

The **NASA** Journal

VOLUME LX NUMBER 5

MAY 2020



North American Shortwave Association – America's Shortwave Broadcast Club

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We have done a little 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:

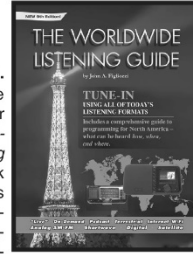
B Radio Books, **C** Radio Catalogs, **D** Radio Manuals

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 wi-fi. Learn what can be heard how, where and when! Spiral bound 9th Ed. 192 p. ©2019. List \$29.95.

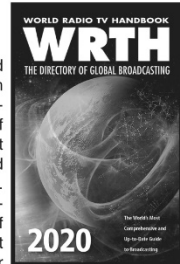
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WORLD RADIO TV HANDBOOK 2020

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**

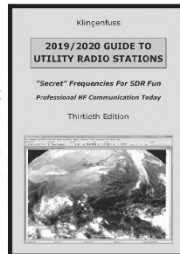


2019/2020 GUIDE TO UTILITY STATIONS

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**



SHORTWAVE RECEIVERS PAST & PRESENT 1942-2013

By **F. Osterman**.

A comprehensive guide to over 1700 shortwave, amateur and commercial communications receivers (plus 1200 variants) made in the last 70 years. With 1800 photos and information including: coverage, circuit, display, features, performance, new & used values (for most), reviews, etc. Over 360 manufacturers are represented. Become an instant receiver expert. Hard bound Fourth Ed. Second Printing. ©2014 UJRR. 800 p.

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NASA Notes

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

As we go to press, the coronavirus crisis has dominated the news. Our hobby is one that tends to be practiced indoors and alone so social distancing becomes pretty easy while listening to the shortwave bands. Our radio shack should provide some level of comfort while this pandemic is with us. Enjoy the radio hobby and stay healthy!

This month John Herkimer's cover design features a long time international shortwave broadcaster, Radio France International. The building where all the broadcasting activity takes place was not only featured in a QSL card design (with the Eiffel Tower and the Seine River in the background) but also a postage stamp. Unfortunately, TeleDiffusion de France ("TDF") doesn't verify listener reception reports these days but many international organizations use the Issoudun transmitter facilities as their relay facilities. Therefore, it is possible to still verify France these days through all the other users of the TDF facilities.

From Radio World we learn that the **Federal Communications Commission ("FCC")** announced on Tuesday March 24th that its March 31 Open Meeting will be live streamed via www.fcc.gov/live and on the FCC's YouTube channel. There will be no in-person meeting due to the "COVID-19 pandemic and related agency telework and headquarters access policies." Presumably this practice will remain in place until things are satisfactorily resolved.


From Anker Petersen we learn that he has just published the annual Domestic Broadcasting Survey-22 (DBS-22) at www.dswci.org/dbs. As usual, it is free of charge for any DX-er to download for his/her


personal use. The Domestic Broadcasting Survey is divided into three parts: Part 1: The Tropical Bands Survey covering all ACTIVE broadcasting stations on 2300 - 5700 kHz, including clandestines. Part 2: Domestic stations on international shortwave bands above 5700 kHz broadcasting to a domestic audience. Part 3: Deleted frequencies between 2 and 30 MHz which have not been reported heard during the past five years, but may reappear.

The 2020 Madison-Milwaukee Get-together for DXers and Radio Enthusiasts 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](http://www.lakefarmcountywi.gov/4330-Libby-Road-Madison-WI-53711). Each year the get-together alternates venue between Madison and Milwaukee. This year it is Madison's turn to host the event. 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). Our 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). As of now we have not decided on a location, so keep tuned

for details. Dinner is followed by a night session of DX and camaraderie until 9:30 PM when we need to vacate the park or the nice officers will evict us. 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.

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

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. 

Musings

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

Please e-mail your Musings, preferably as MS Word attachments, to jalinebk@gmail.com or mail to Jerry Alice Lineback, 4422 Sierra Del Sol, Paradise, CA 95969-8116. Please note that the new deadline for contributions to the June issue is May 20, 2020.

We have been hiding out from the Virus. Ground Hog Day all over again. Everyone should have plenty of time to listen to their radios, if you can tear yourself away from your favorite news channel. Our lot is 100x100 feet, with a wood fence (recently rebuilt after the fire) on three sides so I will have about 250 feet of wire deployed on top of it. Blue skies in NorCal, no contrails. Thanks to our contributors and congratulations to Vince Henley.

73, Jerry Alice

Vincent E. Henley, Anacortes, WA, vincehenley@earthlink.net

Once again, I have been surprised by my friends and colleagues in NASWA by being awarded the 2020 William P. Eddings Award Member of the Year. It was a complete surprise and I would never have suspected it. My view of the NASWA membership and management is that I walk among giants in the SWL hobby and I am happy to be a member making what contributions I can. I've often thought, when listening up here in my Northwestern corner of the lower forty-eight states, what it would be like to hear clearly all those exotic stations that my colleagues report hearing. There are occasions when I think my Puget Sound island location is an enormous RF sinkhole when it should be a direct pipeline to Oceania and

Southeast Asia. Where do all the signals from those tropical stations go upon leaving the broadcast antenna? Clearly, they are not coming up here where my receiving antennas can tease out the electrical and magnetic impulses that carry intelligence, even if it is only music or convoluted talk in a strange language.

My listening post and ham shack are works in progress. I live in an antenna-restricted community where I have written permission to erect wire antennas and unobtrusive VHF / UHF antennas. My spouse also has an opinion about such things as antennas intruding on her garden space, even though she admits that she no longer notices the network of wires stung overhead where they serve as convenient perches for the songbirds we feed constantly. I have informed her that I need a new antenna, a long wire strung east west to give me an increased capability of capturing signals originating over the Pole from the north and from the tropical south. Since welding will be required, I've promised to create another rose arbor for her at the same time I weld the tilt-up base for one end of the wire. A convenient, and very tall, fir tree will serve as the anchor for the other end. I already have an antenna portal into my main shack and listening post. I'm still working on a mounting for one broadband VHF / UHF antenna and a Wellbrook HF loop and rotator. I think my summer will be busy if we are spared an infection from the current pandemic.

I always consider buying new radios as they become available and my wallet accommodates the cost, but I suspect that I really don't need any more radios right now. Currently I can cover from a few kilohertz to more than 3.5 GHz although I rarely listen above 500 MHz. The SDRs currently on hand can record wide swaths of frequencies for later analysis but my experience is that once recorded, I rarely go back to listen or analyze the recordings. I suspect that I'm more of a "real-time" person and prefer the signal of the moment rather than the one I recorded last week. Another reason to limit my radio acquisition is that I only have one set of ears. I've tried running the audio from one receiver into one ear and another receiver into the other ear, or to different speakers, but the result is audio chaos with absolutely no gain in listening pleasure or station identification ability. The only real use I've found for that technique is when verifying the same transmission on different frequencies, but it is rarely worth the setup effort.

I thank all those who keep NASWA running smoothly. Given the COVID-19 pandemic, I doubt we'll meet this summer, but I will endeavor to have a mini-DXpedition locally, preferably on a cliff overlooking salt water. I know of just the place.

73, Vince Henley

Eric Bueneman (NØUIH), 631 Coachway Lane, Hazelwood, MO 63042-1347

The Shelter-in-Place order for Saint Louis County, MO due to the COVID-19 pandemic went into effect at 0500 UTC on March 23, 2020; it is expected to stay in effect until at least April 23. So, I've been spending time DXing and checking in on the local Amateur Radio nets on VHF. I've managed to log several stations on the shortwave bands, even taking time to write reception reports for Radio Slovakia International via WRMI on 7780 kHz, Gander VOLMET on 6604 kHz USB and Shannon VOLMET on 5505 kHz USB.

The COVID-19 pandemic has, no doubt, delayed my 2020 DXpedition season. I had planned my first DXpedition of 2020 for Weldon Spring Conservation Area along the Katy Trail (a former railroad line) in Saint Charles County; inclement weather on February 29 forced me to cancel. I have not yet rescheduled the DXpedition. I still plan to do DXpeditions to Castlewood State Park near Ballwin, MO and Two Rivers National Wildlife Refuge near Brussels, IL; I may even consider Route 66 State Park near Eureka, MO. So, while many of us are sheltered in place, I'd like to give you an hour-by-hour synopsis of the shortwave logs on the most recent DXpedition to Babler State Park in Wildwood, MO on November 25, 2019. A Tecsun PL-600 receiver and a portable 30-foot longwire antenna were used. These logs did not make the Loggings column due to space and time constraints.

1900-2000 UTC: Radio Nacional da Amazônia ZYE365 (11780 kHz) Brasilia, Brazil noted with a good signal at 1930 UTC with a discussion and pop music in Portuguese. Voice of Nigeria via Abuja (11770 kHz) noted with a good to fair signal at 1935 UTC with a commentary in the Fulfulde language. BBC via Ascension Island (11660 kHz) noted with a good signal at 1938 UTC with news analysis in the Hausa language. Voice of America via São Tome (11900 kHz) noted with a good to fair signal at 1940 UTC with commentary in French. Voice of America via Mopeng Hill, Botswana (12075 kHz) noted with a good signal at 1943 UTC with a sports report in French.

2000-2100 UTC: China Radio International via Cerrik, Albania (5960 kHz) noted with a fair signal at 2004 UTC; news, a promo and commentary in English were heard. Radio Rebelde CMBA Bauta, Ciudad de la Habana, Cuba (5025 kHz) noted with a fair to poor signal with a commentary in Spanish. Radio Mali via Bamako (5995 kHz) noted with a fair to poor signal at 2030 UTC with a commentary in French. Radio Romania International via Galbeni (7375 kHz) noted at 2045 UTC with a good to fair signal with a commentary in Romanian.

2100-2200 UTC: All India Radio via Bengaluru (9445 kHz) noted at 2118 UTC with a good signal, hearing traditional Indian music, a brief commentary and ID in English. Time and frequency station PPE Rio de Janeiro, Brazil (10000 kHz) noted at 2150 UTC with a fair signal; time signals and announcements in Portuguese were noted under WWV. Time and frequency station CHU Ottawa, ON, Canada (3330 kHz) noted at 2153 UTC with a good to fair signal; a "CHU Canada" ID was heard in French, UTC time checks in French and English, time signals, "CHU Canada" ID heard in English at 2154.

2200-2230 UTC: CNR2 Business Radio via Xianyang, China (9820 kHz) noted with a fair signal at 2202 UTC; station promos and a commentary in Chinese were heard. Radio Havana Cuba via La Habana (5040 kHz) was noted with a fair signal at 2208 UTC; a commentary in Spanish was heard. Radio Clube do Pará ZYG362 Belém, Brazil (4885 kHz) noted with a poor signal at 2209 UTC; a commentary in Portuguese was heard. University Network via WWCR Nashville, TN (13845 kHz) was noted with a fair to poor signal at 2226 UTC; a tape of a previous sermon by the late Dr. Gene Scott was heard. Saudi Radio International via Riyadh, Saudi Arabia (9555 kHz) was noted with a fair signal at 2228 UTC; an ID and station promos were heard; the signal was beamed to North Africa. The same station was noted from the same site on 9870 kHz (beamed to Europe) with a fair to poor signal at 2229 UTC with station promos and a brief commentary in Arabic.



Publisher's Corner

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

Consider sending over your phone number when you renew

I'll admit, it's easier for me to interact with folks who have e-mail, when it comes to issues with their memberships, because we can go back & forth in near-real time and get any questions settled. Doing this via postal mail takes more time, along with 55 cents each way for a letter.

I don't know about you, but with both my landline and cellphone setups, calls to anywhere in North America don't cost a thing. That's both good and bad, because it's easy to fall victim to telemarketers even if you are registered with Federal and state do-not-call registries.

If you have any questions on your membership you can call me on 610-706-4593. I will generally let those calls roll to voice mail, where you can then leave me a message. I have that number configured so I can't hear it ring unless I am sitting at my desk at home. If you do call, please provide a return phone number so I can call you back. Conversely, when you send in your renewal check (or do so via PayPal), let me know what your phone number is and I'll add it to the membership list. I will not disclose your phone number to anyone without your prior authorization.

Warmer weather means projects!

As the weather warms it becomes easier to head outside and tweak antenna setups or do other work around the house that improves your listening environment. Let us know when you embark on projects -- and how they (hopefully) improve your listening! Those would be great items for the Musings column, as they might motivate others to get outside and get stuff done. We've had increased luck printing photos and images in the Journal of late, so include a photo of your project if you'd like. If you have documented improvements in signal, or (even better) in signal / noise ratio, your work could also be valuable for the Shortwave Center column as an article.

COVID-19 and broadcaster schedule changes

Broadcasters like All India Radio's General Overseas Service, RAE, and Radio Tirana have (sadly) curtailed broadcasting in the pandemic, so do check Listeners' Notebook for any changes in schedules. If you know or hear of schedule changes, pass those along to Rich D'Angelo, who compiles Listeners' Notebook each month. Also, join the NASWA e-groups, flashsheet, and Facebook group for more timely updates to broadcaster activity than we can handle using printed media such as the Journal. Information on the process for each of those appears in "info-boxes" scattered throughout the Journal.


How have your listening habits changed, if at all, by COVID-19? Are you listening at different times of day? Listening to a different mix of broadcasts? Take a couple of minutes and craft a Musing about anything you've discovered -- or ways your listening has changed -- and send it over to Jerry Alice Lineback.


A reminder -- e-journal available to all members


So far, the US Postal Service has maintained regular routines and hours, and there have been no unusual delays in producing and distributing the Journal each month. You

can, however, get your hands on the Journal each month a bit early by signing up for the e-Journal. Even if you receive the paper journal we can go ahead and add you to the distribution list for the e-Journal. We get that formatted generally a couple days after getting the print-formatted Journal to the printer. So at least you're a bit ahead of the postal process. Interested? Drop me an e-mail.

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

Richard Cuff / Publisher – Business Manager


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

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

Listening Review

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

Hello and welcome to Listening Review for May.

I'll start this month with some interesting program news from Bil Tilford, producer of **From the Isle of Music** and **Uncle Bill's Melting Pot**. Hopefully you'll receive this issue of The Journal in time for this.

"Radio has been a beacon of hope and a way to spread good feelings in bad times for over a century. In that spirit, WBCQ The Planet will present **WBCQ's Big Broadcast of 2020** as a special simulcast on 5130 and 7490 kHz on Tuesday, May 5 from 2100-2200 UTC (5pm-6pm EDT in the US). This special broadcast will feature the presenters and music of some of WBCQ's most innovative music offerings including *Marion's Attic*,

Uncle Bill's Melting Pot, *From the Isle of Music*, *Behavior Night* and the *Lost Discs Radio Show*. This is a chance to escape that COVID-19 gloom for an hour and maybe discover a new favorite program in the bargain."

Here is my updated list of music programs on Shortwave in English language for the A-20 period. I'll have a list of selected programs in non-English languages in the June issue, and will be posting a consolidated listing to the Facebook page and to the NASWA IO group for you to download in May.

Transmitter abbreviations are as used in WRTH. All times/days are UTC. ‡ Indicates program replaced or disrupted at time of publication due to effects of Covid-19.

Time slot	Days	Station	Program(s)	Frequency/site
0000-0100	su	Mighty KBC	Radio, But Not As We Know It	9925-nau (- 30 Aug) 5960-nau(6 Sept -)
0000-0100	su	WBCQ	Grits Radio	5130-bcq
0000-0100	mo	WBCQ	R New York Int	5130-bcq (every other week)
0000-0100	tu	WBCQ	From the Isle of Music (Cuban)	7490-bcq
0000-0100	mo	WRMI	Countdown2.Christmas R	5950-rmi 9395-rmi
0000-0100	we	WRMI	Jazz From the Left	5950-rmi 7730-rmi 9395-rmi
0000-0100	fr	WRMI	VORW R Int	5950-rmi 9395-rmi
0012-0100	sa	R New Zealand Int	Music 101 with Charlotte Ryan	13840
0015-0025	su	V of Vietnam	Weekend Music	7315-hri
0030-0040	su	R Romania Int	All That Jazz	6040 7375
0030-0040	mo	R Romania Int	Music Time	6040 7375
0030-0040	tu	R Romania Int	Your Music	6040 7375
0030-0040	w,sa	R Romania Int	Truly Romanian (Trad/folk mx)	6040 7375
0030-0040	th,fr	R Romania Int	Music Highlights (Classical)	6040 7375
0030-0100	su	WRMI	Hobart R Int (DX px inc mx)	7730-rmi
0030-0100	th,sa	WRMI	Oldies (Bob Biermann)	5950-rmi 9395-rmi
0030-0100v	su	WTWW	Bob Heil's Organ Music	5085 (irreg & may start late)
0045-0057	mo	R Slovakia Int	L/Tribune (inc Music Xroads)	5850-rmi 7780-rmi
0100-0200	su	Mighty KBC	The Giant Jukebox	9925-nau (- 30 Aug) 5960-nau(6 Sept -)
0100-0200	sa	R New Zealand Int	Music 101 with Charlotte Ryan	13840
0100-0200	su	WBCQ	The Lumpy Gravy Radio Show	5130-bcq
0100-0200	mo	WBCQ	R New York Int	5130-bcq (every other week)
0100-0200	su	WRMI	Encore Classical Music	5010-rmi 5850-rmi
0100-0200	daily	WRMI	Oldies (Bob Biermann)	9395-rmi (tu-sa: 0130-)
0100-0130	mo	WRMI	Blues Radio International	9955-rmi

Time slot	Days	Station	Program(s)	Frequency/site
0100-0130	th	WRMI	Hobart R Int (<i>DX px inc mx</i>)	9955-rmi
0100-0200	fr	WRMI	VORW R Int	5950-rmi 7780-rmi 9395-rmi
0100-0200	daily	WTWW	Greatest Hits of all Time	5085
0100-0130	su	WWCR	Martha Garvin: Mx Memories	3215-wcr
0115-0130	tu-sa	RAE Argentina	Often incl music features, incl. History of Argentine Rock (<i>we</i>)	9395-rmi
0130-0200	mo	R Prague	Sunday Music Show	5800-rmi 9395-rmi
0130-0200	fr	WRMI	Blues Radio International	9955-rmi
0135-0157	mo	R Havana Cuba	From Havana (<i>2-weekly</i>)	6000 6145
0140-0157	su	R Havana Cuba	Music with Message/Jazz Place	6000 6145
0200-0300	su	KBS World R	Saturday Playlist	9580
0200-0300	mo	KBS World R	Sunday Selection	9580
0200-0300	sa	R New Zealand Int	Music 101 with Charlotte Ryan	13840
0200-0300	mo	WBCQ	R New York Int	5130-bcq (<i>every other week</i>)
0200-0300	fr-m	WRMI	VORW R Int	5850-rmi
0200-0300	mo	WRMI	Encore Classical Music	9455-rmi
0200-0300	tu-fr	WRMI	Oldies (<i>Bob Biermann</i>)	5950-rmi
0200-0300	th	WRMI	This is a Music Show	5850-rmi
0200-0300	daily	WTWW	Greatest Hits of all Time	5085
0235-0257	mo	R Havana Cuba	From Havana (<i>2-weekly</i>)	6000 6145
0240-0257	su	R Havana Cuba	Music with Message/Jazz Place	6000 6145
0300-0330	mo	R Prague	Sunday Music Show	9395-rmi 9955-rmi
0300-0400	su	WBCQ	Lost Discs Radio Show	5130-bcq (<i>occasional</i>)
0300-0400	m-sa	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi
0300-0400	daily	WTWW	Greatest Hits of all Time	5085
0330-0340	su	R Romania Int	All That Jazz	7375 9740(<i>drm</i>) 9850 11825
0330-0340	mo	R Romania Int	Music Time	7375 9740(<i>drm</i>) 9850 11825
0330-0340	tu	R Romania Int	Your Music	7375 9740(<i>drm</i>) 9850 11825
0330-0340	w,sa	R Romania Int	Truly Romanian (<i>Trad/folk mx</i>)	7375 9740(<i>drm</i>) 9850 11825
0330-0340	th,fr	R Romania Int	Music Highlights (<i>Classical</i>)	7375 9740(<i>drm</i>) 9850 11825
0330-0350	daily	V of Turkey	Music selection (<i>varying time</i>)	6165 7275
0330-0400	mo	WBCQ	Hobart R Int (<i>DX px inc mx</i>)	5130-bcq
0330-0400	su	WRMI	Hobart R Int (<i>DX px inc mx</i>)	9955-rmi
0330-0400	we	WRMI	Blues Radio International	9955-rmi
0335-0357	mo	R Havana Cuba	From Havana (<i>2-weekly</i>)	6000 6145
0335-0400	sa	R New Zealand Int	Music 101 with Charlotte Ryan	13840
0335-0359	mo	R Taiwan Int	Jukebox Republic	15320
0335-0359	we	R Taiwan Int	Jade Bells and Bamboo Pipes	15320
0340-0357	su	R Havana Cuba	Music with Message/Jazz Place	6145
0345-0357	mo	R Slovakia Int	L/Tribune (<i>inc Music Xroads</i>)	9395-rmi
0400-0500	sa	R New Zealand Int	Music 101 with Charlotte Ryan	13840
0400-0430	mo	V of Hope-Africa	Music in the Morning	9680 11680
0400-0500	sa	V of Hope-Africa	Scott Martin: Song in the Night	9680 11680
0400-0500	daily	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi
0400-0500	daily	WTWW	Greatest Hits of all Time	5085
0435-0457	mo	R Havana Cuba	From Havana (<i>2-weekly</i>)	6000 6060 6100 6145
0440-0457	su	R Havana Cuba	Music with Message/Jazz Place	6000 6060 6100 6145
0500-0600	daily	R Kuwait	Mix of talk and western mx	11970(<i>drm</i>) 15530
0500-0545	m-fr	V of Hope-Africa	Joyce Mwanza: Mx in Morning	9680 11680
0500-0600	m-sa	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi
0500-0600	su,mo	WWCR	World Wide Country Radio	4840-wcr

Time slot	Days	Station	Program(s)	Frequency/site
0510-0530	su	NHK R Japan	Friends: Letters and Songs	5975-mos 7245-smg 11970-iss
0510-0530	sa	NHK R Japan	Japan Hit Tunes (3rd sat)	5975-mos 7245-smg 11970-iss
			Musician Portraits (4th sat)	5975-mos 7245-smg 11970-iss
0535-0557	mo	R Havana Cuba	From Havana (2-weekly)	5040 6000 6060 6100 6145
0540-0557	su	R Havana Cuba	Music with Message/Jazz Place	5040 6000 6060 6100 6145
0600-0700	su	Channel 292	R Waves Int	6070-roh 7440-roh
0600-0700	daily	R Kuwait	Mix of talk and western mx	11970(drm) 15530
0600-0700	daily	Radio 4KZ	Varied oldies/hits	5055
0600-0645	m-fr	V of Hope-Africa	Joyce Mwanza: Mx in Morning	9680 11680
0600-0630	su,tu-f	WRMI	Oldies (Bob Biermann)	9395-rmi
0600-0700	sa	WWCR	World Wide Country Radio	4840-wcr
0605-0700	sa,su	V of America	The Hits (VOA1)	6080-sao 15580-bot
0635-0657	mo	R Havana Cuba	From Havana (2-weekly)	6000 6145
0640-0657	su	R Havana Cuba	Music with Message/Jazz Place	6000 6145
0700-0800	su	Channel 292	SuperClan R	6070-roh 7440-roh
0700-0800	sa	Channel 292	R Waves Int	6070-roh
0700-0800	su	China Tibet R	Holy Tibet: Music Shangri La	4905 4920 6025 6110 6130 6200 9490 9580
0700-0800	daily	R Kuwait	Mix of talk and western mx	11970(drm) 15530
0700-0800	su	R Mi Amigo Int	Good Morning Europe	6085-kll
0700-0800	fr	R Mi Amigo Int	Mi Amigo Musical Memories	6085-kll
0700-0800	daily	Radio 4KZ	Varied oldies/hits	5055
0700-0800	m-fr	V of Hope-Africa	Joyce Mwanza: Mx in Morning	9680 11680 (mo+fr:- 0730, tu:-0745)
0700-0730	sa	V of Hope-Africa	Music in the Morning	9680 11680
0700-0800	daily	WRMI	Oldies (Bob Biermann)	9395-rmi
0708-0800	sa	R New Zealand Int	Saturday Night w\ Phil O'Brien	5945
0730-0745	su	V of Hope-Africa	Music in the Morning	9680 11680
0800-0900	su	Channel 292	Encore Classical Music	7440-roh
0800-0900	sa	Channel 292	4th sat: R City	6070-roh
0800-0900	sa	IRRS	Radio City	9510-tig
0800-0900	su	R Mi Amigo Int	Paul Graham: MiAmigoLounge	6085-kll
0800-0900	fr	R Mi Amigo Int	Mi Amigo Musical Memories	6085-kll
0800-0900	sa	R New Zealand Int	Saturday Night w\ Phil O'Brien	5945
0800-0900	daily	Radio 4KZ	Varied oldies/hits	5055
0800-0900	sa-m	Unique R	Sounds of Your Life	5045 (alt 3210)
0800-0830	fr	Unique R	Music	5045 (alt 3210)
0800-0830	m-fr	V of Hope-Africa	Lombe Machilika: Mx in Morn	9680 11680
0800-0900	su-fr	WRMI	Oldies (Bob Biermann)	9395-rmi
0806-0900	su	R New Zealand Int	Sunday Night w\ Grant Walker	5945
0810-0900	su	KBS World R	Sunday Selection	9770 (may include mx feature)
0810-0900	m-fr	KBS World R	Lena Park: One Fine Day	9770 (Hour 1)
0810-0900	sa	KBS World R	Saturday Playlist (Hour 1)	9770
0830-0900	su	WRMI	Hobart R Int (DX px inc mx)	5850-rmi 5950-rmi 7730-rmi
0900-1000	th	Channel 292	Alt Universe Top 40	6070-roh
0900-1000	sa	Channel 292	3rd sat: Texas R Shortwave	6070-roh
0900-1000	su	KBS World R	Sunday Selection	9770 (may include mx feature)
0900-1000	m-fr	KBS World R	Lena Park: One Fine Day	9770 (Hr 1-2)
0900-1000	sa	KBS World R	Saturday Playlist (Hour 1-2)	9770
0900-1000	su	R Mi Amigo Int	Johnny Lewis: Radio Diaries	6085-kll

Time slot	Days	Station	Program(s)	Frequency/site
0900-1000	fr	R Mi Amigo Int	Paul Graham: Soundtrack 60s	6085-kll
0900-1000	su	R New Zealand Int	Sunday Night w\ Grant Walker	5945
0900-1000	m-fr	R New Zealand Int	Lately (<i>mx, chat w\ Karyn Hay</i>)	5945
0900-1000	sa	R New Zealand Int	Saturday Night w\ Phil O'Brien	5945
0900-1000	daily	Radio 4KZ	Varied oldies/hits	5055
0900-0945	m-fr	V of Hope-Africa	Lombe Machilika: Mx in Morn	9680 11680
0900-0930	su	V of Mongolia	Sunday Music Programme	12085
0900-1000	daily	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi
0930-1000	sa,su	Unique R	Back to Back	5045 (<i>alt 3210</i>)
0930-1000	fr	Unique R	Hobart R Int (<i>DX px incl mx</i>)	5045 (<i>alt 3210</i>)
1000-1100	su	Channel 292	Valley FM	7440-roh
1000-1100	su	Channel 292	1st/3rd sun: Korches R	6070-roh
1000-1100	sa	Channel 292	Encore Classical Music	6070-roh
1000-1010	su	KBS World R	Sunday Selection	9770 (<i>may include mx feature</i>)
1000-1010	m-fr	KBS World R	Lena Park: One Fine Day	9770 (<i>Hour 2</i>)
1000-1010	sa	KBS World R	Saturday Playlist (<i>Hour 2</i>)	9770
1000-1100	su	R Mi Amigo Int	Paul Newman: Radio Shack	6085-kll 7310-kll
1000-1100	daily	Radio 4KZ	Varied oldies/hits	5055
1000-1030	sa,su	Unique R	Back to Back	5045 (<i>alt 3210</i>)
1000-1100	fr	Unique R	This is a Music Show	5045 (<i>alt 3210</i>)
1000-1100	su	V of Hope-Africa	Pat Conrad: Swing Shift	9680 11680
1000-1100	m-fr	V of Hope-Africa	Lombe Machilika: Mx in Morn	9680 11680
1000-1100	sa	V of Hope-Africa	Pat Conrad: Jazz Session	9680 11680
1000-1100	daily	WRMI	Oldies (<i>Bob Biermann</i>)	5950-rmi
1000-1030	th	WRMI	Blues Radio International	5950-rmi
1000-1100	th	WRMI	VORW R Int	5950-rmi
1010-1030	su,w,fr	KBS World R	Sounds of Korea	9770
1015-1025	sa	V of Vietnam	Weekend Music	9840 12020
1030-1100	sa-m	Unique R	Hobart R Int (<i>DX px inc mx</i>)	5045 (<i>alt 3210</i>)
1100-1200	su	Channel 292	Free R Skybird (most suns)	6070-roh
1100-1200	sa	Channel 292	Alt Universe Top 40	6070-roh 7440-roh
1100-1200	su,fr	Unique R	Back to Back	5045 (<i>alt 3210</i>)
1100-1200	sa	Unique R	Sounds of Your Life	5045 (<i>alt 3210</i>)
1100-1200	su-fr	WRMI	Oldies (Bob Biermann)	5950-rmi
1106-1200	sa	BBC WS - Asia	Music Life	6195-sng 9410-sng 11945-sng
1110-1130	su	NHK R Japan	Friends: Letters and Songs	11695-sng
1110-1130	sa	NHK R Japan	Japan Hit Tunes (3rd sat) Musician Portraits (4th sat)	11695-sng
1115-1125	mo	R Slovakia Int	L/Tribune (inc Music Xroads)	6005-kll
1130-1200	su	IRRS	16 Gwendoline Street	9510-tig
1130-1140	su	R Romania Int	All That Jazz	13750 15130 15320 17670
1130-1140	mo	R Romania Int	Music Time	13750 15130 15320 17670
1130-1140	tu	R Romania Int	Your Music	13750 15130 15320 17670
1130-1140	w,sa	R Romania Int	Truly Romanian (Trad/folk mx)	13750 15130 15320 17670
1130-1140	th,fr	R Romania Int	Music Highlights (Classical)	13750 15130 15320 17670
1145-1155	sa	V of Vietnam	Weekend Music	9840 12020
1200-1300	su	Channel 292	1st sun: Grooveline Series 4th sun: Jake FM	6070-roh
1200-1300	sa	Channel 292	From The Isle of Music (<i>Cuban</i>)	6070-roh
1200-1300	mo	R Mi Amigo Int	Bruno Hantson: Soul Box	6085-kll
1200-1300	tu	R Mi Amigo Int	Johnny Lewis: Hello Europe!	6085-kll

Time slot	Days	Station	Program(s)	Frequency/site
1200-1300	we	R Mi Amigo Int	Paul Graham: Soundtrack 60s	6085-kll
1200-1300	fr	R Mi Amigo Int	Paul Graham: Weekend Starts	6085-kll
1200-1300	sa	R Mi Amigo Int	Paul Newman: Radio Shack	6085-kll 7310-kll
1200-1230	mo	R Prague	Sunday Music Show	9955-rmi
1200-1300	fr	Unique R	Sounds of Your Life	5045 (alt 3210)
1200-1300	sa	Unique R	Back to Back	5045 (alt 3210)
1200-1300	daily	WRMI	Oldies (Bob Biermann)	5950-rmi
1242-1257	mo	R Tirana	Folk Traditional Music	6005-kll
1242-1257	tu-sa	R Tirana	Music or Hits Through Years	6005-kll
1245-1255	sa	V of Vietnam	Weekend Music	9840 12020
1300-1400	su	Channel 292	4th sun: Jake FM	6070-roh
1300-1400	su	KBS World R	Sunday Selection	9570 15575
1300-1400	sa	KBS World R	Saturday Playlist	9570 15575 (may include mx feature)
1300-1400	fr	R Mi Amigo Int	Johnny Lewis: Radio Diaries	6085-kll
1300-1400	sa	R Mi Amigo Int	Paul Graham: Soundtrack 60s	6085-kll 7310-kll
1300-1320	daily	V of Turkey	Music selection (varying time)	15450
1300-1400	m-sa	WRMI	Oldies (Bob Biermann)	5950-rmi
1300-1400	tu	WRMI	Encore Classical Music	15770-rmi
1300-1400	th	WRMI	VORW R Int	15770-rmi
1345-1355	sa	V of Vietnam	Weekend Music	9840 12020
1400-1500	su	KBS World R	Sunday Selection	9630 (may include mx feature)
1400-1500	sa	KBS World R	Saturday Playlist (Hour 1)	9630
1400-1500	fr	R Mi Amigo Int	Rosko: LA Connection (hr 1)	6085-kll
1400-1500	sa	R Mi Amigo Int	Rosko: LA Connection (hr 1)	6085-kll
1405-1500	daily	V of America	VOA1 - The Hits	4930-bot 5930-bot 15580-bot
1410-1500	m-fr	KBS World R	K-POP Connection (Hour 1)	9630
1410-1430	su	NHK R Japan	FAW: Letters and Songs	9450-tac 11830-dha
1410-1430	sa	NHK R Japan	Japan Hit Tunes (3rd sat)	9450-tac 11830-dha
				Musician Portraits (4th sat)
1410-1500	daily	R Sultanate Oman	Usually Western/English pops	15140 (irreg)
1445-1455	su	R Slovakia Int	L/Tribune (inc Music Xroads)	6005-kll
1500-1600	su	KBS World R	Sunday Selection (Hour 1)	9515 (may include mx feature)
1500-1600	su	KBS World R	Sunday Selection	9630 (may include mx feature)
1500-1510	m-fr	KBS World R	K-POP Connection (Hour 1-2)	9630
1500-1600	sa	KBS World R	Saturday Playlist (Hour 1)	9515
1500-1600	sa	KBS World R	Saturday Playlist	9630
1500-1600	fr	R Mi Amigo Int	Rosko: LA Connection (hr 2)	6085-kll
1500-1600	sa	R Mi Amigo Int	Rosko: LA Connection (hr 2)	6085-kll
1500-1600	su	SpaceLine	From the Isle of Music (Cuban)	9400-sof
1500-1600	su	WWCR	Nashville Cowboy Church	12160-wcr
1505-1600	sa,su	V of America	Music Time in Africa	4930-bot 5930-bot 15580-bot 17530-bot
1505-1600	m-fr	V of America	Border Crossings	4930-bot 5930-bot 15580-bot 17530-bot
1510-1600	m-fr	KBS World R	K-POP Connection	9515
1515-1525	sa	V of Vietnam	Weekend Music	9840 12020
1530-1600	su	V of Mongolia	Sunday Music Programme	12015
1545-1555	su	R Slovakia Int	L/Tribune (inc Music Xroads)	6005-kll
1600-1700	su	China Tibet R	Holy Tibet: Music Shangri La	4905 4920 6025 6110 6130 6200 7255 7385
1600-1700	su	KBS World R	Sunday Selection	9640 (may include mx feature)

Time slot	Days	Station	Program(s)	Frequency/site
1600-1700	su	KBS World R	Sunday Selection (<i>Hour 1</i>)	9515 (<i>may include mx feature</i>)
1600-1610	m-fr	KBS World R	K-POP Connection	9515
1600-1700	sa	KBS World R	Saturday Playlist (<i>Hour 2</i>)	9640
1600-1700	sa	KBS World R	Saturday Playlist (<i>Hour 2</i>)	9515
1600-1700	fr,sa	R Mi Amigo Int	Bruno Hantson: Soul Box	6085-kll
1600-1700	su	Unique R	Jen in the Rad (<i>hour 1</i>)	3210
1600-1700	sa	VofHope-KVOH	Pat Conrad: Jazz Session	17775
1615-1625	sa	V of Vietnam	Weekend Music	7220 7280 9730
1630-1650	sa,su	V of America	Nightline Africa - Mx from Af	4930-bot 5930-sao 15580-bot
1630-1700	sa	WWCR	Martha Garvin: Mx Memories	12160-wcr
1635-1659	su	R Taiwan Int	Jukebox Republic	9405
1635-1659	tu	R Taiwan Int	Jade Bells and Bamboo Pipes	9405
1700-1800	su	Channel 292	Crusader R (Christian mx)	6070-roh
1700-1800	su	Unique R	Jen in the Rad (<i>hour 2</i>)	3210
1700-1800	sa	VofHope-KVOH	Scott Martin: Song in the Night	17775
1700-1720	daily	V of Turkey	Music selection (<i>varying time</i>)	15520
1700-1730	sa	WWCR	Talking Machine Show	12160-wcr
1705-1800	su	R New Zealand Int	Hymns on Sunday	6115(drm)(-1735) 7285(drm)(1736-)
1730-1740	su	R Romania Int	Music Time	9760(drm) 11850
1730-1740	mo	R Romania Int	Your Music	9760(drm) 11850
1730-1740	tu,fr	R Romania Int	Truly Romanian (Trad/folk mx)	9760(drm) 11850
1730-1740	we,th	R Romania Int	Music Highlights (Classical)	9760(drm) 11850
1730-1740	sa	R Romania Int	All That Jazz	9760(drm) 11850
1800-1900	fr	IRRS	Radio City (3rd Fri)	7290-tig (<i>or irreg: 2nd/4thfri</i>)
1800-1900	tu	Channel 292	R Ohne Namen: Here We Go	6070-roh
1800-1900	daily	R Kuwait	Mix of talk and western mx	15540(drm)
1800-1830	su	WWCR	Martha Garvin: Mx Memories	12160-wcr
1825-1900	daily	Bangladesh Betar	Local & western mx	4750 (<i>alt:13580</i>)
1830-1900	sa	IRRS	16 Gwendoline Street	7290-tig
1830-1850	sa,su	V of America	Nightline Africa-MusicFromAf	4930-bot 6080-bot 15580-bot
1900-2000	tu	Channel 292	From The Isle of Music (<i>Cuban</i>)	6070-roh
1900-2000	fr	Channel 292	Encore Classical Music	6070-roh
1900-2000	daily	R Kuwait	Mix of talk and western mx	15540(drm)
1900-1920	daily	V of Turkey	Music selection (<i>varying time</i>)	5945
1900-2000	m-fr	WRMI	APS Radio (<i>Oldies</i>)	9455-rmi
1905-1930	sa,su	V of America	The Hits (<i>VOA1</i>)	4930-bot 6080-bot 15580-bot
1906-2000	su	BBC WS-Africa	Music Life	6155-sao 6195-dha 7265-mdc 7445-mdc 11810-wof 12095-asc
1915-1927	su	R Slovakia Int	L/Tribune (<i>inc Music Xroads</i>)	3985-kll
1915-1925	sa	V of Vietnam	Weekend Music	7280 9730
1932-2000	sa	BBC WS-Africa	This is Africa (<i>pan-African mx</i>)	6155-sao 6195-dha 7265-mdc 7445-mdc 11810-wof 12095-asc
1935-1957	su	R Havana Cuba	From Havana (<i>2-weekly</i>)	15140
1940-1957	sa	R Havana Cuba	Music with Message/Jazz Place	15140
2000-2100	tu	Channel 292	Uncle Bill's Melting Pot	6070-roh
2000-2100	daily	R Kuwait	Mix of talk and western mx	15540(drm)
2000-2100	sa,su	V of America	Music Time in Africa	4930-bot 4960-sao(2030-) 6195-bot 15580-bot

Time slot	Days	Station	Program(s)	Frequency/site
2000-2100	m-f	V of America	African Beat	4930-bot 6195-bot 15580-bot
2000-2100	m-f	WRMI	APS Radio (<i>Oldies</i>)	9455-rmi
2000-2100	m-sa	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi
2000-2100	th	WRMI	VORW R Int	7780-rmi
2000-2100	th	WRMI	Encore Classical Music	15770-rmi
2042-2057	m-th	R Tirana	Music or Hits Through Years	15770-rmi
2045-2055	sa	V of Vietnam	Weekend Music	7220
2100-2120	daily	V of Turkey	Music selection (<i>varying time</i>)	9875
2100-2200	su	WBCQ	Marion's Attic	7490-bcq
2100-2200	fr	WBCQ	Behaviour Night	7490-bcq
2100-2200	su,th	WRMI	VORW R Int	7780-rmi 9955-rmi
2100-2130	sa-su	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi
2105-2200	su	V of America	Country Hits USA (<i>VOA1</i>)	6195-bot 15580-bot
2105-2200	mo	V of America	The Soul Lounge (<i>VOA1</i>)	6195-bot 15580-bot
2105-2200	tu,w,sa	V of America	The Hits (<i>VOA1</i>)	6195-bot 15580-bot
2105-2200	th	V of America	Top 20 countdown (<i>VOA1</i>)	6195-bot 15580-bot
2105-2200	fr	V of America	Music Time in Africa	6195-bot 15580-bot
2130-2200	we	WBCQ	Goddess Irena 1 Music Show	7490-bcq
2130-2200	th	WWCR	Talking Machine Show	9350-wcr
2145-2155	sa	V of Vietnam	Weekend Music	7280 9730
2200-2300	su	KBS World R	Sunday Selection	11810 (<i>may include mx feature</i>)
2200-2300	sa	KBS World R	Saturday Playlist	11810
2200-2230	m,w,f	R Exterior Espana	‡ Incl frequent music features	9690 11670 11940 12030
2200-2300	su	WBCQ	Uncle Bill's Melting Pot	7490-bcq
2200-2300	daily	WRMI	APS Radio (<i>Oldies</i>)	7780-rmi
2200-2300	su,w,sa	VORW R Int WRMI		7780-rmi(<i>su</i>) 9395- rmi(<i>sa</i>) 9955-rmi-(<i>th</i>)
2200-2300	m-fr	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi
2200-2300	sa	WWCR	Voice of Report of the Week	6115-wcr
2230-2240	su	R Romania Int	Music Time	5945 7310 7325 9790
2230-2240	mo	R Romania Int	Your Music	5945 7310 7325 9790
2230-2240	tu,fr	R Romania Int	Truly Romanian (<i>Trad/folk mx</i>)	5945 7310 7325 9790
2230-2240	w,th	R Romania Int	Music Highlights (<i>Classical</i>)	5945 7310 7325 9790
2230-2240	sa	R Romania Int	All That Jazz	5945 7310 7325 9790
2230-2250	daily	V of Turkey	Music selection (<i>varying time</i>)	9830
2300-2400	sa,su	WBCQ	Radio Timtron Worldwide	5130-bcq
2300-2400	daily	WRMI	Oldies (<i>Bob Biermann</i>)	9395-rmi (<i>mo,tu,we,fr:</i> <i>-2330</i>)
2300-2315	sa	WRMI	Mike's Gospel music	9955-rmi
2300-2400	mo	WWCR	World Wide Country Radio	9350-wcr
2300-2400	fr	WWCR	Last Radio Playing (<i>Blues</i>)	9350-wcr
2330-2400	sa	WRMI	Hobart R Int (<i>DX px inc mx</i>)	7780-rmi
2335-2357	su	R Havana Cuba	From Havana (<i>2-weekly</i>)	5040 11880
2340-2357	sa	R Havana Cuba	Music with Message/Jazz Place	5040 11880
2345-2355	sa	V of Vietnam	Weekend Music	9840 12020

Until next time, 73's Alan



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!



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Trump's war of words against VOA

As of the mid-April deadline for this issue, the big story in international broadcasting is the war of words by the White House against the Voice of America. This has widely been described as a bizarre and unprecedented attack by the White House against one of its own agencies.

It started on April 6, when White House social media director Dan Scavino Jr. retweeted an AP video at voanews.com showing the light dhow in Wuhan, China, marking the end of its 76-day coronavirus lockdown. Scavino added this comment: "American taxpayers—paying for China's very own propaganda, via the U.S. Government funded Voice of America! DISGRACE!!"

There was pushback from VOA director Amanda Bennett and other VOA supporters. And I - @kaedotcom - had to get involved with a reply (and I rarely reply to tweets): "If VOA reports only negative news about US adversaries, VOA becomes propaganda. The audience for international broadcasting tunes in for an *antidote* to propaganda. Ergo, international broadcasters that resort to propaganda tend not to have much of an audience."

The Scavino tweet was just the warm-up. On April 10, an "extraordinary attack" against VOA appeared in an unsigned broadside in 1600 Daily, an online newsletter issued by the White House. "VOA too often speaks for America's adversaries—not its citizens. ... The Coronavirus story is just one example of this pattern. Last year, VOA helped highlight

the Twitter feed of Iran Foreign Minister Javad Zarif while he was issuing threats against the U.S. and sharing Russian anti-U.S. propaganda videos." (bit.ly/2KcncIW)

Politico reported: "A White House official defended its criticism, disputing VOA's claim of a 'firewall' guarding its objectivity and pointing to its statutory charge to, among other things, 'be consistent with the broad foreign policy objectives of the United States.' 'They're going to come back and talk about the times that they did call out Chinese propaganda,' said the White House official. 'But VOA is taxpayer funded and should never be promoting adversary messages. Sometimes calling out those adversaries doesn't give you top cover to abandon the rest of your mission.'" (politi.co/2VzvJei) This provides an unsettling picture of what VOA will be like when Trump's appointee takes over the US Agency for Global Media (USAGM), VOA's parent bureaucracy.

VOA "disgusting towards our country"

The third act in the White House onslaught occurred when President Trump himself mentioned VOA during his coronavirus press briefing on April 15. "What things they say is disgusting toward our country." At that event, it became apparent that the anti-VOA campaign was precipitated, at least in part, by Trump's frustration that he cannot get his nominees approved by the US Senate. This would include documentarian Michael Pack, nominated to be the CEO of USAGM, who would then be able to hire the directors and

presidents of all the USAGM entities, including VOA. At the briefing, Trump even floated the idea of adjourning Congress, a never-before-used Constitutional power provided to a president. NBC's Chuck Todd asked if the commander-in-chief is "trying to create a constitutional crisis over Voice of America." (bit.ly/3ad2TFL)

Good coverage of the situation as of mid-April is provided by Mediaite (bit.ly/2KcpRSW): "VOA ... pointedly debunked the White House's complaints regarding the outlet's coronavirus coverage — noting, for example, that the administration accused them of using 'Communist government statistics to compare China's coronavirus death toll to America's,' when in fact they cited the Johns Hopkins University statistics that every media outlet is using. But they also included a particularly choice quote from The New York Times, which called the administration's complaints about VOA 'a bizarre broadside,' and noted that 'the charges hurled at the 75-year-old broadcaster seemed so overheated that some readers worried that hackers had infiltrated the White House's networks.'"

See also VOA's own report on April 15 by senior White House Correspondent Steve Herman at bit.ly/2yhul85. If you are on Twitter, follow Steve @W7VOA (his amateur radio call) for his coverage of the White House and other major stories, and about whatever develops with Trump versus VOA. He might even use his Twitter account to report his reassignment after new management is installed at VOA.

Why VOA English?

Another twist in the Trump-versus-VOA story came with recent posts by Matthew Armstrong, a former member of the Broadcasting Board of Governors,

predecessor to USAGM. I am not sure if he was a Republican or Democratic member of the bipartisan BBG, but his @mountainrunner Twitter account is definitely anti-Trump.

At Matt's mountainrunner.us website, however, he turns his attention not to the conduct of the White House but to that of VOA. "Was VOA's English-language tweet and article on Wuhan's light show relevant to its mission? ... [W]hy was VOA tweeting and posting in English if it is not a news service for Americans and is not to compete with US media, which is abundantly available in the US?" (bit.ly/2wQJJbi)

Matt's essay gets into the weeds of the legislative history of VOA. Of more interest to us NASWA members is the question of why VOA has, or should have, an English service. I am putting together an essay of my own about this question but, in the meantime, here are a few notes:

In the 20th Century, full-service VOA English output was justified by the fact that VOA was one of only two international broadcasters with global shortwave capability. BBC World Service was the other, with the advantage of better placement of its relay stations. Radio Moscow was somewhat global, but its lack of relay stations left many coverage gaps.

With the internet penetration of the 21st Century, US news media, print and broadcast (with an increasingly blurred distinction between the two) have become global in their coverage. Might as well let them tell the world about the United States.

VOA provides news about Africa for audiences in Africa. Much of Africa still depends on shortwave for news. Those with internet access still access VOA because of VOA's competence in covering African news.

Another justification for VOA global news in English is that US private online media in English (e.g. New York Times and Washington Post) are increasingly behind paywalls. VOA would provide a free alternative, but would it deprive US domestic commercial media of revenue from the US and abroad?

Americans for whom such coverage is lacking. Bureaucratic “missions” should not deprive Americans of such unique news coverage. If US domestic media are concerned with VOA competition, let them come forward. But with US domestic media less and less invested in international news, we may never hear from them.

And, finally, the output of the language services of VOA and the other USAGM entities, translated to English, provides a trove of international news coverage to

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

Shortwave Center

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Well, well, well... what a difference a month makes! When I last prepared this column in mid-March for April’s Journal, the “shelter in place” orders and full realization of just what a serious situation we’re in were not yet established. Fortunately, we’re fine and hope you are the same. For the time being we are still ensconced in our winter quarters in Florida, awaiting enough of an “all clear” sign to return to New York. Every cloud has its silver lining and with little to do but stay

at home and away from others, there’s every excuse to spend copious amounts of time with our radio(s). And, while (as you will see from Anker Petersen’s latest periodic report below) the pickings on the shortwave bands are less than they once were, there’s still more than enough activity there to keep us occupied during a lockdown. Hey, at least no one is going to prod us to move away from that receiver to go do something else! Keep well. – Ed.

SHORTWAVE STATISTICS

Trends in tropical bands broadcasting 2020

by Anker Petersen

Since the Danish Short Wave Club International published the first annual Tropical Bands Survey in 1973, I have

registered which stations are active, based upon loggings from our members and other DX-ers around the world. Here is an updated status where Clandestine and Pirate stations are not included.

Active domestic transmitters on 2200 – 5800 kHz

Region	1973	1985	1997	2009	2020
Central Africa	102	76	40	18	3
Southern Africa	57	39	33	20	5

Region	1973	1985	1997	2009	2020
Middle East	9	4	1	0	0
Indian Subcontinent	62	45	45	29	11
South East Asia	40	29	21	4	1
Indonesia	171	105	65	13	2
China, Taiwan, Mongolia	119	110	75	32	15
CIS (former USSR)	61	59	47	7	4
Far East	38	28	28	9	7
Papua New Guinea	17	20	20	15	2
Australia and other Pacific	10	4	13	8	6
Central America, Mexico	21	23	24	5	1
Caribbean	29	3	3	2	3
Northwestern South America	98	41	19	3	1
Ecuador	47	33	22	5	0
Peru	78	69	78	28	8
Bolivia	35	42	25	14	1
Brazil	107	87	67	35	13
Southern South America	5	2	1	0	1
Total	1106	819	627	247	84

During the past year the previous trend, that tropical stations slowly disappear, continued throughout the world with a loss of about 10 stations. A year ago the total was 92. The reason is, that other media get higher priority, than keeping elderly shortwave transmitters alive.

Here are some of the stations on the Tropical Bands, which have closed down during year 2019:

kHz	kW	Station	Country	Last log
3200	50	TWR ,Mpangela Ranch	Eswatini	JUL19
3265	50	WBCQ, Monticello, Maine	USA	AUG19
3345	10	RRI, Ternate, Pro. Maluku Utara	Indonesia	MAY19
4760	8	AIR, PortBlair, Andaman	India	FEB19
4775	50	TWR, Mpangela Ranch	Eswatini	NOV19
4835	0.1	OZY R, Mount Razorback, NSW	Australia	JAN19

kHz	kW	Station	Country	Last log
4845	10	R Cultura, Manaus, AM	Brazil	MAR19
4895	50	AIR, Kurseong, Paschim Banga	India	MAR19
4965	5	R Alvorada ,Parintins, AM	Brazil	FEB19
5005	15	R Nepal, Khumaltar	Nepal	FEB19
5580	0.25	R SanJosé, San José de Chiquitos	Bolivia	FEB19

SHORTWAVE DIGITAL

RUSSIA RETURNS TO DRM ON SHORTWAVE

Radio Purga targets Chukotka, the country's northeasternmost region

By Han Johnson

April 8, 2020

RADIO WORLD magazine

Russia has resumed Digital Radio Mondiale broadcasts on shortwave. The country originally aired the Voice of Russia via DRM a few years ago. The new service is tentatively called Radio Purga ("Radio Blizzard"). The target area is the Chukotka region of the Russian Far East. Analog shortwave transmissions once served the area, but those ended in the early 2000s when the broadcaster left analog shortwave.

Chukotka is vast and the target audience only numbers a few thousand. Thus, shortwave is the only practical way to reach the population. The transmitter site, Komsomolsk Amur, used to broadcast Voice of Russia's analog programming and is now being used for the DRM program.

New Service

The new service is a joint project between the government in Chukotka and the Far Eastern regional center of the Russian Television and Radio Broadcasting Network.

Using DRM for Radio Purga has several advantages over analog shortwave. Radio Purga over DRM, for example, offers a static-free and higher fidelity signal. Studies have shown that DRM is just as reliable as analog shortwave over this distance via single-hop transmission.

The broadcaster is considering transmitting two audio programs from a single DRM transmitter. This is something analog shortwave can't do. It's also planning on using DRM's ability to transmit short text message or a type of RSS feed (Journaline). DRM transmissions also use only a quarter of the power that analog transmissions do.

"We have in these remote places 2,000 residents who need to be provided with communications services ... the Northern Sea Route also requires attention," said Roman Kopin, the governor of Chukotka, last spring when the project was initiated, according to a Russian press report. In addition to mariners on the Northern Sea Route, the audience includes geologists, miners, reindeer herders and hunters.

Test transmissions started in August via different DRM modes and bandwidths to trial "hardware setup and determine signal acceptability," with the goal of covering over 95% of the area. Programming consists of a music loop and has been heard as far away

as the United States. As of press time the broadcaster was still carrying out transmission tests but regular programming is expected to begin sometime in the next few months.

One of shortwave's greatest strengths has always been its ability to communicate to hard-to-reach locations. Radio Purga's audience is spread over an immense, remote region. The resumption of shortwave via DRM will provide the population with a communications lifeline in both audio and text.

DRM INTERVIEW FEATURED ON BBC WORLD SERVICE'S "DIGITAL PLANET" PROGRAM

An interview with the DRM Chair, Ruxandra Obreja, was featured on the BBC World Service program Digital Planet on April 14th. The interview explores the support for DRM in India, Pakistan, China and Brazil. In particular the interview focused on some of the key benefits of DRM: with this standard digitization can be achieved using existing infrastructure which can then act as a

backup in disasters when other forms of communication fail.

To listen to the interview, go to: <https://www.bbc.co.uk/sounds/play/w3csz97r>. The interview starts approximately two thirds of the way through the program.

SHORTWAVE HISTORY

ADRIAN PETERSON'S DIARY

The Shortwave Scene in South American Uruguay

It was back in the year 1906 that the longwave communication station CWA was inaugurated with German Telefunken equipment near the coastal town of Cerrito on the southern coast of the South American country of Uruguay. This station was installed for communication with nearby shipping, and it was subsequently taken into use for international communication across the Rio de la Plata Estuary with nearby Buenos Aires in Argentina.

Sometime after the end of World War I, the electrical equipment at station CWA was discarded and replaced by electronic equipment that subsequently permitted international voice transmissions on

shortwave. The main international radio station with which CWA communicated was the huge wireless station on the other side of the Rio Plata Estuary, station LPZ at Monte Grande, a southern suburb of the Argentine capital city, Buenos Aires. Station CWA also communicated with mobile and fixed wireless stations in several of the rural areas within Uruguay.

It was during the early 1930s that international radio broadcasting on shortwave really began to flourish in many countries around the world, and the first known program broadcasts on shortwave from Uruguay were transmitted from this coastal station, CWA, at Cerrito. For example, in June 1933 station CWA was heard in the United States with news broadcasts under the callsign CWG on 26.39

metres (11367 kHz). Shortwave channel CWG was in reality a subsidiary call sign that was in use for coastal communications, and also for the occasional part time broadcast of information and entertainment programming.

Back in those days, the shortwave stations in many countries were required to register a separate call sign for each different shortwave channel. In the mid-1930s, the Cerrito station CWA was registered with subsidiary call signs in the alphabetic series ranging from CWA to CWI. The transmitter power was rated at 1.5 kW (probably input), thus with an output power of a little under 1 kW.

That was the very beginning of shortwave broadcasting in Uruguay, back in the early 1930s. The second occasion for shortwave broadcasting in Uruguay began in the year 1936, when the government-operated SODRE station, Radio Electrico, inaugurated a 3 kW transmitter on 6125 kHz under the call sign CXA4. As in all South American radio stations, the station slogan was more significant than the registered call sign.

During the following year (1937), an additional 20 kW transmitter was taken into service for Radio Electrico, and either of the two transmitters, 3 kW or 20 kW, could be used on any of five different shortwave channels, each under its own separate call sign. Programming on shortwave was always a relay of their medium wave programming, and their best-known shortwave channels were 9570 kHz, and also another around 6 MHz.

The studio address for Radio Electrico SODRE was at 823 Calle Mercedes in Montevideo. SODRE radio issued an attractive QSL booklet in response to listener reception reports.

The third shortwave station in Uruguay was the original, and rather controversial, Radio Continental, CXA2, which was inaugurated with a special opening ceremony at 9 pm on Friday evening, February 19, 1937. Programming for this new station was produced and presented specifically for broadcast on shortwave; there was no counterpart station on medium wave for Radio Continental in Uruguay, as is frequently the case in South America.

Initial plans for this new shortwave station indicated that widespread coverage in Spanish was intended throughout Uruguay, Paraguay, and northern Argentina. Their printed program schedule showed that they were presenting news, music and advertisements, much of which was on relay from Radio Prieto LS2 in nearby Buenos Aires, Argentina. Even though they had no medium wave counterpart in Montevideo, yet contemporary assessments back then did indicate that they were performing adequately on shortwave.

Their first temporary studio was installed at 631 Rio Negro Street in Montevideo, and their first temporary shortwave transmitter, rated at 300 watts, was installed at a temporary location in suburban Sayago. Later in that same year (1937), the studios were transferred to 1431 Calle Juan Carlos Gomez, and the transmitter was transferred into a small building at the Deus Brick Factory at 5151 Camino Carrasco in suburban La Cruz de Carrasco. A new 5 kW shortwave transmitter was also installed at this new location.

The total lifespan of shortwave Radio Continental CXA2 in Montevideo, Uruguay was rather brief. The political polarization of the various countries in continental Europe during World War II was reflected to a certain extent in some of the countries of

South America, and it was suspected that Radio Continental favored the Axis powers.

During the early hours of Wednesday morning, August 5, 1942, a powerful explosion completely destroyed Radio Continental CXA2. The culprits were never apprehended, and the station was never rebuilt.

In April 1938, as the American radio magazine Radio News informs us, the Uruguayan government licensed 18 new shortwave stations with powers of 2.5 kW and each was owned by a medium wave radio station located in neighboring Argentina. The sudden influx of Argentine shortwave stations into Uruguay was because the Argentine government simply refused to license any new shortwave stations in their own country.

In June 1939, another new shortwave station was inaugurated at Colonia on the Uruguayan southwest coast. This station, Radio Real de San Carlos CXA8, also took a program relay from neighboring Buenos Aires, Radio Belgrano. Radio Real CXA8 operated with 5 kW on 9640 kHz, and its secondary call sign, CXA14, operated on 11825 kHz.

Five months later (November 1939), Radio El Espectador CXA9 in Montevideo appeared on 9440 kHz with 5 kW, taking a program relay from their own medium wave station CX14. Then, in mid-1940, another new one, CXA7, was expected to make its appearance on 11480 kHz. Then we should also remember that the American Press Wireless also operated their own shortwave station in Uruguay in the pre-war era, and it was tucked in somewhere around an outer suburban area of the capital city, Montevideo.

Uruguay on Shortwave: After the Second Great War

We pick up the shortwave radio scene in the South American country of Uruguay around the middle of last century. Back in the year 1942, there were half a dozen shortwave transmitters on the air in Uruguay, and each was carrying a program relay from the parent medium wave station.

In Uruguay, medium wave call signs begin with two letters, either CW or CX, followed by a number; and on shortwave, call signs begin with the three letters CXA, followed by a number. However, even though the government licensing agency requires that every radio broadcasting station and every shortwave frequency in Uruguay should be registered with an identifying call sign, yet, as far as the listening public is concerned, stations are known better by their identifying slogan or station name.

A study of all of the shortwave broadcasting stations in Uruguay during the past eighty years, from the middle of last century right up to today, indicates that this entire radio era has been fraught with difficulty, problem, and change. Even though the government licensing agency has kept a firm control on all of the changes and variations, yet the only evidence of consistency in the shortwave scene in Uruguay is in itself inconsistency.

The shortwave broadcasting stations in Uruguay have always encountered many problems, some of which are quite serious. The South American nation of Uruguay is a small country with a small population, and therefore there has always been a shortage of government funding, even for the government-owned shortwave service.

Very few of the medium wave stations receive an adequate income from

advertising, and even though there is value in operating a parallel shortwave service, yet the shortwave outlets usually suffer because of a low station income. Thus many stations have survived only with the usage of volunteer and part-time staffing.

The high cost of electricity, as well as expensive technical equipment and parts, has contributed to the financial constraints at most stations; and then too, there is generally insufficient technical training for station engineers. When a medium wave station has undergone a change in ownership, the shortwave station experiences the same change. Sometimes one medium wave station will rent time on another station's shortwave frequency, which obviously adds to the confusion for the listeners.

In addition, and as far as the listener is concerned, it would have been far better if all of the shortwave stations in their country had clustered themselves together in one, or perhaps two, shortwave bands. Then, with stations on more or less adjacent frequencies, listeners could choose far more easily, and thus choose which particular station they would prefer to hear.

However, the increase of strong signals on all shortwave bands from other parts of the world has made listening to low-power local shortwave stations in Uruguay more difficult to hear. Then too, a multitude of shortwave listeners have migrated to other growing forms of entertainment and information, such as FM radio, watching television, and communication via the ever-increasing usage of social media.

Anyway, let's look now at some of the interesting events and information associated with shortwave broadcasting in Uruguay since around the middle of last century.

For example, international radio monitors in the United States, in April 1943, stated that the shortwave broadcasts from Radio Belgrano were jammed by a wobbly carrier which was producing a wobbly heterodyne signal. The only shortwave station in Uruguay that was carrying a relay from Radio Belgrano-LR3 in nearby Buenos Aires during that era was Radio Real de San Carlos in Colonia, on the southern coast of Uruguay. Radio Real was on the air with 5 kW as CXA8 on 9640 kHz or as CXA14 on 11825 kHz, and apparently the government of Uruguay disapproved this wartime relay from Buenos Aires.

During the past three-quarters of a century, there have been several shortwave stations on the air in country areas of Uruguay, though they were all low powered, and were in service for only a short period of time. In addition to Radio Real, as was just mentioned, there was Radio Internacional at Rivera with just 150 watts on 4910 kHz in 1975. Rivera in Uruguay is actually a suburb of the city of Santana do Livramento in Brazil.

Radio La Voz de Artigas in Artigas on the border with Brazil was on the air 30 years ago with its 2.5 kW on 4945 kHz. Radio Paysando at Paysando on the border with Argentina with its 2 kW on 4990 kHz was on the air nearly half a century ago. Radio Universo, with its 20 watts on 6055 kHz, was located on the Atlantic coast and it was on the air some ten years ago.

There were also two other shortwave stations on the air five year ago, and these were Banda Oriental at Zarandee with 2 kW on 6154 kHz, and the unofficial Emisora Chana at Tacuarembó with 30 watts on 5688 kHz. These two stations were located towards the center of the country.

Back in 1946, Radio El Espectador in Montevideo was licensed for 5 kW on 11835 kHz. However, because of international interference on that channel, they moved unofficially to 11735 kHz, and then sought official approval which was never granted to them. Subsequently, Radio Oriental was granted that channel.

Fifteen years ago, Radio La Voz de Artigas was on the air with 5 kW on 6075 kHz, though the modulation level was only 50%. Their other shortwave channel, 4945 kHz, was in use as a program link from the studios to the out of town transmitters.

In 1961, the well-known South American Gospel station HCJB in Quito, Ecuador purchased a radio station in Montevideo, station CX42 with 2.5 kW on 1370 kHz. This station was known as Radio del Pueblo, with an address at 1805 Mercedes, Montevideo. However, available information (or more likely a lack of follow-up information) would indicate that the intended purchase of this medium wave station, together with the subsequent installation of the projected shortwave transmitter, was never accomplished.

The New Zealand DX Times for February 2004 stated that 17 radio stations in Uruguay were for sale, apparently all medium wave stations, and therefore plus a few additional shortwave stations as well. This indicated, states NZDXT, the financial situation for most of the radio broadcasting stations in Uruguay.

The Early Wireless Scene on the Tropical Pacific Island, Bougainville

The island of Bougainville lies in the Western Pacific, five hundred miles east of the much larger island of New Guinea, and a thousand miles northeast of the continent of Australia. Just last month, on December 11

(2019), the Bougainville government announced the results of a territory-wide referendum in which 98.3% of the population voted that the island cluster should secede from Papua New Guinea and become an independent nation in its own right. This referendum produced an overwhelming, non-binding vote for independence, which must yet be discussed and ratified by the national government of independent Papua New Guinea in Port Moresby.

The island of Bougainville is 120 miles long and 40 or 50 miles wide, and it is the main island in the Bougainville Archipelago of 168 islands, only a few of which are inhabited. It is the northernmost island cluster of the Solomon Islands; and it is more closely linked with the Solomon Islands, geographically, linguistically, culturally and racially, than it is with New Guinea.

There are several volcanoes on Bougainville; dormant, inactive and active.

Much of the vegetation on Bougainville is a dense and almost impenetrable tropical jungle, due in part to the Strangler Vine that was introduced by American forces during World War II. There is also a huge variety of local animal and insect life that has adapted to a tropical lifestyle.

The island has a population of around a quarter million people who speak some twenty or thirty different languages and dialects, though English and Pidgin are the two official languages. Their current temporary capital is on nearby Buka Island, though plans are underway to return one day to Arawa, the previous capital city that was located on the central east coast of the main island.

The first settlers on Bougainville arrived from Asia some three thousand years ago.

The first European explorer to visit the island was Admiral Louis Antoine de Bougainville, who, with a nice touch of--shall we say--modesty, named the island in his own honor in 1768.

However, no one from this expedition landed on the island due to the hostility of the islanders. Afterwards, Admiral Bougainville traversed the oceans to South America, where, again with an apparently equal touch of the same modesty, he named a colorful, though mildly toxic, shrub, in his own honor, the Bougainvillea.

Germany annexed the island of Bougainville as part of German New Guinea in 1899; Australian forces invaded and took over at the beginning of World War I; Japanese forces invaded in March 1942; twenty months later the American forces arrived; after the Pacific War, Australia administered the island; then in 1975 it was absorbed into the newly independent Papua New Guinea; and just last December (2019) they voted for independence.

The first wireless station on Bougainville Island was installed at Kieta on the central eastern coastline, and it was taken into service in January 1916 under the Australian call sign VIU. At the time, Kieta was the main colonial town on the island, due to its previous German occupation and also because it was the center of European Christian missionary influence on the island.

Wireless station VIU was installed at Kieta by AWA from Sydney, Australia on behalf of the Australian army, and it became the key station in the wireless/radio network that was established on Bougainville Island in the entire era before World War II. It was a small, one-man operation, and the total facility was housed in the one building on top of a ridge overlooking Kieta town and its harbor.

Operator Mr. C. W. Scriven in September 1930 stated that there was just the one room for station VIU, with its one mast and one power generator. The wireless facility was installed at the top of a stairway with its 517 steps that were cut into the rocky ridge. This rock-cut stairway was the only entrance to the wireless station, which was directly above a small cluster of official-type buildings.

The call sign VIU was an AWA coastal call sign, with a host of other similar alphabetic call signs in the same series, such as VIA Adelaide, VIB Brisbane, VIC Cooktown, and VID Darwin. Coastal station VIU was in regular routine operation with a scattered network of small wireless stations throughout Bougainville, each of which was a low-power pedal facility that was developed earlier in Australia by Alf Traeger, the grandson of a German migrant family.

By the time World War II began in Europe (September 1939), there were a dozen or more of these small pedal-powered radio stations scattered throughout Bougainville, and they had been installed at plantation offices, Christian mission stations and government offices, all mainly close to the eastern coastal areas. Station VIU also maintained regular communication with the government station at Buka Island to the north, with VJZ on Rabaul, and with VIG in Port Moresby.

During the year 1939, the Australian government set up a system of coast watchers on Bougainville Island, as a precaution if hostilities were to break out in the Pacific. The equipment in use at the time were the small AWA 3B transceivers, and with the assistance of local native peoples they were ultimately set up in isolated jungle areas in the interior. Each coast watcher maintained communication with the AWA shortwave station VIG in Port Moresby,

and they reported traffic movements on the part of enemy personnel.

On Friday, January 23, 1942, station VIU was deliberately destroyed and set on fire, just a few hours before Japanese forces landed in Kieta Harbour. Most foreigners were evacuated over various routes and to different locations which were considered at the time to be quite safe.

Jungle Radio on Bougainville Island

It was in March 1942 that the Imperial Japanese Army made its first landings on Bougainville Island as part of their onward progression through the islands in the South Pacific. At the time, there were some 50,000 local people on this island, though most of the foreigners had already evacuated in advance of the Japanese incursions.

In April 1943, the Japanese Admiral Isoroku Yamamoto began a tour of the Japanese occupied islands in the South West Pacific. Admiral Yamamoto was the key architect in the planning of the Japanese attack on Pearl Harbor less than two years earlier, the event that brought the United States into the Pacific War.

American surveillance teams at three widely different locations learned via Japanese coded radio transmissions from nearby Rabaul on New Britain Island that Yamamoto was scheduled to fly from Rabaul to Balalae Island, just to the south of Bougainville Island, on the morning of April 18, 1943. A flight of 16 American fighter planes intercepted the flight of 8 Japanese planes over southern Bougainville and they shot down the Admiral's plane, killing all on board.

Just six months later, on November 1, 1943, American forces landed at Torokina on the central west coast of Bougainville Island,

and there they established a temporary air force base that was carved out of the surrounding tropical jungle. Ultimately, a total of 60,000 American personnel were staged at the Torokina Air base, and at the same time, it is estimated, there were also 65,000 Japanese service personnel on that same island. There were times of open conflict.

The American base at Torokina had a frontal area against the ocean 15 miles wide, and it extended 5 miles inland, up against a rugged jungle-covered mountain range. One month after the initial American landings, the first American planes landed on the jungle airstrip at Torokina (December 10, 1943).

A temporary communication radio station was installed in a primitive jungle building on the edge of a very muddy road in a freshly made clearing in the jungle. They also established a hospital at Torokina, with a holding capacity for 500 patients in a cluster of 70 Quonset Huts.

The first American radio broadcasting station at Torokina was a joint co-operative volunteer effort on the part of American service personnel from the army, navy, marines and seabees. They assembled whatever radio equipment was available, and they launched a low power radio broadcasting station on 670 kHz on February 16, 1944 under the self-designated call sign WSSO. The first station manager was Staff Sargent John A. Ettinger.

Radio station WSSO was established by the Special Service Office (hence the call sign WSSO), and it identified on air as the First Entertainment Station in the Solomons. This new and informal station also identified on air as AES, an American Expeditionary Station, as did many other stations in the Mosquito and Jungle Networks during the latter part of the Pacific War. There are no

known loggings of this informal low power American AES station, not in Australia nor in New Zealand, during the one month that it was on the air.

The second American radio station at Torokina was an official broadcasting station that was set up by a small group of specially trained men who were flown in from California. In the winter of 1943, AFRS Los Angeles received a request for equipment and personnel to set up three medium wave entertainment radio stations in the South Pacific; New Caledonia, Guadalcanal and Bougainville.

On January 15, 1944, the three radio teams, together with their equipment, were flown out to the Admiralty Islands, and then from there each team flew onward to its own appointed destination. The Bougainville team installed their station, both studios and transmitter, in a prefabricated wooden Dallas Hut imported from the United States, and it was inaugurated on April 15, 1944 as AES Bougainville.

This new station, initially without a formal call sign, radiated 1 kW on 670 kHz, the same channel as the previous informal WSSO. At this stage, the Torokina station formed part of the loosely federated Mosquito Network.

This new AFRS station on Bougainville Island was on the air for two months before it was suddenly noted in both Australia and New Zealand. One of the first radio monitors to hear the new station was the Radio & Hobbies medium wave columnist Roy Hallett in Sydney. In mid-June (1944), he noted this station with a good signal just before the morning sign on time for medium wave

stations in eastern Australia. The station sign on announcement stated AFRS Bougainville.

However, a few months later, three major changes took place at AES Torokina. AFRS management in California had determined that each of the AFRS stations in the Pacific should be granted an American-style four letter call sign, and AES Torokina became WVTI. Station WVTI dropped its Mosquito Network affiliation, and it joined the Jungle Network instead, along with half a dozen other stations in the New Guinea area, all with call signs that began with the two letters WV. In addition, the operating channel for WVTI was changed from 670 kHz to 680 kHz.

As time went by, American forces began to move further northward in the progress of the war in the Pacific islands during the year 1944, and thus the American usage of the Torokina Base on Bougainville Island was phased out, and Australian forces began to move in. The Australian army officially took over the Torokina base on November 22 (1944).

The Torokina AFRS station WVTI was on the air for only nine months; it was closed on January 21 (1945), and it was then transferred to the Philippines for installation in Manila. However, in its place a temporary low powered Australian medium wave station superseded the now transferred American station. It is understood that this new temporary Aussie unit was on the air under the Australian Army call sign 9AC, in anticipation of the arrival of a 200 watt transportable station under the same call sign.

Listener's Notebook

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Times are UTC and frequencies in kHz.

ALASKA Summer A-20 frequency change of WCB KNLS The New Life Station:

0800-0900 NF 11875 NLS Chinese tx#2, ex 11885

0900-1000 NF 11885 NLS Chinese tx#2, ex 11885

1100-1200 NF 9740 NLS Chinese tx#2, ex 9685 (DX Mix-Bulgaria)

ALBANIA All transmissions of China Radio International via Cerrik will be inactive for summer A-20. (DX Mix-Bulgaria) Cerrik is still registered in the HFCC with the usual extensive CRI schedule although it has been inactive for several months. (Dave Kenny-UK/British DX Club)

ANTARCTICA 15476, LRA36 Radio Nacional Arcángel San Gabriel, P/D eQSL card in 23 days. E-mail:

tranalra36@radionacional.gov.ar. (Manuel Méndez-Spain/DX Fanzine)

ARMENIA Summer A-20 shortwave schedule of Iran International TV:

0400-1200 on 11570 ERV Persian

1200-0400 on 6270 ERV Persian (DX Mix-Bulgaria)

ASCENSION Follow The Bible Ministries via ENC-DMS:

1900-1928 on 9600 ASC English Sun Summer A-20

1900-1928 on 11660 ASC English Sun Summer A-20 (DX Mix-Bulgaria)

AUSTRIA Bible Voice Broadcasting Program Schedule A-20 Summer:

9810 MOS 1730-1830 English (Sun/Sat)

1700-1730 English (Thurs/Fri) (BVB Direct)

Very good signal of Oesterreichischer Rundfunk-1 ORF-1 in 49mb April 11:

0500-0620 on 6155 MOS German Mon-Fri

0500-0610 Sat/Sun (DX Mix-Bulgaria)

AUSTRALIA Summer A-20 schedule of Reach Beyond Australia in English:

1245-1300 on 11750 KNX Mo/We/Fr, ex same time 11945 B-19

1430-1500 on 11825 KNX Daily, ex 1200-1230 on 11945 B-19

1515-1530 on 7220 KNX Mon/Fri, ex 1545-1600 on 9765 B-19

1315-1330 on 11865 KNX B19 Mon/Wed/Fri is deleted in A20 (DX Mix-Bulgaria)

BRAZIL 11780, Radio Nacional da Amazonia, Brasilia, received via certified mail, QSL card in 19 days. Reception report sent to: centraldoovinte@ebc.com.br. (Manuel Mendez-Spain, direct and hcdx March 24)

BULGARIA Bible Voice Broadcasting Program Schedule A-20 Summer:

5900 SOFIA 0215-0230 Arabic (daily)

5900 SOFIA 1930-1945 Arabic (daily)

5900 SOFIA 1930-1945 Arabic (daily)

9400 SOFIA 1945-2000 Arabic (daily)

9490 SOFIA 1745-1800 Arabic (Daily)

9490 SOFIA 1710-1730 Arabic (Mon/Wed) &

1715-1745 Arabic (Thu/Fri/Sat) (BVB Direct)

IRRS Radio Warra Wangeelaa via SPL Secretbrod on April 11:

1500-1530 on 15515 Afar Oromo Sat, good signal

1500-1600 on 11990 Afan Oromo R. OMN is deleted (DX Mix-Bulgaria)

CANADA 3330, CHU Time Signal Station. Full data colour QSL in English/French. Received

in 12 days for e-mail report with audio file to radio.chu@nrc.ca. E-mail from Bill Hoger on the day of sending the QSL acknowledging receipt of the report and informing about to coming QSL. (Hansjoerg Biener-Germany/Worldwide DX Club)

CHINA China Radio International CRI instead of Cerrik on March 25:

0900-1000 on 15260 KAS Romanian, Summer A-20

1100-1300 on 15180 KAS Bulgarian/Serbian in Summer A20 (DX Mix-Bulgaria)

CLANDESTINE Reception of Voice of Oromo Liberation via MBR Nauen, April 15:

1700-1730 on 15420 Afan Oromo Fri/Sun, eff. March 29

1700-1800 on 15420 Afan Oromo Wed, very good signal (DX Mix-Bulgaria)

Reception of Dimtse Radio Erena in 31mb via SPL Secretbrod, April 9:

1700-1800 on 9720 SCB Tigrinya/Arabic in A-19 and tent. A-20 (DX Mix-Bulgaria)

Manara Radio International via TDF Issoudun, April 14:

1600-1700 on 15285 ISS Hausa from March 29

0700-0800 on 13710 ISS Hausa in Winter B19
0700-0800 on 13840 ISS Hausa alt. 13770 A20 (DX Mix-Bulgaria)

And new summer A20 of National Unity Radio via Dushanbe

1200-1500 on 7340 DB Korean (DX Mix-Bulgaria)

Full summer of BRB Denge Welat via Issoudun/Grigoriopol:

0230-0500 on 9525 ISS Kurdish

0500-0600 on 11530 ISS Kurdish

0600-1600 on 11530 KCH Kurdish

1600-2100 on 11530 ISS Kurdish (DX Mix-Bulgaria)

Summer A-20 of Radio Ndarason International via Encompass Digital Media Sces

0500-0600 on 5960 ASC Kanuri

0600-0700 on 12050 WOF Kanuri*

0700-0800 on 12050 ASC Kanuri

1800-1900 on 9775 WOF Kanuri

1900-2100 on 12050 WOF Kanuri*

* including news in French 0615-0625 and 1915-1925. (DX Mix-Bulgaria)

Fair/good signal of MGB Eye Radio via TDF Issoudun on April 13:

1600-1700 on 15410 Juba Arabic/English* Mon-Fri

0400-0500 on 7340 SMG Juba Arabic* Mon-Fri

* including other local languages: Dinka; Nuer; Shilluk; Bari; Zande; Lutoho (DX Mix-Bulgaria)

Fair/good signal of Dandal Kura Radio Inter via MBR Nauen, April 11:

0700-0800 on 13590 Kanuri Daily and 0800-0900 on Sat

0800-0900 on 13590 Kanuri Sat only, fair/good signal. After 0800 again open carrier/dead air and heavy transmitter problem in Nauen. (DX Mix-Bulgaria)

NO SIGNAL of Radio Nyawa Sarawak from March 30, probably deleted:

1000-1200 on 11890 TAC Iban/Bahasa Malay Mon/Wed/Fri or NF (DX Mix-Bulgaria)

Radio Nyawa Sarawak's website indicates a change in their scheduling. Last week (April 6

through 10) they had one hour shows (1000-1100), every day (not just Mon-Wed-Fri).

Website now indicates "ISNIN - JUMAAT" (Monday - Friday). There is audio streaming

there of the programs. Seems expanded schedule due to COVID-19 coverage. Still lists

11890 as their frequency. Have just emailed the station for confirmation of current

frequency. (Ron Howard-CA) Emailed response just came in from Radio Nyawa

Sarawak (0030, April 14): "Thanks for messaging us. We are off air for a month or

so as Malaysia is facing lock-down due to Covid-19. We will be back on air once things improve. In the meantime we are still putting out a show Mon - Fri online. (Ron Howard-CA)

COLOMBIA 6010, reactivated, Alcaraván Radio, Puerto Lleras, observed 0448-0720 on 10 March with Colombian songs, identification: "Continue con nosotros, Alcaraván Radio". (Manuel Méndez-Spain/British DX Club) Had been inactive on SW for a long time, but not reported again since 10 March. Look out for possible future reactivation of 6010, also of 5910. (Dave Kenny-UK/British DX Club)

DENMARK After having been silent on SW since September 2019, World Music Radio is back:

0700-2000 on 15805 RND English Sa/Su. The second shortwave frequency 5840 is expected to be back on the air from new transmitter site by the end of April 2020. 0000-2400 on 5840 English Daily. (DX Mix-Bulgaria)

Reception reports are acknowledged by an eQSL for reports sent to wmr@wmr.dk - or by a QSL card for reports sent to: World Music Radio, P. O. Box 112, DK-8960 Randers S+, Denmark, Europe (kindly enclose return postage: 2 IRCs, 5 Euro or equivalent. Sorry but 1 or 2 USD won't do). Please note that reception reports using remote receivers (such as remote Kiwi SDRs) are not QSLed. There are two reasons for WMR being off air on SW for several months. First the Danish Telecom agency refused to issue a new license to utilise "out of band frequencies on a non-interference basis". This issue was settled. Second problem was a storm which damaged the Yagi aerial. The aerial was repaired a few days ago. The second SW frequency of WMR, 5840, is expected to be back on the air from a new transmitter site by the end of April 2020. (Stig Hartvig Nielsen-Denmark, hcdx April 11/TopNews)

EGYPT Summer A-20 frequency change of Radio Cairo:

1500-1600 on 9650 ABS Albanian
1700-1900 on 9910 ABS Turkish
1800-1900 on 9870 ABS Italian
1900-2000 on 9570 ABS German
1900-2000 on 9675 ABS Russian
2000-2115 on 9810 ABS French
2115-2245 on 9890 ABS English
2215-2330 on 9490 ABS Portuguese
2330-0045 on 9885 ABS Arabic
0045-0200 on 9665 ABS Spanish (DX Mix-Bulgaria) Radio Cairo has been inactive on SW for some time presumably due to transmitter failure, but is continuing to register schedules with the HFCC so may perhaps resume at some point. (British DX Club)

ENGLAND IBRA Radio/Radio Sama via ENC-DMS Woofferton, April 10:

1700-1800 on 15260 Arabic, weak signal (DX Mix-Bulgaria)

6195, Babcock Test transmission via Woofferton, N/D e-mail verification a few hours after a report with audio clip sent to: transmissiontest@gmail.com V/S Dave Porter G4OYX (Retired) Senior Transmitter Engineer Woofferton 1982-2012. (Rafael Martínez-Spain/DX Fanzine)

ESWATINI Summer A-20 frequency of Trans World Radio Africa. No more morning program in English:

0330-0400 on 3240 MAN Shona Daily, ex 0300-0330
0400-0415 on 3240 MAN Ndaou Daily, ex 0330-0345
1815-1845 NF 9515 MAN Turkina Sat, ex 1745-1815 NF 9475
1815-1845 NF 9515 MAN Swahili Sun, ex 1745-1815 NF 9475 (DX Mix-Bulgaria)

Good signal of Trans World Radio Africa on April 12

1905-1935 on 9940 MAN Lingala Daily

1935-1950 on 9940 MAN French Sat/Sun
1935-2005 on 9940 MAN Lingala Mon-Fri (DX
Mix-Bulgaria)

FINLAND 11720, Scandinavian Weekend
Radio, F/D eQSL letter in 5 days. E-mail
address: info@swradio.net. V/s: Tapani
Hakkinen. (Manuel Méndez-Spain/DX
Fanzine)

FRANCE Reception of KBS World Radio via
TDF Issoudun, April 15:
2000-2100 on 5950 ISS French, fair to good
(DX Mix-Bulgaria)

Reception of TDA Telediffusion d'Algerie via
TDF Issoudun April 14:
0400-0459 on 6050 ISS Arabic Holy Quran px,
very good
0500-0559 on 6125 ISS Arabic Holy Quran
px* weak/fair
0500-0559 on 7295 ISS Arabic Holy Quran
px* fair/good
0600-0659 on 9620 ISS Arabic Holy Quran px,
very good
*xx01-xx09 news in French (DX Mix-
Bulgaria)

Reception of Radio France International in
25mb on April 13:
0530-0600 on 11790 ISS Swahili, good signal
(DX Mix-Bulgaria)

GERMANY Reception of HCJB, Voice of The
Andes via MBR Nauen on March 28:
1529-1601 on 13800 NAU Russian/Chechen
Sat as April 4 (DX Mix-Bulgaria)

Summer A-20 schedule of The Mighty KBC
Radio from March 29:
0000-0200 on 5960 NAU English Sun till April
26
0000-0200 on 9925 NAU English Sun May 03-
Aug. 30
0000-0200 on 5960 NAU English Sun from
Sept. 06 (DX Mix-Bulgaria)

Bible Voice Broadcasting Program Schedule
A-20 Summer:

6635 NAUEN 1915-1930 English (Sun)
9610 NAUEN 1830-1900 Farsi
(Sun/Tu/Thu/Fri)
9610 NAUEN 1830-1900 Farsi ()
9610 NAUEN 1830-1900 Farsi
(Sun/Tu/Thu/Fri)
9635 NAUEN 1830-1915 English (Sun)
9735 NAUEN 0500-0515 Arabic (Fri)
11655 NAUEN 0600-0615 Arabic (daily)
15265 NAUEN 1400-1500 English (Sat)
15310 NAUEN Sunday 1600-1630 Oromo
1630-1700 Somali (Sun) 600-1630 Oromo
1630-1730 Amharic 1730-1800 Tigringa
(Mon) 1600-1630 Oromo 1630-1730 Amharic
(Tues) 1630-1730 Amharic 1730-1800
Tigringa (Wed) 1630-1730 Amharic (Thurs)
1630-1700 Amharic (Fri) 1630-1700 Somali
(Sat)

Bible Voice Broadcasting Program Schedule
A-20 Summer:

6635 NAUEN 1915-1930 English (Sun)
9610 NAUEN 1830-1900 Farsi
(Sun/Tu/Thu/Fri)
9610 NAUEN 1830-1900 Farsi ()
9610 NAUEN 1830-1900 Farsi
(Sun/Tu/Thu/Fri)
9635 NAUEN 1830-1915 English (Sun)
9735 NAUEN 0500-0515 Arabic (Fri)
11655 NAUEN 0600-0615 Arabic (daily)
15265 NAUEN 1400-1500 English (Sat)
15310 NAUEN Sunday 1600-1630 Oromo
1630-1700 Somali (Sun) 600-1630 Oromo
1630-1730 Amharic 1730-1800 Tigringa
(Mon) 1600-1630 Oromo 1630-1730 Amharic
(Tues) 1630-1730 Amharic 1730-1800
Tigringa (Wed) 1630-1730 Amharic (Thurs)
1630-1700 Amharic (Fri) 1630-1700 Somali
(Sat)
15350 NAUEN 1630-1700 Nuer (daily) (BVB
Direct)

Full A20 schedule for Deutsche Welle on
shortwave:

1600-1700 Amharic 13775-iss 15275-iss
0630-0700 Hausa 9830-sao 11850-iss 15215-
iss

1300-1400 Hausa 9830-sao 11850-sao 15215-iss
1325-1530 Hausa 15195-iss 15350-iss (Sat only - football)
1800-1900 Hausa 9830-sao 11850-iss 15215-iss (Wolfgang Büschel-Germany/British DX Club)

GUAM Updated summer A-20 English schedule of KTWR Trans World Radio Asia:
1318-1346 on 7510 English Sat
1101-1146 on 9910 English Sun
1245-1300 on 11580 English FEBA India Tue
1000-1030 on 11965 English Sun
1100-1125 on 11965 English Mon
1100-1140 on 11965 English Tue-Fri
1100-1157 on 11965 English Sun
1000-1022 on 11995 English Mon-Fri
1000-1044 on 11995 English Sat
1026-1056 on 15200 English Sun DRM mode (DX Mix-Bulgaria)

GUATEMALA 4055, Radio Verdad Chiquimula. E-QSL, calendar, pennant and brochures with info of station received in 1 day for report sent to: radioverdad5@yahoo.com. (Manuel Méndez-Spain/British DX Club)

INDIA As reported earlier, transmissions of AIR External Services are suspended from 24 March 2020 due to national lock-down. The national lock-down in India has been extended to 3 May 2020. Hence the External Services of All India Radio is expected to resume transmissions only after that day. Only the following External Service has resumed transmission from 12 April 2020: Tamil 1115-1215 on 7270 via Chennai. Tests on External Service transmitters are noted occasionally eg: Bengaluru on 6110, 7550 (DRM), 9690, 9865, 9950, 11560, 17510 etc. at various times especially at around 1330-1430 and Delhi 9950, 11620. (Jose Jacob-India, VU2JOS/DX India)

Tender for new 50 kW SW Transmitter for AIR Kurseong. This SW transmissions were

terminated from here on 30 July 2019. They used to operate on 3355, 4895, 7230 etc. with the following SW transmitters: BEL HHB 144 50 kW and GATES HF20PX 20 kW. (Jose Jacob-India, VU2JOS/DX India)

INDONESIA 3325, via Palangkaraya // 4749.95, via Cimanggis/Jakarta, Voice of Indonesia, at 1300 on April 11. English segment; news followed by "News from Indonesia"; "Today in History". Certainly one of their better days! (Ron Howard-CA via wwdxc BC-DX TopNews April 12)

IRAN Tentative A20 schedule for IRIB Voice of the Islamic Republic of Iran in English:
1520-1620 on 7410-sir
1920-2020 on 9835-sir 9855-sir (HFCC / Allen Dean-UK/British DX Club)

9665, Voice of the Islamic Rep., English program at 2022. Complete ID w/ contact info mx bridge then into commentary and Islamic readings. Signal here was good but audio muffled. Schedule shows them listed in Spanish here at this time. I had been hearing them in English on 9855, very poor, until they went off at 2020 in mid sentence. Tuned down here and found them continuing with same program. (Stephen C Wood-MA)

ITALY A20 / Summer 2020 schedule for IRRS-Shortwave effective 29 March 2020 until 25 October 2020:
0800-0900 on 9510 (Tiganesti) Sat English
0930-1200 on 9510 (Tiganesti) Sun English
1300-1400 on 9640 (Sofia) Daily English
1500-1600 on 11990 (Sofia) Daily Oromo
1500-1530 15515 (Sofia) Sat Oromo
1700-1800 on 7290 (Tiganesti) Daily English
1800-1900 on 7290 (Tiganesti) Daily English
1900-2000 on 9660 (Sofia) Daily English (Ron Norton at NEXUS-IBA and IRRS, Direct)
A new eQSL is available for reception reports sent to reports@nexus.org. (IRRS / Allan Dean-UK/British DX Club)

KOREA (South) Frequency change of Voice of Freedom VOF in 49mb:

0300-0800 NF 5920 HWA Korean, ex 6045
0900-1400 NF 5920 HWA Korean, ex 6045
1500-2000 NF 5920 HWA Korean, ex 6045
2100-0200 NF 5920 HWA Korean, ex 6045 (DX Mix-Bulgaria)

KYRGYZSTAN Radio Sedaye Zindagi, TWR's broadcast to Afghanistan in Dari/Pashto, heard on 24 March 0000-0200 on 5130 via Bishkek, using an SDR in Novosibirsk. (Wolfgang Bueschel BC-DX) This is additional to the evening broadcast of Sedaye Zindage. (Dave Kenny-UK/British DX Club)

MADAGASCAR FPU Radio Tamazuj via Issoudun and Talata, April 13:
0329-0427 on 7315 ISS Juba Arabic, good
0329-0427 on 11650 MDC Juba Arabic, good (DX Mix-Bulgaria)

FPU Radio Dabanga via SM di Galeria and Talata on April 13:
0429-0457 on 7315 SMG Darfur Arabic, weak/fair
0429-0457 on 11650 MDC Darfur Arabic, fair/good (DX Mix-Bulgaria)

Bible Voice Broadcasting Program Schedule A-20 Summer:
11945 MDC 0200-0215 English (Tues/Thurs)
21480 MDC 1200-1230 English (Sat)
21480 MDC 1230-1245 Bahasa (Sun) (BVB Direct)

MYANMAR 5985, Myanmar Radio, fairly good reception on April 14: 1438-1443: First time I've heard "Learning English with BBC, Burmese" on a Tuesday; very readable in Burmese and English; followed by unique indigenous music and singing. Very enjoyable reception! (Ron Howard-CA)

NEW ZEALAND A-20 frequency change & time change of Radio New Zealand RNZ Pacific:
AM mode Daily

1959-2158 on 11725 RAN English, ex 2059-2258 on same
2159-0458 on 13840 RAN English, ex 2259-0458 on same
0459-0658 NF 11725 RAN English, ex 0459-0558 on 9700
1259-1650 on 6170 RAN English NO CHANGE A-19 > A-20
AM mode Mon-Fri
0659-0958 on 5945 RAN English, ex 0559-0958 on same
0959-1258 on 5945 RAN English NO CHANGE A-19 > A-20
AM mode Sat/Sun
0659-1258 on 5945 RAN English, ex 0559-1258 on same
AM mode Sat
1259-1958 on 6170 RAN English NO CHANGE A-19 > A-20 (DX Mix-Bulgaria)

NIGERIA 11770. Voice of Nigeria at 2046, Nigerian song, male announcer in Hausa, many mentions of Nigeria. Fair, Apr. 1. (Harold Sellers-BC/DXplorer)

OMAN Radio Sultanate of Oman in Arabic on 15140 from 1400 on April 7:
1400-1500 on 15140 THU Urdu+Arabic, instead English!
from 1500 on 15140 THU Arabic, as scheduled in A-20. (DX Mix-Bulgaria)

PAPUA NEW GUINEA (Bougainville) 3325, NBC Bougainville, 1011-1044, March 25. Weather report in English; promo for "NBC"; 1015+, with news conference in English about Coronavirus, with Q&A; semi-readable; to early for VOI QRM. (Ron Howard-CA)

PHILIPPINES Last minute summer frequency changes of Vatican Radio via AGM Tinang:
2200-2230 NF 9735 PHT Chinese, ex 9740 and 2315-2340 NF 9735 PHT Vietnamese, ex 9740 (DX Mix-Bulgaria)

Between March 19 & 29 all A20 registrations for PBS Radio Pilipinas are deleted. (DX Mix-

Bulgaria) My friend Sanil Deep reports that Radyo Pilipinas missing on SW lately. PBS which was there in HFCC for B19 is missing in A20 registration. (Jose Jacob-India/DXindia April 4) Seemingly ceased all shortwave services via USAGM Tinang-Philippines relay site. (Wolfgang Büschel-Germany/TopNews, April 4) Reply from Radyo Pilipinas Worldwide through their facebook page in response to my inquiry about the status of their SW broadcast. "Good day, Jacob. Due to the implementation of Enhanced Community Quarantine in the Philippines, short wave airing of Radyo Pilipinas-Worldwide is temporarily unavailable." (Jose Jacob-India VU2JOS, DXindia April 11/TopNews)

15450, FEBC, F/D eQSL and letter in 2 days. V/s: Norita P. Estabillo. E-mail: norie.estabillo@febc.ph. (Manuel Méndez-Spain/DX Fanzine)

ROMANIA R Romania International English schedule effective 29 March to 24 October 2020:

0000-0100	on	6040	7375
0300-0400	on	7375 9850 9740 (DRM)	11825
0530-0600	on	6015 7325 (DRM)	15410 17760
1100-1200	on	13750	15130
1100-1200	on	15320	17670
1700-1800	on	9760 (DRM)	11850
2030-2100	on	6170 7315 (DRM)	11850 13650
2200-2300	on	5945 7310 7325 9790 (Alan Roe-UK, BrDXC-UK newsgroup March 23)	

RUSSIA Summer A-20 frequencies of DRM broadcasting in Chukotka:

2000-2300 on 9850 Russian DRM mode
2300-0400 on 12025 Russian DRM mode
0400-1000 on 15735 Russian DRM mode (DX Mix-Bulgaria)

Summer A-20 schedule of GTRK Adygeya/Adygeyan Radio March 29
1800-1900 on 6000 ARM Adygeyan Mon
1800-1900 on 6000 ARM Ad/Ar/Tu Fri

1900-2000 on 6000 ARM Adygeyan Sun (DX Mix-Bulgaria)

SAUDI ARABIA Reception of Radio Saudi International on March 22:

All frequencies of ARS BSKSA missing in Summer A-20 HFCC Database (DX Mix-Bulgaria)

SPAIN During the coronavirus crisis, Radio Exterior de España has suspended its regular programming and is carrying RNE Radio 1. Foreign-language programmes including English have also been replaced by RNE Radio 1 in Spanish. (Manuel Méndez-Spain/British DX Club)

SRI LANKA Summer A-20 schedule of Sri Lanka Broadcasting Corporation in 31/25mb. In A20 HFCC all frequencies of Sri Lanka Broadcasting Corporation are unregistered: 1115-1200 on 9695 TRM Telugu/Malayalam is on air April 9

1630-1830 on 11750 TRM Sinhala City FM-NOT ON AIR APRIL 9

1700-1800 on 11835 TRM Tamil Thendral FM, ALSO NOT ON AIR

0115-0230 on 11905 TRM Bengali/Hindi irreg., please check (DX Mix-Bulgaria)

TAIWAN Summer A-20 frequency changes of Radio Taiwan International:

0400-0600 NF 11840 KOU Chinese, ex 11640
0730-0900 on 11840 KOU Chinese, add. freq
0800-0900 NF 11785 PAO Japanese, ex 9705
1000-1400 NF 9555 KOU Chinese, ex 9660
1000-1400 NF 9885 KOU Chinese, ex 9680
1000-1100 NF 11840 KOU Chinese, ex 11640
1100-1200 on 9490 TSH Russian, new time
1100-1200 NF 9680 TSH Chinese, ex 7235
1100-1200 NF 9740 PAO Japanese, ex 9735
1100-1200 NF 11840 KOU Chinese, ex 11640
1200-1400 NF 7430 KOU Chinese, ex 11640
1200-1300 NF 9680 TSH Chinese, ex 9470
1400-1500 on 9590 TSH Russian-canceled
1700-1730 on 5900 SCB Russian, NOT 7215
2300-2400 NF 9745 PAO Vietnamese, ex11655

TAJIKISTAN Bible Voice Broadcasting
Program Schedule A-20 Summer:

11550 Dushanbe-Orzu 1300-1330 Korean
(Sat/Sun) English 1300-1330 (Mon-Wed; Fri)
(BVB Direct)

THAILAND A20 schedule for Radio Thailand
(all via USAGM's Udon Thani transmitter
site):

0000-0030 English 15590
0030-0100 English 15590
0100-0200 Thai 15590
0200-0230 English 15590
0230-0330 Thai 15590
0530-0600 English 17640
1000-1100 Thai 17850
1100-1115 Viet. 5875
1115-1130 Khmer 5875
1130-1145 English 5875
1145-1200 Myanmar 5875
1200-1215 Mal. 9390
1230-1300 English 9390
1300-1315 Japanese 9390
1330-1400 Thai 9390
1400-1430 English 9390
1800-1900 Thai 9920
1900-2000 English 9920
2000-2015 German 9920
2030-2045 English 9920
2045-2100 Thai 9920 (HFCC/British DX Club)

TURKEY Summer A-20 frequency changes of
Voice of Turkey:

0000-0155 NF 7360 EMR Turkish, ex 9735
0300-0355 NF 7275 EMR English, ex 9515
0400-0555 NF 9770 EMR Turkish, ex 11980
1000-1025 NF 11740 EMR Tatar, ex 9855
1030-1055 NF 15235 EMR Uzbek, ex 13650
1100-1155 NF 17620 EMR Chinese, ex 15240
1200-1225 NF 15285 EMR Turkmen, ex 11990
1930-2025 NF 9880 EMR French, ex 11615
2030-2125 NF 9875 EMR English, ex 9620 (DX
Mix-Bulgaria)

UNITED ARAB EMIRATES FEBA Radio via
ENC-DMS Al-Dhabayya on March 23:

1600-1630 on 11655 DHA Afar, A-20 (DX
Mix-Bulgaria)

UNITED KINGDOM Summer A-20 frequency
changes of BBC World Service:
0000-0100 NF 5945 ERV English, ex7300 WOF
0230-0330 NF 6180 TAC Farsi, ex6155
0500-0600 NF13810 ERV Kinyarwanda Sat,
ex15490
0530-0600 NF13810 ERV Kinyarwanda Sun,
ex15490
1330-1400 NF17680 TAC Bengali, ex9560
1400-1500 NF13660 TAC Somali, ex15420 SCB
1730-1750 9390 KCH Amharic Mon-Fri,
additional
1750-1810 9390 KCH Afan Oromo Mon-Fri,
addict
1810-1830 9390 KCH Tigrinya Mon-Fri,
additional (Ivo Ivanov-Bulgaria and hcdx via
wwdxc BC-DX Topnews)

USA Summer A-20 frequency changes of R.
Liberty/R. Farda/R. Free AFG/R. Mashaal (all
locations):

0300-0430 on 9370 LAM Persian Radio Farda,
additional
0400-0430 on 9480 BIB Pashto R. Free
Afghanistan, ex KWT
0400-0500 on 12130 KWT Pashto Radio
Mashaal, ex UDO
0500-0700 on 12130 KWT Pashto Radio
Mashaal, ex UDO
0630-0830 on 5860 KWT Persian Radio Farda,
additional
0930-1100 on 5860 KWT Persian Radio Farda,
additional
0830-1530 on 17830 LAM Persian Radio
Farda, ex BIB
1400-1600 NF 11850 LAM Tajik Radio Liberty,
ex 7475
1400-1500 NF 12055 BIB Turkmen Radio
Liberty, ex 11850
1400-1500 NF 11790 KWT Uzbek Radio
Liberty, ex 13630
1400-1500 NF 15310 WOF Uzbek Radio
Liberty, ex 15180
1500-1600 NF 11805 BIB Turkmen Radio
Liberty, ex 11850 DHA

1600-1700 on 11850 DHA Tajik Radio Liberty, ex BIB
2300-0230 on 5860 KWT Persian Radio Farda, ex BIB (DX Mix-Bulgaria)

Fair signal of Alameda Bible Fellowship via WRMI#9 on April 13:
1330-1400 on 15770 English Mon/Wed/Fri (DX Mix-Bulgaria)

UZBEKISTAN Bible Voice Broadcasting Program Schedule A-20 Summer:
9370 Tashkent 1200-1230 Urdu (Sat) (BVB Direct)

Updated summer A-20 schedule of Trans World Radio India:
0045-0115 on 7465 TAC Hindi Mon-Fri
0115-0130 on 7465 TAC Nepali Mon
0115-0130 on 7465 TAC Hindi Tue
0115-0130 on 7465 TAC Dzonka Wed
0115-0130 on 7465 TAC Tibetan Thu
0115-0130 on 7465 TAC Dari Fri (DX Mix-Bulgaria)

VANUATU Updated 24 hours shortwave schedule of Radio Vanuatu:
0000-0700 on 5040 PVL Bislma/English
0700-1000 on 3945 PVL Bislma/English
1000-1830 on 2485 PVL Bislma/English
1830-2400 on 3945 PVL Bislma/English (DX Mix-Bulgaria)

VATICAN Summer A-20 schedule of Radio Veritas Asia:
0000-0027 on 9700 SMG Kachin (DX Mix-Bulgaria)

FPU Radio Dabanga via Santa Maria di Galeria and Talata on April 4:


0429-0457 on 7315 SMG Darfur Arabic, very good signal

0429-0457 on 11650 MDC Darfur Arabic, fair/good signal (DX Mix-Bulgaria)

From the beginning of A-20 Vatican Radio have a new Interval Signal. (DX Mix-Bulgaria)

A20 schedule for Vatican Radio in English:
1130-1200 Fri 15595-smg 17590-smg (Mass)
1615-1630 Daily 11950-smg
1630-1700 Daily 7360-mdc 15595-smg
2000-2030 Daily 7360-smg 9705-smg (HFCC/British DX Club)

ZAMBIA 5915, R. One / ZNBC1 Lusaka, 0500 on April 10. "One Zambia, one nation"; news in English (item about the International Monetary Fund; "on the economic front"; "in business news," etc.); 0516, end of the news; one of their better days. Lusaka sunrise was at 0413. (Ron Howard-CA via wwdxc BC-DX TopNews April 10)

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

Pirate Radio Report

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 holiday in

March this year, St. Patrick's Day, falls on Tuesday, March 17. While not really an observed holiday, another major date this month is March 20, the first day of Spring in North America. This means that darkness

propagation paths on a daily basis start to shrink. Seasonal static levels on the shortwave bands therefore begin a period of increase that will last through summer.


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 April.

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.

Your editor's work this month was massively disrupted by the continued catastrophe

associated with the COVID-19 worldwide epidemic. Virtually all of my local meetings were cancelled, causing me to modd yhr deadline date for the May column. I then got into a highly unsatisfactory argument with the Cuyahoga County Board of Elections, who looks like they will not allow me to vote in the upcoming Ohio primary election. Gov. Mike DeWine cancelled the original election, and then ruled that the forthcoming election will be conducted entirely by absentee ballots, with the normal polling places still closed due to the virus. This caused me to realize that Joe Adimov's vote in the USSR carried more weight than my own vote does in the United States, a horribly ugly fact. On the bright side, my stimulus check did arrive in my bsnk account from the IRS. It also turns out that the IRS send many millions of these payments to dead people, who will not be required to send the money back.

I apologize for this unusual situation. Probably a large majority of NASWA members are having similar difficulties. In the meantime, I urge everybody to stay safe. With any luck the column can return to normal next month.

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. 

Contributors' Page

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Andre FREDETTE , Oakville, Ontario	JRC NRD 535D, Icom R-75 PAR ES-SWL 65 ft. Antenna, MFJ-959C
Vince HENLEY , Anacortes, WA	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.
Rick BARTON , Sun City, AZ	RS SW-2000629, Satellite 205/T.5000 & 650, Hammarlund SP-200X, outdoor Slinky and long wires.
Pamela PRODAN , Wilton, ME	Eton Field BT
Eric BUENEMAN , Hazelwood, MO	Sangean ATS-803A, 30-foot longwire, 150-foot homebrew dipole
Mark TAYLOR , Madison, WI	Equipment: Perseus, Elad FDM-S2, Airspy HF+ & HF+ Discovery; 42 meters dipole, 100' long wire, W6LVP loop.
Ed CICHOREK-NJ	R75, SW8, MFJ956 SWL4-50 outdoor wire
Gianni SERRA - Roma-Italy	JRC NRD 525 receiver; Alpha Delta DX-SWL Sloper-S antenna; RG 8 mini coaxial cable; JPS NIR 12 Noise & Interference Reducer-Dual DSP outboard audio filter; JRC NVA 319 external loudspeaker unit

Loggings

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

1700	CUBA Radio Havana Cuba via Quivicán – 3/31 2350 noted with vocal music and brief commentary in Portuguese. SIO 434. (Bueneman-MO)
1900	SAO TOME & PRINCIPE <i>Voice of America</i> , 2031, 3-28. Heard vocals and high life instrumentals. Fair to good with fading. (Cichorek-NJ)
2850	NORTH KOREA <i>KCBS</i> 4/8 at 1220. Patriotic singing, sappy soprano vocals, very strong today – Barton-AZ

- 3320 **NORTH KOREA PBS Pyongyang** Pansong in KK. March 29, 2020, 1319 – 1326. SIO 333. YL announcer with harangue. Choral MX with OM choir. Poor signal, but listenable. Listed target is FE. (Henley, WA)
- 3905 **SOUTH KOREA Clandestine** in KK. April 5, 2020, 1435 – 1445. SIO 333. Tentative ID as “Voice of the People” clandestine. OM announcer with long monologue or lecture. Heavy QRN, minor QSB. Listenable with difficulty. (Henley, WA)
- 3910 **SOUTH KOREA Clandestine / opposition “Voice of the People”** // 3925 in KK. March 29, 2020, 1329 – 1332. SIO 544. OM with long monologue. Some noise jamming QRM. Listenable here through the jamming. (Henley, WA)
- 3925 **JAPAN Radio Nikkei 1** in JJ. March 29, 2020, 1333 – 1340. SIO 544. Domestic broadcast. OM and YL announcers on top of “Voice of the People” in KK. Listed target is FE. Possibly a radio drama. (Henley, WA)
- 3945 **NORTH KOREA Clandestine / Opposition “Echo of Unification”** in KK. March 29, 2020, 1347 – 1352. SIO 333. Listed target is South Korea. Some Amateur QRM. Operatic choral singing, YL announcer with commentary in KK. OM follows with monologue. Listenable with difficulty. (Henley, WA)
- 3985 **CHINA CNR 2 China Business Radio** in Mandarin CC. March 29, 2020, 1341 – 1346. SIO 534. Possible noise jamming, but signal is listenable. YL and OM announcers in CC discussion. (Henley, WA)
- 4055 **GUATEMALA Radio Verdad** 3/14 at 0600. Religious choral music to religious talk after the hour in Spanish. Good ID by man in Spanish at 0609 - Barton-AZ
- 4455 **SOUTH KOREA Voice of the People (oppo/clan)** 4/8 at 1240. Vocal music under roar of DPRK jammer. Noted this morning - other ROK oppo broadcasts on the nominal frequencies - Barton-AZ
- 4500 **CHINAP.R. PBS Xinjiang**, Urumqi Changji, in listed Mongolian 03.31.2020 1721-1736 Far East songs and music, woman brief talk (no clear) after each track, slow music pause, man talk, local song; fair/almost fair. (Serra, Roma, Italy)
- 4765 **CUBA Radio Progreso**, Bejucal, in Spanish 03.29.2020 0131-0159 LA lively ballad songs, w/ man dj brief talk for some seconds after each track (ment. Habana twice at 0141), talk at 0155 for several seconds (no much clear) w/ ID (Radio Progreso La Habana (Serra, Roma, Italy)
- 4765 **TAJIKISTAN Radio Tajikistan**, Dushanbe Yangi Yul, in listed Tajik 03.30.2020 1931-1944 local chorus vocals chant till 1936, man unclear talk, another long boring local chorus vocals chant; better in ssb, strong qrn statics, poor in ssb. (Serra, Roma, Italy)
- 4775 **PERU Radio Tarma**, in Spanish 03.28.2020 0004-0023 local slow song, man unclear talk (clear IDs in streaming only), local songs; heard in ssb only, cause strong buzz noise in am, strong qrn rustle, very poor/poor; from 0019 increased buzz noise in ssb too, barely audible/very poor; in // < www.raddios.com/1089-radio-online-radio-tarma-fm-993-tarma-peru >. (Serra, Roma, Italy)
- 4820 **CHINA P.R. PBS Xizang**, Lhasa Baiding, in Chinese 04.04.2020 1731-1750 man talk, other man/woman talk above slow music, into a Radio drama, w/ some children voices at times, some sounds, some men/women reciting (no much clear almost good / fair; (Serra,Roma,Italy)
- 4850 **CHINA PBS Xinjiang** – Urumqi (P), 1201, 3/27/20 in Kazak. Man then woman and man announcers alternating ending with a longer section by the woman into mellow music. Poor – fair. (Taylor – WI)

- 4880 **SOUTH KOREA *Clandestine “Echo of Hope VOH”*** in KK. March 29, 2020, 1353 – 1403. SIO 545. OM and YL announcers with drama / discussion in strident monologues. Background MX. YLs and OMs alternating in talk, persuasive discussion, drama. Owl hooting in background. Drama continues across TOH with a telephone conversation, and then a confrontation with what sounded like gunfire. (Henley, WA)
- 4885 **SOUTH KOREA *Echo of Hope VOH*** in KK. April 5, 2020, 1505 – 1518. SIO 333. Tentative ID. YL announcer with long monologue. Noisy signal, heavy QRN, no detectable QRM or jamming heard here. Listenable with difficulty. Switch to OM announcer at 1515. (Henley, WA)
- 4885 **BRAZIL *Radio Clube do Para***, Belem, PA, in Portuguese 03.28.2020 2324-2350 medley of lively LA ballad songs, w/ man dj brief talk at times (enhanced "Clube" at 2342:58"), continuing w/ no stop beating disco music; (Serra,Roma,Italy)
- 4900 **CHINA *Voice of the Strait*** 1204, 3/27/20 in Mandarin. Program of mellow music with male announcer. Poor. // 4940, very poor. (Taylor – WI)
- 4940 **CHINA *Voice of the Strait*** in CC. March 29, 2020. 1404 – 1409. SIO 333. OM with talk in Mandarin. Noisy signal. Listenable with difficulty. (Henley, WA)
- 4980 **CHINA *PBS Xinjiang*** – Changji (Urumqi) (P), 1207, 3/27/20 in Uighur. Woman talking at some length. Very poor. (Taylor – WI)
- 5000 **UNITED STATES *WWV / WWVH*** in EE. March 29, 2020, 1418 – 1424. SIO 555. Standard time and frequency broadcast. Both WWV and WWVH heard on 5000, but only WWV heard on 10000. Other frequencies not detectable at this time. (Henley, WA)
- 5040 **CUBA *Radio Habana Cuba*** English 2347-52 talk about 1959 nationalizations & proposed 30 year compensation scheme tied to sugar trade; good 4/3 (Prodan-ME)
- 5060 **CHINA *PBS Xinjiang*** - Changji (Urumqi) (P), 1211, 3/27/20 in Mandarin. Woman talking at length. Very poor. // 5960 also very poor. (Taylor – WI)
- 5085 **UNITED STATES *WTWW*** Lebanon, TN 2352-0124 music, “we play hot stuff for you all day long,” Beatles “O Bla Di O Bla Da,” advertisement & sta ID at 2355; fair-good 4/3 (Prodan-ME)
- 5130 **UNITED STATES *WBCQ*** 4-26 USA Radio News, ad for “Low Cost Airlines” cut off, William Tell Overture, then Allen Wiener “things will get better,” chatting with Angela, who lauds Trump's response to crisis; fair-good //7490 only poor-fair 4/4 (Prodan-ME)
- 5845 **PHILIPPINES *BBCWS*** at 3/14 1620 M and W w/ Korean-English Lang lesson to W and news headlines at the BoH - Barton-AZ
- 5850 **UNITED STATES *WRMI*** Okeechobee, FL also // 7780 Radio Slovakia Intl English 0046-58 “this program is dedicated to animal rights”; both freq fair 4/4 (Prodan-ME)
- 5875 **VATICAN CITY *BBC World Service*** relay Santa Maria di Galeria – 3/28 0514 noted with interview in English. SIO 323. (Bueneman-MO)
- 5920 **PHILIPPINES *Radio Vaticana*** in Malayalam via Tinang. April 5, 2020 1525 – 1530. SIO 444. OM announcer. MX with OM vocalist in Malayalam. OM with homily. Then hymn with OM soloist and chorus. South Asia is listed target. Off air at 1530. (Henley, WA)
- 5920 **MYANMAR *Myanma Radio*** in Burmese. March 29, 2020, 1450 – 1505. SIO 555. Burmese commentary and MX. Tentative ID and off listed frequency. Target SEA. Radio drama after TOH with multiple OM performers. (Henley, WA)

- 5930 **FRANCE *Radio Algerienne*** Arabic 2245-59 chants, vocal music, m Ann & off; fair 4/5 (Prodan-ME)
- 5939 **BRAZIL *Radio Voz Missionaria*** (p), Camboriu SC, in Portuguese 03.27.2020 2212-2235 woman / man unclear talk in turns, (w/ Braz. accent), music pause w/ woman unclear announcement, man/woman unclear talk in turns barely audible/very poor; (Serra,Roma,Italy)
- 5945 **ROMANIA *Radio Romania Int*** English 2220-44 f ann talking about Asian cats on stamps – Persian, Siamese, Bengal; then a spring song - “Thank You Spring!”; at 2230 jazz music incl jazz versions of Bach pieces; 2243 program frequencies & times, then reception reports; good 4/5 (Prodan-ME)
- 5950 **ETHIOPIA *V.o.Tigray Revolution***, Addis Abeba, in local Lang. (listed Tigrinya) 03.27.2020 1941-1954 usual long local chant w/ instrumental music, woman / man talk in turns above slow music, , fair/almost fair at times in Lsb. (Serra,Roma,Italy)
- 5960 **TURKEY *Voice of Turkey***, Emirler, 23:50 GMT, March 19, SIO 444, Turkish music program playing pop and traditional music. Abrupt cut off at 24:00 (Fredette-ON)
- 5960 **TURKEY *Voice of Turkey***, 2329, 3-28, Man in English with ID then into Turkish vocals. Casual ID by woman at 2346 with more songs. 2354 ID and abrupt sign off. Good with slight fading. (Cichorek-NJ)
- 5960 **GERMANY *Mighty KBC Radio*** 0000-0150 music, 1st half hour “girl singers” incl Shirelles & Cher; good 4/5 (Prodan-ME)
- 5965 **CHINA *China Radio Int’l*** in RR. April 5, 2020, 1535 – 1540. SIO 555. OM and YL announcers, pop MX with YL and OM vocalists. Listed target is Siberia. Announcers with talk followed by more pop MX. Excellent signal. (Henley, WA)
- 5965 **CHINA *China Radio Int’l*** in RR. March 29, 2020, 1506 – 1515. SIO 555. CRI to Siberia. YL announcer with news and commentary. Excellent signal, easy listening. (Henley, WA)
- 5980 **UNITED STATES *Radio Marti*** Greenville, NC Spanish 2208-17 m Ann mentioned Bolivia several times; fair+ 4/5 (Prodan-ME)
- 5995 **MALI *Radio Mali*** French 2204-2333 African music, then m Ann in Bambara, after ~2230 news in French; from 2300 all music, very listenable; fair+ some fade at end 4/5 (Prodan-ME)
- 5995 **MALI *Radio Mali***, 2321, 3-28, Afro pop vocals with man in French between songs. Fair to good. (Cichorek-NJ)
- 5995 **MALI *Radio Mali***, 2256, 3-26-20. Vocals talk then more singing with guitar. Gone by 2301. Poor with QRN. (Cichorek-NJ)
- 6000 **CUBA *Radio Habana Cuba***, 2326, 3-28, man in English interviewed. Talk about Donald Trump a disappointment because he felt he sold out to big business. Good signal, 20dB. (Cichorek-NJ)
- 6040 **ROMANIA *Radio Romania Int’l***, 1:22 GMT. March 29, SIO 444, French program: Man and woman having a discussion about a novel with the author. ID at 1:23 GMT, “Visit Romania” followed by a story about the history and architecture of a castle in Romania. Good signal, slight fading. (Fredette-ON)
- 6070 **CANADA *CFRX*** Toronto 2325-43 call in program “listening to the Night Side,” “we have the capacity to manufacture here – why try to save a few cents,” excerpt from Ontario Premier Doug Ford's statement critical of Trump, traffic, etc; good 4/3 (Prodan-ME)

- 6070 **GERMANY *Radio Waves Int'l***, via Rohrbach Waal, in English 03.28.2020 0803-0827 music program w/ pop, rock, rock roll, twist, disco dance etc. songs (Queen's The show must go on; Tina Turner's We don't need another hero, Let's twist again etc.) w/ man ID as Radio Waves International good/almost good. (Serra, Roma, Italy)
- 6070 **CANADA *CFRX*** Toronto, ON – 3/20 0135 noted with talk on the COVID-19 pandemic in English. SIO 444. (Bueneman-MO)
- 6105 **FRANCE *Radio Algerienne*** via Issoudun – 3/28 0536 noted with commentary in French and Middle Eastern music. SIO 333, ACI from Radio Havana Cuba on 6100 kHz. (Bueneman-MO)
- 6115 **UNITED STATES *WWCR*** Nashville, TN 2344-47 “spiritual realm ... understanding scripture ... revelation,” prob Stair; good 4/3 (Prodan-ME)
- 6125 **CHINA *CNR 1*** in CC. March 29, 2020, 1517 – 1522. SIO 555. Domestic broadcast. YL announcers, background MX, conversations among the announcers, pop MX with YL vocalist, advertisements, and announcements. (Henley, WA)
- 6129 **ESWATINI *TWR Africa***, Manzini Mpangela Ranch, in Portuguese and from 1950 in Kimbundu 04.01.2020 19 25-1956 man long rel.sermon (also reading many passages from Gospel) till 1946, fair/almost good (Serra,Roma,Italy)
- 6145 **CUBA *Radio Habana Cuba*** 0300+ English, announcement re program on Corona virus; good 4/3 (Prodan-ME)
- 6145 **CUBA *Radio Habana Cuba*** via La Habana – 3/24 0640 noted with talk on how the COVID-19 virus has affected Cuba in English. SIO 434. (Bueneman-MO)
- 6155 **CHINA *CNR 2 China Business Radio*** in CC. March 29, 2020, 1523 – 1528. SIO 434. Pop MX and talk. YL announcer with voice-over MX. Listed language is Mandarin. (Henley, WA)
- 6170 **NEW ZEALAND *RNZI*** in EE. March 30, 2020, 1445 – 1505. SIO 444. Sports news with OM and YL announcers. Pop MX. Listed target is Oceania. Time pips at TOH then news. Economic impact of the COVID 19 pandemic YL announcer with UK news via BBC reporting. News continues, including the postponing of the Olympics until next year. (Henley, WA)
- 6180 **BRAZIL *Radio Nacional da Amazonia***, 2315, 3-28, vocals then casual ID at 2316 followed by male vocals. Good signal. (Cichorek-NJ)
- 7250 **CHINA *China Radio Int'l*** via Urumqi – 3/3 0117 noted with commentary in Chinese. SIO 222. (Bueneman-MO)
- 7295 **ALGERIA [non] *RTA*** April 8 at 0543, Arabic talk, not Qu`ran, as RTA via FRANCE is scheduled this hour only. But strangely, also jammed by rapid tone pips, or carriers beating, measured about 0.7 kHz both above and below, circa 7294.3 and 7295.7. Nothing else scheduled here worthy of jamming. Maybe by America p-odd over this intrusion? (Glenn Hauser, OK, WOR)
- 7315 **UNITED STATES *World Harvest Radio***, WHRI, Cypress Creek, SC in EE. March 25, 2020, 2315 – 2322. SIO 333. OM with homily. Listed target is Caribbean. Noisy signal, heavy QRN. Frequent ID. Sermon and prayer advice follows. (Henley, WA)
- 7325 **ROMANIA *Radio Romania Int'l***, 1:01 GMT, March 6, SIO 444, English program: 30 people diagnosed with the Corona virus in Romania. 95 000 infected worldwide. News on local Romanian politics and proposed changes. Good signal, slight fading.
- 7325 **CHINA *China Radio Int'l*** in EE. April 5, 2020, 1542 – 1548. SIO 555. Round table about the pandemic crisis and the impact on the economies of the infected countries.

- Heavy propaganda by Beijing. YL host, OM participants from various academic institutions. Strictly the Beijing party line. (Henley, WA)
- 7335 **TAIWAN *Nippon no Kaze*** via Paochung in KK. April 5, 2020, 1519 – 1601. SIO 555. Excellent signal. YL announcer, pop MX, YL vocalist. Contact information given slowly. Listed target is North Korea. Programming is from Japan via Paochung in Taiwan. ID at TOH. (Henley, WA)
- 7335 **UNITED STATES *Radio Marti*** Greenville, NC Spanish 1317-34 several people in discussion, “musica Cubano,” station ID, reference to Zodiac signs; good 4/4 (Prodan-ME)
- 7350 **CHINA *Radio China Int’l***, 1:42 GMT, March 3, SIO 222, English program: news program but hard to understand due to QRM and fading.
- 7365 **CHINA *CNRI*** in CC. April 5, 2020, 1602 – 1610. SIO 545. Domestic broadcast.MX, OM chorus and soloists. OM announcer. Good signal. Announcements, conversation and background MX. (Henley, WA)
- 7375 **Romania *Radio Romania Int’l***, 21:43 GMT, Feb 28th, SIO 444, English program: Romania has borrowed from RU at negative interest rates. Also discussion that borrowing cannot continue to go up. Good reception, slight fading.
- 7410 **CHINA *China Radio Int’l*** in JJ. March 30, 2020, 1513 – 1524. SIO 555. YL announcer. Strong and clear excellent signal. CRI ID at 1520, positive ID. Not listed at this time and frequency. Pop MX, talk, MX with OM vocalist. (Henley, WA)
- 7410 **ROMANIA *Radio Romania Int’l*** via Galbeni – 3/20 0201 noted with news in French. SIO 444. (Bueneman-MO)
- 7410 **CHINA *China Radio Int’l*** in JJ. March 24, 2020, 1450 – 1457. SIO 555. YL announcer with talk and background MX. Long monologue. CRI ID and contact information given, followed by OMs and YLs in JJ discussion. Off air at 1457. (Henley, WA)
- 7445 **MADAGASCAR *BBCWS*** 3/14 at 1500. News by M, to Sports World, and clip of soccer match with no crowd noise. Barton-AZ
- 7485 **SINGAPORE *BBCWS*** 3/14 1530 // 7445 Sports magazine pgm, interviews - Barton-AZ
- 7490 **UNITED STATES *WWCR*** Nashville, TN 1335-38 m speaker, religious; good 4/4 (Prodan-ME)
- 7570 **UNITED STATES *WRMI*** Okeechobee FL 1338-40 English “Supreme Master Television”; poor 4/4 (Prodan-ME)
- 7780 **UNITED STATES OF AMERICA *Radio Slovakia Int’l*** via WRMI Okeechobee, FL – 3/25 0042 noted with talk on Slovak education in English. SIO 545. (Bueneman-MO)
- 7850 **CANADA *CHU*** standard time and frequency station in FF / EE. March 29, 2020, 1411 – 1417. SIO 333. Listenable with difficulty, but can hear signal and announcements clearly enough for the purpose. Detectable on 7850 and 14670 but not on 3330. (Henley, WA)
- 9330 **UNITED STATES *WBCQ*** in EE. March 30, 2020, 1509 – 1513. SIO 444. “World’s Last Chance” religious program. OM preacher with sermon about the name of God as given to Moses. Convoluted logic and discussion. Emphatic sermon by OM. Steep QSB with the signal deteriorating. (Henley, WA)
- 9330 **UNITED STATES *WBCQ*** Monticello, ME Spanish 1233-40 “World's Last Chance,” music & m & f Ann; fair-poor 4/4 (Prodan-ME)

- 9330 **UNITED STATES WBCQ** "World's Last Chance" program in EE. March 24, 2020, 1435 – 1448. SIO 555. Religious programming, two OMs in discussion of prophecies and how to interpret them. YL follows with discussion of OCD and how common it is. There was a religious homily or theme throughout the broadcast. Return to OMs with discussions of prophets. Listed target is WNA. (Henley, WA)
- 9395 **UNITED STATES OF AMERICA Radio Slovakia Int'l** via WRMI Okeechobee, FL – 3/10 0243 noted with talk on integrating migrants into Slovak society in English into pop music. SIO 555. (Bueneman-MO)
- 9395 **ARGENTINA [none]. RAE** Friday April 10 at 2100, the nominal "Italian" hour of RAE relay via WRMI starts in Spanish by host Fernando Farias, 2102 into the Voz of Arnaldo Slaen with abbr'd Actual dad DX, about IRRS War Room Pandemic show (Glenn Hauser, OK, WOR)
- 9420 **GREECE Voice of Greece** Greek 2311-24 songs & music; fair-good 4/3 (Prodan-ME)
- 9445 **TAIWAN Nippon no kaze** 3/14, 1530. W in Korean, usual musical bridges etc., but heard UNDER co-channel station (Adventist World Radio via Sri Lanka in Oriya) - Barton-AZ
- 9470 **CHINA Radio China Int'l**, 00:09 GMT, March 11, SIO 222 Mongolian Program: Woman talking. Fair to poor with fading and atmospheric noise.
- 9470 **TAIWAN Furusato no kaze** (oppo/clan) 4/6 at 1600. Usual open, M in Japanese, familiar music tone bridges, monologue with W in Japanese, instrumental music - Barton-AZ
- 9525 **MOLDOVIA Voice of Welt**, 2159, 3-24-20. Voice of Welt, Radio Denge Welat. Woman in listed Kurdish with vocals. Poor to JBA. (Cichorek-NJ)
- 9535 **CUBA Radio Habana Cuba** Spanish 1158-1215 Sta info, news & talk; good, fading 4/4 (Prodan-ME)
- 9565 **UNITED STATES Radio Marti** in SS. March 25, 2020, 2306 – 2312. SIO 333. OMs in discussion. Noisy signal, heavy QRN. (Henley, WA)
- 9570 **CUBA Radio China Intl** Chinese 1215-23 f Ann; fair-good 4/4 (Prodan-ME)
- 9590 **CHINA Radio China Int'l**, 23:02 GMT, March 7, SIO 323 Spanish program: pop music, strong signal much fading.
- 9615 **PHILIPPINES BBC WS** via Tinang in KK. April 5, 2020, 1611 – 1620. SIO 555. Excellent signal. YL announcer in KK, target is FE. Later, OM announcer joins with comments, on-site news clips, and alternating commentary. Bumper MX. (Henley, WA)
- 9615 **PHILIPPINES BBCWS** (via Tinang relay) 4/4 at 1615. Heard on Satellit 205 with only the whip. News magazine like sound, dialogue with M, W, in Korean - Barton-AZ
- 9650 **GUINEA Radio Guinea**, 2156, 3-24-20. Two men in vernacular with rapid fire back and forth talk. Fair to good with QRN. (Cichorek-NJ)
- 9650 **GUINEA Radio Guinea**, 2247, 3026-20. Male talking in French then female vocalist. Fair with fading. (Cichorek-NJ)
- 9665 **NORTH KOREA KCBS** Pyongyang in KK. April 5, 2020, 1621 – 1630. SIO 333. YL singer soloist with a ballad. Noisy signal, some audio distortion, heavy QRN. Shallow QSB. Domestic broadcast but with listed target of South Korea. More YL singing follows. (Henley, WA)
- 9690 **SPAIN Radio Exterior De Espana**, Noblejas, 2:12 GMT, March 17, SIO 444, Spanish program: Female solo singer followed by male speaker and comments

- about Miss Navarro, followed by song by Sebastian Bach. Strong signal slight fading. (Fredette-ON)
- 9690 **SPAIN *Radio Exterior Espana*** in SS. March 25, 2020, 2301 – 2305. SIO 333. YL announcer in SS with news reporting. Mention of COVID-19 pandemic and impact on Spain. Poor signal. (Henley, WA)
- 9710 **CHINA *China Radio Int'l*** via Kashgar – 3/5 0207 noted with traditional Chinese music and commentary in Spanish. SIO 323. (Bueneman-MO)
- 9710 **China *Radio China Int'l***, and Kashi-Saibagh, 2:04GMT, 17 March, SIO 322, Spanish program: pop music, fair with much flutter. (Fredette-ON)
- 9730 **ALASKA *KNLS*** religious broadcast in RR. March 30, 2020, 1530 – 1550. SIO 555. OMs and YL in RR conversation probably religious. Hymn with mixed Choir. ID in RR at 1540 by OM announcer. Long monologue follows. Religious pop MX. (Henley, WA)
- 9790 **FRANCE *France Int'l Radio***, 21:30 GMT, Feb 28th, SIO 333, French program, two men having a discussion and talking quickly. Hard to make out details due to atmospheric noise, Followed by African folk music. Fair signal.
- 9800 **JAPAN *Radio Japan*** via Yamato – 3/26 0744 with commentary in Japanese into light vocal music. SIO 323. (Bueneman-MO)
- 9805 **UNITED STATES *Radio Marti*** Greenville, NC Spanish 1223-30+ songs & multiple Radio Marti IDs; fair 4/4 (Prodan-ME)
- 9830 **TURKEY *Voice of Turkey*** April 8 at 2244, JBA signal presumed VOT active today. Wonder if something else be erroneous at Emirler, like reduced power, reception has been so poor lately even when on. Glenn Hauser, OK, (WOR)
- 9850 **NORTHERN MARIANA ISLANDS *Radio Free Asia***, Saipan-Agingan Point, in Korean 03.29.2020 1510-1524 woman talk till 1514, man talk above music and continuing talk only, w/ other men brief talk at times, fair (Serra,Roma,Italy)
- 9855 **MADAGASCAR *NHK***, world radio Japan, 20:50 GMT, March 28, SIO 333, French program; Lady talking followed by pop music. Music program: discussion on ray Charles followed by French pop songs. Good to fair, slight fading. (Fredette-ON)
- 9880 **THAILAND *Voice of America***, 00:06 GMT, 11 March, SIO 211, and Chinese program: Man and woman talking quickly. Poor due to much fading.
- 9985 **NORTHERN MARIANA ISLANDS *Voice of America*** – Saipan, 1406, 3/28/20 in Korean. Cover of “Don’t think twice it’s alright” in English, woman announcer. Fair. // 11570 also Saipan, poor. (Taylor – WI)
- 10000 **HAWAII *WWVH*** Kekaha, Kauai – 3/24 0634 noted with time signals, time announcements in English every 60 seconds. SIO 444 over WWV. (Bueneman-MO)
- 11530 **FRANCE *Clandestine Denge Welat***, 15:26 GMT, March27, SIO 333 Arabic program Music, religious talk, followed by martial music, fair to good with slight fading. (Fredette-ON)
- 11605 **SPAIN *Radio Exterior De Espana***, Noblejas, 21:49 GMT, March20, SIO333 Spanish program: Man talking. Used LSB to get rid of RTTY interference. Fair to good signal. (Fredette-ON)
- 11610 **MADAGASCAR *World Christian Broadcast***, the light of life program, 21:47 GMT, March20, SIO 555, Chinese program, man talking. Excellent signal. (Fredette-ON)

- 11635 **NORTH KOREA** *Voice of Korea* in CC. March 25, 2020, 2254 – 2258. SIO 333. VOK in Mandarin. OM and YL announcers, martial MX, Heavy QRN, shallow QSB. (Henley, WA)
- 11760 **CUBA** *Radio Habana Cuba* Spanish 1340-45 m speaker; fair+ 4/4 (Prodan-ME)
- 11770 **CHINA** *China Radio Int'l* via Beijing – 3/3 0045 noted with commentary in Vietnamese into traditional Chinese music. SIO 222. (Bueneman-MO)
- 11780 **BRASIL** *Radio Nacional da Amazônia* 0204-0301 Portuguese, music & songs, incl All My Loving in Portuguese, m ann, numerous radio Nacional spots; at 0301 all the different RN station frequencies; generally fair to good but by end of period 6180 was good, 11780 poor 4/3 (Prodan-ME)
- 11780 **BRAZIL** *Radio Nacional Da Amazonia*, 21:53 GMT, March 20, SIO 444, Portuguese program: ID at 21:54 “Radio Nacional De Brazil” (Fredette-ON)
- 11780 **BRAZIL** *Radio Nacional da Amazonia* in PP. March 25, 2020, 2232 – 2240. SIO 444. OM and YL commentators alternating with items. Good signal. News items and MX clips. Some discussion. Domestic broadcast. (Henley, WA)
- 11790 **CHINA** *China Radio Int'l* via Xiamen – 3/3 0054 noted with commentary in English. SIO 222. (Bueneman-MO)
- 11850 **PHILIPPINES** *BBCWS* (via Tinang relay site) 4/4 at 2330. W host interviewing expert on infectious diseases - Barton-AZ
- 11860 **UNITED STATES** *Radio Marti* Greenville, NC Spanish 1528-30 m & f Ann, music, IDs; very good 4/5 (Prodan-ME)
- 11880 **CUBA** *Radio Habana Cuba*, 22:12 GMT, March 21, SIO 545, French program: General news program, man and woman talking about the Corona virus. (Fredette-ON)
- 11900 **ROMANIA** *Radio Romania Intl* Romanian 1530-37 m Ann; poor+ with static & fades 4/5 (Prodan-ME)
- 11900 **SAO TOME** *Voice of America* at 3/14 at 2030, mostly talk in (listed) Hausa, closing ancmts in English with Yankee Doodle music and off - Barton-AZ
- 11930 **UNITED STATES** *Radio Marti* Greenville, NC Spanish 1536-40 f speaking about technology; fair+ 4/5 (Prodan-ME)
- 11950 **CUBA** *Radio Havana Cuba* via La Habana – 3/31 2355 noted with roundtable discussion in Spanish. SIO 444. (Bueneman-MO)
- 11965 **MADAGASCAR** *World Christian broadcast, African Pathways Radio*, 20:48 GMT, Feb 26th, SIO 555, English Program: Man talking about theological education of ministers in Uganda. Excellent signal clear with slight fading.
- 11975 **MALI** *Radio China Int'l*, 22:35 GMT, March 20, SIO 434, Chinese program, Many women speaking, good signal, atmospheric noise. (Fredette-ON)
- 11975 **MALI** *Radio China Int'l*, 22:10, March 21, SIO 444, French program: Female announcer, info on an upcoming music festival, good signal some flutter. (Fredette-ON)
- 11975 **MALI** *China Radio Int'l* (Bamako) 3/15 2330. M, W, in Chinese in (sounded like) interview or news magazine type program – Very Good Barton-AZ
- 11995 **FRANCE** *Radio France Int'l*, 17:36 GMT, March 23, SIO 444 French news program: African news on various terrorist groups in different African countries. Discussion on how to disarm these groups thru peaceful negotiations along with economic issues. (Fredette-ON)
- 11995 **FRANCE** *Radio France Int'l*, 19:08 GMT, 10 March, SIO 333, French Program: News and sports program. News on soccer results and the impact of the Corona

- virus on scheduled games. Local French politics and president Macron. Good to fair signal.
- 12030 **SPAIN *Radio Exterior De Espana*** Spanish 1540-1600 m & f ann & music, tones & ID; 1955-2000 2 m talking about Octavio Paz, then part of Beatles Let It Be, tones & “Radio Nacional da Espana”; earlier poor-fair, later good 4/5 (Prodan-ME)
- 12050 **UNITED STATES *WEWN EWTN Catholic Radio*** in SS. March 25, 2020, 2226 – 2229. SIO 333. OMs in SS discussion. Heavy QRN, shallow QSB. From Vandiver AL. Listed target is SAM. (Henley, WA)
- 12075 **VATICAN CITY *Voice of America*** 19:03 GMT, March 10, SIO 434, French Program: News aimed at African audience. ID at 19:05 “VOA Afrique”. More local news on the Congo. Good clear signal, moderate fading.
- 12075 **VATICAN CITY *Voice of America***, 18:54 GMT, March 19, SIO 333, French program: News on corona virus in various African countries. Problem of shortage of masks. Used USB and passband tuning to increase treble and clarity of program. (Fredette-ON)
- 12160 **UNITED STATES *WWCR***, Nashville, TN in EE. March 26, 2020, 1520 – 1538. SIO 444. CSC Talk Radio with Beth Ann. Talk of media attempting to trip up Trump during his press conferences. Conservative Talk Radio, advertisements for various products and services. Partially religious Christian radio. (Henley, WA)
- 13750 **THAILAND *Radio Thailand*** 3/15 at 0005, W reading news headlines, and then M. – Barton-AZ
- 15120 **CUBA *China Radio Int’l*** via Quivicán – 3/23 0014 noted with commentary in Spanish. SIO 555. (Bueneman-MO)
- 15140 **CUBA *Radio Habana Cuba*** Spanish, 1423-50 Rhumba music & ann; talk > 1450; poor-fair, //15230 a bit better, 4/2 (Prodan-ME)
- 15215 **SRI LANKA *Adventist world Radio*** 15:47 GMT, March 22, SIO 333, Hindi program, Man speaking. Good signal with moderate fading. (Fredette-ON)
- 15310 **ENGLAND *RFE/RL*** 1455 Uzbek listed, m speaker, off at 1500; poor-fair 4/2 (Prodan-ME)
- 15370 **CUBA *Radio Habana Cuba*** in SS. March 25, 2020, 2221 – 2225. SIO 433. OMs in SS talk. Badly distorted audio, nearly unintelligible. Overall poor. YL with ID. (Henley, WA)
- 15410 **FRANCE *eye Radio***, 16:39 GMT, March 27, SIO 222, Arabic program, man speaking, poor signal, weak. (Fredette-ON)
- 15434 **SAUDI ARABIA**. 15434.985, April 10 at 1518, poor signal in Arabic; also seems to be a weaker carrier low-hetting closer to 15435.000, but nothing else is scheduled. Not even KSA is in HFCC of course, but Aoki/NDXC shows it at 1450-1700-1800 (Glenn Hauser, OK, WOR)
- 15435 **SAUDI ARABIA *Radio Saudi***, 16:16 GMT, March 5, SIO 333, Arabic program: Two women talking. Used USB due to interference on side of signal. Fair to good.
- 15435 **SAUDI ARABIA *Radio Saudi*** Riyadh Arabic 1507-20 m & f ann, heard “corona” several times, musical interlude, sta/prog IDs; fair-good 4/5 (Prodan-ME)
- 15490 **ASCENSION ISLAND *BBC***, 19:45 GMT, March 25, SIO 444 Hausa program, news two women talking about Corona virus, good signal, slight fading. (Fredette-ON)
- 15580 **BOTSWANA *Voice of America***, 19:22 GMT, March 17, SIO 434, English program: Discussion on migrants on Turkish border and Corona virus. History of American

- invasion of Iraq. St. Patrick's Day, Democratic primaries postponed in some states. Used USB to clarify transmission which was very bassy. Slight hum in transmission and fading. (Fredette-ON)
- 15640 **PHILIPPINES FEBC** Manila in Burmese. March 25, 2020, 2332 – 2340. SIO 343. YL announcer, pop MX with YL vocalist. Listed target is SEA. Noisy signal but listenable. (Henley, WA)
- 15730 **BOTSWANA Voice of America**, 19:34GMT, March17, SIO 333, French program: News read by man and woman, Bokoharum terrorists group in Nigeria, Corona virus update in world and Africa. Suspension of airline flights to slow and stop the virus. Good signal slight fading and atmospheric noise. (Fredette-ON)
- 15770 **UNITED STATES WRMI** Okeechobee FL 1521-25 English “Supreme Master Television,” “joke of the week,” message in French; very good 4/5 (Prodan-ME)
- 15770 **UNITED STATES WYFR** Okeechobee FL in EE. March 25, 2020, 2216 – 2220. SIO 343. Brother Stair religious program with an “end of days” theme. Contact information and funding appeal given. Listed target is ENA. (Henley, WA)
- 15825 **UNITED STATES WWCR** Nashville, TN 1525-28 call & response religious service; faint 4/5 (Prodan-ME)
- 17640 **ASCENSION ISLAND BBC**, 16:36 GMT, March 10, SIO 444, and English News: News on corona virus is South Korea. Discussion on teenagers and sexual identity issues. Good signal some fading.
- 17705 **SAUDI ARABIA Radio Riyadh**, 13:42 GMT, March9, SIO 333, Arabic program: Two men talking. Fair with some fading.
- 17800 **FRANCE Deutche Welle**, 13:37 GMT, March9, SIO 333, Hausa Program: Man talking followed by folk music, vocals and drums. Fair with slight fading.
- 17880 **MALI Radio China Int'l**, 16:11 GMT, March5, SIO 444, Arabic program: Man talking about corona 19 virus, very clear, slight fading.
- 17880 **Mali China Int'l Radio**, 16:41 GMT, March 10, SIO 434, Arabic program: Man and woman talking. Good signal, moderate fading.
- 17880 **MALI Radio China Int'l**, 16:34 GMT, March 26, SIO 444, Arabic program with Chinese pop music. Good signal with slight fading. Same program was broadcast on 15125 KHZ but not as clear only SIO 333. (Fredette-ON)
- 17895 **BOTSWANA Voice of America**, 17:15 GMT, March 6, SIO 434, English program: News on agreement between Russia and Turkey on conflict at Turkish Syrian border. Discussion on dispelling myths on Corona virus by an epidemiologist doctor giving background on the outbreak. Good signal slight fading.

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!





< www.ontheshortwaves.com > Update, March 22, 2020 -- The world could use a little humor right now. Check out "Humorous Postcards V" in "DX History/Literature & Humor." -- And thanks to Colin Miller for a recording of Voice of Tehran, possibly from 1976. It's in "Specialized Resources/The DX Recordings of Colin Miller."

< www.ontheshortwaves.com > Update, March 29, 2019 -- In the 1930s, DX bulletins were often commercially printed and had a pretty professional look to them. But usually there weren't many pictures. Although the *Globe Circler*, the bulletin of the International DXers Alliance, wasn't as good looking as some of the others, one thing it had was pictures. There was one on the cover of every issue, and others inside. They were small and grainy, and always black-and-white, but the photos--especially those of IDA members--gave the IDA more of a "club" feel than did some of the other DX groups. We have gone through many issues of the IDA bulletin, from 1932 to 1943, pulled out some of the more interesting photos, and assembled them into three PDFs, which we will be posting in "DX History/Clubs & Publications." The first one covers two areas, IDA members and "professional monitoring."

< www.ontheshortwaves.com > Update, April 5, 2020 -- For many years, shortwave listening was promoted by electronics magazines—*Radio News*, *Popular Electronics*, in more recent years *Popular Communications*, and many, many others, and it was common for SWLs to "get their start" by way of these magazines. Sometimes the magazines would put together compendiums of articles or other information for its readers. Often they promoted the magazine's more technical side. An example is the "Short Wave Radio Quiz Book and Kinks," which we have posted under "DX History/Equipment & Advertising." It was published in 1938 by *Short Wave & Television*, formerly known as *Short Wave Craft*. As can be seen, its appeal would have been almost completely to the constructor and the technically inclined.

< www.ontheshortwaves.com > Update, April 12, 2020 -- In "DX History/Clubs & Publications," you will find the second of three postings of photos from the *Globe Circler*, the bulletin of the International DXers Alliance. This second posting contains Part III of the series (the first posting contained Part I, on club members, and Part II, on professional monitoring). Also this time, under "Specialized Resources/Wavescan," we have four new Wavescan stories from Dr. Adrian M. Peterson. They are: (1 & 2) "The Happiest Place on Earth—Vanuatu Back on Shortwave," Pt. I, Wavescan #N576 (March 8, 2020) & Pt. II, Wavescan #N578 (March 22, 2020); (3) "The Early Shortwave Scene in South American Paraguay," Wavescan #579 (March 29, 2020); and (4) "American Radio Station on Vanuatu," Wavescan #581 (April 12, 2020).

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