46. Check it out.

<www.ontheshortwaves.com> Update, April 24, 2022 -- During the postwar years, until 1955, the United States operated the Blue Danube Network, an armed forces network based in Vienna, Austria. It was mainly mediumwave, but it also had a shortwave outlet, in Salzburg. We have already posted a QSL and a recording of "BDN" (see "Arne Skoog: The Early Recordings" on the "Specialized Resources" page). Now, in "DX History-I//QSLS & Other Station Memorabilia," we have added a piece of BDN swag: a Blue Danube Network plaque, made of wood, measuring about 9 inches in diameter. There is no writing on the back, so the exact origins of this item are not known.

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!



Index

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

- Book
WRTH
(5), 29, 53
- Broadcaster
BBC
(5), 9, 10, 12, 13, 21, 23, 27, 31, 38, 46, 48, 49, 50
CBC
(5), 24, 52
VOA
(5), 14, 25, 26, 27, 38, 46, 49, 52
- Column
Loggings
(5), 44, 57
Musings
(5), 5, 51, 52, 57
- Correspondence
eQSL
(5), 11, 30
QSL
(5), 6, 27, 28, 30, 31, 34, 36, 37, 41, 52, 53, 57
- Country
ALASKA
(5), 27, 46, 47
ALBANIA
(5), 46
ARMENIA (Armenian S.S.R.)
(5), 27
ASCENSION ISLAND
(5), 49, 50
AUSTRALIA
(5), 27, 48
AUSTRIA
(5), 27, 45
BOLIVIA
(5), 28
BOTSWANA (Bechuanaland)
(5), 50
BRAZIL
(5), 28, 46, 48
BULGARIA
(5), 28
CHAD (French Equatorial Africa)
(5), 49
CHILE
(5), 28
CHINA, PEOPLE'S REP.
(5), 28, 45, 46, 47, 48, 49, 50
COLOMBIA
(5), 30
CUBA
(5), 48, 49
EGYPT
(5), 31, 46, 47
ENGLAND
(5), 31, 48, 50
ERITREA (Ethiopia)
(5), 31
ETHIOPIA
(5), 31
FINLAND
(5), 31
FRANCE
(5), 31, 47
GERMANY, FED. REP.
(5), 32, 45, 47
GREECE
(5), 32
GUAM
(5), 32, 47
INDIA
(5), 33
IRAN
(5), 34, 47
IRELAND (Eire)
(5), 34, 45
JAPAN
(5), 34, 48
KOREA, DEM. PEOPLE'S REP.
(5), 46, 47
KOREA, REP.
(5), 34, 46, 50
KUWAIT
(5), 34, 46, 47
MADAGASCAR
(5), 34, 48
MALAYSIA (Malaya)
(5), 34

MALI (French West Africa)
 (5), 45
 MEXICO
 (5), 34
 MONGOLIA
 (5), 34
 MYANMAR (Burma)
 (5), 35
 NETHERLANDS
 (5), 35
 NEW ZEALAND
 (5), 35
 OMAN
 (5), 46
 PALAU (Belau)
 (5), 35
 PERU
 (5), 36
 PHILIPPINES
 (5), 36, 46, 49, 50
 ROMANIA
 (5), 45, 48
 RUSSIAN FED. - EUROPEAN (European R.S.F.S.R.)
 (5), 36
 SAO TOME
 (5), 49
 SINGAPORE
 (5), 48, 49
 SOLOMON ISLANDS
 (5), 37
 SPAIN
 (5), 37, 48, 50
 SRI LANKA (Ceylon)
 (5), 48
 TAIWAN (China)
 (5), 37
 THAILAND
 (5), 37, 48, 49, 50
 TURKEY
 (5), 37, 50
 UNITED ARAB EMIRATES
 (5), 38
 UNITED KINGDOM
 (5), 38
 UNITED STATES OF AMERICA
 (5), 22, 38, 40, 45, 46, 47, 48, 49, 50, 51
 VANUATU (New Hebrides)
 (5), 39
 VATICAN CITY
 (5), 40, 50
 VIETNAM
 (5), 40
 ZAMBIA (Northern Rhodesia)
 (5), 40

Database
 EiBi
 (5), 33
 Language
 Arabic
 (5), 31, 32, 33, 34, 47, 50
 Chinese
 (5), 22, 23, 27, 28, 29, 33, 34, 35, 37, 38, 45, 46, 47, 48
 English
 (5), 6, 25, 27, 28, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 45, 46, 47, 48, 49, 50
 French
 (5), 22, 28, 31, 32, 34, 39, 45, 46, 49, 50
 German
 (5), 28, 31, 45
 Hausa
 (5), 29, 39, 47, 50
 Hindi
 (5), 27, 28, 33, 47
 Italian
 (5), 7, 31
 Japanese
 (5), 27, 28, 35, 37
 Korean
 (5), 21, 29, 30, 33, 37, 38, 46, 47, 49, 50
 Portuguese
 (5), 34, 48
 Russian
 (5), 8, 20, 21, 23, 27, 28, 31, 32, 34, 36, 37, 38, 48
 Spanish
 (5), 30, 31, 32, 34, 36, 39, 45, 46, 48, 49, 50
 Swahili
 (5), 33, 40
 Turkish
 (5), 31
 Urdu
 (5), 47
 Mode
 AM
 (5), 14, 23, 24, 28, 33, 35, 36, 40, 41, 42, 43
 DRM
 (5), 14, 15, 33, 34, 35, 36, 43
 FM
 (5), 12, 19, 23, 24, 27, 34
 LSB
 (5), 42
 SSB
 (5), 25
 USB
 (5), 24, 41, 42, 43, 45
 Organization
 CIDX
 (5), 22

EDXC
(5), 5
HFCC
(5), 28, 29, 31, 33, 34, 35, 37, 39, 40
ITU
(5), 36
NASWA
(5), 4, 11, 12, 14, 15, 51, 57
Publication
Flashsheet

(5), 57
Receiver
Hammarlund
(5), 6
SDR
(5), 14, 32, 39
Station type
Pirate
(5), 9, 40, 57

Executive Director: Richard A. D'Angelo, 2216 Burkey Dr.,
Wyomissing, PA 19610-1553

Publisher / Business Manager: Richard Cuff, P. O. Box 3292,
Allentown, PA 18106-0292

Executive Council: Jerry Berg, Ralph Brandi, Richard Cuff, Rich
D'Angelo, John Figliozi

EDITORIAL STAFF

NASWA Notes: Richard A. D'Angelo, 2216 Burkey Dr.,
Wyomissing, PA 19610-1553

Musings: Jerry Lineback, 4422 Sierra del Sol, Paradise, CA
95969-8116

Listening Review: Alan Roe, 33 Atbara Rd., Teddington, TW11
9PA United Kingdom

Shortwave Center: John Figliozi, 45 Algonquin Rd., Clifton
Park, NY 12065-7703

Adrian Peterson's Diary: Dr. Adrian M. Peterson, Box 29235,
Indianapolis, IN 46229-0235

NASWA Awards: Gary R. Neal, P.O. Box 1, Cockeysville, MD
21030-0001

Listener's Notebook: Richard A. D'Angelo, 2216 Burkey Dr.,
Wyomissing, PA 19610-1553

Pirate Radio Report: Brian Penney, 30 Acorn Way, Brewster,
MA 02631-2659

QSL Report: Sam Barto, 78 Blakeman Rd., Thomaston, CT
06787-1301

The Robinson Report: Dan Robinson, %PO Box 3292,
Allentown, PA 18106-0292

Scoreboard: Gary R. Neal, P.O. Box 1, Cockeysville, MD 21030-
0001

International Broadcasting: Kim Andrew Elliott, 5001 25th
Street North, Arlington, VA 22207-2622

Loggings: Dave Turnick, 372 Spohn Rd., Sinking Spring, PA
19608-1737

NASWA Flashsheet: Mark Taylor, 1114 Ellen Ave., Madison, WI
53716-1535

Desktop Publishing/Graphics: Richard Murphy, 1342 Oak Path,
San Antonio, TX 78258-1935

Cover Art/Design & club archives: John Herkimer, 1090
Cunningham Dr., Victor, NY 14564-9512

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