

The **NASA** Journal

VOLUME LX NUMBER 7

JULY 2020

RADIO VANUATU

FORMERLY RADIO NEW HEBRIDES
ANCIENNEMENT RADIO NOUVELLES HEBRIDES



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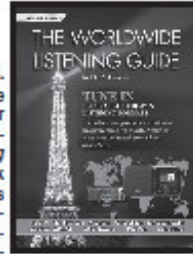
We have done some organizing in our archives and are pleased to offer an interesting assortment of **used books, manuals and radio literature**. Here is an opportunity to obtain **original owner's** manuals, service manuals, brochures, catalogs and books. All of the manuals, literature and most books may be viewed by going to our home page and selecting **(used) Photos**, then:

B Radio Books, C Radio Catalogs, D Radio Manuals

WORLDWIDE LISTENING GUIDE

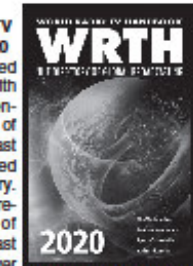
By J. Figliozzi.

Modeled on the author's popular *Worldwide Shortwave Listening Guide*, this book covers all of today's formats: live on-demand, podcast, satellite, internet, digital, analog, AM, FM, shortwave and w-ft. Learn what can be heard how, where and when! Spiral bound 9th Ed. 192 p. ©2019. List \$29.95. Order #1044 \$28.95



WORLD RADIO TV HANDBOOK 2020

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 receiver reviews. 74th Edition. ©2019 672 p. List \$49.95. Order #2020 \$44.95



2019/2020 GUIDE TO UTILITY STATIONS

By J. Klingenfuss.

The world's biggest and best guide to non-broadcast stations in the range of 0 - 30 MHz. With 8,800 listings in aero, maritime, military, diplomatic, time stations and more. Covers SSB, CW, AM and exhaustive RTTY. Highly recommended. 30th Edition ©December 2018. 550 p. Order #6775 \$59.95



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CATALOG

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NASA Notes

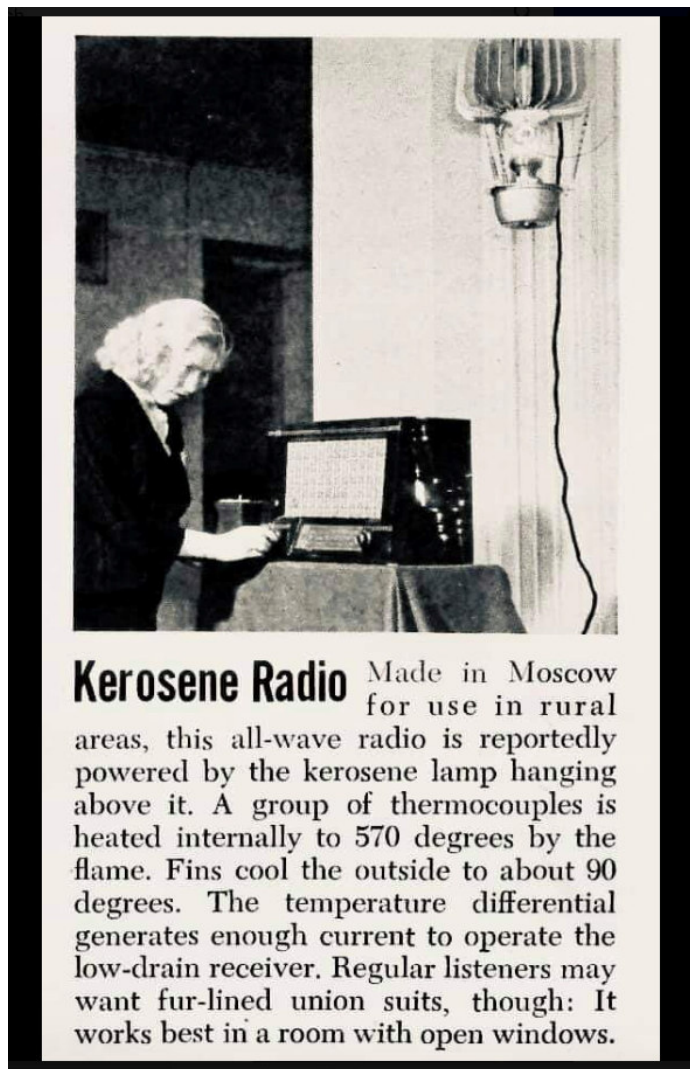
Richard A. D'Angelo • 2216 Burkey Drive • Wyomissing, PA 19610 • rdangelo3@aol.com

In the coronavirus world things are slowly opening up but it is a mixed bag for sure. In Europe, the European DX Council canceling its annual conference, however, domestically we have some events on the calendar (keeping reading for more details). Stay safe and comfortable while this pandemic is with us. Enjoy our radio hobby!

Possibly the biggest news in the shortwave broadcasting world at the moment is Radio Vanuatu which re-entered the shortwave world in 2019. However, the big news is its emergence in the 25-meter band thanks to a harmonic signal that has been heard worldwide. This month's cover, prepared by John Herkimer, features Radio Vanuatu. The cover features some great illustrations of station personnel as well as picture QSL cards, postage stamps and a terrific sticker. Any of these items in your collection? As I mentioned before, Radio Vanuatu is currently being heard on the shortwave bands once again. Check out this month's Listeners Notebook for the latest news and information. (OKAY)

Thanks to Bob Wilkner in Florida we have an interesting picture and description of a Russian made radio that supposedly used kerosene as a fuel to operate it. Whether or not this is true doesn't really matter. I will be checking Universal Radio's website soon for used equipment and perhaps some operating details, hi! Perhaps it is time to add some new (old?) radio gear to the shack? Thanks Bob! From Horacio Nigro in Uruguay we learn that these were true working radios and working with low filament voltage tubes. Today it is more of a curiosity, but these radios built in the mid-1950s in the former Soviet Union, **also reached the Río**

de la Plata in South America. They were based on a thermoelectric generator (also called Seebeck generator) and converted heat (with temperature differences of **300°C in this case**), directly into electrical energy, using the physical phenomenon called the "[Peltier-Seebeck effect](#)" (or "**effect thermoelectric**"). The devices used in this apparatus used bimetallic unions, providing **1.56 W**, with a life of only a few thousand hours, and a **weight of approximately 8 kg.**



The **first kerosene lamp heat generator** was first designed in **1937**. Only a few, remain for example, in private collections in

Argentina. In his country of Uruguay, a small quantity were assembled in the 1960s. I wonder what kind of performance these radios were capable of?

Interested in obtaining a new QSL card design? A.J. Janitschek, Director of Program & Operations Support at Radio Free Asia ("RFA") reminds us that RFA is offering its sixth QSL card in the series highlighting USAGM transmitter sites used for the station's radio programming for all valid RFA reception reports May – August 2020. This is RFA's 73rd QSL. RFA encourages listeners to submit reception reports. Reception reports are valuable to RFA as they help us evaluate the signal strength and quality of our transmissions. RFA confirms all accurate reception reports by mailing a QSL card to the listener. RFA welcomes all reception report submissions at <http://techweb.rfa.org> (follow the QSL REPORTS link) not only from DXers, but also from our general listening audience. Reception reports are also accepted by email at qsl@rfa.org and by mail to: Reception Reports, Radio Free Asia, 2025 M. Street NW, Suite 300, Washington DC 20036.

Lloyd Van Horn – W4LVH announced the official launch of DX Central (www.dxcentralonline.com) a Web site devoted to AM and FM DX. The site launched in May. Van Horn noted "There are many sites out there for AM and FM DXers, but I have always wished there was a site that taught the art of DX and helped cultivate that skill, as well as provided information on equipment from the perspective of the DXer, air checks of station IDs and other things that would help flatten the learning curve a bit." One of the main components of *DX Central* is the *DX 101* section which provides a primer for getting started in DXing, a glossary of DX-related terms, an FAQ and commonly used abbreviations. It also includes breakout sections specific to AM

and FM DXing. There is also a blog with DX tips and tricks, up-to-date news and information and logs from Van Horn's own DX pursuits from his home in Charleston, South Carolina as well as his travels. Although not shortwave radio related, I thought our members could have an interest in another DX website. "I try to bring an SDR with a small loop antenna with me when I travel. My goal is to get as many pristine air checks as I can from various cities so that other DXers can use that to compare with what they are hearing through their own radios." There are plans to expand the site with what Van Horn calls "phase II" in the coming months. Lloyd is the son of long-time club member Gayle Van Horn who produces *Global Radio Guide* as an e-book.

Speaking of Gayle Van Horn her *Global Radio Guide* ("GRG-14"), 14th edition (Summer 2020) e-book is available. This publication will have wide appeal to amateur radio operators, shortwave radio hobbyists, news agencies, news buffs, educators, foreign language students, expatriates, or anyone interested in listening to a global view of world news and major events as they happen. The 14th edition of the *Global Radio Guide* e-Book is available worldwide from Amazon and their various international websites at <https://www.amazon.com/dp/B087YRMYZS>. The price for this latest edition is US\$8.99. Since this book is being released internationally, Amazon customers in the United Kingdom, Germany, France Spain, Italy, Japan, India, Canada, Brazil, Mexico and Australia can order this e-Book from Amazon websites directly servicing these countries. Customers in all other countries can use the regular Amazon.com website to purchase this e-Book.


As the world slowly returns to normal, the 2020 Madison-Milwaukee Get-together for DXers and Radio Enthusiasts will be a great

event to attend. It is scheduled to be held on Saturday August 15, 2020 from 1:00 until 9:30 PM local time (come when you can and leave when you must) at Lake Farm County Park Shelter #1, [4330 Libby Road, Madison, WI 53711](https://www.wisconsin.gov/locations/madison). Flashsheet editor Mark Taylor will be the host this year. An assortment of snacks and soft drinks will be provided during the event. If you prefer an alternative beverage please bring your own (but don't bring any glass containers-- they are banned in the park). The group photo will take place in late afternoon, so bring along your camera. The Madison-Milwaukee DX Get-together has been held on the third Saturday in August in every year since 1994. The purpose from the beginning has been to promote camaraderie among all DXers and radio hobbyists-- "making new friends and renewing old friendships". This is an all-band event, and brings together a diverse group of hobbyists who have one thing in common-- a love of radio. A highlight of every Madison-Milwaukee get-together has always been the dinner (participation optional). Dinner is followed by a night session of DX and camaraderie until 9:30 PM when the group needs to vacate the park before the nice officers will evict the gang. Mark appreciates advanced RSVP to markokpik@gmail.com or you can call him at 608-225-2690. If you have a presentation, display or would like to offer assistance, please contact him.

The 2020 IRCA/DecalcoMania Convention will be held at the Four Points by Sheraton, 1221 S Harbor Blvd, Anaheim CA 92805. (North of Disneyland) September 10-12 2020. Phone number for reservations is 714-758-0900 (mention convention). Guest room rate is \$115 per night plus tax and includes all you can eat breakfast. Parking is \$10 per

day. Cutoff date for room reservations will be August 20th. Registration fee (not including banquet) is \$25 payable to Mike Sanburn P. O. Box 1256, Bellflower CA 90707-1256. Activities will include station visits, IRCA business meeting and auction, and nightly fireworks show. Hotel amenities include free Wifi, 24-hour business center and 24-hour pool. Local eateries within walking distance are Starbucks Coffee, Taco Bell, and Shakeys Pizza. Cutoff date for room reservations will be August 20th. For information contact mikesanburn@hotmail.com. A late May update: Orange County CA (where Anaheim is located) has been given the green light to completely reopen, restaurants, stores, etc. provided proper distancing is utilized. Folks can send their registration fee via PayPal at mikesanburn@hotmail.com (please include name, contact info and note that it is for convention registration).

Nicholas Hardyman, Publisher of the World Radio Television Handbook ("WRTH"), advises that the WRTH A20 Bargraph Frequency Guide for the A20 season is now available as a CD or a download. The CD contains the complete, and monitored, A20 international broadcasts on LW, MW and SW, and fully updated domestic shortwave, displayed as a pdf color bargraph. There are also other pdf and xls files to help you get the most out of the Bargraph. All these files are also available on a downloadable Zip file. The CD and Download are only available from the WRTH site. You can visit their website www.wrth.com to find out more and to order a copy.

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

Unity and Friendship

Musings

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

No contributions this month, so sad. We are still isolating and still healthy. We still watch the news nearly 24/7, good things may be happening because of a few bad things happening. We have hope. Please wear your mask when out and please contribute to Musings.

73, Jerry Alice

Publisher's Corner

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

A special thanks to Universal Radio!

As you know, an advertisement for Universal Radio appears as the inside front cover of each NASWA Journal. For many years, Universal Radio has included information about NASWA with each radio shipped from their store, and many have joined over the years as either a direct result of this information sheet, or seeing that sheet in combination with other mentions of the club in such resources as the World Radio and TV Handbook. Universal Radio also maintains the website <http://DXing.com>, a resource for a variety of hobby-related information, including a nice mention of NASWA.

Universal Radio is also an important supporter of the Winter SWL Fest; they provide donated items each year and provide the Fest with radios for the prize raffle at discounted prices.

Fred and Barb Osterman are among the nicest people you'll meet in the hobby, as well.

Loggings are helpful, even in the summer months

While this is certainly a quieter period of the year for radio listening -- with shorter nights and thunderstorm static making for more challenging listening conditions here in North America, there are still broadcasts to be heard, pirates plying the airwaves, and other seasonal variations on the bands. Share what you're hearing with your fellow members -- even if you think what you're hearing is routine or not a DX challenge, fret not -- the information you report could help someone discover a new program or discover something they've missed. If you have e-mail you can send your logs to Flashsheet editors Mark Taylor and Rich D'Angelo; if you're not an Internet user you can still send your logs to Dave Turnick via the good old USPS. Even a postcard -- cheaper than mailing a letter -- can hold information for a couple logs.

Thanks also to our printer for keeping the lights on during our COVID-19 times

Like many small, family-run businesses, our printer has seen a significant dropoff in activity during the pandemic. During the spring and early summer seasons, our printer is normally quite active with high school and college graduation-related printing, and,

here in PA, these activities were all virtual, with nothing held in person. As a result, our printer lost business that will likely not come back right away as economic activity resumes. However, they have continued to serve the club's needs and turn around the printing and mailing of the Journal in a timely fashion. If you're in a position to support small, family-run businesses in your day-to-day activities, please consider doing so -- as an indirect "thank you" to the businesses that have supported the club during these times.

Consider writing for the Shortwave Center column


The Shortwave Center column is for shortwave-related articles that cover a

particular subject in depth -- it could be something technical, historical, or informational. You might remember member Ron Hunsicker's recent article on his antenna experimentation. Is there a bit of history that you could write about? Setting up a listening shack in a vacation environment? Information about a particular broadcaster you've gleaned over years of correspondence? These are all items that would be suitable for Shortwave Center. Get in touch with John Figliozzi -- I am sure he could give you some ideas for an article.

Here's to another month of good listening / great DX!

Richard Cuff / Publisher - Business Manager



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 D'Angelo (rdangelo3@aol.com) 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. 

Listening Review

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

Welcome to Listening Review for July 2020. I'll start this month with some **WBCQ** program news from **Bill Tilford**.

"Special Broadcast: WBCQ's 4th of July at the Park.

Date/Time: Saturday, July 4, 8pm-9pm EDT (0000-0100 UTC Sunday July 5)

Frequencies: 6160 and 7490 kHz

4th of July concerts at the bandshell (usually a concert band or orchestra sometimes

followed later by a rock or country band) are a long tradition throughout the United States. Join Uncle Bill of Uncle Bill's Melting Pot, Sir Jack Scratchy of beHAVior Night, Jason Hill of Rock Wave and others (tba at press time) as we honor that tradition with an hour of uplifting music from marches to concert band music to patriotic country and rock in WBCQ's 4th of July at the Park."

Thanks to Bill for the advance notice. With good propagation conditions, both frequencies can be heard in the UK and Europe and I'll be setting my radio timer to record the program.

There was a welcome return to shortwave of the **Radio Exterior de España** on Monday 1 June following the abrupt suspension of programming from REE in mid-March as a result of the lockdown caused by the Covid-19 pandemic. Transmitters had remained on-air from mid-March relaying mostly the output of RNE1. On 1 June I noticed during the evening that the REE website had been updated that day showing resumption of REE programming including the foreign language programs in English, French and Portuguese, so was tuned-in ready at 2200UT on 11670kHz. The program started with a short introduction by Justin Coe and Alison Hughes remembering lost colleagues at RNE (although thankfully no colleagues at REE had been lost) and then for the remainder of the 30-minute program excerpts from Requiem by Francisco Guerro were played. This was not a work that I was familiar with. It was rather beautiful music and a nice and an appropriate way to resume programming.

I tuned-in again on Wednesday 3 June, and listened to a 30-minute talk by Alison summing up the events in Spain over the previous two weeks. It was a thoughtful, reflective, monologue – and what I found interesting was that not only did she talk about life and what was happening in Spain,

almost everything was an echo of what has been happening in the UK (and to an extent, I suspect, in most countries around the world during the height of the pandemic in each country).

Alison starts: "Can we still remember those first days, it wasn't so long ago, of reports of a strange virus were coming out of a city in China, now a familiar name, Wuhan. In January it seemed that only the most highly strung people in the west were worried – even after the World Health Organisation identified the new coronavirus – most people around here repeated 'Oh it's most likely just like a bad cold or the flu' as if we knew anything about it. [...] As we started to learn more about the disease, our vocabulary began to grow, from 'coronavirus' to 'herd immunity'. [...]."

Alison continued with talk of daily press briefings, including daily stats figures of cases and deaths and recoveries, the scientists presenting their assessments, difficulties in obtaining sufficient stocks of PPE, flattening the curve, and so much more that has become so familiar to us in the UK also. The talk ended with reference to a song that had come to epitomise the Spaniards reaction to the pandemic - Resistiré (I Will Resist) by Duo Dinamico. The broadcast program ended at that point; however, the downloadable podcast includes an additional 3 minutes in which this song is played.

I tuned-in once again on Friday 5 June. The broadcast today consisted entirely of a telephone conversation between Alison (at home) and their former colleague – journalist and English service presenter Frank Smith, now happily retired in Galicia. It was good to hear Frank on the air once again, who presented his own 'frank' views on the political response to the Covid-19 pandemic which he says has not shown the

politicians in either Britain or Spain in a particularly good light.

As an aside, I received an email this week (early June) from Alison in which she says: "For the English language broadcast, Justin and I are each working from home and record at the station on Thursdays (Justin) and Tuesdays (myself) to ensure there are never more than 30 percent of the staff in the building at any one time."

The **REE English Language** service is broadcast on Mondays, Wednesdays and Fridays at 2200-2230UTC on 9690, 11670, 11940 and 12030 kHz. Downloadable podcasts of these programs can be found at <http://www.rtve.es/alacarta/audios/emision-en-ingles/>.

A quick mention of a couple of other shortwave stations currently (mid-June) which have been badly affected by the coronavirus pandemic. Production of **Radio Canada International's The Link Online** has been suspended since mid-March. This program would normally be aired on shortwave via the services of Shortwaveservice using the Kall transmitter on Sundays. According to a recent email from Marc Montgomery to Richard Langley via WOR IOG mail list: "I do not know when the show will be back. Most of us are not even allowed in the building." Programming from the **General Overseas Service of All India Radio** in English has also been suspended since mid-March. All external broadcasting from AIR stopped at the same time, but limited services in some languages, but not English, have since resumed. It is possible to hear a 30-minute news program from the domestic service on 11560kHz at 1500-1530 during what would have been the Pashto service of AIR. Alternatively, the AIR English service can still be heard with daily news programs on their YouTube Channel – search "English World Service AIR". Finally,

NHK World Radio Japan have suspended new programming in English, except for the weekly **Friends Around the World** broadcast on Sundays (recorded from the presenters' homes). Other days, programs are repeats of previous broadcasts. The daily news broadcasts comprise audio from the **NHK TV Newline** program. Some other language services from NHK Radio Japan are also taking the same 10-minute Newline audio feed to start their transmissions. Hopefully many of the services mentioned above will have resumed by the time that you read this.

There was however a welcome return during June of programming from **ERT 5 The Voice of Greece**. Like REE, mentioned above, their transmitter remained on air relaying mostly the output from either the ERT Proto (1st) or Defero (2nd) Program (and on at least one occasion classical music from the Trito (3rd) Program). In fact, I rather enjoyed the replacement programming being heard. However, it is a joy to listen to the wide range of musical output from V of Greece included in their daily broadcasts. In particular, amongst many other programs, there is a varied selection of world music broadcast Monday to Thursday from 1900-2000UT in the program **ΦΥΣΑΕΙ Ο ΜΠΑΤΗΣ, ΦΥΣΑΕΙ ΤΟ ΚΥΜΑ**, which Google translates as **Batis is Nature, Nature is Physical**, and Greek traditional music Monday to Friday from 2000-2100UT in the program **ΤΑ ΕΘΝΙΚΑ ΤΗΣ ΠΑΡΑΔΟΣΗΣ**, translated as **The Foreigners of the Tradition**.

As an example, I listened to the 3 June edition of **Batis is Nature, Nature is Physical** which had the following rather eclectic playlist: "I Wanna Be Loved By You", "Carolina Blues", a tune played on the Irish fiddle, a Country & Western song: "Tom Dooley", a folk song: "John Hardy", a ballad: "Ramona", a 1930's song: "I'll Be Glad When You're Dead You Rascal You", and played out with "Happy days are here again".

Voice of Greece broadcasts Monday to Saturdays from around 1800UT to around 0700UT the following day on 9420kHz. Sign-on and sign-off times are rather variable.

A quick mention of a new music program that I came upon on **WRMI** on Sunday 7 June (at 2030UT on 15770 kHz) called **Memphis Weirdos**, presented by Bill Webb Jr. I happened to spot the title on the WRMI program schedule just a few minutes before the scheduled time and was rather intrigued by the title. Fortunately, 15770kHz is currently propagating quite well to the UK at that time, so I tuned in and found a program of little known rock/punk songs including, according to the website at <https://memphisweirdos.com/home>, "sub-culture Memphis music". Not all the songs were entirely to my personal preference, but I enjoyed it enough to keep me tuned through the whole program, and will listen again whenever there is favourable propagation at that time.

Memphis Weirdos is scheduled Sundays at 2030-2100UT on 15770 kHz via **WRMI**.

I'll continue this month with a look at some further programs from the **BBC World Service** which I started last month. I have rather neglected BBC WS programming in this column, so I'm redressing the balance with more BBC WS reviews this month.

First, however, **John Figliozzi**, writing in his "Podding Along" emails via the NASWA and WOR iog mail lists has the following *Capsule Review* of **HARDtalk** (for which he has kindly given permission for me to use): "Most interviews conducted with leading political figures err from either taking too light a touch or relentlessly going for a "gotcha" moment. The best interviewers do their homework thoroughly, stick to the facts and insist that their subjects do the same. **HARDtalk** and its interviews by veteran BBC

journalist Stephen Sackur, are just that — direct without being impertinent, but with a business-like air that takes its subjects seriously and expecting no nonsense responses to his queries. Things can get combative but without the histrionics. Guests know what to expect from Sackur, yet they come to the program anyway because they respect his expertise and know he respects their stature. There's no coddling but no unfair efforts to embarrass either. **HARDtalk** is the best political interview program on radio, bar none. Program website: <https://www.bbc.co.uk/programmes/p004t1s0>"

There are three editions of this program each week. Times and frequencies shown below.

Music Life is an interesting program and well-worth an hour of your time. It is a great format: each edition is introduced by a different guest artist – someone in the pop industry. The first half of the program (up to the news headlines on the half-hour) is introduced each week by a different guest artist – someone in the pop industry. It comprises a round-table discussion between the host and two or three other pop artists, discussing some aspect of their life in music. Don't expect some in depth or profound observations; rather, you will find twenty minutes or so of amiable, but articulate, discussion. In the second half of the program will be The Playlist: one of the guests will choose, and introduce, several tracks that mean something to them in some way. It's a program primarily aimed at a "younger" audience, i.e. something like BBC Radio 1Xtra's typical audience of between 15 and 30/35 years old.

I have just enjoyed the edition of 14 June (at 1905UT on 7445 kHz). The guest host today was Olushola Ajose, a.k.a. Afrikan Boy. The Music Life website describes him as a "London-born rapper and producer of

Nigerian heritage whose music blends hip hop, grime and afrobeat". His three guests were Joy Crookes (*"neo-soul singer and songwriter of Bangladeshi-Irish heritage"*), Jaz Karis (*"a soulful RnB singer-songwriter"*) and Georgia Barnes (*"producer, singer and songwriter"*). The Playlist in the second half of the program was selected and introduced by Joy Crookes and included music by, amongst others: Van Morrison, an Ethiopian artist, Bill Withers, and by a group called, rather improbably, Hallelujah Chicken Run Band from Zimbabwe. An enjoyable hour. Podcasts of the first half of the program can be found at <https://www.bbc.co.uk/programmes/w13xttxd>, whilst selected Music Playlists from the second half of some of the programs (however, not all of them) can be found at <https://www.bbc.co.uk/programmes/p082lp1j>.

I frequently spend some time with **Newsday** each weekday morning with a cup of coffee before I have my breakfast. It is BBC World News at its best and is a great way to get an update on what is going on in the world. Newsday is a live three-hour program with two hosts comprising news items comprising either reports from correspondents around the world, or (more usually) telephone interviews with journalists or other people directly involved with the news report. Coverage includes a wide-ranging selection of news items from around the world. Whilst Covid-19 news (including consequences and repercussions of the pandemic) has dominated for the last few months, there are plenty of other news items covered each day. Each hour also includes sports and business news slots with a news bulletin on the hour and a news headlines on the half-hour.

As an example, I listened to Newsday on 15 June from 0500-0600UT on 7345 kHz. Whilst coverage of coronavirus and racism dominate, there are still a variety of topics

covered including in this hour: libel conviction of journalist Maria Ressa in the Philippines; a post-Covid-19 tourism pilot is taking place for German tourists to Spanish Balearic Islands; re-introduction of lockdown in some parts of Beijing due to Covid-19; how racism affects the economic well-being of a country; racism of indigenous community by RCMP in Canada; strike by doctors in Nigeria (in midst of the pandemic); effects of pandemic on the elderly; plight of sailors in ships stranded due to the pandemic; Africa Cup of Nations may be delayed until 2022; Black Lives Matter protest in San Francisco; and the killing of soldiers and civilians in Nigeria.

Newsday runs each day Monday to Friday from 0400-0700UTC and the program website with archived episodes is at <https://www.bbc.co.uk/programmes/p00w940j>. See below for frequencies.

It's not always easy to determine all the scheduled airings of **BBC World Service** programs across the different regional streams, so I have listed here the details of when the above programs are scheduled (as far as I can determine, and hopefully some of these will propagate your way:

HARDtalk (*Three editions weekly*)

0106	M,W,F:	5970-sla	12095-sng	(S Asia)
0706	M,W,F:	9410-sla	13580-mdc	
			15400-mdc	(E & S Africa)
		7345-sao	9410-sao	
		9915-asc		
			15490-smg	(W&C Africa)
1506	Fri:	7485-sng		(M East)
1906	Sat:	6155-sao	6195-dha	
		7265-mdc		
			7445-mdc	(E&S Africa)
11810	wof	12095-asc		(W & C Africa)
2106	M, F:	11810-wof	12095-asc	


(W & C Africa)
2306 Sat: 3915-sng 5890-sng
6195-sng
11825-pht (E & SE Asia)

Music Life (New episodes weekly)

1106 Sat: 6195-sng 9410-sng
11945-sng (E & SE Asia)
1906 Sun: 6155-sao 6195-dha
7265-mdc
7445-mdc (E&S Africa)
11810-wof 12095-asc
(W & C Africa)

Newsday (Three-hour program daily)

0400 Mo-Fr: 9915-mdc (E & S Africa)
12095-sla
13580-sla (M East)
0500 Mo-Fr: 3955-wof (drm) (Europe)
6005-asc 7345-smg
9410-wof(W & C Africa)
9915-mdc 13580-dha
(E & S Africa)
0600 Mo-Fr: 6005-asc 7345-asc
12015-smg
13660-wof (W & C Africa)
9410-sao
13580-mdc 15400-mdc
(E & S Africa)

Until next time, stay safe and good DX & SWL
- Alan 

International Broadcasting

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The repoliticization of US international broadcasting

Things are happening quickly in US international broadcasting. On June 4th, Michael Pack was confirmed by the Senate as the first politically appointed CEO of US Agency for Global Media (parent bureaucracy of VOA, RFE/RL, RFA, the Martí, and Alhurra/Radio Sawa.) He was sworn in the following week, in an office somewhere. The ceremonial swearing in usually held in the VOA Auditorium has not happened, probably due to most employees working at home during the COVID-19 emergency. But there might be other reasons.

VOA director Amanda Bennett and her deputy Sandy Sugawara resigned on June 15 (bit.ly/3em9Iri). Libby Liu, CEO of USAGM's anti-censorship Open Technology Fund, and previously president of Radio Free Asia for 14 years, also resigned. Resignations of other

USAGM entity heads could take place, depending on their politics.

Because it's all about politics now. When a politically appointed CEO takes over, he gets to install the people of his choice in senior management positions. This is how it used to be in US international broadcasting. When a new president was elected, the elements of US international broadcasting were given new leaders, who appointed their own managers. This resulted in palpable changes of tone, on VOA and the other entities, with each new administration. Such changes did not occur at BBC with each new UK government. And this is a major reason why BBC has, over the decades, enjoyed higher credibility than US international broadcasting.

The road to "Camelot"

It was such changes that prompted me to write "Too Many Voice of America," *Foreign Policy*, Winter 1989/90. It called for the consolidation of and autonomy for US international broadcasting. The article generated discussion. I was invited to testify to a House hearing on the subject, but I was in Europe at the time. In 1991, the President's Commission on U.S. Government International Broadcasting was created, to which I did testify.

Eventually, the International Broadcasting Act of 1994 was passed by Congress and signed by President Clinton. This created the Broadcasting Board of Governors, a bipartisan nine-person board with fixed and staggered terms. From 1994 on, it was the BBG that named the VOA director, RFE/RL president, and the heads of the other entities. Presidents came and went, but the management, and tone, of US international broadcasting carried forth.

That was the beginning of a "Camelot" period of US international broadcasting, when, as with public broadcasting corporations throughout the world, a multipartisan board protected the autonomy of the BBG newsrooms. But Camelot began to unravel in 2016, when language in the Defense Authorization Act, with scant discussion and debate, reduced the BBG to an advisory panel, with a politically-appointed CEO to take over, with power to name the entity heads.

That same legislation gives Michael Pack three-year term as USAGM CEO, so whatever he has in mind for US international broadcasting could continue well into Joe Biden's administration, should Biden win in November.

The mysterious firewall "rule"

On June 15, the USAGM, now with Pack in charge, published a peculiar "rule" in the Federal Register ([bit.ly/313a8zp](https://www.federalregister.gov/documents/2017/06/15/2017-12111)). It provided specific definitions about the "firewall," i.e. the separation between the entity newsrooms and the Executive Branch, including the White House. The language is comforting to those who would want to maintain the independence of USAGM journalists. But maybe it's actually an artificial firewall to create the illusion that the independence of the newsrooms is protected.

Some think that the rule was pushed by the USAGM front office, including interim CEO Grant Turner, *before* Pack came on board. Adding to the mystery is that the rule was given no publicity by USAGM, at least not by the time I write this on June 17. Furthermore, the Falun Gong affiliated *Epoch Times* had the scoop on the publication of this rule. Why this conservative pro-Trump publication? Are they trying to help Pack bolster the illusion of a firewall? Or are they warning Pack and allies that this rule was published, with the potential to muck up Pack's plans for USAGM? We might know the answers by the time you read this.

In any case, it takes years, perhaps decades, for an international broadcasting organization to establish credibility. That credibility can dissolve in a few months. The audience for international broadcasting, smarter than the managers of international broadcasting, will perceive any bias. ([bit.ly/3ftbRBG](https://www.federalregister.gov/documents/2017/06/15/2017-12111))

From GAIN to GROAN

In my column last month, I discussed the possibility of a new USAGM entity. It would be a global English news channel to compete with CNN International, which is disliked by President Trump. The new USAGM channel

would be called Great America International News (GAIN).

But why create a new Trump TV when there is already a Trump TV in the form of One America News Network (OANN)? Pack's USAGM can simply purchase OANN's content, thus subsidizing the pro-Trump channel, and transmit it worldwide. But something would have to be added to give the impression that this is a channel intended for international audiences.

OANN's content can be internationalized by the addition of two reporters. One, based in Taiwan, would file stories on negative developments in China. The other, from Aruba, would do negative stories about Venezuela. This external version of One America News could be called Global Relay of One America News, or GROAN.

Except Taiwan and Aruba might grow wary of the GROAN correspondents originating this type of journalism from their soil. They will have to go someplace on good terms with President Trump and where standards of journalism are not particularly respected. Hungary comes to mind. Budapest, however, might be too cosmopolitan for such an

insalubrious news operation. So, I propose Pécs, Hungary's fifth largest city. "From the GROAN World News Headquarters in Pécs, today's roundup of bad news about China and Venezuela."

(Gulp) Gorka

Speaking of Hungary, we close this column by moving from the ridiculous to the even more ridiculous. Reports as of this writing are that Sebastian Gorka, the very-right-wing talk show host at Salem Radio, might be given a leadership role at USAGM. If he is named to the USAGM board, there may be little impact, because the board has only an advisory role. But if Gorka is appointed to a real executive position, there could be ramifications. For example, RFE/RL is planning to revive its Hungarian section. RFE/RL Hungarian would be bothersome to Viktor Orbán, Hungary's prime minister. Gorka, a former adviser to Orbán, could be in a position to stymie preparations for RFE/RL Hungarian.

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

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.



Shortwave Center

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This month's SWC is primarily devoted to excerpts from a recent White Paper produced by the renown hf technology company Rohde and Schwarz. Thanks to Richard Murphy, not only for his fine desktop publishing skills

(most of which I sorely lack), but also for pointing me in the direction of this interesting article. It illustrates why shortwave's move to digital is essential for the technology to have a bright future.

SHORTWAVE'S FUTURE

THE REBIRTH OF HF

THE REBIRTH OF HF

A Rohde and Schwartz White Paper

By Paul Denisowski

Excerpted for Publication in The NASWA Journal

Introduction

HF stands for "high frequency" and is usually used to refer to signals with frequencies in the range of 3 MHz to 30 MHz, although in many cases the practical definition of HF has been extended down to frequencies as low as 1.5 MHz. HF is also sometimes referred to, somewhat loosely, as "shortwave," especially in the context of broadcasting. These HF frequencies correspond to wavelengths in the range of approximately 10 to 100 meters. Given that modern homes contain Wi-Fi access points operating in the gigahertz range and that some 5G deployments are taking place in so-called millimeter-wave bands, the names "high" frequency and "shortwave" may seem a bit misplaced, but it is worth noting that the first experiments in long-distance radio communication by

Marconi around the year 1900 used even lower frequency signals.

One of the best known applications of HF is worldwide or global communications. Both government and commercial broadcasters can reach listeners worldwide using HF frequencies. This global reach is also extremely useful in many government and military applications, and HF is used extensively by amateur radio operators around the world. This paper will begin with an exploration of the unique properties of HF that enable global communications.

HF in decline

For the first half of the 20th century, HF dominated global communications, but beginning in the late 1960s, satellites began replacing HF in several application areas. This trend accelerated rapidly over the next several decades for several reasons. Satellites can offer much higher data rates than was ever possible over HF, even under the best propagation conditions. Satellite communications are relatively immune to changes in propagation – this is in sharp contrast to the highly variable and

somewhat unpredictable nature of ionospheric or skywave propagation at HF. Because of the more stable and straightforward nature of satellite signal propagation, satellite communications generally did not require highly trained or experienced operators for reliable communications.

Another important factor in the decline of HF was the growth of the Internet. The Internet "raised the bar" for global data connectivity by providing very high data rates and more or less instant global connectivity. The Internet also increased expectations with regards to availability – the Internet was "always on" and over time Internet access became more or less globally available, particularly in developed countries. The Internet could meet data needs over increasingly larger areas of the world, and where terrestrial internet was not available, satellite was an acceptable substitute.

During the last several decades, a decline in both interest in and use of HF created a corresponding decrease in awareness of and funding for HF. HF became something of a niche application: manufacturers provided only nominal (if any) support for HF in their products, and the pool of experiences HF developers and operators declined dramatically. Even in the amateur radio community, a traditional bastion of HF, a combination of lackluster solar cycles and the availability of inexpensive VHF handhelds moved the focus away from HF to more local communications.

Satellite vulnerabilities and weaknesses

Along with all of their benefits, satellites also suffer from a number of vulnerabilities or weaknesses. A hostile force can employ a wide variety of anti-satellite (ASAT) technologies designed to temporarily or

permanently incapacitate a space vehicle. Ground based attacks, such as those using high-powered lasers, are relatively inexpensive and are difficult to stop or detect.

These types of attacks can even be used by countries that have no launch capabilities of their own. For countries with launch capabilities, either ground-launched or air-launched weapons can be used to destroy satellites. The United States, the Soviet Union / Russia, and China have all carried out numerous ASAT tests and many other countries are developing ASAT capabilities. Jamming is another serious vulnerability, in part because satellites are generally not "frequency agile" and operate at frequencies which are relatively easy to jam. Additional threats to satellite communications include solar storms. The same solar flares and coronal mass ejections that caused problems in the ionosphere can disrupt satellite communications and have even been blamed for physical damage to satellites.

One should also bear in mind that satellites or satellite constellations do not always provide truly "global" coverage. For example, coverage in the polar regions has long been a weak spot for many satellite systems. Not all satellite constellations cover the poles and those that do, for example, Iridium, require a relatively large constellation to do so. There may even be gaps in satellite coverage in the middle of an ocean. Furthermore, certain terrain or geographical issues can also present a challenge when it comes to satellite coverage. Mountainous regions or areas with significant foliage or canopies like jungles can block the direct line of sight needed for most satellite communications.

Latency is another concern when using satellites. Applications that make use of geosynchronous satellites must be able to

deal with delays of approximately 250 ms due to the distances involved. One final concern is security: countries may not wish to rely on an ally's satellites for their own critical communications.

The rebirth of HF

These vulnerabilities and weaknesses are not necessarily common events or issues, but as global connectivity has become more and more "mission critical," there has been an increasing interest in providing a separate technology that can deliver similar global connectivity, even if this connectivity does not match the speed and bandwidth provided by satellites. This is a role that HF is well suited to play.

HF provides truly global coverage, including polar regions and regions that are "terrain-challenged." Aside from satellites and HF, there few other technologies that can reliably provide connectivity between any two points on the planet. HF does not require a special infrastructure such as a constellation of expensive satellites with a limited useful life – the "infrastructure" for HF is the ionosphere. This lack of a man-made infrastructure substantially reduces the cost of using HF and also helps to make HF robust against attacks. Solar events may temporarily disrupt HF propagation, but there is no practical way for humans to damage, destroy, or deny use of the ionosphere. Because of the lower frequencies and frequency agility – so to speak – HF communications are much harder to jam compared to satellite.

However, in order to allow HF to meet the minimum requirements for a modern global communications technology, improvement or enhancements over "traditional" or "legacy" HF are required. The first and most important of these is improved data performance.

Although HF will never match the throughput provided by satellites, a certain minimum data rate is necessary for making HF a viable choice in modern applications. Despite the dominance of data, voice is still a critical component in a global communications system, and here too there is substantial room for improvement compared to "legacy" analog HF voice. With regards to propagation, there is little that can be done to change the nature of ionospheric or skywave propagation, but the availability and reliability of this medium can be improved by means of modern advancements in modulation and error detection / correction. Lastly, ease of operation over HF can be improved by simplifying the process of selecting a frequency or path and automating the process by which connections are established and maintained or modified.

Improving availability and operation

The first and most fundamental task when using HF for global communications is deciding which frequency should be used to reach a given station or geographical location. This is largely a function of the state of the ionosphere, which in turn is a function of time of day, period in the solar cycle, and any unusual ionospheric conditions. In legacy HF communications, skilled human operators could usually estimate the maximum usable frequency, choose the most appropriate antenna type and/or orientation, etc. based solely on their training and experience. In more recent decades, propagation prediction tools such as VOACAP could be used to augment an experienced operator's judgement or help less experienced operators determine the best frequency. If conditions changed, for example, due to changing propagation or interference/jamming, a human operator would recognize this and intervene, usually by changing output power or frequency.

Clearly this approach does not scale and is very operator-dependent. The more modern approach therefore attempts to handle all of these functions automatically. This is sometimes referred to as “adaptive HF”, which is outlined in ITU-R F 1110-2 1. In adaptive HF, the optimum frequency is selected automatically, the initial communication is established automatically, and the system automatically adapts to changing propagation or congestion/interference if needed. By far the most common way that these general principles are implemented is through automatic link establishment (ALE).

Automatic link establishment

In ALE, all stations are assigned an address and that address (or various types of group addresses) is used when calling a given station. Stations scan predefined lists of channels or frequencies, and if a station hears itself being called on one of these channels, it then attempts to synchronize with the calling station. The frequencies that are used when trying to call a given station are ranked based on link quality analysis (LQA). Stations periodically transmit their address along with a sounding signal. Stations which are currently scanning their list of channels measure the received signal and record this value along with the date, time, and address of the transmitting station.

These measurement values are used to build up a database that can be used when picking a channel for calling a given station. Another useful feature of ALE is the ability to listen to a channel to see if it is already in use (occupancy detection) and the ability to adapt to changing conditions.

First generation ALE systems date back to the late 1970s and early 1980s. These systems were proprietary and therefore were

not interoperable. By the mid-1980s, the need for interoperability and more advanced features had grown such that a new second generation (2G) of ALE was standardized as MIL-STD-188-141A in 1986. This second generation of ALE was interoperable and helped promote more widespread use of ALE. ALE became so popular that a third generation (3G) was developed and standardized a little over a decade later. Third generation ALE was a substantial step forward in that it supports faster link setup and more reliable setup under noisy conditions, that is, when SNR is low. 3G ALE supports more efficient allocation of spectrum, allowing more users to share the very limited bandwidth at HF, and is also more scalable in terms of the number of stations that can be supported.

Legacy HF modulation

Traditionally, bandwidth on HF was allocated as 3 kHz “channels.” The reason for this particular channel width of 3 kHz is to support the most common traditional use of HF transmission, namely, single-sideband (SSB) voice. In older or legacy HF systems, various types of modems could be used to transmit data over voice channels, that is, within the same 3 kHz bandwidth that was used for voice. There are a very large number of different modulation schemes that have been used to transmit data over HF, many of which are no longer in use. In the earlier days of HF communications frequency shift keying (FSK), was the most common modulation scheme, and more recently phase shift keying (PSK) is also widely used. These were followed so-called “M-ary” modes like MFSK, in which the number of symbols or states was increased to provide greater throughput. More recently, there has been a steady increase in even higher-throughput modulation schemes such as variants of (higher-order) QAM, or quadrature amplitude modulation. Even voice has undergone a

transformation, with modernized HF systems often sending voice digitally over data channels. This has the potential for providing much higher quality than traditional analog voice, especially under challenging channel conditions.

Improving HF bit error rate

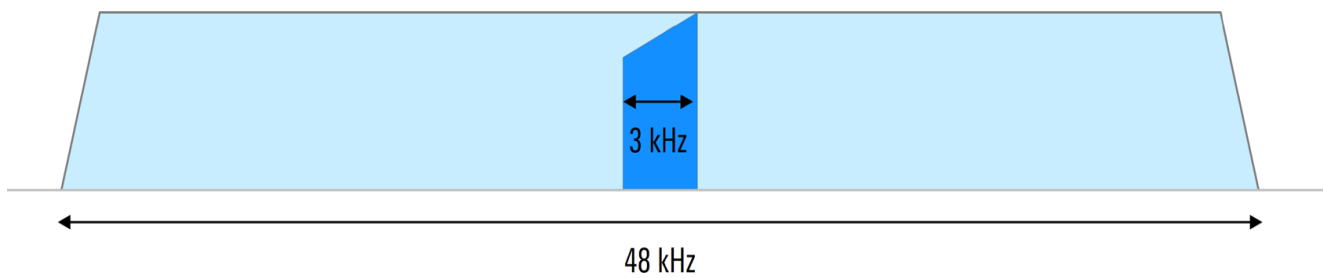
It would not be an exaggeration to say that HF is one of the worst possible transport media for sending digital data, or "bits." HF is noisy and variable, and both slow and rapid fading are common. Often errors come in the form of burst errors, where many bits

used in other digital communications for many years), the application of these techniques in HF data communications has been critical in improving of HF data throughput and reliability.

Wideband HF

Increasing bandwidth is key to increasing throughput. Some early attempts at improving on the standard 3 kHz HF channel involved using additional, independent sidebands.

Although the use of multiple smaller



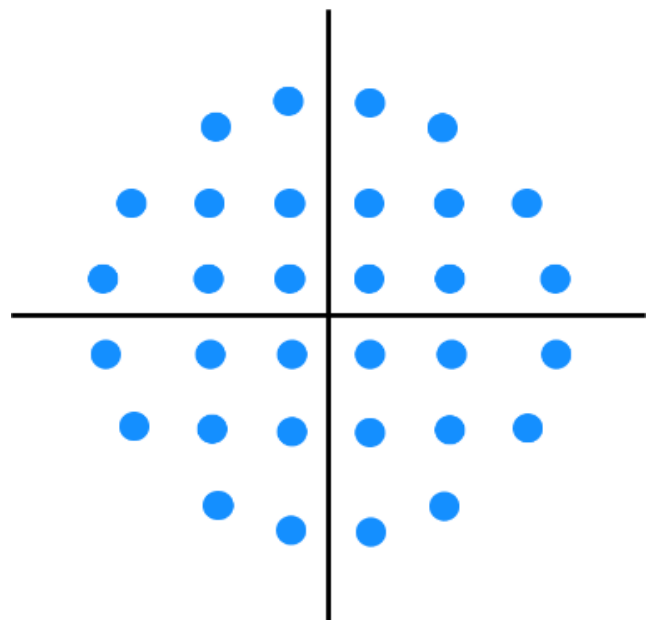
Narrowband vs wideband HF

in a row are corrupted by bursts of noise or sudden fades. In legacy HF and prior to modern computational resources, it was not easy to either detect or correct bit errors, and this in turn limited maximum transmission speeds.

channels does increase throughput, the use of a single larger channel can provide better

Modern computing resources have allowed significant improvements in dealing with bit errors. Burst errors can be minimized by using interleaving to "spread out" these errors over a larger number of bits. Interleaving greatly improves the efficiency of another technique called forward error correction (FEC). FEC adds additional bits to the transmitted data which can detect and correct single bit errors at the receiver. For those cases when errors are uncorrectable, a higher-layer process called automatic repeat request (ARQ) is used to request retransmission at the packet level. Although these techniques may seem somewhat mundane (in part because they have been

32 QAM



Wideband HF 32 QAM constellation

performance, and this is the reason for the development of wideband HF. The most important current standard for wideband HF is MIL-STD-188-110D, updated in 2017. This standard defines contiguous bandwidths of up to 48 kHz in various steps, allowing the waveform to be adapted to available spectrum. Data rates of up to 240 kilobits per second have been achieved on a 48 kHz channel.

Another advantage of this wider waveform is increased robustness in hostile environments. A wider signal is harder to detect because the energy is spread over a larger bandwidth and wider signals are also more resistant to jamming attacks.

Wideband HF also includes improvements in modulation types and error reduction methods such as FEC and interleaving. Of particular

interest are the modulation types specified for wideband HF. In addition to traditional or standard PSK, specially-designed QAM variants are included. These variants have modulation orders up to 256 QAM, since higher modulation order enables higher throughput. Of special interest is the fact that these constellations have a somewhat "circular" shape, as opposed to the more "square" QAM constellations seen in most other applications. These circular constellations have the advantage of reducing the peak to average ratio of the signal, which in turn simplifies both the design and efficiency of radios and amplifiers.

The ability to use wideband HF does of course require the availability of larger contiguous regions of unoccupied spectrum. These available bandwidths or "channels" may be limited by regulations, other users (licensed or otherwise), noise, jamming, interference, etc. In addition, regulatory

authorities may also prohibit the use of wideband HF by certain categories of users or in certain frequency ranges or bands. For example, United States Federal Communications Commission regulations (Title 47 CFR Part 97) prohibit the use of wideband HF in the amateur radio bands.

Fourth generation ALE

The development of fourth generation (4G) or wideband ALE is largely driven by the rollout of wideband HF. Because wideband HF supports different bandwidths, modulation types, error detection / correction parameters, etc. 4G ALE is a critical component in ensuring that stations are able to exchange capabilities, intended traffic type, etc. and negotiate the most efficient parameters for a given connection. Building on previous versions of ALE, 4G ALE also supports more advanced forms of spectrum sensing for determining the optimal frequency and bandwidth for a given connection, and for avoiding interferers.

Furthermore, 4G ALE greatly reduces the amount of time needed to set up a link and allows easier and more efficient sharing of channels with other stations. All of these features enable reliable, automated systems.

Summary

Global HF communications are almost entirely based on skywave propagation rather than direct line of sight or ground wave propagation.

In skywave, signals are refracted by the ionosphere, although the effect of some layers is more to absorb signals than to refract them. Whether or not a signal is refracted or absorbed by the ionosphere is largely a function of the frequency of the signal and the amount of ionization in the upper atmosphere. This ionization increases

during daylight hours while the sun is illuminating that side of the Earth. On a larger time scale, ionization also increases as the number of sunspots increases, with the number of sunspots following a roughly 11-year solar cycle. Aside from these semi-regular effects, certain types of solar events can unexpectedly or unpredictably disrupt the ionosphere and hence HF propagation. Solar flares are the most common of these, and flares can lead to so-called sudden ionospheric disturbances, polar cap absorption, and both geomagnetic and ionospheric storms. A coronal mass ejection is a less common, but often more severe, source of geomagnetic storms. Using measurements such as sunspot number, solar flux index, and the A and K indices allow the current state of the ionosphere to be quantified and/or predictions to be made regarding future HF propagation conditions.

Satellites largely replaced legacy HF for global communications beginning around the 1970s and the dominance of satellites continues to this day. Satellites provide much higher throughput than HF links, and satellite communications are not subject to variable and somewhat unpredictable propagation. Satellite systems are generally much easier to use than legacy HF systems that require highly skilled or experienced operators to establish and maintain communications.

Despite these clear advantages, satellites are expensive and are vulnerable to a variety of attacks. In some cases satellites are unable to provide complete global coverage. In light of the mission-critical nature of global data communications, there is a strong consensus with regards to the need for an alternative or redundant global data communications system. Recent technological advancements, in particular ALE and wideband HF, have reduced or eliminated many of the traditional shortcomings associated with

skywave propagation and have helped to bring about a renewed interest or "rebirth" in the use of HF.

Some background on Rohde and Schwarz

From [Fred Osterman's catalog "Shortwave Receivers Past & Present 4th Edition Communications Receivers 1942--2013"](#):

*Lothar Rohde and Hermann Schwarz met in 1929 as college physics students at the Physical-Technical Institute in Jena, Germany. After graduation they built a precision frequency meter for wavelengths of 6 to 3600 meters and published an article on it in *Hochfrequenztechnik und Elektroakustik* in 1932. In 1933 they moved to Munich and established the *Physikalisch-Technisches Entwicklungslabor Dr. Rohde & Dr. Schwarz (PTE)*. Through difficult and transitional times the company continued and enjoyed explosive growth after 1953.*

Rohde & Schwarz became best known to the listening community with the development (1953-1955) of the famous (and huge!) EK07 general coverage receiver. This, the "Collins R-390" of Germany, was of the highest technology of the time and offered frequency accuracy and performance that was to be the standard for nearly twenty years. (...) Incredible craftsmanship is evident in this classic receiver. The meter on the left



checks performance of each tube. Last production for German secret service had LED display for fine readout. EK07/D refers to German version. Extremely scarce.

Today Rohde & Schwarz is engaged in the development, manufacturing and marketing of professional radio communication

products. It provides system solutions in the fields of global communications, ATC and airport communications, avionics and naval communications. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radio monitoring and radiolocation, as well as secure communications. The company has a presence in over 70 countries.

SHORTWAVE GEOGRAPHY

[Ed. Note: With the re-emergence of Vanuatu on the shortwave bands (at least for WCNA dxers), it might be interesting to explore what "Vanuatians" hear locally.]

Adrian Peterson's Diary

The Mediumwave and FM Radio Scene in South Pacific Vanuatu

Back during the era of the Pacific War in the middle of last century, the islanders in the New Hebrides discovered the usefulness of radio for information and entertainment. There were even occasions when small groups of village people crowded around a radio receiver that was tuned to the American Forces Radio Station WVUR at Luganville on the island of Espiritu Santo.

After the war, radio listening in various areas of the New Hebrides continued to increase due to the improving availability of radio receivers in the New Hebrides, and the installation of radio broadcasting stations (mediumwave and shortwave) in other islands of the South Pacific. Then with the flood of the new cheap transistor radios from Japan in the late 1950s, the reception of radio signals from afar became increasingly popular in the New Hebrides.

Shortwave stations that were popular among the educated and prosperous islanders in the New Hebrides back then were **Radio Australia**, **Radio New Zealand (International)**, and the stations that were

located in Suva, Fiji, the Solomon Islands, Papua New Guinea and New Caledonia.

There were occasions when the growing network of Teleradio low power communication stations (15 watts on 6900 kHz) on the various islands of the New Hebrides presented in brief what we might call radio programming. However, the New Hebrides needed their own broadcasting stations, and somewhere around the year 1960, three enterprising Frenchmen in Port Vila took a novel approach to this matter.

A new radio program was prepared by this threesome; successful businessman Pierre Bourgeois, prominent political leader Georges Milne, and the influential Catholic Priest Zerger. As they travelled the islands, they recorded local news, local music and interesting traditional stories in both French and the local languages.

Back in Port Vila, these village recordings were then assembled into a short radio program, using reel-to-reel tape. Each radio program, lasting from ten to fifteen minutes, was then forwarded to **Radio Noumea** in nearby New Caledonia. where they were broadcast on Wednesday evenings back to

the New Hebrides on mediumwave and shortwave. (The WR(TV)HB editions for both 1961 and 1962 list a Folklore Music program from **Radio Noumea** at 6:15 pm, though on Thursdays, not Wednesdays.)

A theme song for this locally assembled radio program was written and sung by a village musician whose home, and language, was on the island of Ifira, in Port Vila Bay. The words tell the story, like in a parable, of a group of crabs on a sandy beach putting their arms around each other and forming a circle. This theme song, in the Ifira language, was called Kavelicolico, and the program became known as Radio Kavelicolico.

Radio Vila in the New Hebrides was on the air only on shortwave for ten years before the first mediumwave transmitter was inaugurated. It is understood that the first mediumwave transmitter on the air in Vanuatu was a small temporary (and therefore probably quite informal) unit in Port Vila that was installed by the Australian Radio Engineer Ken Munyard.

The first reference in WR(TV)HB for a government mediumwave station in Vanuatu is in the 1975 edition, and the station is listed as **h** under the callsign YJB with 1 kW on 1420 kHz in Malapoa, near the national capital, Port Vila. Subsequent frequencies have been 1422 kHz and 1125 kHz, and subsequent power levels have been 2 kW and 10 kW. Mediumwave station YJB was transferred from Malapoa to Emten Lagoon in 1995.

A regional mediumwave station was established near the St. Michel Mission Station, three miles southwest of Luganville, on Espiritu Santo Island, also in 1995. This station was listed with 2 kW, and subsequently with 10 kW, on 1179 kHz, and programming was generally a relay from Radio Vanuatu at Emten Lagoon, Port Vila.

Though off the air at present due to cyclones and technical problems, attempts are underway to reactivate this Luganville station.

Over the years there have been suggestions for installing additional mediumwave stations throughout Vanuatu in an endeavor to provide satisfactory radio coverage of all 82 islands. Half a dozen of the larger islands have been suggested as suitable locations, though thus far mediumwave stations have been installed on only two of these islands; capital city island Efate, and the largest island, Espiritu Santo.

The first FM station in Vanuatu was installed by the aforementioned Ken Maynard, and this was a small informal 5 watt unit in his home in Port Vila, with the antenna attached to the top of the neighboring water tower. The first official FM station, with 15 watts on 98 MHz, was inaugurated in Port Vila in 1982. Since then, nearly a dozen additional FM stations (government, political, commercial, religious and community) have been installed on more than half a dozen islands.

Six of these FM stations have been installed as satellite relay stations with programming on behalf of major world government organizations. Just as a matter of international interest, we list these foreign FM relay stations:

BBC World Service Port Vila	Efate Is.
99 MHz	250 watts
BBC World Service Luganville	Esp. Santo
99 250	
Radio France International	Port Vila
Efate 100 200	
Radio Australia	Port Vila Efate
103 200	
China Radio International	Port Vila
Efate 102	

Listener's Notebook

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Times are UTC and frequencies in kHz.

ARMENIA Very good signal of Trans World Radio TWR India via Yerevan, June 12:
1315-1415 on 11590 various Indian langs, incl. Hindi &
1415-1445 on 11590 English Sat/Sun; 1420-1424 Mon-Fri (DX Mix-Bulgaria)

Iran International TV on June 18:
0400-1200 on 11570 ERV Farsi, weak/fair
1200-1400 on 11550 ERV Farsi, weak/fair (DX Mix-Bulgaria)

AUSTRALIA Reception of Reach Beyond Australia RBA on June 5:
1430-1500 on 11825 KNX English Daily, very weak (DX Mix-Bulgaria)

5055, Radio 4KZ. May 26, checking 0820+, only to find them off the air today. Contacted Al Kirton (general manager at 4KZ) and here is his reply: "There is a problem with the STL [studio transmitter link]. Hopefully fixed in a few hours. The studio end is an Italian made RVR brand 847 MHz 5 watt transmitter. The transmitter end is an Australian made Fordray receiver. Both are frequency agile for the entire UHF band. The problem is not with these units. It's with our crappy distribution amplifiers at the studio end. I turned off the HF transmitter due to extremely low modulation." Am always appreciative of Al's quick and informative responses to my emails! (Ron Howard-CA)

AUSTRIA Very good signal of Oesterreichischer Rundfunk ORF-1 on June 13:
0500-0620 on 6155 MOS 300 kW / non-dir to WeEu German Mon-Fri; 0500-0610 Sat/Sun (DX Mix-Bulgaria)

Adventist World Radio via MBR Moosbrunn June 15:
0400-0430 on 6120 Turkish, very good signal (DX Mix-Bulgaria)

NHK World Radio Japan in English via MBR Moosbrunn June 16
0430-0500 on 5975 Mon-Fri; 0500-9530 Sat/Sun, very good (DX Mix-Bulgaria)

BOTSWANA Reception of Voice of America VOA via Selebi Phikwe, June 15:
0530-0600 on 13830 French Mon-Fri, fair signal (DX Mix-Bulgaria)

BRAZIL Voz do Brasil is on the air Monday to Friday 21-22, you can try for listening to station's ID just before the start of the program or at the end, when radios return to their own broadcast. (Alessandro Gropazzi-Italy via RealDX/Shortwave Bulletin)

4885, May 31, 0455, Radio Clube do Pará, Belém. This station could be heard with fair to good signal here in the north west of Spain few months ago, but now it is very difficult to hear it, seems to be on air with very low power. (Via HCDX Manuel Méndez-Spain 27/05/New Zealand DX Times)

6160.1, Jun 9, 0930, Radio Rio Mar, Manaus, weak signal via Brazil SDR Kiwi remote

receiver in Vilhena and Brasilia, at times barely audible due to QRM from China on 6165. At 1000 Radio Rio Mar emits Radio Bandeirantes national news. At first better via remote receiver in Brasilia, but at 1010 and later, better via remote receiver in Vilhena. 0930 program "Musical Rio Mar", 0957 religious comment, at 0959: "Radio Rio Mar, 5 horas y 59 minutos", at 1000 "Jornal Primeira Hora, 58 anos no ar, Rede Bandeirantes de Radio, hora oficial do Brasil, 7 horas", Radio Bandeirantes news, at 1030 "Jornal Primeira Hora Local", id. "Radio Rio Mar", local news. Today Radio Boa Vontade open later than 1040 and it does not interfere Radio Rio Mar. Also heard 0933-1030, 06-10 with the same program. At 1030 Radio Boa Vontade, 6160.3, opened and interfered Radio Rio Mar. Heard via Kiwi SDR remote receivers in Brasilia and Vilhena, Brazil, and checked with Radio Rio Mar website online audio. (Manuel Méndez-Spain/Shortwave Bulletin)

BULGARIA Due to the ongoing COVID-19 situation the conference in Bulgaria in August 2020 has been canceled. Unfortunately, the participants will not see the "amazing" Secretbrod transmitting center, where they would probably be taken by the hosts from SPL engineers V.Georgiev & D.Todorov. (DX Mix-Bulgaria)

Reception of FPU Radio Dabanga via SPL Sofia, June 8:
1529-1627 on 11640 Darfur Arabic, good signal (DX Mix-Bulgaria)

IRRS Radio Warra Wangeelaati via SPL Secretbrod June 13:
1500-1530 on 15515 Afar Oromo Sat, good signal plus hum (DX Mix-Bulgaria)

FPU Radio Dabanga via Sofia on June 15:
1529-1627 on 11640 Darfur Arabic, very good signal (DX Mix-Bulgaria)

CHINA Strange content of CRI Bulgarian at 1830, 2030 and 1100. Since early February the same recordings of two has been broadcast- economic comment and Chinese language lessons. It seems the same is probably also for their broadcasts in Romanian and Serbian. CRI in Russian broadcasts 20 hours per day on SW & MW - their first airing of news is at 1500 and this is repeated until 1400 the next day. (Rumen Pankov-Bulgaria/British DX Club)

6155, CNR2 (China Business Radio), 1130, on June 2. IDs in Chinese and English; "This is C-N-R Business Radio"; the usual good reception. Very nice to find an English ID here, as it has been many years since I last heard one. Not sure how often the ID is used? (Ron Howard-CA)

CLANDESTINE Voice of Oromo Liberation (Clan) Summer Schedule 2020:
1730-1800 Wed on 15420nau Amharic
1700-1730 Wed/Fri/Sun on 15420nau Oromo (WRTH Update)

Dandal Kura Radio International via MBR Nauen on June 13:
0700-0800 on 13590 Kanuri Daily, good and 0800-0900 on 13590 Kanuri Sat, also good. Surprisingly several times with English announcement due to COVID-19!! (DX Mix-Bulgaria)

Dandal Kura Radio International via MBR Issoudun June 11:
1800-1900 on 11830 Kanuri, very good signal (DX Mix-Bulgaria)

Radio Ndarason International via ENC-DMS Woofferton, June 15:
0600-0700 on 12050 Kanuri, good signal incl 0615-0622 on 12050 news bulletin in French (DX Mix-Bulgaria)

Radio Ndarason International via ENC-DMS Ascension, June 15:

0700-0800 on 12050 Kanuri, weak/fair signal (DX Mix-Bulgaria)

Dimtse Radio Erena via SPL Sofia on June 17:
1700-1730 on 9720 Tigrinya Daily - very good
1730-1800 on 9720 Arabic Wed/Fri
1730-1800 on 9720 Tigrinya Thu/Sat-Tue (DX Mix-Bulgaria)

Reception of MGB Eye Radio via SM di Galeria on June 8:
0400-0500 on 7340 English Mon-Fri, good (DX Mix-Bulgaria)

Good signal of MGB Eye Radio via TDF Issoudun, June 16:
1600-1700 on 15410 Juba Arabic* Mon-Fri
* including other langs
English/Dinka/Nuer/Shilluk/Bari/Zande/Lu toho (DX Mix-Bulgaria)

BRB Denge Welat via TDF Issoudun on June 18:
0230-0500 on 9525 ISS Kurdish, very good
0500-0600 on 11530 ISS Kurdish, very good (DX Mix-Bulgaria)

BRB Denge Welat via Grigoriopol and Issoudun on June 17:
0600-1600 on 11530 KCH Kurdish, weak/good signal
1600-2100 on 11530 ISS Kurdish, strong + tweet (DX Mix-Bulgaria)

Manara Radio International via TDF Issoudun, June 4:
1600-1700 on 15285 Hausa, weak signal (DX Mix-Bulgaria)

Manara Radio International via TDF Issoudun June 11:
0700-1800 on 13840 Hausa, fair/good (DX Mix-Bulgaria)

Frequency changes of JSR Shiokaze/Sea Breeze from June 3:
1300-1400 NF 6040 YAM in vary langs, ex 5920

1300-1400 NF 6090 YAM in vary langs, ex 6165

1300-1330 Japanese Mon/Tue/Sat/Sun; Korean Wed/Fri; English Thu;

1330-1400 Korean Wed/Fri/Sat/Sun; Japanese Mon/Tue; English Thu.

1600-1700 NF 5980 YAM in vary langs, ex 5955

1600-1700 NF 6165 YAM in vary langs, ex 7325

1600-1630 Japanese Mon/Tue/Sat/Sun; Korean Wed/Fri; English Thu;

1630-1700 Korean Wed/Fri/Sat/Sun; Japanese Mon/Tue; English Thu.

And frequency changes of Furusato no Kaze via JSR Shiokaze from June 3:

1405-1435 NF 5920 YAM Japanese Daily, ex 6090

1405-1435 NF 7325 YAM Japanese Daily, ex 7295 (DX Mix-Bulgaria)

DENMARK Reception of World Music Radio WMR on June 2:

from 0445 on 5840 RND 0.1 kW Music, very weak (DX Mix-Bulgaria)

Radio208 finally began broadcasting on shortwave on 5805 on 1 May. The American built 250 Watt transmitter for 5805 kHz blew up three times in the process. Then a new British built 250 Watt transmitter was purchased, but it turned out that the maximum power it could radiate was 164 Watts. However it's a fine transmitter and has now successfully been put into operation running about 75 Watts at present; will be increased to 150 Watts later. The transmitter site is Hvidovre, a suburb of Copenhagen and the aerial is a dipole. This is the first time for more than 30 years that SW broadcasting is being carried out from Copenhagen. Radio Denmark ceased broadcasting from its Herstedvester site on in February 1990. Radio208 still continuous broadcasting on 1440 (500 W) from Ishøj, also a suburb of Copenhagen. Both transmitters (1440 and 5805) are running 24/7. (Stig Hartvig

Nielsen www.radio208.dk 1 May/British DX Club)

ENGLAND BBC World Sce via ENC-DMS Woofferton on June 15:
0500-0600 on 9410 English, good signal (DX Mix-Bulgaria)

EQUATORIAL GUINEA 5005, May 24, *0504, Bata open with songs, song "My Heart Will Go On" by Celine Dion. (Méndez-Spain/Shortwave Bulletin)

ENGLAND Radio Akhbar Mufriha via ENC-DMS Woofferton June 11:
2100-2115 on 7300 Tachelhit, fair/good signal (DX Mix-Bulgaria)

ESWATINI (Swaziland) Weak signal of Trans World Radio TWR Africa, June 10:
1557-1627 on 13580 MAN Kirundi Mon-Fri (DX Mix-Bulgaria)

Trans World Radio TWR Africa in Juba Arabic via Manzini, June 18:
1530-1545 on 11820 Juba Arabic Mon-Fri, fair (DX Mix-Bulgaria)

Trans World Radio Africa via Manzini on June 10:
1500-1530 on 9500 Somali, weak signal (DX Mix-Bulgaria)

FRANCE Summer A-20 changes of Radio France Int from May 31
0400-0500 NF 11700 ISS French, ex 9620
1200-1230 NF 13720 ISS Mandingo, ex 15275
1700-1800 NF 13770 ISS French, ex 15300 (DX Mix-Bulgaria)

Reception of Telediffusion d'Algerie via TDF Issoudun June 11:
0400-0459 on 6050 Arabic Holy Quran px, good
0500-0559 on 6125 Arabic Holy Quran px, good
0500-0559 on 7295 Arabic Holy Quran px, good

0600-0659 on 9620 Arabic Holy Quran px, good (DX Mix-Bulgaria)

NHK World Radio Japan in English via MBR Issoudun June 16
0430-0500 on 11970 ISS Mon-Fri; 0500-9530 Sat/Sun, fair/good (DX Mix-Bulgaria)

NHK World Radio Japan via MBR Issoudun on June 10
0530-0600 on 11730 French, very good signal. No more NHK World Japan Network Radio Japan English nx bulletin 0532-0545. (DX Mix-Bulgaria)

NHK World Radio Japan via MBR Issoudun on June 9:
1430-1500 on 13680 Persian, very good signal. No more NHK World Japan Network Radio Japan English nx bulletin 1432-1445. (DX Mix-Bulgaria)

NHK World Radio Japan via MBR Issoudun on June 10:
0600-0630 on 11975 Arabic, fair to good signal. No more NHK World Japan Network Radio Japan English nx bulletin 0602-0615. (DX Mix-Bulgaria)

FPU Radio Tamazuj via Issoudun on June 15:
0329-0427 on 7315 Juba Arabic, good (DX Mix-Bulgaria)

GERMANY Welle 370 (Das Funckerberg Radio) Summer Schedule 2020 (New Entry):
0800-0900 Sunday 6140mos*
1000-1100 Sunday on 6070rob**
Key: * 1st Sun of month; ** 4th Sun of month (WRTH Update)

The Russian broadcasts of Missionswerk Friedensstimme via MBR Nauen were terminated after 16 1/2 years on 25 April 2020. This was confirmed by an e-mail. Thanks to Hansjörg Biener. (DX Mix-Bulgaria)

Adventist World Radio in 49mb via MBR Nauen, June 13:
0430-0500 on 6155 French, good signal (DX Mix-Bulgaria)

NHK World Radio Japan via MBR Nauen on June 12:
0430-0500 on 6165 Russian, good signal (DX Mix-Bulgaria)

Reception of Bible Voice Broadcasting BVB via MBR Nauen June 12:
0501-0516 on 9735 Arabic/English Fri, very good (DX Mix-Bulgaria)

Reception of Bible Voice Broadcasting BVB via MBR Nauen June 13
1400-1430 on 15265 English 1st Sat, fair to good
1430-1500 on 15265 English every Sat, very good signal (DX Mix-Bulgaria)

HCJB Voice of The Andes via MBR Nauen, June 13:
1529-1629 on 13800 Russian/Chechen Sat, good (DX Mix-Bulgaria)

GUAM Revised schedule of FEBA India via KTWR Guam:
1245-1300 Thu-Sat on 11580-ktwr to S.Asia in Malayalam (broadcasts in Tamil, English, & Telugu have been canceled.) (Ivo Ivanov Bulgarian Blog 13 May/British DX Club)

GUATEMALA 4055, Jun 6, 0501, Radio Verdad, Chiquimula, extended program today, Spanish, "Himnos Espirituales", IS: "Transmite la estación educativa evangélica Radio Verdad...", religious comments and songs in Spanish. At about 0640 inaudible due to daylight here. (Méndez-Spain/Shortwave Bulletin)

GUINEA 9650, Jun 7, 0728, Radio Guinée, Conakry, French, at 0730 religious catholic program "Le Jour du Seigneur", at 0759 African song, 0800 ID: "La Radio Nationale de la République de Guinée ...", French,

comments. (Méndez-Spain/Shortwave Bulletin)

INDIA Good signal of All India Radio AIR Ext. Sce on June 15:
1315-1415 on 11560 BGL Dari, 1415-1500 Pashto &
1500-1530 on 11560 BGL English COVID-19 program (DX Mix-Bulgaria)

KOREA (North) Reception of Voice of Korea on June 4:
1400-1557 on 9425 KUJ Russian, fair signal
1400-1557 on 12015 KUJ Russian, fair signal (DX Mix-Bulgaria)

3202, KCBS on new frequency from 1057 to 1102* on May 25. Patriotic/anthem(?) music; in Korean; ToH time pips. Thanks very much for this info from Amano, via "Now On The Radio DX," who IDed my UNID: "Ron-san - I listened to your audio. This is DPRK as expected by sat_dixer. KCBS ID exists from 01:47 in your audio. 01:47 Female "Joseon Jung-ang Bangsong-ibnida. Seumul-sileul allyeodeulibnida."; 01:47 In English "This is Korean Central Broadcasting Station. At the turn of 20 o'clock." After that, News (Bodo) will start after the time pips. Recently, KCBS is not transmitting to 2850. Was it QSY to 3205? Nice catch and information, Ron-san. Amano Saitama, Japan" (Ron Howard-CA) 3205 NF, KCBS. Am always grateful for the insightful comments received from Martyn Williams (journalist, researcher and expert on N. Korea), who has made the following helpful observations: "Interesting that they are apparently off 2850. That's been one of the long-time, long-running frequencies. I see several possibilities: 1) 2850 developed a fault and is temporarily off air. With the Chinese border more or less closed right now, it could be a protracted closure should NK need parts from overseas. If this is the case, 3205 could be a temporary back-up that are having trouble with or totally unrelated to the loss of 2850. 2) 2850 is gone and 3205 is the replacement (but why shift from a long-

established frequency that was never jammed?) 3) 3205 is a black-ops station and they're running KCBS as filler while they test propagation. It's a bit early to tell, so we keep listening. FWIW, 2850 has appeared weak for months although I have not studied it. But every time I tune on an SDR, the reception has been weak and I did think that it used to be a lot better. However, you're in a much better place to measure this as you listen regularly from the same spot with the same radio." (Ron Howard-CA) 3205, KCBS (presumed), from 1008+, on June 2. Unlike yesterday hearing their good signal with different test tones, today there was no signal at all (clearly off the air), through to my last check at 1205; so they are still in their testing mode. (Ron Howard-CA)

KOREA (South) 4880, Echo of Hope - VOH, on May 27, happened to hear the very end of a Chinese language lesson at 1049; only a few Chinese words heard. First time I ever heard this. Daily? May 28, on 9095, had good reception of VOH, with pop song at 1049; 1050-1052, Chinese language lesson; Chinese words repeated three times, with Korean in between Chinese. (Ron Howard-CA)

KUWAIT Reception of MOI Radio Kuwait General Service in 16mb, May 25:
1000-1200 on 17760 KBD Arabic GS, fair to good (DX Mix-Bulgaria)

Reception of MOI Radio Kuwait GS on June 6:
from 0500 on 5959.8 KBD Arabic, weak signal
from 0500 on 15530.0 KBD Arabic, good signal (DX Mix-Bulgaria)

Reception of MOI Radio Kuwait General Service on June 17:
0500-0800 on 15530 KBD Arabic, fair to good signal (DX Mix-Bulgaria)

MADAGASCAR FPU Radio Tamazuj via Talata Volonondry & Issoudun, June 16:

1459-1557 on 15150 MDC Juba Arabic*, weak/fair

1459-1557 on 15400 ISS Juba Arabic*, very good

* including English language news bulletin 1543-1553 Tuesay & Friday (DX Mix-Bulgaria)

FPU Radio Tamazuj via Talata on June 15:
0329-0427 on 11650 Juba Arabic, good (DX Mix-Bulgaria)

FPU Radio Dabanga via Talata, June 15:
0429-0457 on 11650 Darfur Arabic, good (DX Mix-Bulgaria)

17730, Adventist World Radio via Talata Volonondry, eQSL in 18 days. Report was sent to: qsl@awr.org. (Manuel Mendez-Spain/DX Fanzine)

MALI Radio Mali, Bamako, heard with its weekly Saturday evening news in English on 30 May from 1850-1912 on 5995. SINPO 34433. (Manuel Mendez-Spain/British DX Club)

China Radio International via Bamako, June 2:
1400-1557 on 17630 English, good signal (DX Mix-Bulgaria)

China Radio International via Bamako on June 18:
1400-1557 on 17630 English, good signal (DX Mix-Bulgaria)

MEXICO 6185, QSL Radio Educacion, Ciudad de Mexico, received eQSL letter in 68 days. Reception report sent to: ondacorta@cultura.gob.mx. (Manuel Mendez-Spain/TopNews)

MICRONESIA (Federated States of) I asked Sylvia Kalau (The Cross Radio) at Pacific Mission Aviation, over in Pohnpei if she had any plans to reactivate The Cross Radio via SW. Here is her quick reply to me: ""Hello Ron - Greetings to you from one of the few

Covid 19 free countries!! I'm sorry but we will not be broadcasting SW. The cost is too much for us. Thanks for your inquiry and understanding." This is about what I expected to hear from her. No surprise here. Back in May, 2015, the station was hit by Typhoon Dolphin. Took them awhile to get FM back up again and running, but getting SW up and running never worked out for them. (Ron Howard-CA)

MISCELLANEOUS Ampegon Puts Focus on Shortwave Transmitters Highlights progress on the company's third-generation solidstate shortwave transmitters Ampegon Power Electronics highlights progress on the company's third-generation solid-state shortwave transmitters, which it says will offer "significant advances in efficiency." The company says this work will pave the way toward higher-power broadcast outputs and meet current expectations of a shortwave equivalent to medium-wave and FM transmitters. "Combined, these two developments will bring FM-quality broadcasts with all the benefits of shortwave," said Simon Keens, Ampegon sales and business development manager. Ampegon has also developed a retrofit upgrade to current UCS generation control systems for previous generation 100 kW, 250 kW, 300 kW and 500 kW transmitter systems. "Given that the lifetime of Ampegon transmitters is measured in decades, many systems currently in operation — previous ECAM and ECOS-II generation transmitters supplied under the names Thales or Thomson (Ampegon's previous names) — either do not have DRM-ready control systems, or have a need for now-obsolete spares," said Keens. The upgrade promises to bring touchscreen technology, efficient PSM operations and "quick and precise" retuning with digital motor control to existing transmitters. (Press Release/Australian DX News)

MOLDOVA (Pridnestrovie Transnistria) 11530, Radyo Denge Welat via Kishinev-

Grigoriopol in Kurdish language f/d eQSL arrived on 11th May 2020 for my email report to: Mr Sergey Omelchenko, Technical Director of Priduestrovsky Radiotelecentr. (Dmitry Elagin-Russia via #1081 via wwdxc BC-DX TopNews May 17)

MYANMAR 5985, received an electronic QSL from Myanma Radio for receiving in Burmese - 08 May, 1515-1540. The report was sent to the address of the technical department: nptradio.eng@gmail.com. Mr. Dmitriy Kutuzov, Nice to meet you again from Myanmar. We well received your mail and confirmed our station, Myanma Radio Thank your for your details report and now we sent QSL and verification card. Sincerely, Myanma Radio, English program. (Dmitry Mezin-Russia via #1081 via wwdxc BC-DX TopNews May 17)

NEW ZEALAND Reception of Radio New Zealand RNZ Pacific on June 3: 0459-0558 on 9700 RAN English, fair signal (DX Mix-Bulgaria)

NETHERLANDS A new entry in the HFCC database is Radio Piepzender, registered on 2 May: 0000-2400 on 3920 ZWO 001 kW Dutch via transmitter site Zwolle. (Ivo Ivanov 3 May) Not yet on the air (ed/British DX Club)

NIGERIA Updated schedule of Voice of Nigeria 11770v:
1500-1530 11769.9 AJA Swahili
1530-1600 11769.9 AJA Arabic
1600-1615 11769.9 AJA Yoruba
1615-1630 11769.9 AJA Igbo
1630-1900 11769.9 AJA English
1900-2000 11769.9 AJA Fulfulde
2000-2100 11769.9 AJA Hausa (Ivo Ivanov-Bulgaria BrDXC-UK and hcdx via wwdxc BC-DX Topnews May 26)

NORWAY Radio Northern Star, Bergen, in accordance with an email received from the station, the current schedule on SW 5895 is

1300-2207. (Manuel Méndez-Spain/British DX Club)

PAPUA NEW GUINEA Recently saw online that Ok Tedi Mining Limited (Western Province) has a new managing director/chief executive officer (Musje Werror), so I thought I should contact him. Portion of my email, after I congratulated him on his new position: "I was wondering if any consideration has been given to reactivating Radio Fly, via shortwave radio? It was operated by Ok Tedi Mining Limited, back when Nigel H. Parker was the CEO of Ok Tedi Mining Limited (about 2011-2013). From my location here on the coast of California, I often enjoyed hearing Radio Fly back then. Always appreciated the service OTML provided to the good people of PNG, by airing important information via Radio Fly." Five minutes later received this surprising email from him: "Hi Ron - Thanks for your email. We plan to revive Radio Fly before the end of the year. Look forward to receiving your feedback once it is up and running. Regards, Musje" Sent off a follow up question: "Will you still be via shortwave on 3915 and 5960?" Imagine that he will not be able to answer that himself, but I hope he will ask the radio engineer there for more details. Certainly hope that Radio Fly will again be on SW. (Ron Howard-CA)

7325, Wantok Radio Light, Port Moresby. Struggling through some background noise with English religious px around 0555. OK level when the mysterious noise source vanished. Much better at 0900 20/5. (Francis-Australia/Australian DX News)

PAPUA NEW GUINEA (Bougainville) National Member for North Bougainville Hon. William Nakin presented a cheque worth K50,000.00 to NBC Bougainville to sustain its operations in broadcasting to the mass populous of the Autonomous Region of Bougainville. The funds will go towards purchasing new equipment for broadcasters

and other essential items necessary for operation including preparations for the upcoming ABG Elections. Present at the occasion was NBC Bougainville acting Director KJ Momo, National Minister for Communications and MP for South Bougainville Hon. Timothy Masiu, North Bougainville MP Hon. William Nakin and the Managing Director of National Broadcasting Corporation Kora Nou. (NBC Radio Facebook/Australian DX News)

PERU Radio Tarma on 4775 currently has a reduced schedule on SW and is now on air at 1100-1400 and 2200-0000. The airtime is "due to the economic recession as a result of Coronavirus and the current government's lack of interest in supporting radio stations. As soon as the economic situation improves, we will return to the previous schedule." (Email from Radio Tarma 7 May via Manuel Méndez-Spain/British DX Club)

PHILIPPINES Weak/fair signal of FEBC Radio/Radio Teos June 7:
1500-1530 on 9920 BOC Russian Daily &
1530-1600 on 9920 BOC Ukr/Rus Sunday (DX Mix-Bulgaria)

Radio Pilipinas is back on SW from 1 May as follows (all via USAGM Philippines): 1730-1930 Filipino/English ME 9960-pht 12120-pht 15190-pht 0200-0330 English ME 12010-pht 15640-pht 17820-pht .Had been off air during the Coronavirus lockdown in the Philippines. (Jose Jacob DXIndia; Allen Dean-UK/British DX Club)

ROMANIA Frequency changes of Radio Romania International RRI in Spanish:
0200-0256 NF 9440 GAL Spanish AM mode, ex 9510
2100-2156 NF 9620 TIG Spanish DRM mode, ex 9610
2300-2356 NF 11730 GAL Spanish AM mode, ex 11800 (DX Mix-Bulgaria)

RUSSIA Fair signal of GTRK Adygeya/Adygeyan Radio on June 12: 1800-1900 on 6000 ARM Ad/Ar/Tu Mon, ex on Fri (DX Mix-Friday)

SAO TOME Reception of Voice of America via USAGM Pinheira, June 1: 0530-0630 on 6180 French Mon-Fri, very weak (DX Mix-Bulgaria)

Deutsche Welle via USAGM Pinheira, June 1: 1300-1400 on 11850 Hausa, fair/good signal (DX Mix-Bulgaria)

Reception of BBC via USAGM Pinheira, June 2: 1400-1430 on 9705 Hausa Mon-Fri, fair/good (DX Mix-Bulgaria)

SINGAPORE Upcoming frequency change of BBC WS via ENC-DMS Kranji: 1300-1400 NF 11725 English, ex 12065 (DX Mix-Bulgaria)

Frequency change of BBC World Sce via ENC-DMS Kranji: 0100-0200 NF 11730 English, ex 12095 (DX Mix-Bulgaria)

SOMALIA Hassan Tubey at Warsan Radio (via WhatsApp), the station Warsan Radio has moved from 7750U to 7600U - noted today from KiwiSDR in Bay of Island NZ remotely at poor strength from 1829 tune with man speaking. June 10. SINPO 25442. Warsan Radio has moved for real this time - to 7110USB mode and being hrd nicely from ZL1PWM KiwiSDR in NZ from 1800 tune on 11 June. Lots of talking and some Somali HOA music. SINPO 3+4443. (Bruce Churchill-CA)

SPAIN REE relay Radio Nacional de España on four frequencies May 30: 1400-2200 on 9690 NOB Spanish Sat/Sun, fair 1400-2200 on 11670 NOB Spanish Sat/Sun, weak

1400-2200 on 11940 NOB Spanish Sat/Sun, good

1400-2200 on 12030 NOB Spanish Sat/Sun, good (DX Mix-Bulgaria)

SUDAN Voice of Africa - Sudan Radio (Pub) Summer Schedule 2020 1630-1715 daily on 9505alf French 1715-1800 daily on 9505alf English 1800-1900 daily on 9505alf Swahili (WRTH Update)

TAIWAN This week noted no 11890 programming on June 1, 2 & 4, during the usual 1100-1200 (also checked 1000+). The former RNS website is gone and seems to have become part of the former Radio Free Sarawak site - <https://radiofreesarawak.org/about>. Also there is a "RNS Archive" with some audio streaming from some RNS programs from May. Radio Nyawa Sarawak is no longer present on Facebook. So a major change has occurred! Have emailed RNS but this is not looking good! (Ron Howard-CA) From <https://radiofreesarawak.org/> (RFS) today: *Siaran kami akan kembali pada hari 13 Jun* Our Show will take a short break and we will be back on June 13. Nyawa's Facebook site is rather renamed - top right link in the above address - but <https://www.facebook.com/radiofreesarawak/> is now available. (Zacharias Liangas-Greece/PlayDX)

6214.96, Sound of Hope, 1100-1108, on June 2. No time pips as usual; normal ID by OM and YL ("Xiwang zhi sheng guoji guangbo diantai" - Sound of Hope international broadcast station); news. Have often wondered what the real power of the transmitter is here. Doesn't sound low powered? (Ron Howard-CA)

15465, Radio Taiwan International (Paochung relay). Chinese service. QSL received in 24 days for report in English sent

to: rti@rti.org.tw. (Jacques Augustin-France/British DX Club)

TAJIKISTAN Bible Voice Broadcasting BVBN via Dushanbe, June 14:
1300-1329 on 11540 Korean Sat, weak/fair - NO STANAG! (DX Mix-Bulgaria)

TURKEY TRT Voice of Turkey in Italian on wrong frequency on June 8:
1300-1355 on 11965 EMR Russian as scheduled in A-20
1356-1425 on 11965 EMR Italian, instead of 9610 kHz
1356-1425 on 9610 EMR Italian as scheduled in A-20. Something's always wrong at TRT Voice of Turkey Emirler transmitting station. (DX Mix-Bulgaria)

Unscheduled px of TRT Voice of Turkey in Greek on wrong frequency on June 8:
1426-1525 on 11965 EMR Greek is unscheduled on shortwave! Something's always wrong & wrong at TRT Voice of Turkey Emirler transmitting station. (DX Mix-Bulgaria)

UNITED ARAB EMIRATES NHK World R. Japan via ENC-DMS Al-Dhabayya, June 11:
1315-1345 on 13865 Indonesian, weak/fair signal. No more NHK World Japan Network Radio Japan English nx bulletin 1317-1330. (DX Mix-Bulgaria)

USA Beginning Monday, May 25, WRMI will broadcast a new program called Freedom Synergy Radio. The program, which will be in English and Spanish, will advocate for Taiwan, Republic of China. Freedom Synergy Radio will air on WRMI at 0130-0230 Tues-Sat on 5800 beamed primarily to the Caribbean and on WRMI's Internet stream. Reception reports are welcome and will be answered with a WRMI QSL card by regular mail. Reports can be sent to info@wrmi.net or they can be submitted online on our web page www.wrmi.net. They can also be sent by regular postal mail to WRMI, P.O.Box

526852, Miami, Florida, 33152. (via WRMI - Radio Miami International, May 25)

Radio For Peace International RFPI via WRMI#9, June 14:
1300-1400 on 15770 French Sun, poor and weak (DX Mix-Bulgaria)

UZBEKISTAN Pan American Broadcasting via MBR Tashkent on June 14:
1630-1730 on 6155 English Sun Tony Alamo, fair signal
1630-1730 on 7425 English Sun Tony Alamo, weak signal (DX Mix-Bulgaria)

VANUATU Radio Vanuatu (11835 harmonic), June 9 - Arrived at the beach at 0255, before my sunset. Amazed to hear a Radio Vanuatu signal (unusable) already on the air. My local sunset was at 0324, which was about four hours before sunset at Port Vila. Some highlights: 0300-0327: Program entirely in French; signal improving a lot by 0324. 0327: Ad in English: "Vanuatu's one-stop Auto Shop . . . Carpenter Motors Vanuatu." 0330-0400: Program in English; playing songs and chatting about music. 0400: News and sports news in English; the Australian High Commission will be providing an "additional 400 million vatu" for the Vanuatu response to COVIN-19, announced Sarah de Zoeten, of the AHC, etc. 0410-0430: In English; continued playing pop songs; talking about an upcoming disaster relief music concert. 0430+: In Bislama. (Ron Howard-CA) 11835, Radio Vanuatu with third harmonic, from 0455 to 0555 on June 16; start of a detailed discussion about the upcoming session of parliament this "afternoon," from "Parliament House"; preempted regular programs; in Bislama, with details of seven motions to be presented and also a motion to suspend 22 opposition members; 0511, start of the coverage from parliament; "Speaker of the Parliament" intro and mentioned was being carried live via radio and TV; various speakers in Bislama before parliament; detailed info about the amount

of money the government's stimulus packages provided after COVID-19 and Cyclone Harold, etc.; fairly readable. Seems that 3945 kHz. is the only frequency in use now; June 15, noted ID and NA, with 1104* on 3945 and also June 12, same again till 1104* (after Japan 1101*). Clearly the former 1000-1100, on 2485 is no longer happening. (Ron Howard-CA)

VATICAN Good signal of NHK World Radio Japan via Santa Maria di Galeria June 17: 0430-0500 on 7245 English Mon-Fri & 0500-0530 Sat/Sun (DX Mix-Bulgaria)

FPU Radio Dabanga via SM di Galeria, June 15: 0429-0457 on 7315 Darfur Arabic, good (DX Mix-Bulgaria)

BBC via Santa Maria di Galeria on June 10: 1200-1230 on 13820 French, good signal (DX Mix-Bulgaria)

FPU Radio Dabanga via SM di Galeria on June 15: 1529-1627 on 15550 Darfur Arabic, good (DX Mix-Bulgaria)

ZAMBIA ZNBC Radio 1 Lusaka has been heard on 5995 (ex 5915) since 6 May. This is an unfortunate choice of frequency as it is now

co-channel with Radio Mail on 5995. Zambia can be heard with news in English at 0500, before Mali signs on at 0555. (Observations by Manuel Méndez-Spain/British DX Club)

5995, Jun 7, 0430, Zambia NBC, Radio 1, Lusaka. Checked at 0420 and out of air, but at 0530 on air, Vernacular comments. Very weak. (Méndez-Spain/Shortwave Bulletin)

11680, Jun 8, 0515, Voice of Hope, Africa (Lusaka). Christian pop, inspirational chat, Bible reading & prayer.. "This is International Radio--Voice of Hope..", more Christian pop, "From Zambia, this is the Voice of Hope, Africa Service..on 9680, 11680 kHz..". Thanks to Ron Howard's tip for this one. (Sheedy-CA/Shortwave Bulletin)

ZANZIBAR 6015, Jun 7, 0347, Zanzibar Broadcasting Corporation, Dole, Swahili, comments. (Méndez-Spain/Shortwave Bulletin)

Schedules, news and other information about shortwave broadcasting activity can be sent 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

George Zeller • 3492 West 123rd Street • Cleveland, OH 44111 • georgez@nacs.net

Shortwave pirate broadcasting continued at a very brisk pace once again during the past couple of months. Pirate broadcasting inevitably increases around major North American holidays. The main major date this month is July 4, the Independence Day holiday in the United States. This year the Fourth of July holiday falls on Saturday, July 4. Thus, enhanced levels of North American pirate broadcasting levels on July 2, 3, 4, and

5 are certain this year. The Canada Day holiday on July 1 will extend that period of time.

For a change, despite a continuing mess in your editor's schedule as a result of the Virus Pandemic, we do have this column on a timely basis.

"Preventing Illegal Radio Abuse Through Enforcement" act, with an acronym of the "Pirate Act" is now law in the United States. Its official title is HR 583. This bill would provide for fines of pirate radio stations of \$100,000 per day, with a maximum fine of \$2 million. On January 24, President Trump signed this legislation into law.

The full text of the Pirate Act as signed by President Trump is on the internet at: <https://www.congress.gov/116/bills/hr583/BILLS-116hr583rfs.pdf>

Pirate busts by the FCC during the past month were mostly concentrated in the New York City metro area and in Florida as usual. This month we again omit the individual bust notices issued by the FCC. Some recent FM busts continued to be of both pirate operators and their landlords. Once again, this month the FCC appears to have issued no citations to shortwave pirates in the United States, despite dozens of such actions against FM pirates. None of the newly authorized \$2 million fines have been assessed by the deadline date for this column in late June. The virus situation and the political instability in the USA undoubtedly was associated with this situation. So, actual implementation of the Pirate Act appears to be a casualty of the Virus Pandemic.

Your pirate DX news and logs for this column are always welcome. Feel free to send them in so that others can follow trends on how and where others are hearing unscheduled and ever-changing pirate radio operations on shortwave. Modes are USB unless listed.

Captain Morgan Shortwave.- 6950.2 0129-0145* 5/1/20 fair. Prgm of "middle of the road mx." (Taylor-WI)

Damn Skippy.- 6935 0013 5/3/20 poor to fair. Prgm of contemporary dance mx and SSTV images. (Taylor-WI)

Damn Skippy.- 6930 0053 5/2/20 fair. Prgm of classic rock mx and SSTV images. (Taylor-WI)

Doomsday R.- 6899 2306 5/1/20 fair. Prgm of various rock and folk mx. (Montney-MI)

Doomsday R.- 6899 2354 4/29/20 fair. Discussion of UFOs and survival techniques and an interview w/Trump. (Montney-MI)

KIND.- 6921 2350-0023* 5/8/20 fair. Ancr Zeke w/prgm of classic rock mx. (Montney-MI)

KINK.- 6933 0018 5/2/20 fair. Prgm of mx by The Kinks. (Taylor-WI)

KINK.- 6933 0033-0046* 5/2/20 fair. Prgm of mx by The Kinks. (Hauser-OK)

Mystery R. 21.- 4700 2013-2033 4/26/20 fair. Prgm of pop mx w/slogan of "The Spirit of Music." at this Euro. (Serra-Italy)

R. Free Mars.- 4872 0013 5/3/20 poor barely audible. Prgm of techno mx. (Taylor-WI)

Virus 19 \$=R.- 6907 2358-0113* 4/26/20 fair. Ancr Zeeky w/prgm of classic rock mx. (Taylor-WI)

WJAN.- 6925.7 0000 4/27/20 very poor. Prgm of rock and folk mx. (Taylor-WI)

WREC R.- 6925 2332-2344 5/9/20 good. Prgm of classic rock mx and old CBS radio commercials. (Montney-MI)

WTF R. Worldwide.- 6955.1 0042 5/2/20 fair. Prgm of Jethro Tull mx. (Taylor-WI)

Yeah Man R.- 6925 0001-0005* 4/29/20 fair. Prgm of OM ancrr and poorly copied mx. (Montney-MI)

Wolverine R.- 6933 0031-0204 5/10/20
fair. Prgm of rock mx and SSTV images.
(Hauser-OK)

Zeke's Attic.- 6932 0001-0110* 5/1/20 fair.
Prgm of folk mx. (Montney-MI)

Contributors' Page

The following people made contributions to this issue:

Mark TAYLOR, Madison, Wisconsin

Rich D'ANGELO, Wyomissing, PA

Pamela PRODAN, Wilton, ME
Andre FREDETTE, Oakville, Ontario

Vince HENLEY, Anacortes, WA

Rick BARTON, Sun City, AZ

Eric BUENEMAN, Hazelwood, MO

Jim EVANS, Germantown, TN

Glenn HAUSER, OK
Alan ROE, Middlesex, UK

Bill MONTNEY, Michigan

Perseus, Elad FDM-S2, Airspy HF+ & HF+
Discovery, Tecsun PL 880; 42 meters dipole, 100'
long wire, W6LVP loops

Ten-Tec RX-340, Drake R-8B, Eton E1, Eton E5,
Alpha Delta DX Sloper, RF Systems Mini-Windom,
Datong FL3, JPS ANC-4

Eton Field BT

JRC NRD 535D, Icom R-75, PAR ES-SWL 65
ft. Antenna, MFJ-959C

WinRADIo G39DDCe SDR, ICOM IC-R8600, Ten-Tec
RX-340, SDRPLAY RSPdx, TECSUN PL-880.
Antennas: whip on PL-880 and Alpha-Delta DX-
Ultra installed broadside east west at 30 feet for
all others.

RS SW-2000629, Satellit 205/T.5000 & 650,
Kenwood R-1000, outdoor and indoor wire,
outdoor Slinky

Sangean ATS-803A, 30-foot longwire, 150-foot
homebrew dipole

IC-R75, IC7300, Perseus, Random Wire, W6LVP
Loops

No equipment listed

Winradio G1DDC / Elad FDM-SW1 / ADRPLAY
RSPdx: 17 m. longwire/ALA1530LN

WinRadio G33DDC, Icom IC-8600

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. Thanks!



Loggings

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

- 2500 **UNITED STATES WWV** Fort Collins, CO – 5/20 0524 noted with UTC time checks in English and time signals. SIO 333. (Bueneman-MO)
- 3205 **NORTH KOREA KCBS** (presumed) at 1100, sappy saccharine vocalist, patriotic music. Nothing heard on earlier check of 2850 today or yesterday. Originally reported by Ron Howard on California coast but not heard here due to poor tropical reception – Good 5/28 Barton-AZ
- 3215 **UNITED STATES WWCR** Nashville, TN 0232-37 m preacher re heavenly rewards – “much yielding, much power, little yielding, no power”; fair-poor 5/11 (Prodan-ME)
- 3330 **CANADA CHU** Canadian time station French & English “two hours and thirty two minutes”; fair 5/11 (Prodan-ME)
- 3945 **JAPAN Radio Nikkei Program Two** 1030 w/ string of Japanese pop tunes, – Very Good 5/12 Barton-AZ
- 4319 **UNITED STATES U.S. Coast Guard** NMG New Orleans, LA – 5/31 0515 noted with North Atlantic marine forecast in English. SIO 444 in USB mode. (Bueneman-MO)
- 4455 **SOUTH KOREA Voice of the People** (oppo/clan) at 1000 W in K, over jammer – Very Good 5/11 Barton-AZ
- 4840 **UNITED STATES WWCR** Nashville, TN – 5/14 0507 noted with *Info Wars with Alex Jones*, featuring talk against the quarantines due to the COVID-19 pandemic in English. SIO 444. (Bueneman-MO)
- 4960 **SÃO TOMÉ E PRÍNCIPE Voice of America** relay – 5/20 0542 noted with commentary in English; SIO 222. Normally, 4930 kHz from Botswana is in use at this hour. (Bueneman-MO)
- 5010 **UNITED STATES WRMI** Okeechobee FL Alameda Bible Fellowship, f singing; poor-fair 4/17 (Prodan-ME)
- 5025 **CUBA Radio Rebelde** Spanish 0215-45 pop music; fair-poor 5/11 (Prodan-ME)
- 5040 **CUBA Radio Havana Cuba** via La Habana – 5/14 0501 noted with news, including stories on the COVID-19 pandemic in English. SIO 333. (Bueneman-MO)
- 5825 **DENMARK Radio OZ-Viola**, Hillerod, 05/13, 2035. Danish. Faint trace of Jazz music - first time that I've managed to log this low power Danish station. Listed as 0.15kW in WRTH2020. 15331. (Roe-UK)
- 5830 **UNITED WTWW** Lebanon, TN – 5/20 0554 noted with Scriptures for America Worldwide, program promo mentioning where to tune in; carrier off at 0559. SIO 434. (Bueneman-MO)
- 5840 **DENMARK WMR**, Brimming, 05/13, 2050. Danish. Reggae music and ID, then other world music including an Asian song (Japanese or Vietnamese maybe), then into a Spanish (possibly South American) song. 25332. (Roe-UK)

- 5875 **THAILAND Radio Thailand** – Udon Thani, 1112, 5/18/20. Man, Thai musical bridge to the same man, 0114 Thai bells, English ID, Thai Bells, “This is HSK6 ...” 0115 Thai bells, ID in Khmer, woman announcer, Thai musical bridge to Man. Fair. (Taylor – WI)
- 5905 **NORTH KOREA Echo of Unification** (oppo/cland), 1200, w/ M, W, in long monologues in Korean, some patriotic music. – Fair May 22 Barton-AZ
- 5930 **AUSTRIA BBC** Pashto 0138- m Ann, heard “Corona,” telephone interview; fair-good 4/17 (Prodan-ME)
- 5930 **AUSTRIA BBC** relay via Moosbrunn – 5/22 0140 noted with commentary in Dari. SIO 333 with ACI from WWCR on 5935 kHz. (Bueneman-MO)
- 5935 **UNITED University Network** via WWCR Nashville, TN – 5/12 0049 noted with African-American Gospel music into sermon by Pastor Melissa Scott. SIO 545. (Bueneman-MO)
- 5945 **TURKEY Voice of Turkey**, Emirler, 04/25, 1830. English. News: entirely about corona virus in Turkey and globally. Turkey's Tourist Attractions: The archeological site of Pergamon. A selection of Turkish music. 55444. (Roe-UK) 06/03, 1835. English. News, Tourism feature ("Turkey's Tourist Attractions") and a selection of Turkish music. 55544. (Roe-UK)
- 5945 **NEW ZEALAND RNZI** at 0720, Solid armchair Rx here (usually) and all thru the overnights. M with news reports in "Pidgin English" closing program with ID at the bottom of the hour – Very Good 5/26 Barton-AZ
- 5945 **NEW ZEALAND RNZI** at 1130 w/ news about Corona Virus, to a station promo for upcoming program on Corona Virus, to some nice non-pop vocal music – Very Good 5/11 Barton-AZ
- 5960 **GERMANY Mighty KBC Radio** 0000-0150 “Beatlesque” music special including Del Shannon “World Without Love” in first hour, then at 0100 The Giant Jukebox with “Sweet Home Chicago,” “Johnny Be Good,” “Down to the Crossroads,” & other bluesy stuff; fair 4/26 (Prodan-ME)
- 5980 **UNITED STATES Radio Marti** Greenville, NC Spanish 0141-46 m Ann mentioned “correctional centers”; good 4/17 (Prodan-ME)
- 5990 **CUBA China Radio Int’l** English 2317+ m & f miscellaneous commentary; poor 6/6 (Prodan-ME)
- 5995 **MALI Radio Mali** French 2252-2400 “musique du weekend tous les samedis,” talk about African music with excerpts of nice variety of different styles, at 2400 “au revoir, Radio National du Mali” and frequencies; fair 4/25 (Prodan-ME)
- 5995 **MALI Radio Mali** French 2304-35 African music; fair but faded out 5/23 (Prodan-ME)
- 5995 **MALI Radio Mali**, Bamako, 05/13, 1940. VV. Long, long HOA song (over 20 mins until 2000) with male voice as main vocal and chorus response by female voice/children. 35333. (Roe-UK)
- 6000 **CUBA Radio Habana Cuba** English 0135-55 Cuban pianist Orlando ___ recorded April 7, then workshop Chick Corea April 9, both “concerts for Covid19 challenging times” on The Jazz Place; 4/12 6000 poor, 6140 fair+ with occasional hiss (Prodan-ME)
- 6000 **CUBA Radio Habana Cuba**, June 12 at 0158, RHC English S9+20/30 but supported as very often it be; // 6145 is sufficient at S9+20. Something’s always wrong at RHC (Glenn Hauser, OK, WOR)

- 6015 **ENGLAND** *World's Last Chance* Arabic 2336-45 m exhorting; fair+ 6/6 (Prodan-ME)
- 6015 **UNITED KINGDOM** *World's Last Chance* – Wooferton (P), 2356, 5/23/20 in Arabic. Man with preaching cadence. Fair. (Taylor – WI)
- 6030 **UNITED STATES** *Radio Marti* Greenville, NC Spanish 0200-04 m & f Ann re Corona; very good 4/17 (Prodan-ME)
- 6040 **ROMANIA** *Radio Romania Int'l* French 0105-0117 m & f Ann, news & commentary, then music and at 0117 “vous ecoutez au Radio Romanie Int'l”; good 5/19 (Prodan-ME)
- 6050 **FRANCE** *Radio Algérienne* via Issoudun – 5/9 0445 noted with Holy Qu'ran program in Arabic. SIO 444. (Bueneman-MO)
- 6055 **GERMANY** *Evangelista Missions Gemeinden* via Nauen – 5/23 1145 noted with Contemporary Christian music and Christian teaching in German. SIO 333. (Bueneman-MO)
- 6070 **CANADA** *CFRX* Toronto 1150+ panel of parents – how to get back to normal & get kids out of house; fair 5/11 (Prodan-ME)
- 6070 **GERMANY** *from the Isle of Music*, Rohrbach, 06/09, 1900. English/Spanish. Cuban jazz music and interview with Rodrigo Garcia, followed by a feature on Orquesta Aragón - a Cuban musical band formed over 80 years ago. 45333. (Roe-UK)
- 6070 **GERMANY** *Radio Ohne Namen*, Rohrbach, 06/09, 1815. German. Fine selection of German 1930s big band music. 35333. (Roe-UK)
- 6070 **GERMANY** *Uncle Bill's Melting Pot*, Rohrbach, 05/05, 2000. English. Episode 163 with Thai classical, folk & psychedelic music. 55444. (Roe-UK) 06/09, 2000. English. Episode 168 with music from group Malo (in honor of Jorge Santana guitarist and cofounder of Malo, who passed away in May. 45333. (Roe-UK)
- 6080 **BOTSWANA** *Voice of America*, Mopeng Hill, 06/03, 1910. English. Program "Straight Talk Africa" talking about Malawi (elections, coronavirus and other topics). 45333. (Roe-UK)
- 6100 **ROMANIA** *Radio Romania Int'l* Romanian 0112-16 2 m, f in discussion; very good 4/17; also 0122-0155 baroque & popular classical music, including Archangel Corelli and Rachmaninoff; fair-good 5/10 (Prodan-ME)
- 6100 **ROMANIA** *Radio Romania Int'l* Romanian 0024-0110 lively vocal music then mixed with m ann and f tell caller; after 0100 f host, m callers; occas sta ID; good-very good 5/25 (Prodan-ME)
- 6105 **FRANCE** *NHK Radio Japan* Japanese, 0204+ m Ann; very good 4/17 (Prodan-ME)
- 6105 **FRANCE** *NHK, World Radio Japan*, 2:07, May 9, SIO 555, Japanese program: Man reading news and talking about corona virus. Excellent signal very clear, little fading. (Fredette-ON)
- 6115 **UNITED STATES** *WWCR* Nashville, TN 0036-44 Corona epidemic a satanic conspiracy by child-killing, blood drinking elite, part of plan to depopulate the earth; definitely a bio-weapon, but not known as to whether Chinese or US; masks deplete oxygen and cause disease; more, including Bill Gates; good 5/20 (Prodan-ME)

- 6115 **UNITED STATES WWCR** Nashville, TN 0012-22 "Financial Survival" m & f discussing economy, pandemic, bailout bills; ad for Discount Gold & Silver; good 4/25 (Prodan-ME)
- 6115 **JAPAN Radio Nikkei Program Two** 0945 w/ string of J-Pop tunes, W presenter in Japanese, and off on the hour - Very Good 5/12 Barton-AZ
- 6145 **CUBA Radio Habana Cuba** 0016-32 English, f Ann talking about migration; daily Covid19 briefing from head of WHO; fair 4/17 (Prodan-ME)
- 6145 **CUBA Radio Habana Cuba** English 0012-15 "commentary today" re Argentina, Covid; fair 5/12 (Prodan-ME)
- 6145 **UNITED KINGDOM KBS World Radio**, Woofferton, 05/20, 6145. French. Program: "Aux sources de la musique coréenne" with traditional Korean music presented by male presenter. 55555. (Roe-UK)
- 6155 **VATICAN BBC WS**, SM di Galeria, 05/20, 1931. English. News headlines followed by Program: "Health Check" about the Covid-19 situation in Brazil. 55444. (Roe-UK) 06/06, 1930. English. News headlines followed by Program "This is Africa" featuring guest artists Calema from Sao Tome & Principe. 55444. (Roe-UK)
- 6160 **UNITED STATES WBCQ** Monticello, ME 0030-51 Allen Wiener discussing technical problems keeping 9330 transmitter off the air (leased to "World's Last Chance"); also talk about black flies & June bugs; asked for reception reports on 6160, 5130 & 7490; 6160 very good, //7490 poor, //5130 good but 30 sec delay 5/30 (Prodan-ME)
- 6170 **NEW ZEALAND RNZI** in EE. June 11, 2020, 1330 - 1340. SIO 333. YL announcer with various interviews. Discussion of culture impact on author's work. Talk of the attack on Muslims and mosques that was responsible for New Zealanders losing their freedom to own firearms. Continued racial discussion. (Henley, WA)
- 6180 **BRASIL Radio Nacional da Amazônia** Portuguese, 0000-16+ interesting rhythmic guitar & accompaniment; fair-good 4/27 (Prodan-ME)
- 6180 **BRAZIL Radio Nacional da Amazonia**, 2:11, May 9, SIO 545, Portuguese program: soft rock, strong signal slight fading. (Fredette-ON)
- 6180 **BRASIL Radio Nacional da Amazônia** also //11780, Portuguese, 0200-0250 very interesting program of mostly Bahian music; both freq fair-good 5/10 (Prodan-ME)
- 6180 **BRAZIL Radio Nacional da Amazônia** ZYE365 Brasilia, DF - 5/18 0254 noted with light vocal music and promo in Portuguese. SIO 434. (Bueneman-MO)
- 6190 **JAPAN NHK World Radio (Radio Japan)** 1330, M and W in Chinese, tremendous signal - Excellent 5/12 Barton-AZ
- 6195 **SINGAPORE BBC World Service** relay - 5/18 1028 noted with commentary and news headlines in English. SIO 323. (Bueneman-MO)
- 6195 **BOTSWANA Voice of America**, Mopeng Hill, 05/20, 2010. English. African beat with usual great selection of African songs. 55444. (Roe-UK)
- 7205 **FRANCE Radio France Int'l**, Issoudun, 04/25, 2010. French. Music from "Las Maravillas de Mali" and interview with Richard Minier. 33333. (Roe-UK)
- 7230 **IRAN VOIRI** French 2353-0005 2 m interview about US Africa policy "les Americans par exemple ..." right through toh; good 6/6-7 (Prodan-ME)
- 7245 **VATICAN CITY NHK World/Radio Japan** relay Santa Maria di Galeria - 5/16 0513 noted with commentary in English. SIO 323. (Bueneman-MO)

- 7270 **BOTSWANA Voice of America** 0440. Various M in monologues, then suddenly cutting off at 0459 without warning with man in mid-sentence. Shona language (Zimbabwe and Mozambique) listed for this hour– Good 5/21 Barton-AZ
- 7280 **VIETNAM Voice of Vietnam**, Hanoi, 04/25, 1900. English. News including Covid-19 news in Vietnam and a report on the Vietnam Red Cross. Saturday Report about Young Vietnamese volunteers fighting for national reunification in early 1970s. Weekend Music with songs honoring workers during the Covid-19 pandemic including doctors, teachers and farmers. 45433. (Roe-UK)
- 7295 **FRANCE Radio Algérienne** via Issoudun – 5/20 0548 noted with commentary in Arabic. SIO 434. (Bueneman-MO)
- 7300 **IRAN IRIB VOIRI**, Sirjan, 04/25, 1800. German. Nice Iranian song followed by a Program about Ramadan. 55444. (Roe-UK)
- 7345 **SÃO TOMÉ E PRÍNCIPE BBC World Service** relay – 5/22 0700 noted with time pips, preview of upcoming features into news in English. SIO 333. (Bueneman-MO)
- 7355 **ALASKA KNLS** religious broadcast in CC. June 11, 2020, 1434 – 1444. SIO 444. MX, song with YL soloist followed by language lesson in CC / EE using eh word “blow” as the example word. OM instructor. YL announcer follows with long monologue / homily. MX clip, then OM in CC. Shallow QSB, moderate QRN. Listed target is FE. (Henley, WA)
- 7365 **UNITED STATES Radio Martí** via Greenville, NC – 5/8 0248 noted with commentary in Spanish. SIO 444 with mild Cuban jamming. (Bueneman-MO)
- 7410 **CHINA China Radio Int’l** in JJ. June 8, 2020. 1435 – 1442. SIO 444. Pop MX, YL announcer. Monologue between Chinese pop songs. Target is FE. (Henley, WA)
- 7440 **GERMANY Crusader Radio**, Rohrbach, 05/09, 0530. English. Christian song from Israel followed by talk about coronavirus and life in UK during the lockdown and another talk about the Judgement of God and belief in Jesus Christ. 35333. (Roe-UK)
- 7445 **MADAGASCAR BBC WS**, Talata-Volonondry, 04/25, 1930. English. News headlines followed by "This is Africa" with music excerpts in a "10 in 10 pan-African music mix". Music from (amongst others): Cameroon, South Africa, Rwanda, Uganda, Tanzania, Nigeria, Ghana. Interview with Cameroon’s artist Stanley Enow. 44444. (Roe-UK)
- 7460 **BOTSWANA Voice of America** at 0430, Dialogue w/ M and W in (listed) Kinyarwanda/Kirundi (Burundi, Tanzania, Rwanda) – Good 5/13 Barton-AZ
- 9105 **SOUTH KOREA Echo of Hope / Voice of Hope** (oppo/cland) at 1400 M and W in dialogue in Korean. This station can be found on nominal 9100, 5 kHz. Up on 9105, or 5 kHz. Below on 9095 – Good 5/13 Barton-AZ
- 9275 **PHILIPPINES FEBC Radio** at 1430. M and W in Chinese, in dialogue and talking over soft flute music, then pop music cut – Fair/Good 5/20 Barton-AZ
- 9310 **THAILAND Voice of America** Deewa Radio at 1315, long talk with man in Pashto (listed language) this hour, then fading out quickly after the half-hour – Very Good 5/15 Barton-AZ

- 9330 **UNITED STATES WBCQ** Monticello, ME Spanish 1307-12 "World's Last Chance," m speaker; good 5/8 (Prodan-ME)
- 9330 **UNITED STATES *World's Last Chance*** via WBCQ Monticello, ME - 5/9 1530 noted with "WLC" mention and listeners' questions about converting from Judaism to Christianity in English. SIO 545. (Bueneman-MO)
- 9400 **PHILIPPINES FEBC** via Iba - 5/18 1053 noted with Christian teaching in Chinese. SIO 323. (Bueneman-MO)
- 9410 **SÃO TOMÉ E PRÍNCIPE BBC World Service** relay - 5/15 0603 noted with news and analysis in English. SIO 222. (Bueneman-MO)
- 9420 **GREECE *Voice of Greece*** Greek 0015-57 Greek songs, then at 0030 Mommas & Poppas "Monday Monday," Simon & Garfunkel "Mrs. Robinson," Bob Marley "Get Up, Stand Up," and back to Greek rock; good 5/8 (Prodan-ME)
- 9420 **GREECE *Helliniki Radiophonia***, 22:29, May 7, SIO 444 Greek program: Greek folk songs. Strong signal with some fading. (Fredette-ON)
- 9420 **GREECE *Voice of Greece*** Greek 2206-10 music w/m Ann; very good 6/6; also at 0245 The Doors "Alabama Song" (Kurt Weill/Bertolt Brecht); good 6/7 (Prodan-ME)
- 9420 **GREECE *Voice of Greece***, Avlis, 06/03, 1935. Greek. Varied world jazz and folk tunes including "Carolina Blues" an Irish fiddle tune, a C&W tune "Tom Dooley" and a folk song "John Hardy, and many more. 55444. (Roe-UK) 06/08, 1920. Greek. Program ΦΥΣΑΕΙ Ο ΜΠΑΤΗΣ, ΦΥΣΑΕΙ ΤΟ ΚΥΜΑ, which Google translates as "Batis is Nature, Nature is Physical", with varied world music including American Blue grass, East European traditional music and some Asian music. 55555. (Roe-UK)
- 9450 **TAIWAN *Furusato no kaze*** (oppo/cland) at 1430 // 9560. M with monologue in Japanese. Somewhat stronger // on 9560. The reported // on 11995 via Tashkent Uzbekistan unchecked, as not normally audible here - Good May 20 Barton-AZ
- 9455 **UNITED STATES WRMI** Okeechobee FL 2207-2220 m preacher - "mark of the beast," "prophecy," "I will bring this judgement upon you," etc; poor+ 6/6; 0217-21 country music Tracy Chapman "Freedom Now"; fair-good 6/7 (Prodan-ME)
- 9470 **TAIWAN *Furusato no kaze*** (oppo/cland) 1610 (in progress) //. Talk by W in Japanese, male pop vocal song, more monologue in Japanese, and female Japanese vocal song to close at BoH - Good 5/23. Barton-AZ
- 9490 **FRANCE *Radio Republica*** Spanish 0208-17 m Ann, numerous references to George Floyd; 0214- Washington, DC address, station/program IDs & frequencies; good 6/7 (Prodan-ME)
- 9510 **SINGAPORE BBCWS** at 1330, long talk M in (listed) Bengali, going off suddenly on the hour (1400) - Good 5/15 Barton-AZ
- 9535 **CUBA *Radio Habana Cuba*** Spanish 0206-08 m & f Ann; fair- 6/7 (Prodan-ME)
- 9555 **SAUDI ARABIA *Broadcasting Service of the Kingdom of Saudi Arabia*** - Riyadh, 2217-2238 May 20, man announcer with long Arabic language talk followed by vocal selections. Fair signal. (D'Angelo-PA)
- 9555 **CHINA / TAIWAN *Radio Taiwan Int'l*** - Kouhu & CNR 1 jammer - ? 1202, 5/18/20, in Mandarin. A mess with both stations about even. RTI with a musical bridge, program theme and a woman announcer over the music. CNR jammer with man and woman alternating. Recheck at 1206 found only the

jammer audible. Jammer // 9660 vs. RTI from same site (unheard.) Many other CNR 1 jammers audible this morning including 9680, 9885 & 15510. (Taylor - WI)

- 9560** **TAIWAN *Furusato no kaze*** (oppo/cland) at 1445 // 9450. W over soft music, monologues all in Japanese and closing out at ToH. The 9450 // was Fair - at best - Good 5/22 Barton-AZ
- 9560** **TAIWAN *Furusato no kaze*** at 1430 // 9450. Heard with indoor wire, Grundig Satellit 205. 9450 // TX much weaker. W in Japanese over soft music, musical note bridges between segments, closing music at the ToH and off. - Good 5/10 Barton-AZ
- 9570** **ROMANIA *Radio Romania Int'l***, Tiganesti, 05/13, 1835. German. Trad Romanian folk music presented by female voice, who also referenced in her talk "R Bucharest" and (I think) "Skylark". Music was by a female vocalist, possibly someone who was a regular in the old Skylark Programs on the former R Bucharest. 55555. (Roe-UK)
- 9580** **CUBA *China Radio Int'l*** Chinese 0202-06 m Ann; very good 6/7 (Prodan-ME)
- 9625** **TAIWAN *RTI*** (Tamsui dist) at 1407, W in Vietnamese, RTI jingle on the half - Poor to Fair 5/12 Barton-AZ
- 9630** **AUSTRIA *AWR***, Moosbrunn, 05/09, 0505. Haussa (listed). Some great African Christian music and energetic talk and prayers by male voice. 55555. (Roe-UK)
- 9665** **BRASIL *Radio Vox Missionária*** music; poor 6/6 (Prodan-ME)
- 9685** **TAIWAN *Nippon no kaze*** (oppo/cland) 1520 (in progress). W over soft music in Korean, closing music and going on thru after 1530 with more monologue in Korean, woman and then man. Familiar musical bridges - Good 5/23. Barton-AZ
- 9700** **NEW ZEALAND *Radio New Zealand Int'l*** - Rangitaiki, 0500-0514 May 20, tuned in to hear a woman announcer with the news in the English language. Missed change over from 13840. Good signal. (D'Angelo-PA)
- 9700** **VATICAN *Radio Veritas Asia*** - St. Maria Galeria (P), 0015, 5/21/20 in Kachin. Only remaining RVA broadcast. Woman, jazzy musical bridge to woman announcement into another musical bridge then a man talking for about 5 minutes, musical bridge into mellow Southeast Asian vocal, man and woman announcers talk into indigenous music, off 0028. Fair. (Taylor - WI)
- 9705** **TAIWAN *Furusato no kaze*** at 1330 // 9455. M and W in Japanese w/ monologues, closing music and web address nearer the ToH. Much better here than 9455 //, which was co-channel w/ Brother Stair - Very Good 5/9 Barton-AZ
- 9730** **ALASKA *KNLS*** religious broadcast in RR. June 9, 2020, 1514 - 1520. SIO 544. Pop MX. OM announcer in RR with ID and commentary. Target is FE. Moderate QRN, shallow QSB. Contact information given followed by different OM with homily. (Henley, WA)
- 9730** **ALASKA *KNLS*** (Anchor Pt., AK) 1530. Religious lecture by M in Russian to rock music cut (HR/HM band Whitesnake) - Excellent 5/12 Barton-AZ
- 9760** **ALASKA *KNLS*** religious broadcast in CC. June 9, 2020, 1540 - 1545. SIO 444. YL in Mandarin with homily. Listed target is FE. Good signal, easy listening. Slight QRN / QSB. MX clip then OM announcer with religious message. (Henley, WA)

- 9760 ROMANIA *Radio Romania Int'l***, Tiganesti, 05/13, 1700. English. News and Radio Newsreel (mostly about Covid-19 and associated topics - eg problems of education with limited access to online learning by many children). Society Today more about covid-19 pandemic Society Today (more about covid-19 pandemic). DRM: 16dB. (Roe-UK)
- 9760 ALASKA *KNLS*** (Anchor Pt., AK) Soprano vocalist, anti-smoking lecture by M in English (this hour listed in Chinese - and DID go to Chinese later) - Good 5/25 Barton-AZ
- 9790 ROMANIA *Radio Romania Int'l*** English 2236-42 m Ann, jazz saxophone; 2242 "this is Bucharest, Radio Romania Int'l; poor-fair 6/6 (Prodan-ME)
- 9790 FRANCE *Radio France Int'l***, Issoudun, 05/23, 2000. French. Program "Musique du Monde" 55444. (Roe-UK) 06/01, 2010. French. Program "Couleurs Tropicales" including music from Yemi Alade & Angelique Kidjo, Singuila featuring Fally Ipupa, Blessed, Edgar Sekloka, Smarty and Jay-Z featuring Alicia Keys, amongst others. 55555. (Roe-UK)
- 9805 UNITED STATES *Radio Marti*** Greenville, NC Spanish 1145-50 interview, ref to Corona virus, sta ID; good 5/10 (Prodan-ME)
- 9820 CHINA *CNR2***, Xianyang, 06/01, 2058. Chinese. Interval Signal, sign-on with announcements by a female voice and into a Chinese pop ballad. 35333. (Roe-UK)
- 9830 TURKEY *Voice of Turkey***, 22:35GMT, May 2, SIO 444, English program: Pop Turkish music, I.D. at 22:35, "Voice of Turkey", More music. Talk on how to prevent Corona virus followed by more Turkish music. Good signal minor fading. (Fredette-ON)
- 9830 TURKEY *Voice of Turkey***, 22:20, May 10, SIO 444, English program: Multi lingual introduction folk music, followed by announcement on how to guard against the corona virus, clear audio. (Fredette-ON)
- 9895 PHILIPPINES *FEBC*** - Iba (P), 1243, 5/23/20 in Bahnar. Southeast Asian music into a man preaching. (Bahnar is a Vietnamese tribal language spoken by about 160,000 people.) Poor.
- 9910 GUAM *KTWR*** - Medorn, 1214, 5/18/20 in Assamese. IS, ID, South Asian musical bridge to man announcer into a hymn using a Western tune. Poor. (Taylor - WI)
- 9920 THAILAND *Radio Thailand***, Udon Thani, 05/13, 1850. Thai. Song "Dance to the Sound of Siam/.../Thailand Open to the New Way" 55444. (Roe-UK)
- 9925 GERMANY *Mighty KBC Radio*** 0000-0115; "Red Hot Rockin' Blues," Little Willie John's 1958 hit "Talk to me," Fats Domino "Ain't That a Shame," more; fair-good, but fading by 0115 5/10 (Prodan-ME)
- 9925 GERMANY *Mighty KBC Radio*** 0025-33 reggae - Toots & Maytals "Big Monkey Man," Johnny Nash "Tears on my Pillow," then reception reports; 6/7 fair-good (Prodan-ME)
- 9940 SWAZILAND *TWR Africa***, Manzini, 05/14, 1910. Lingala (listed). Hymn in African language followed by talk by male voice. 45444. (Roe-UK)
- 9955 NEW ZEALAND *WRMI*** relay of RNZ. UTC Thu June 11 at 0100, new WRMI relay of RNZ as per updated sked at 0100-0130, with `Korero Pacifica`, as on WRN to North America at this hour, about topic-V of course; but it's only 15 minutes followed by Vatican on WRN sked. So presumably not live // 13840 RNZI direct, unchecked, with different Pacifica programming scheduled for full hour. Heavy

jamming before 0100 vs Alameda Bible Fellowship in English now slowly abates. But what is the point of on sending this to South America one day a week? (Glenn Hauser, OK, WOR)

- 9980 UNITED STATES WWCR** with the Overcomer Ministries religious program in EE. June 13, 2020, 2156 – 2208. SIO 555. Hymns, YL announcer. OM preacher, then Brother Stair holding forth apparently from his “farm.” (Henley, WA)
- 9980 UNITED STATES WWCR** Nashville 2242-2304 “all these wicked people in the Jesuit Order,” Hillary & Bill & Al Gore aiming to get back in the White House, conspiracy to endorse Joe Biden (sic); “the nation will decline so fast,” much more; fair+ 6/6 (Prodan-ME)
- 11460 CHINA CNR 1** jamming in CC. June 9, 2020, 1530 – 1539. SIO 333. Time pip at BOH. CC MX, OMs in talk. Advertisements. Likely jamming “Sound of Hope” from Taiwan. Jamming is effective. Moderate QRN / QSB. Listenable. Long conversation between OMs Strident YL joins talk at 1537. (Henley, WA)
- 11530 FRANCE Voice of Welt** (Radyo Denge Welat) 20:53, May3, SIO 333, Kurdish program: Man singing with oud. More folk songs. Good signal minor fading. (Fredette-ON)
- 11530 FRANCE Denge Welat**, Issoudun, 06/01, 1930. Kurdish. Several Kurdish tunes with no announcements including one song with male vocal only and no musical backing. 55555. (Roe-UK)
- 11560 INDIA All India Radio**, Bengaluru, 05/13, 1455. English. Music until 1500, then News in English with coronavirus finance support news providing relief to construction industries, etc. Broadcast continued with more coronavirus news. 44444. (Roe-UK)
- 11630 CHINA CNR17**, Lingshi, 06/07, 1711. Kazakh. Presumed Kazakh music (or maybe Chinese music) with comments by male and female voices. 35333. (Roe-UK)
- 11635 NORTH KOREA Voice of Korea** at 2200 signing on just after close of HM-01 numbers station on this frequency. Usual anthems, W talking, but we were unable to make out what language due to poor signal (listed Chinese, which is normally easily identified). Later sappy soprano vocalist coming thru the static – Poor 5/11 Barton-AZ
- 11645 NORTH KOREA Voice of Korea**, patriotic music w/ instrumentals and saccharine soprano vocals. M host in Arabic – Fair 5/23 Barton-AZ
- 11650 CHINA China Radio Int'l** (via Xianyang) at 1700, M in (listed as) Esperanto, trad Chinese vocal music – Fair 5/22 Barton-AZ
- 11650 MADAGASCAR Radio Dabanga** 0428. Heard with SW-2000629 and window frame antenna, lighting the tuning eye with good signal. M and W with multiple repeats of ID between 0428 tune-in and 0430, multiple mentions of “Sudan”. Regional vocal music after the half – Very Good 5/16 May 16 Barton-AZ
- 11660 CHINA Radio China Int'l**, 20:49, May 10, SIO 222, French program: Music followed by man and woman speaking. Hard to follow the conversation. Very bassy sound barely above the noise level. (Fredette-ON)
- 11670 SPAIN Radio Exterior Espana**, Noblejas, 06/01, 2115. Spanish/English. Conversation between a male and female voice and a Spanish song until ID 2200 “Radio Exterior Espana” and resumption of REE English language service with a short introduction by Justin Coe and Alison Hughes remembering lost

colleagues at RNE and playing excerpts from Requiem by Francisco Guererro. 55444. (Roe-UK)

- 11680 ZAMBIA *Voice of Hope*** English 1045-1100 religious music "I am strong now," at toh frequencies given, "the following program Voice of Hope Hour"; poor-fair 5/8 (Prodan-ME)
- 11700 ROMANIA *Radio Romania Int'l*** Romanian 1157-1201 interval tones until toh then m ann "Radio Romania Int'l" then talk; poor 5/8 (Prodan-ME)
- 11710 NORTH KOREA *Voice of Korea*** in EE. June 9, 2020, 1521 – 1528. SIO 444. OM with news and commentary about relationship with South Korea. Audio distortion on signal. Moderate QRN / QSB. Talk of water treatment with fluoride. Heaping blame for something on South Korea. Excuses for cutting off communications. Complete propaganda. ID in EE. Switch to YL announcer identifying MX pieces in the usual VOK format. (Henley, WA)
- 11710 NORTH KOREA *Voice of Korea*** in EE. June 13, 2020, 1524 – 1536. SIO 544. YL announcer. MX pieces with both vocals and instrumentals. YL with praises to leaders past and present. Audio clip of OM speaker praising various Kims and the "revolution." Audio distortion on the signal, as usual with VOK and this transmitter. (Henley, WA)
- 11710 NORTH KOREA *Voice of Korea*** at 1545 w/ martial music, concluding ancmts by M in accented English w/ sked info, silence to reopen in French – Very Good 5/13 Barton-AZ
- 11725 CHINA *China Radio Int'l*** (Xianyang) 1730, M in German, then ID and China references at BoH – Fair; Choppy 5/12 Barton-AZ
- 11745 SAUDI ARABIA *Al-Azm Radio***, Jeddah, 0345-0350. Arabic vocal music. Very weak signal, just above the noise, with moderate fading. 5/16/2020 (Evans - TN)
- 11745 SAUDI ARABIA *Al-Azm Radio***, Jeddah, 0345-0350. Arabic vocal music. Very weak signal, just above the noise, with moderate fading. 5/16/2020 (Evans - TN)
- 11760 CUBA *Radio Habana Cuba*** Spanish 1320-32 m giving speech, cut off at 1322 but back after a few minutes; fair 5/8 (Prodan-ME)
- 11770 NIGERIA *Voice of Nigeria***, 20:54, May 10, SIO 333, Hausa program: man talking followed by folk music, flutes and drums. Cut off at 20:58, Bassy audio with fading. (Fredette-ON)
- 11780 BRAZIL *Radio Nacional da Amazônia*** 0000-56 Portuguese, nice guitar music, m Ann, web sites, station IDs & frequencies; fair-good 4/12 (Prodan-ME)
- 11780 BRAZIL *Radio Nacional da Amazonia***, 23:10, May 14, SIO 444, Portuguese program : Music program, lite pop songs, I.D. at 23:13, good signal, little fading. (Fredette-ON)
- 11780 BRAZIL *Radio Nacional da Amazonia*** in PP. June 13, 2020, 2211 – 2223. SIO 544. Latin MX, OM announcer. Domestic program. Station ID at 2218. (Henley, WA)
- 11785 PHILIPPINES *Voice of America*** 12:13, May 16, SIO 322, Chinese program: Background music with young lady speaking. Good to fair with much flutter. (Fredette-ON)
- 11815 JAPAN *NHK World (Radio Japan)*** at 1450 with M, W in Japanese language dialogue, well over a het whine (CRI via Urunqi-?). M in Japanese with closing


- announcements, multiple IDs, pips and off at 1500 – Very Good 5/13 Barton-AZ
- 11860 **OPPOSITION Republic of Yemen Radio** – Jeddah, SAUDI ARABIA (P), 0026, 5/20/20 in Arabic. Qur'an chant. (Taylor – WI)
- 11860 **SAUDI ARABIA Republic of Yemen Radio**, Jeddah, 0350-0355. Talk in Arabic by a man. Very weak signal with moderate fading. Signal quality similar to that of Al-Azm Radio on 11745. 5/16/2020 (Evans - TN)
- 11860 **SAUDI ARABIA Republic of Yemen Radio**, Jeddah, 0350-0355. Talk in Arabic by a man. Very weak signal with moderate fading. Signal quality similar to that of Al-Azm Radio on 11745. 5/16/2020 (Evans - TN)
- 11875 **UNITED ARAB EMIRATES BBC**, Al-Dhabbaya, 0353-0357. Talk in Farsi by a man and a woman. Weak to moderate strength signal with moderate fading. 5/16/2020 (Evans - TN)
- 11875 **UNITED ARAB EMIRATES BBC**, Al-Dhabbaya, 0353-0357. Talk in Farsi by a man and a woman. Weak to moderate strength signal with moderate fading. 5/16/2020 (Evans - TN)
- 11880 **CHINA China Radio Int'l**, Xianyang, 05/31, 1640. Hakka (listed). Traditional Chinese music (presumably in Hakka language) on China R Int on 11880 kHz. (Using USB to avoid strong adjacent QRM from CRI Russian on 11875). 33343. (Roe-UK)
- 11895 **CHINA China Radio Int**, Xian, 06/06, 1810. Amoy or Chaozhou. Long Program of Chinese traditional music from tune-in until sign-off at 1857, with comments by male voice. AOKI has Chaozhu as the language at this time, whilst EiBi has Amoy. In HFCC the language is listed as Nan (presumably the Min Nan group of Chinese languages which seems to include both Amoy and Chaozhu). So language could be either Amoy or Chaozhou. 45444. (Roe-UK)
- 11910 **JAPAN NHK World Radio** at 2130, M in monologue (Japanese), some music, and then woman. Familiar pips and ID by M on the hour – Poor to Fair 5/25 Barton-AZ
- 11930 **UNITED STATES Radio Marti** from Greenville, NC in SS. June 13, 2020, 2225 – 2234. SIO 433. OM with long monologue. Heavy QRN, moderate QSB. ID at BOH. YL announcer with various announcements. Return to OM as the main announcer. (Henley, WA)
- 11935 **CHINA China Radio Int'l** (Shijiazhuang) at 1200 ID, W with apparent newscast, musical tones between items, in Russian – Very Good 5/20 Barton-AZ
- 11950 **ROMANIA Radio Romania Int'l** Romanian 1328-32 song then f Ann with news headlines – Corona virus, “social media Facebook,” station ID, then music again; fair 5/8 (Prodan-ME)
- 11950 **VATICAN Vatican Radio**, SM di Galeria, 05/31, 1602. French/English. Music fill with a classical music piece and a pop song, all with occasional announcements over the music by a female voice in French until English news started at 1615. 55444. (Roe-UK)
- 11955 **GUAM AWR** at 2210, Long talk by M in (listed) Indonesian, vocal music with woman singer, more of man in Indonesian, then tenor vocalist with religious song – Fair 5/13 Barton-AZ
- 11965 **MADAGASCAR MWV African Pathways**, Mahajanga, 05/31, 2000. English. Station signing-on with music and comments by male voice. 35333. (Roe-UK)

- 11975 **MALI Radio China Int'l**, 21:45, May 11, SIO 333, French program: Woman talking about school children taking a trip to China. Moderate fading. Fair signal. (Fredette-ON)
- 11980 **CHINA, Radio China Int'l**, 23:54, May 11, SIO 323, English program, News on USA and Corona virus and comments by Barack Obama. Fair to poor with some fading. (Fredette-ON)
- 12000 **CUBA Radio Habana Cuba** Spanish, f Ann; faint 5/8 (Prodan-ME)
- 12019 **VIETNAM Voice of Vietnam** (Hanoi) 1145. Traditional Vietnamese music, ID at the ToH - Good 5/14 Barton-AZ
- 12035 **THAILAND Deewa Radio** (Voice of America) - Udon Thani (P), 1300, 5/23/20 in Pashto. Woman with the end of the sign on into a man with likely news. Fair. (Taylor - WI)
- 12045 **THAILAND Voice of American** KK relay via Udon Thani. June 11, 2020, 1358 - 1405. SIO 444. Pop MX, YL singer, Petula Clark, and then an instrumental piece. OM announcer with a strident monologue. News. Listed target is FE (Henley, WA)
- 12045 **JAPAN NHK World Radio** at 1500, M in Japanese, right after close of very powerful Korean service of VOA (via Thailand) - Fair 5/20 Barton-AZ
- 12065 **SINGAPORE BBC WS** in EE relay via Kranji. June 11, 2020, 1348 - 1355. SIO 333. Discussion of Corona Virus lockdown and its effects. The Floyd murder and its continued impact. Talking head type of interview about how terrible American "police culture" is and how bad the racial divide has become. (Henley, WA)
- 12080 **PHILIPPINES Voice of America**, 12:15, May 16, SIO 322, Korean program: young lady speaking followed by pop music. Good to fair signal with much flutter. (Fredette-ON)
- 12080 **PHILIPPINES Voice of American** KK relay via Tinang. June 8, 2020, 1443 - 1501. SIO 444. OM with long monologue in KK. Target is FE. Second OM joins conversation. Minor QRN / QSB. Conversation continues with some EE audio clips. Talk of the health of Kim as leader of North Korea. Mention of the promotion of his sister. MX and YL announcer at 1451. Animated OM announcer follows. Sign-of ID at 1459. Off air with Yankee Doodle theme at 1501. (Henley, WA)
- 12080 **PHILIPPINES Voice of America** 1230. Apparent news magazine pgm, audio clips, in Korean - Very Good 5/14 Barton-AZ
- 12095 **ASCENSION ISLAND BBC**, 2051, 5/18/20 in English. BBC sounder, program promo. Into start of a program. Poor with usual Ascension squeal. (Taylor - WI)
- 12500 **TAIWAN Sound of Hope** Chinese 1341-47 m & f speakers; fair+ 5/8, also //13020 poor-fair (Prodan-ME)
- 13605 **UNITED STATES Radio Marti** Greenville, NC Spanish 1349 m Ann; faint/static 5/8 (Prodan-ME)
- 13640 **CHINA China Radio Int'l** in JJ. June 13, 2020, 2236 - 2243. SIO 544. Asian MX, YL announcer in JJ. Slight QSB. Listed target is FE. YL with long monologue, then choral MX, possibly CC show or opera tunes. (Henley, WA)
- 13700 **CUBA Radio Habana Cuba** Spanish 1351-55 station ID, references to Fidel Castro, Jose Marti, "saludos amigos;" fair-good 5/8 (Prodan-ME)

- 13710 **SAUDI ARABIA Radio Saudi** at 1630, alternating between M speaking in Arabic and calls to prayer chanting - Fair 5/24 Barton-AZ
- 13740 **CUBA Radio Habana Cuba** in SS. June 13, 2020, 2243 - 2249. SIO 343. OM announcers, ID, talk. Heavy QRN and rapid QSB. OMs in conversation or debate. (Henley, WA)
- 13755 **CHINA Radio China Int'l**, 15:16, May 15, SIO 222, Chinese program: Man speaking. Fair signal just above static noise level. (Fredette-ON)
- 13840 **NEW ZEALAND Radio New Zealand Int'l** - Rangitaiki, 0424-0447 May 20, relay of a BBC features program followed by a woman announcer mentioning leaving the BBC program. News headlines, traffic and weather followed. At 0432 a station ID and time check. Fair to good. (D'Angelo-PA)
- 13840 **NEW ZEALAND Radio New Zealand**, Rangitaiki, 0338-0345. Contemporary pop music with commentary by a man and a woman. Strong signal. 5/16/2020 (Evans - TN)
- 13840 **NEW ZEALAND Radio New Zealand**, Rangitaiki, 0338-0345. Contemporary pop music with commentary by a man and a woman. Strong signal. 5/16/2020 (Evans - TN)
- 13845 **UNITED STATES WWCR** Dr. Gene Scott religious program in EE from Nashville, TN. June 13, 2020, 2250 - 2253. SIO 333. YL preacher with a mix of religious and political comments or homily. Heavy QRN, slow, shallow QSB. (Henley, WA)
- 15110 **PHILIPPINES Voice of America** 15:01, May 8, SIO 333 Chinese program: Man and woman talking. Good to fair with modest flutter. (Fredette-ON)
- 15335 **CHINA Radio China Int'l**, 12:18, May 16, SIO 333, Russian program: Man and woman reading news with comments on Australia, good to fair signal with moderate flutter. (Fredette-ON)
- 15400 **ASCENSION ISLAND BBC** 1826-32 global pandemic, 184 countries affected: "we'll see changes in attitude towards government," news headlines, then "back to Your Question, Europe;" poor+ 4/11 (Prodan-ME)
- 15410 **CHINA Radio China Int'l**, 14:50, May 12, SIO 222, Chinese program: Man talking, fair signal with mild fading and flutter. (Fredette-ON)
- 15470 **TAJIKISTAN Radio Free Asia**, 12:22, May 16, SIO 323, Tibetan program: Man and woman speaking with interspersed music. Good to fair signal with moderate fading. (Fredette-ON)
- 15580 **BOTSWANA Voice of America** 14:54, May 12, SIO 222, English program: man and woman reading a story about President Roosevelt. Bassy signal used USB to clarify signal a bit. Fair signal. (Fredette-ON)
- 15770 **UNITED STATES WRMI?** Okeechobee FL 1303-08 pure teletype; good 5/8 (Prodan-ME)
- 15825 **UNITED STATES WWCR** Nashville, TN 1335-39 m preacher; good 5/8 (Prodan-ME)
- 17490 **CHINA Radio China Int'l**, 12:31, May 16, SIO 433, English program: Discussion between a man and woman on learning Chinese with the two speakers going thru a few example of Chinese phrases. Good signal. (Fredette-ON)
- 17560 **CHINA Radio China Int'l**, 12:28, May 16, SIO 333, French program: Two women speaking about North African cooking. Good to fair signal. (Fredette-ON)
- 17650 **CHINA Radio China Int'l**, 12:26, May 16, SIO 323, Chinese program: Man and woman speaking. Good to fair signal with some fading. (Fredette-ON)

17660

FRANCE Radio France Int'l French 1244-1300 f & m in discussion, off at 1300;
fair 5/8 (Prodan-ME)

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. 



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<www.ontheshortwaves.com> Update, May 17, 2020 -- Under "DX History/Stations," we have posted a file on Radio Commerce, Port-au-Prince, Haiti, which was active in the 1950s and 1960s on 49 and 31 meters. The file includes some loggings of the station taken from the NNRC bulletin, together with two QSLs and a French-language brochure which the station sent out. -- We have added two new clandestine QSLs to the clandestine section of "The CPRV Gallery," both in the "Asia (including Middle East) and Pacific" category. They are: (1) Iran - The Voice of Fedaii, which was a communist station broadcasting in opposition to the Iranian government. And (2) Palestine - Al Qods Radio. According to the 1993 DSWCI Clandestine Stations List, Al-Quds Radio, the Palestine Arab Radio, was run by the Popular Front for the Liberation of Palestine-General Command, headed by Ahmed Jabril. PFLP-GC was supported by Syria, Libya, and possibly Iran, and was located in Damascus (this QSL was mailed from Damascus). The station was first reported heard in 1988. -- And thanks to Adrian Peterson, who has been busy updating the Wavescan entries, which are in "Specialized Resources." He has filed six new stories: (1) "The Radio Scene at the Sinking of the Graf Spee" (Wavescan N577, March 15, 2020); (2) "The First Wireless/Radio Station in Greenland" (Wavescan N580, April 5, 2020); (3) "Paraguay on Mediumwave" (Wavescan N582, April 19, 2020); (4) "Another Chapter in the Radio Scene on the Islands of Vanuatu" (Wavescan N583, April 26, 2020); (5) "Ancient DX Report 1921" (Wavescan N583, April 26, 2020); and (6)

"Radio Vila: The First Shortwave Era in the South Pacific Islands of Vanuatu" (Wavescan N585, May 10, 2020).


<www.ontheshortwaves.com> Update, May 24, 2020 -- Under "DX History/Equipment & Advertising" we continue posting miscellaneous receiver spec sheets, this time from the 1970s. **Spec Sheets II** contains these: Barlow Wadley XCR-30, McKay Dymek DR 22C (1975), McKay Dymek DR 33C (1975), Yaesu FRG-7 (1976), Panasonic Command Series [RF-2200/2800/4000] (1977-1982), SONY ICF-7600 (1978), Drake R-7 (1979), Kenwood R-1000 (1979), Panasonic RF-9000 (1981), and Panasonic RF-6300 (1982).


<www.ontheshortwaves.com> Update, May 31, 2020 -- This time we visit two African countries: the former Belgian Congo, and Burundi. We have already posted several items from Belgian Congo station OTC, which was set up in 1943 as an international voice for the Belgian government in exile. (See the OTC pamphlet posted at <<http://ontheshortwaves.com/Stations/OTC-Leopoldville.pdf>>) Always DXer friendly, OTC continued in operation after the war, originating much of its own programming and catering to a worldwide audience of devoted shortwave listeners. Starting on August 1, 1952, the station reduced its SW footprint, transmitting thereafter on just one channel, 9655 kHz. (50 kw.), and serving solely as a relay station of the Belgian National Broadcasting Service in Brussels (ORU). Around the time of the World's Fair in Brussels (1958), ORU began calling itself the International Goodwill Station. Belgium verified reports on OTC, at first using a special OTC card, later ORU QSLs with an OTC overprint. We have posted three of these ORU/OTC cards in "The CPRV Gallery" under "Shortwave Broadcast/Africa." OTC closed down when the Congo gained independence on June 30, 1960. -- Also posted in "The CPRV Gallery" is a file with two QSLs from Radio CORDAC, Bujumbura, Burundi, one from 1966 and one from 1977 (thanks Rich McVicar), plus a copy of the station's "Skywave" booklet from 1966. The station began broadcasting on Christmas Eve 1966, and was on the air until around 1977. -- Under "Specialized Resources," Adrian Peterson favors us with three new Wavescan entries: (1) "The Greenland Story: The Good Ship Morrissey and its Arctic Voyages" (Wavescan N584, May 3, 2020); (2) "Paraguay on Shortwave - Part 3: After the War" (Wavescan N586, May 17, 2020); and (3) "Vois Blong Yumi/Vanuatu on Shortwave" (Wavescan N587, May 24, 2020). -- And thanks to Colin Miller for the recording of Radio Dushanbe from the 1970s. It's in "The DX Recordings of Colin Miller," under "Specialized Resources."

<www.ontheshortwaves.com> Update, June 7, 2020 -- We have posted another group of receiver spec sheets in "DX History/Equipment & Advertising." **Spec Sheets III** includes: JRC NRD-515 (1980); SONY ICF-2001 (1980)/ICF-6800W (1980) and others; SONY ICF-2001 (1980) and others; SONY ICF-2001 (1980); SONY CRF-1 (1981); Yaesu FRG-7700 (1981); ICOM IC-R70 (1982); Kenwood R-600 (1982); Kenwood R-2000 (1983); ICOM IC-R71A (1984); Yaesu FRG-8800 (1985); Drake R8A (1995); and AOR AR7030 (1996). -- For those who like to check out shortwave in the movies, look under "DX History/Equipment & Advertising" for a few photoclips from the movie "Midway" (2019). These include two photos of the Zenith Trans-Oceanic 7G605 "Clipper" receiver ("bomber" version, of course); a photo of a Hallicrafters PM-23 speaker (complete with metal "h"); and, in the Halli photo and two others, a receiver (the one with the plastic "bubble looking" dial) that bears a strong resemblance to the British R1155 wartime receiver, which was made mainly by Marconi but

also by other companies. The controls are not exactly the same as the R1155, but the resemblance is more than passing; perhaps this is a lesser-known version of the R1155, or a modified R1155, or a different model of the "R1155 genre." In any event, thanks to Henry Rogers, WA7YBS, proprietor of the online Western Historic Radio Museum <<https://www.radioblvd.com/>> for identifying the unit's lineage. Can anyone supply more specifics? -- And from Adrian Peterson, under "Specialized Resources/Wavescan," we have "The Land of the White Tiger: The Radio Scene in the Indian State of West Bengal" (Wavescan N589, June 7, 2020).

<www.ontheshortwaves.com> Update, June 14, 2020 -- Under "DX History/Literature & Humor," we have posted some Dutch-language postcards. A couple are New Years cards, and while we don't know the exact meaning of the texts--translation, someone?--the overall message seems pretty clear: DX makes the heart grow fonder! -- And under "Specialized Resources," there is a new "Australia" Wavescan from Adrian Peterson: "The Radio Scene and the Overloaded Telephone Exchange" (Wavescan N588, May 31, 2020).

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

NASWA 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 D'Angelo (rdangelo3@aol.com) a note with your e-mail address, location and membership expiration date from your mailing label. You can participate by sending your latest logs to the electronic Flashsheet edited by Mark Taylor, markokpik@gmail.com. The club's electronic Flashsheet helps members stay on top of the action with breaking shortwave news and information. The electronic newsletter is an excellent supplement to the monthly Journal for the timely dissemination of DX loggings and breaking news. 

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