

The **NASA** Journal

VOLUME LVII NUMBER 3

MARCH 2017



North American Shortwave Association — America's Shortwave Broadcast Club

Quality Radio Equipment Since 1942

ETON

FREE!



Get a **FREE Eton Mini** with your purchase of an Eton **Satellit**, **Field** or **Satellit 750** from Universal Radio! The Eton Mini receives AM, FM plus shortwave from 5.6-10 and 11.65-18 MHz. Include: rich orange digital display, scanning, metal grid, clock-alarm, key lock and earphone jack. Requires two AAA's (not included). With carry pouch. Only 4.3" x 2.7" x 0.47". #0184 **A \$45.00 value!**



Eton Satellit
#0050 \$199.95



Eton Field
#0018 \$119.98



Eton Satellit 750
#0750 \$349.95

ICOM

Coming early 2017!

IC-R8600



The **Icom IC-R8600** wideband communications receiver raises the bar on sophisticated radio monitoring. This ground breaking receiver made its world debut at the **JARL Tokyo Ham Fair** on August 19, 2016. The IC-R8600 covers 0.01-3000 MHz (less cellular) in analog and decodes multiple digital protocols, including D-STAR™, NXDN™, NXDN™, aPMR™ and APCO P25. It has a large 4.3 inch color TFT touch screen display with fast spectrum scope and waterfall display. The advanced circuit employs modern FPGA/DSP base architecture with traditional superheterodyne circuitry. Optional RS-R8600 PC remote control software allows control of all receiver functions. There is a convenient SD card slot for received log, decode log and voice recording. The rear panel features: 10.7 MHz IF Output, LAN Port, Mute Line, Reference I/O output, External speaker jack, AF/IF output, CI-V remote terminal, USB port, DC power input jack, S meter output jack, Aux., 3 antenna jacks (N/SO239/RCA) and ground terminal. The I/Q signal output supports use with third-party SDR software and/or external decoding.

An optional Icom SP-39AD (#2003) external speaker with integrated power supply will be available. The IC-R8600 will be available in both consumer (#0086) and government (#0586) versions.

Full features, specifications, pricing and availability were not announced by Icom as of press time. Please check www.universal-radio.com for the latest updates on this exciting new receiver. This new model is expected early 2017. This device has not been approved by the FCC. This device may not be offered for sale or leased or be sold or licensed until approval of the FCC. Full power obtained.

All listed features, appearances, names, sizes and specifications may be subject to change without notice from Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) and/or other countries. NXDN is a trademark of Icom Incorporated and JVC KENWOOD Corporation. iPMR and the iPMR logo are trademarks of the iPMR Hold Association.

2017 WORLD RADIO TV HANDBOOK

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, radio club info., plus receiver reviews. **WRTH Pub.** ©2016/71st Edition. 672 p. List price \$49.95. Available 12/20/16.

Order #6017 \$44.95

WORLDWIDE LISTENING GUIDE

By J. Figliozzi.

Modeled on the author's popular *Worldwide Shortwave Listening Guide*, this new 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 7th Ed. 160 p. ©2015.

Order #2861 \$23.95

PIRATE RADIO ANNUAL 2015-16

By A. Yoder. Pirate radio is alive, well and offers a tremendous range of programming. The author introduces the topic, provides insights on tuning and QSLing pirates and provides an extensive review of pirate activity for the previous year, covering domestic and international pirate stations heard in N. America. Includes an amazing audio CD of 92 pirate stations! ©2016 Cabinet 230 p.

Order #6555 \$16.95

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 UR/R, 800 p.

Order #0004 \$49.95

SHORTWAVE RECEIVERS PAST & PRESENT



Universal Radio, Inc.
6830 Americana Pkwy.
Reynoldsburg, OH 43068
800 431-3939 **Orders & Prices**
614 866-4267 **Information**
614 866-2339 **FAX**
dx@universal-radio.com
www.universal-radio.com

www.universal-radio.com

Please stop by for a look. We offer a wide selection of new and used shortwave equipment, antennas and books.

UNIVERSAL BUYS RADIOS

Call, email or write and tell us what you have to sell. We can provide a quote, subject to inspection.

2017 CATALOG

Call or email us today to request your free 128 page catalog!

Quality Communications Equipment Since 1942

Prices and specs are subject to change. Prices shown are after mfg's. coupons. Returns are subject to a 15% restock fee.

+ U.S.A. flat-rate shipping: Under \$50=\$5.95, \$50-\$100=\$8.95, \$100-\$500=\$9.95, \$500-\$1000=\$14.95. Except Alaska, Hawaii and Puerto Rico.

N4AA Notes

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

This month's edition of *The Journal* hits the streets while we are in Plymouth Meeting enjoying the Winter SWL Festival with the big 30th annual celebration event including the extra day that was tacked on to help with the festivities. Consequently, reports about what happened will have to appear next month.

This month's cover – prepared by **John Herkimer** – features an assortment of Radio Japan memorabilia. Although no longer broadcasting to North America, NHK Radio can still be heard via various relay stations as well as from Yamata transmitting station.

Congratulations to those who participated and placed in the recent North American DX Contest. The winner was *Flashsheet* editor **Mark Taylor** (4,345.76 points) with long time member **Errol Urbelis** (3,813.55 points) finishing in second place. Club members **Carolyn Lysandrou** (3,593.11 points), **Steven C. Wood** (2,325.61 points) and **John M. Fisher** (2,014.53 points) rounded out the top five. Congratulations to each of you for a job well done. The final standing are as follows: Mark Taylor (first place), Errol Urbelis (second place), Carolyn Lysandrou (third place), followed by Steven C. Wood, John M. Fisher (MA), **Anthony Congram**, **Harold Woering**, **Troy Riedel**, **Gene Purdum** and **Ed McCorry**. Thanks to former member **John P. Cooper** who organized the event and Universal Radio which donated the prizes to the top three finishers. Club members that participated please feel free to send **Jerry Lineback** a little musing and also offer your opinion about this year's contest and a possible contest next year. Those that didn't participate, we would like to hear your opinions too. Send them to Jerry Lineback (jalinebk@gmail.com), 3581 Sunview Drive, Paradise, CA 95969-8106.

Also this month, British DX Club is pleased to announce the publication of the 2017 – the 26th edition – of *Radio Stations in the UK & Ireland*, which the club has been producing regularly since 1978. Full details about its availability can be found at <http://www.bdx.org.uk/rsuk.html>.

Although the Danish Shortwave Club International has closed its doors, **Anker Petersen** plans to release an updated *Domestic Band Survey* free of charge to all those shortwave radio listeners interested in the tropical bands and domestic stations. The 19th edition will be released later this month or early next month with an April 2017 cover date. It can be downloaded – free of charge – from the following website: www.dswci.org. This year's cover features a Tahitian dance to Bora Bora drums at Polynesian Cultural Center in Hawaii. The monthly *Tropical Bands Monitors* can also be found here, free of charge!

As the DX season continues to move on, please remember to report what you are hearing and experiencing to our editors. Your reports are what make *The Journal* important. Please don't forget that our monthly print bulletin depends on active member contributions to keep it alive, relevant and healthy. So as you tune the shortwave broadcast bands remember our editors and fellow members. Please send in your contributions. Thanks!


Here is a reminder from *Kari Kivekäs* send the following on behalf of *Risto Vähäkainu* and the Finnish DX Association: "We also have the pleasure of inviting all DXers and shortwave listeners to join the jubilee European DX Conference to be held in Tampere, Finland on 18-20 August 2017. It is time to celebrate, as this year is Finland's cen-

Unity and Friendship

ennial and The European DX Council will have its 50th anniversary. The meeting will be organized by The Finnish DX Association (soon to be 60 years) and Tampereen DX-Kuuntelijat (local DX club celebrating its 50th anniversary). We will follow our tradition of successful EDXC conferences held in Finland in 1971, 1987, 1992, 2002 and 2008. So it will be three days of lots of program, lots of events and lots of fun. We plan to open the website of this conference during January. The website will be set to be a part of the FDXA website www.sdxl.fi and when the conference site is open, a link "EDXC Conference 2017" will be found on the main page. The conference will start on Friday afternoon 18th of August and end on Sunday afternoon 20th of August. This time of summer is not anymore high-season in Finland, so if you like, you should be able to book extra nights pretty easily and with reasonable prices. Also a post-conference tour is planned. This would last a few days and the target would be Finnish Lapland including visits to the well-known LEM and AIH DX sites and also possibly including a visit to Nordkapp (the northernmost point of the European continent). If you are interested in joining this tour, please don't make any flight bookings yet. The conference organizing committee has been set. The committee chairman is Risto Vähäkainu. You are welcome to address your special questions to rv@sdxl.org. Hoping to see many of you in Tampere next summer! Risto Vähäkainu, FDXA."

Finally, don't forget about Teak Publishing's recently released *Winter 2016-2017 Interna-*

tional Shortwave Broadcast Guide (ISWBG) electronic book written by **Gayle Van Horn**. This semi-annual information resource is your electronic guide to the world of shortwave radio listening. The ISWBG is an exclusive 24-hour station/frequency guide to all of the known longwave, selected mediumwave and shortwave radio stations currently broadcasting at time of publication. New in this 7th edition of the ISWBG is an Introduction to News and Entertainment Programming on Shortwave Radio by *Spectrum Monitor* columnist **Fred Waterer**; a feature on Online Radio: The crossroads of old and new technology by former *Monitoring Times* columnist **Loyd Van Horn**; and comprehensive radio listeners Crash Course on Shortwave Radio Propagation by **Tomas Hood**, contributing editor to *CQ* magazine and *Spectrum Monitor* columnist. The International Shortwave Broadcast Guide (Winter 2016-2017 edition) is available for purchase worldwide from Amazon.com at <http://www.amazon.com/dp/B01N2RRXV2>. The price for this latest edition is US\$7.99. Since this book is being released internationally, Amazon customers in the United Kingdom, Germany, France Spain, Italy, Japan, India, Canada, Brazil, Mexico and Australia can order this electronic book (e-Book) from Amazon websites directly servicing these countries. All other countries can use the regular Amazon.com website.

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

Musings

Jerry Lineback • 3581 Sunview Dr. • Paradise, CA 95969-8106 • jalinebk@gmail.com

Please e-mail musings as MS Word attachments to jalinebk@gmail.com or mail to 3581 Sunview Dr., Paradise, CA 95969-8106. Next deadline is March 22, 2017.

Richard A. D'Angelo <rdangelo3@aol.com>, 2216 Burkey Drive, Wyomissing, PA 19610
Our third and final DXpedition to French Creek State Park was held January 29, 30 and 31, 2017. The weather was seasonable cool but the ground was clear making antenna work relatively simple. A few snow flurries visited us from time-to-time but no accumulation. I was the first to arrive and was essentially unpacked as Dave Reitz pulled in. Shortly

thereafter Dan Robinson and Ed Mauger arrived. It was several hours later before Rich Cuff arrived to round out our cabin grouping. We had a visit from FEST regular Bruce Sherman who was visiting relatives in the area. Conditions appeared to be good with several Africans such as Radio Nigeria (7255 kHz), Radio Fana (6110 kHz) and Zambia (5915 kHz) making appearances. Angola on 4949.7 kHz was knocking down the door with a terrific signal. African excitement kick up again with Zambia's Fish eagle interval signal on 5915 kHz at 0248 followed by Voice of Tigray Revolution's interval signal on 5950 kHz a few minutes later. Channel Africa with English on 3345 kHz // to much better 6155 kHz and TWR Swaziland on 4340 kHz were also heard. Africa continued strong as Zanzibar, Fana/Ethiopia, Hargeisa and Swaziland all made appearances.

The following morning saw the three regional Northern Territory stations probably for the last time. Not a whole lot of activity but since I had a bad night's sleep I tuned in early for some much needed rest. Things picked up in the early afternoon as we finally resolved some noise problems which were making listening difficult. We saw some snow flurries during the afternoon on several occasions but fortunately nothing accumulated. However, the last snow did stay on the ground which seemed to enhance reception conditions somewhat while leaving a dusting on the transportation. The late afternoon saw great reception from the Voice of Hope in Zambia on 6,065 kHz and later on 4,965 kHz. Dan sent an e-mail message to their studio address while they were on the air hoping for a response but nothing materialized. After Voice of Hope closed down he heard from Ray Robinson in California who promised to pass along the message. VL8A-Alice Springs poked through briefly making it the final appearance before this service was terminated a few hours later. PBS Qinghai on 5,990 kHz signed on at 2250 UTC in the Tibetan language but, unfortunately, was blown away by China Radio International at 2300 when English out of Cuba opened on the same channel.

The evening pasta meal was terrific with the gang hanging around the table for several hours enjoying the conversation, recapping the DXpeditions main events and taking about the upcoming Winter SWL Festival. Consequently, not much evening DXing took place as we headed to the dials at 0230 UTC to see what, if anything, was audible. The highlight of the evening was Radio Hargeisa on 7,120 kHz with a very good signal at 0344 UTC (the prior evening the signal was marginal). Things deteriorated somewhat after 0400 UTC but this was a nice reception of this elusive station.

The final morning session had nice reception from Asia with several Chinese regionals making it through the atmosphere. The highlight was the familiar seven gongs of Lao National Radio at 1200 UTC on 6,130 kHz. It has been years since these guys were last heard at one of our outings. The Korean on 2,850 kHz made an appearance with operatic vocals cutting through the atmosphere. English news from Radio Thailand at 1230 UTC on 9,390 kHz followed by Reach Beyond, Australia's remaining international voice, closed out this DXpedition. Antenna dismantling, never a fun project, went reasonably quickly even with light snow cover making the leaves up the back hill somewhat slippery. All in all the propagation conditions for this outing far exceeded the previous experience this DX season although Latin America continues to be missing from the shortwave bands.

Bill Tilford, Chicago, IL


Beginning Thursday, March 2, I will be starting a new half-hour radio program, Uncle Bill's Melting Pot, which will air on WBCQ, 7490 KHz, every Thursday from 7-7:30pm Eastern US (UTC will change to follow time in Eastern US).

This will be a little bit of everything off the beaten path - Polkas, Klezmer, Eastern European, Western Swing, Novelty/Comedy, Bluegrass, Norteño etc etc etc and will span the 78 era to the now. Unlike my other program, From the Isle of Music, where listeners are told what they can expect each week, this one will be a mystery box.

If you like to listen to the musical version of the kitchen sink, I think you will enjoy this very much. If you don't like that much variety, run, run as fast as you can...

Ronald Sives, 1126 S. 9th St., S. Plainfield, NJ 07080


In the February Journal, it is stated that there has been a decrease in the number of loggings submitted. Well, you can't say I didn't try. I sent in at least 30 loggings over the past few months, albeit on paper through snail mail. But every single one was chopped down to a one-liner. Most of the dates were missing, none has a SINFO rating, and most programming notes were omitted. Other contributor's loggings include significant technical and programming information, even opinion. Now, I can't devote a lot of time to this hobby yet, and I'm not the high-tech type, Hell, I'm still using a flip phone. But, I tried to do my part. Now, I don't know if I have the motivation to submit more loggings; after all, what could you learn from mine?

Editor's comment: Most submissions to the Journal these days are via e-mail in formats that editors can cut and paste in their entirety into their document. Hand written or paper submissions require editors to retype the information. In this editor's opinion, editors should value the contributions of those who are not able to utilize electronic submittal, even if it requires a little more effort. 

NASWA 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.

NASWA Yahoo Group

Join moderator **Dan Ferguson**, the club's Yahoo 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 <http://groups.yahoo.com/group/NASWA/>. Any club members wishing to participate in the NASWA Yahoo Group, moderated by Dan Ferguson (k4voa@zerobeat.org), but not interested in registering direct with Yahoo should contact Dan direct by e-mail for further information. Dan can manually add you to the group. 

International Broadcasting

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

Emptiness on 9580 kHz

The 9580 kHz frequency sounds eerily quiet (except for local noise) and empty during our mornings. For me, Radio Australia was there, reliably, almost every morning since the 1960s (although I think it was on 9590 back then). It's like the loss of an old relative.

If you haven't seen it yet, see this video of retired Radio Australia transmission manager Nigel Holmes turning off the last transmitter: youtu.be/PKUsl7PZNR4

Starting in November 2016, I tried several times, without success, to get an Australian newspaper to publish my op-ed about Australia and shortwave. If the *NASWA Journal* will take it, here it is ...

In the 1960s, when I began listening to shortwave radio as a teenager in Indiana, one of the first stations I heard was Radio Australia. Its Waltzing Matilda music box tuning signal filled my room. This morning, in Virginia, I heard Radio Australia, same time, same frequency, same big signal as 50 years ago.

And so it was with great sadness that I read about the Australian Broadcasting Corporation's plan to shut down domestic and international shortwave broadcasts at the end of January.

The news was not unexpected. We in the USA can now use the Internet to hear Radio Australia, the domestic ABC radio networks, and commercial Australian radio stations. There is, however, something very special about receiving Radio Australia through the air, its signal refracted off the ionosphere a few times during its 16000-kilometre hurtle to eastern North America.

Shortwave propagation is nature's own global telecommunications system. The Heaviside Layer was there millions of years before humans knew what to do with it.

Interdicted Internet

As an audience research analyst for the Voice of America (our version of Radio Australia) for the past 32 years, I am well aware that audiences for international broadcasting have largely migrated to satellite television and to the Internet. Satellite broadcasting, however, can be jammed. And an increasing number of countries are finding more and more ways to interdict Internet traffic.

Shortwave radio can also be jammed, but not easily. It is the physics of shortwave that signals from distant places, e.g. Shepparton, Victoria, are more easily received than nearer signals, e.g. jamming transmitters inside an authoritarian country.

Although shortwave radio is an old technology, new things can be done with it. In 2013, I participated in an experiment on Radio Australia. Using existing shortwave transmitters near Shepparton, we broadcast strange sounding tones. These could be received on any shortwave radio, including cheap portables. The audio was patched to personal computers or mobile devices, where free software converted the tones to text and images. Listeners throughout the world successfully received text in marginal reception conditions, where conventional voice broadcasts would be difficult to comprehend.

This new trick with shortwave could come in handy someday. China has demonstrated that it can shoot satellites out of orbit. Undersea cables have been disrupted by earthquakes and have been stalked by Russian submarines.

Australia might want to keep some shortwave capability for future crises and emergencies. The best way to keep shortwave transmitters in working order is to keep them on the air.

Information about the Radio Australia text and image transmissions: bit.ly/2lPQUZs bit.ly/2kWjB0z

Protests and political action ... about shortwave!

The following is from the Australian website radioinfo, bit.ly/2lPMFwN ...

It was on January 31st the ABC ended its shortwave transmission service in the Northern Territory and to international audiences.

Yesterday a coalition of protesters gathered outside the ABC headquarters in Ultimo to protest restructure plans by new Managing Director Michelle Guthrie, including ending shortwave transmission.

Members of the Community and Public Sector Union (CPSU), Hands off Radio National Music and ABC Friends say a range of management decisions have created a crisis at the national broadcaster, telling radioinfo that recent decisions demonstrate how out of touch the ABC Executive has become.

Among the speakers yesterday was ABC Friends NSW President Mal Hewitt who spoke about the impact the shortwave closure is having on local communities, but not before outling a list of people that rely on it.

- Tour operators and passengers virtually over the whole of the north of Australia.
- Aboriginal Sea Rangers who work right around the top end.
- Fisherman both commercial and indigenous.

- Stock camps always on the move.
- Cattle Stations.
- Truckies.
- Grey Nomads – there are clusters of them around their FM receivers on a Saturday afternoon listening to the footy.
- Road construction workers
- Miners and prospectors ever the oil rigs off the north west coast take short wave.
- Tradesman on the road...

"PNG, Solomons, Fiji, Vanuatu – on all those island nations people listen to radio Australia on shortwave, it's where they get their world information and it's where they get their emergency information from.

"During the Fijian coup, Fiji media was closed down but they still had good ol' Australian shortwave they could receive, but that's gone.

"Most of those pacific nations have protested to Julie Bishop's office but Julie Bishop's office supported the cut off of short wave radio to the Pacific. So where will they get their information from? The new giant China. They will get their information on English language broadcast from China."

South Australian senator Nick Xenophon says he will introduce legislation to Parliament to force the ABC to reinstate its shortwave radio service.

While Bill Shorten wrote to the Prime Minister on Australia Day, calling on the Turnbull government to intervene. (End radioinfo segment.)

Views expressed are my own. See voaradiogram.net and www.kimandrewelliott.com.

Shortwave Center

John Figliozzi • 45 Algonquin Road • Clifton Park, NY 12065 • jfiglio1@nycap.rr.com

SHORTWAVE HISTORY

1. Retro Review: Eddystone 670

By Craig Seager

(reprinted courtesy of the *Australian Radio DX Club*)

Have you ever been under a misapprehension for several years, and then suddenly, after surprisingly little research, come crashing to earth with a thud? So it was with my **Eddystone 670**, which I gleefully picked up at a HRSA Sydney branch meeting for what I thought was a good price. Only thing is, at the time I thought it was something else entirely!

The dial glass at the front proudly announced that it was a model 659, sometimes known as a "Plantation" set, and on more than one occasion I'm sure that I had quipped to visitors to my shack that such radios probably sat in the parlour of some colonial tea growing property in Africa or Asia, with its owner sitting in a rocking chair, resplendent in pith helmet and white safari suit, rattan ceiling fan whirring overhead. Ah, the romance of it—king, empire and the faint sound of something screeching in the adjacent jungle.

But alas, seems the folk at Stratton & Co., manufacturers of **Eddystone** radios, simply re-used the same dial glass on the more common Model 670, which was promoted as a marine receiver. I can be forgiven for getting it wrong – the 659 did look very similar, though was intended to be less mobile – and sometimes shipped with a large cabinet speaker.

Sometimes advertised as "the Ships Cabin Radio", the 670 is a 7-valve set (the 659 was 8 valve, boasting a noise limiter and magic eye tuning), and was manufactured post-war until the mid-1950s. Later, the 670A was

released, containing 6 valves, and with a slide rule display rather than the aero look.

It seems incredible that a person taking a sea voyage would contemplate packing something so bulky for the journey, but a ship's cabin receiver is exactly what the 670 was sold as, and the four ranges covering 520-30000 kHz catered for the long periods that a seafarer would be away from local transmitters. I doubt many were seen beyond the first-class section, or alternatively, the cabins of senior officers on the ship.

In addition to the prominent display, the front of the receiver has a 5-position band-change switch (the 5th – "G" is for gramophone input), volume, tone/on-off and tuning. The rear panel has antenna, earth and a voltage selector (110/200/230V), plus the pickup input earlier referenced.

The circuit design is single conversion, with I.F. at 450 kHz – and some parts are "tropicalized" so that the set can be used in humid and other harsh environments. One of the accessories sold for the 670 was a webbing strap (P/N SKH42), which was designed to stop the receiver sliding off the table in heavy weather! The output stage is a push-pull methodology, suitable for driving an external speaker or headphones.

Other accessories available included a 4.5-inch pillow speaker, made of Bakelite, which I reckon would have absolutely no give in it and accordingly could bestow a royal headache on an unsuspecting user. Additionally, **Eddystone** sold a doublet aerial, designed to minimize electrical noise from the ship, and a mains filter with similar intent.

One of the great attributes of **Eddystone** receivers is the silky smooth tuning mecha-

nisms, gear-drive flywheel arrangements that feature on even their lower end sets. (See the earlier Retro Review of the S870A in ADXN—Australian DX News—July 2014). The 670 is no exception, and there is none of the “plastic fantastic” that one might see on a more modern radio.

Those hoping to service many of the **Eddystone** models will be gripped with fear – and for good reason. Quite a few are AC/DC sets, and hence have a “live” chassis underneath the outside cover. Even experienced technicians get caught with this, and occasionally experience the proverbial “bolt from the blue”. A large ballast resistor and no power transformer are the key visual giveaways. Don’t let this be you; extreme caution is

advised! The AC/DC flexibility was of course designed to cover a number of circumstances, from shipboard to home operation.

Beyond that, the service manual contains detailed alignment procedures, and it is likely that a used example will need a bit of tweaking to get it operating to optimum levels (you will need a signal generator, and for safety an isolation transformer). Oh, and it is worth replacing the paper capacitors and electrolytics, on suspicion.

Eddystone was eventually absorbed into the **Marconi** company, but left a legacy of fine equipment, some of which is found on the used market at affordable prices.

2. AFRTS — The Brass Button Broadcasters

September 17, 2014

By Dan Slentz

(reprinted courtesy of *Radio World* magazine)

I frequently exchange interesting websites with my old and new friends in radio and TV. Some sites might be broadcast related or a link to a great old video, while others might be a link to really cool new technology.

I had the honor to serve in the U.S. Air Force in what could be said to be the easiest and the most fun job in the military. The **American Forces Radio & TV Service** (aka Armed Forces Radio & TV Service or **AFRTS**) has been around since WWII (1942) as a way of bringing a “touch of home” to the men and women in the U.S. armed forces (all branches). There are civilians in **AFRTS** and some commissioned officers, but it’s mostly made up of enlisted members of the Air Force, Army, Navy & Marines. A book was even written about this unique “military job” called *“Brass Button Broadcasters,”* by Trent Christman (Turner, 1992).

Since **AFRTS** has such a long history (and a history that geographically spans the entire globe), it was hard to keep this at just a couple of links.

Twenty five years ago, when I worked for **AFRTS**, it was broken up to identify regions and included **AFN** (Armed Forces Network), which was based in Germany; **FEN** (Far East Network), based in Japan; **EBS** (European Broadcast Squadron) broadcasting from Spain and Turkey; **AFKN** (Armed Forces Korean Network); **AFVN** (Armed Forces Vietnam Network); **SEB** (Southern European Broadcasting) in Italy, and others. Now **AFN**, **SEB**, **EBS**, **AFKN**, etc., are all under the umbrella name of “**AFN**” or **American Forces Network**. The “network affiliation” is still **AFRTS** or **Armed Forces Radio & Television Service**. Of interest to note is that the U.S. is not alone with “brass button broadcasters” as other countries have similar resources for their military members to “keep them closer to home.”

Until this century (the 2000s) **AFRTS** stations were similar to a small hometown radio/TV station. Often this included an AM, FM and/or TV station. Where some countries prohibited certain forms of OTA (over-the-air) broadcasting, **AFRTS** stations used cable. For instance, the station I worked for at Torrejon Air Base (in Spain) was permitted one FM OTA station, so we had cable TV channels and a cable FM channel to supplement our broadcast. Towards the end of this outlet (as the U.S. Air Force left this base), **EBS**

(**European Broadcast Squadron**) included 100.2 FM (OTA), and a cable FM (using a BE Control 16 automation system), plus cable Channel 2 and cable Channel 5 (NTSC). Later we added three PAL channels to the upper VHF cable band. But today's **AFRTS** (or **AFN**) includes many more channels via automation and satellite delivery, plus a multitude of web-streamed audio channels.

The official **AFN** site [<http://myafn.dodmedia.osd.mil>] is a military site. You'll get a good idea of programming by visiting that link. The interesting thing about **AFRTS** is that it was a combination of the best of all the TV networks. There was no separation or identification of an **ABC** show from an **NBC**, **CBS** or **Fox** show (and now the plethora of other networks and program providers).

And if you'd like a look inside their BC (or Broadcast Center as they referred to it), which would be the originating location and distribution arm of their program content, photographer Lance Cheung (ex-military himself) has taken some stylized photos of the Broadcast Center.

Besides being a distribution network, **AFRTS** also spends a lot of time in audio content creation (especially during the early years of World War II and through Korea).

All the military broadcasters attend a school known as DINFOS (Defense INFORMATION School) for their training. When I attended, it was a "three-phase" course with public affairs, radio and TV but I understand (from a friend who now teaches at DINFOS) that they've added still photography, maintenance and other courses to the curriculum after military base consolidation such down other operations such as the broadcast engineer course which had been at Lowry AFB in Colorado for many years. Here's a bonus link to the DINFOS school alumni website [dinfos.net] (sadly on hiatus).

I mentioned that I felt that working for **AFRTS** was the most fun job in the military and I stand by what I say. But as much fun as the job itself might be, there is a very real danger by the nature of "the employer" in this case actually being the military.

AFVN — Vietnam

Most people have seen "Good Morning, Vietnam" and have an idea of **AFVN** from that movie, but incredibly, young 1st Lt. Steve Wiltzie filmed his **AFRTS** (**AFVN**) stations while serving in Vietnam. He's placed the footage on You Tube and added narration. I found this an incredible "time capsule" of what things were like for military broadcasters in Vietnam. This 36-minute film footage and narration were absolutely captivating.

From reader Doug Jennings, **AFVN** 1970-71, **AFN**-Munich 1971-72, this link might be of interest, as it's the official **AFVN** website [afvnavets.net]. Jim White, MSG, **AFVN** Admin NCO, 1970-71, has done an excellent job of pulling together many sources of audio, video, pictures and more documenting the history of the network "*Serving the American Fighting Man 24 Hours a Day From The Delta to The DMZ.*"

If you'd like to hear the originator of "Gooooooooooooo morning, Vietnam," you'll enjoy the very first audio file. There's a lot of interesting info here to explore. For instance, a great story on how Pat Sajak (real name is Sadjak) was a military accounting clerk who was recruited for **AFVN**. Be sure to look under "**AFVN** Roster."

Armed Forces TV had its share of celebrities too. Here's an entertaining video about Bobbie the Weather Girl. [<https://www.youtube.com/watch?v=Pzmv-dMc2vE>] It's very interesting to see what our own military aired as entertainment to our troops during Vietnam. It's a great 40-minute film — including a clip of Bob Hope and a young Raquel Welch, in go-go boots, dancing up a storm at a USO show.

AFTN — Thailand

Over the years we've lost military broadcasters to accidents and war, but one of the most notable may have been what occurred at Udorn Air Base in Thailand back in April of 1970. The station, part of **AFTN** or **Armed Forces Thailand Network**, had about a dozen staff members and 10 were working

the day an F-4 returning from North Vietnam with battle damage crashed into the station killing nine (reports indicated all but a civilian employee, a janitor, who was able to run out of the building though he was badly burned).

Here is a direct link to information regarding the accident. [<http://www.aftn.net/AFTN/NetworkHistory/Contents2.htm>] And a here's link to photos from the AFTN Udorn crash (note that these are graphic and depict the tragedy visually). [<http://bobwertzcm.tripod.com/AFTN/AFTN/crash/index.html>]

AFN — Today

Like military still photographers of WWII, AFRTS broadcasters (photojournalists) also see/record the destruction of war. At DINFOS (Defense INFORMATION School) there is a memorial to the members of AFRTS who have been lost over the years. It's called "The Hall of Heroes" with over 100 names of those who lost their lives serving in the military with AFRTS.

Here's a link to a great web site for AFRTS history. [<http://afrtsarchive.blogspot.com>]

Here's the **AFN Europe** link. [afneurope.net] Note that their streaming audio is blocked outside the area intended for broadcast, which basically means inaccessible in the continental U.S. This link will give you an idea of their programming today from a viewer/listener's point of view.

And should any of this information entice anyone interested in working for AFRTS (and joining the military), here's a link to the information guide DINFOS and the training. [<https://www.slideshare.net/DINFOS/dinfos-information-guidefy12>]

On a personal note (and certainly not to knock the other branches), I served in the U.S. Air Force and quickly learned (and appreciated) one interesting difference between the other branches of the military concerning the job of "broadcaster" and

"broadcast engineer." While the jobs extend across all branches, I learned that if you are a Navy broadcaster (on a ship), if you go to battle, you shut down the station and either become a munitions person or fireman or whatever you are supposed to do. That certainly makes sense since no one is going to be watching or listening if the ship is in battle. In the Marines and Army, you grab a weapon because you're a soldier or Marine first, broadcaster or engineer second.

But in the Air Force (at least back in 1986-90 when I was in), if something happens (like we go to war), you continue to broadcast and do what you were trained to do. We even practiced everything from master control TV operations to being on-the-air (DJ) in full chemical warfare gear (masks, rubber suits, gloves ... the whole nine yards!). Just thought I'd point that out since it made me appreciate being a broadcaster (the career code was 791X1 back in my day) with the Air Force over the other branches since I'd probably shoot myself in the foot if someone let me hold a weapon. It was probably different for the brave men and women who worked for at stations "in harm's way" during wartime.

Not to sound like a recruiter, but I can promise that the military training for broadcasters and engineers is probably the best training anywhere in the world (certainly the best FREE training) for broadcasting and broadcast engineering. My broadcast engineering friends were some of the best engineers I've ever known!

And finally ...

Here's a link to The Mind Unleashed website. This page is called "12 Dozen Places to Educate Yourself Online for Free." [<http://themindunleashed.com/2014/07/12-dozen-places-educate-online-free.html>] Continuing education, especially in the field of communications (radio, TV and IT) is imperative to staying on top of the work we do. The MIT OpenCourseWare is an excellent resource. And free is always good.

Is Broadcast Radio Doomed?

By James Careless, 04/11/2016

LONDON — Conventional radio and television broadcasting are doomed, eventually. Or so one might reasonably assume from reading “*British, Bold, Creative*,” the BBC’s broadcast charter proposal for the next decade of its mandate. The BBC’s 10-year broadcast charter is up for renewal in 2016. The proposal is the Beeb’s funding pitch to Parliament. To be sure, the **BBC** didn’t use the word doomed, or put a timetable on it. However, over the next 10 years, “We will be moving to an Internet-fit **BBC**, to be ready for an Internet-only world whenever it comes,” states the **BBC** proposal. The only limiting factor will be to “move at the pace of our audiences”; ensuring that older subscribers have access to content on radio and TV as long as they need it.

Subsequent to issuing this proposal, the BBC announced that it is reorganizing its internal divisions along content rather than platform lines. For instance, “Each overarching division would have subsidiary divisions such as **BBC Youth**, a mooted subdivision of **BBC Entertainment**, which would include the online channel **BBC Three**, and pop music station **Radio 1**,” reported *The Telegraph* newspaper.

Having a respected broadcast institution like the **BBC** speak of an “Internet-only world” as a certainty is enough to give radio broadcasters pause. Is their over-the-air transmission medium doomed? To find out, and to put the shifting relationship between radio broadcasting and the Web/mobile into context, we spoke with the **BBC**, Australia’s **ABC Radio**, the national U.K. DAB station **Fun Kids**, and Finland’s *Nelonen Media*, maker of the *Supla* radio/audio streaming app.

A Multiplatform Landscape

The BBC currently reaches big audiences via over-the-air radio broadcasting. For

instance, “**BBC Radio 1** has a reach of 11.36 million listeners a week and we reach 40 percent of 15- to 24-year olds in the U.K.,” said Rhys Hughes, *Radio 1* and *1Xtra*’s Head of Programs.

That said, *Radio 1*’s YouTube channel receives an average of 1.25 million views a day, while *Radio 1*’s online iPlayer channel receives over 1.4 million requests per month. So when it comes to overall reach, Web/mobile is a big part of *Radio 1*’s distribution strategy — and growing in significance.

“FM and DAB are still very important — around 65 percent of *Radio 1*’s listening is on FM — but there is no question that the Web is an increasingly important tool for distributing our content,” Davies said.

“The phrase we use is ‘you have to fish where the fish are’ and young audiences are online, so we are too,” he added. “Whether it’s YouTube, streaming services like *Spotify*, or social media, *Radio 1* has a presence. The mantra is ‘Right Content, Right Platform, Right Time.’”

Australia’s **ABC Radio** also sees a growing role for Web/mobile distribution; even beyond its launching of the Internet-only service *ABC Classic 2* (which features 100 percent Australian classical artists and performers). “As well as linear and digital platforms, all national, digital, online and capital city stations are streamed via radio. abc.net.au and via the *ABC Radio* app, which offers a range of user options including the ability to share on Facebook, Twitter or via email,” said Linda Bracken, **ABC Radio**’s head of Content & Digital Strategy.

“The app includes a voiceover element developed in consultation with *Vision Australia* and ensures best practice accessibility for people without sight. There are also individual apps for youth networks *triple j* and *triple j unearthed*.”

Clearly, both the **BBC** and **ABC** have embraced the Internet in all its forms as a distribution platform of growing importance. But despite the **BBC's** broadcast charter proposal predicting an "Internet-only world," neither broadcaster is buying flowers for broadcast radio's grave quite yet.

A case in point: Although Davies expects **BBC's** audience ratio (between broadcasting and streaming) to be "approaching 50/50" in five years' time, "conventional broadcasting is not doomed," he declared. "People said radio was over with the birth of television, but radio has remained a vital medium. The change has been that you cannot just provide a linear radio station, you need a visual strategy and a social media strategy; like *Radio 1's* 'Listen, Watch, Share.'"

Maybe Not As Doomed

ABC Radio's Linda Bracken is similarly skeptical about radio's projected demise. "The tyranny of distance in Australia means that an AM transmitter has the capability to stretch thousands of kilometers across remote terrain, so we still see conventional broadcasting as a very important part of our strategy," she said. "A real strength of the **ABC** local radio network is in providing emergency broadcasting. In times of bushfire or floods, traditional broadcasting is still very important."

At the same time, Bracken echoes Davies' warning that "business as usual" for broadcast radio is no longer adequate. "Now we take a holistic multiplatform approach," she explained. "You can listen to the live radio coverage and get updates on our Websites and on social media from both our local stations and also the emergency services."

Fun Kids' Station Manager Matt Deegan also believes in the importance of terrestrial broadcasting; in this case via **DAB**, because *Fun Kids* has never been on either AM/MW or FM. "I am consistently shocked how low our Internet listening is. We think it's well below 10 percent of our total," Deegan said. "We are in a great market— there aren't loads of radio stations for kids —we're on

all of the aggregators, and we're in the successful UK Radio Player.

But there is absolutely no way we could run the station with this level of content, relying on our Internet listening alone."

Even Johannes Saukko, *Nelonen Media's* digital manager (radio), says that broadcast radio will still play a role in the years to come; despite the *Supla* app maker's belief that "the future of radio is in portable [smartphone] or wearable devices and in connected cars." Even with this march away from broadcasting, "traditional FM radio in 2021 will still be bigger [than streaming] in terms of reach; especially among the older demographics," Saukko said.

In the current transitional environment, it is impossible to see just where broadcast radio will be in 10 and 20 years' time. The **BBC's** prediction of an inevitable "Internet-only world" notwithstanding, there are still many parts of the Third World where one-way radio broadcasts remain the only economical, effective way to reach mass audiences; no matter what advances are being made in 4G-and-beyond smartphones in the First World.

Add broadcast radio's resiliency in the face of natural and manmade disasters — compared to the frequent overloading and failure of cellular telephone networks during such incidents — and the notion of shutting down broadcast lifelines seems unlikely in these regions.

That said, there is no doubt that content, rather than specific delivery platforms, is becoming the defining factor for radio broadcasters big and small. So although broadcast radio seems likely to endure in an increasingly Web/mobile-dominated distribution future, what role it will play is impossible to predict. "The speed of change is very hard to estimate," Saukko observed. "The only thing that is sure is that change is on the way."

James Careless reports on the industry for **Radio World** from Ottawa, Ontario.

Items from the Association for International Broadcasting (AIB)

1. Radio goes from strength to strength

In the year since the last World Radio Day - marked on 13 February - the global radio industry has gone from strength to strength, says the Association for International Broadcasting.

Some estimates suggest that today there are over 44,000 radio stations - large, medium and small - all over the world. It is believed that 75% of the planet's population - about 5.6 billion people - listen to radio every week. That's an impressive number and shows that radio, in all its forms, remains an important medium.

The AIB monitors developments in all sectors of the media industry, and notes the vibrancy of today's radio industry. There continues to be remarkable innovation in the sector. New initiatives, such as [radio garden], have become viral internet sensations. Voice controlled devices, like Amazon's Echo, place radio from around the world at the center of people's homes.

World Radio Day 2017 marked the official launch of the "dot radio" top level domain that will allow radio broadcasters to harness the power of, and be more easily recognized on, the internet.

2. RNZI Remains the Essential Voice of the Pacific

Radio New Zealand International (RNZI) continues to serve people across the Pacific region, delivering essential day-to-day news and information and providing a vital lifeline in times of natural disaster.

RNZ CEO, Paul Thompson, has confirmed that there will be no reduction in Radio New Zealand's commitment to its Pacific

broadcast partners. His reassurance comes as Radio Australia closes its international shortwave transmission service to Papua New Guinea and the Pacific.

Paul Thompson has emphasized the importance of RNZI's 25 year relationship with New Zealand's Pacific neighbors.

"Remote parts of Papua New Guinea, Solomon Islands and Vanuatu who may be feeling the loss of the ABC can rest assured RNZI will continue to provide independent, timely and accurate news, information and weather warnings as well as entertainment to its Pacific listeners."

RNZI has been broadcasting since 1990 [*sic - ed.*] to the Pacific and is regarded as the authoritative voice of the Pacific. It can be heard across the region and has proven to be a vital lifeline during times of disaster. In 2007, RNZI was named "International Radio Station of the Year" by the Association for International Broadcasting (AIB).

RNZI broadcasts timely cyclone and tsunami warnings via shortwave and can continue to be heard should local broadcasters go off-air due to a cyclone or other disaster.

Paul Thompson said the essential nature of Radio New Zealand's role in the Pacific has been regularly underlined by the positive feedback to RNZI following cyclone and tsunami alerts.

"A Vanuatu villager has told our reporter Koro'i Hawkins that he knew to take shelter during Cyclone Pam just because of the warnings broadcast on RNZI. At times like this we are the essential voice of the Pacific "

RNZI's coverage of the aftermath of Cyclone Pam in Vanuatu in 2015 won RNZI reporter Koro'i Hawkins a silver medal at the pres-

tigious New York Festival Radio Awards in 2016.

RNZI broadcasts in digital and analogue short wave to radio stations and individual listeners across the Pacific region. Around twenty Pacific radio stations relay **RNZI** material daily, and individual shortwave listeners and internet users across the world tune in directly to **RNZI** content.

The **RNZI** signal can sometimes be heard as far away as Japan, North America, the Middle East and Europe. **RNZI** also provides rich content for online users through its website.

[<http://www.radionz.co.nz/international>]

How to listen to RNZI: [<http://www.radionz.co.nz/international/listen>]

For further information contact:

Walter Zweifel, **RNZI** News Editor +644 474 1432

[walter.zweifel@radionz.co.nz]

Adrian Sainsbury, **RNZI** Technical Manager, +644 474 1430

[adrian.sainsbury@radionz.co.nz]

3. Radio Still Vital for Many RFE/RL Audiences

(WASHINGTON — February 15, 2017) On UNESCO World Radio Day on Feb. 13, **Radio Free Europe/Radio Liberty (RFE/RL)** audiences gave the platform a resounding endorsement as a powerful medium and an indispensable source of information and news.

In an era when television and online media are increasingly dominant, radio continues to play a vital role for half of **RFE/RL**'s 27 million-strong audience. When **RFE/RL** asked listeners in Iran, Pakistan, Afghanistan, Moldova, and Georgia what radio means to them, hundreds of calls, emails, social media messages and SMSs flooded in to its broadcast services.

A female listener of **Radio Mashaal**, which has 800,000 Pashto-speaking listeners in Pakistan's tribal areas along the border with Afghanistan, wrote, "**Radio Mashaal** is like my mother, who gave me knowledge and awareness and taught me humanity."

A listener of **RFE/RL**'s Afghan Service wrote, "I congratulate all the journalists at **Radio Azadi** for upholding its name for 15 years by delivering programs that contribute to our freedom."

One of the 2 million listeners to **Radio Farda**, **RFE/RL**'s service for Iran, said, "It has been 10 years now that **Radio Farda** has been my companion," adding, "it is the only place [where] people are allowed to talk easily and freely... a democratic soul guides **Radio Farda**."

A Georgian sociologist who listens to **Radio Tavisupleba** said, "Radio is alive and we need it," while a civil servant in Moldova wrote of *Radio Europa Libera* that it's "the only place I can get something besides lies and propaganda."

Remarking on the enduring relevance of radio in Central Asia, Umed Babakhanov, the founder of Tajikistan's independent news agency *Asia-Plus*, told an **RFE/RL** podcast that "Since Soviet times radio has always been the most important mass media" in the agrarian societies of Central Asia, where "people in the field cannot watch TV, but they can listen to the radio all day long." He said the role of foreign broadcasters is as important as it was during Soviet era, since it's "almost impossible" to express criticism of the government on domestic-run platforms.

RFE/RL is also marking the one-year anniversary of **Radio Donbas.Realities**, a live, daily one-hour FM broadcast that brings coverage of local and international news stories either ignored or misrepresented by pro-Kremlin media – about infrastructure, education, and the war – to more than 15 cities in Ukraine's war-torn eastern regions of Donetsk and Luhansk.



Listener's Notebook

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

Times are UTC and frequencies in kHz.

AFGHANISTAN Radio Television Afghanistan

1630-1700 daily ME 6100kab in Arabic (add)
1700-1730 daily RUS 6100kab in Russian (add)
(WRTH Update)

ALASKA HAARP Tests, 20 and 21 February: 2700, 3300, 0300-0340. Campaign time! Experiments begin in the mid-morning 19 February Alaska Standard Time (AKST) and continue intermittently through the evening each day through 22 February. (Via Christoph Ratzer-AUT OE2CRM, A-DX ng Feb. 19/TopNews) HAARP on 3.300 hrd here in SoCal starting at 0300 with nice signal - varied (2 sec interval, 1 sec interval, solid) 6 KHz tone patterns and music. 3.3 MHz better quality than 2.8 MHz. SINPO 35333 on 3.3 and 25332 on 2.8 MHz. Using my Wellbrook loop pointed 340 deg towards Alaska. Four series of tones and music lasting for 41.5 minutes, 0300-0341.5. Best series was #3 at SINPO 45333. Series 2 and 4 on 3.3 were similar to SINPO on 2.8 MHz. HAARP 3.300 MHz Feb 20 - Second series of tones started at 0312 - SINPO down to S3 with heavier QSB for this series. Music from 0316... back to tone sequence for 3rd series at 0322. Tone sequence changed at 0324 from longer interval to approx. 1 sec interval. Solid tone after silence at 0325.5 to 0326.5. Weaker tones at 0327 fol by music and anmt by man at 0327.5 with music ending 0331 and carrier off at 0331.5. Last series started at 0332 with approx. 2 sec tones switching to 1 sec tones at 0334 to 0335. Silence then solid tone at 0335.5. Music again at 0337.5 to 0341.5. Carrier off at 0341.5 (Bruce Churchill-CA/DXplorer)

ANGOLA 4949.74, R. Nacional de Angola, on Feb 19, was clearly off the air; 0314 and subsequent checking through 0519. Was very decent today for other African stations (Zambia, Zanzibar, etc.), so not due to poor propagation. (Ron Howard-CA)

AUSTRALIA Radio Australia site a vital link. Recently I heard that the HF radio transmission site at Shepparton, known as Radio Australia, is to be shut down. I believe this is mostly due to budget cuts to the ABC by the Federal Government.

The ABC uses this site to broadcast services into Asia and the Pacific Islands. The site is owned by a private company, Broadcast Australia. The ABC pays Broadcast Australia to use the transmission site at Shepparton, but it does not own the facility. I understand the ABC needs to cut back on some services it provides and make use of the latest technology. This makes sense except in the case of the Shepparton facility. The Shepparton transmission site has the capability to direct radio signals into specific countries as we see fit. This is unique to this site, as no other site can reach the countries this one can. In my time as district manager at the Shepparton site, I recall some instances where the Shepparton site was called upon to direct radio signals to specific targets. At one point the Fiji Government shut down the local Australian ABC transmitter. Shepparton sent radio into that country to keep Australians informed during that time. When there was a coup in the Solomon Islands, once again we sent signals into that country. We also sent radio signals into Myanmar at the request of the Australian Government. Another task that the Shepparton site fulfils is to send signals into northern Australia in times of need, for example during Cyclone Larry when the Northern Territory radio service was beamed back to the tropical north from Shepparton. The Shepparton site is in a location that has good weather and is politically stable. This makes it an ideal tool for widespread information broadcasting. The ABC would argue that this HF radio service is old technology and can be replaced by the internet or satellite services. This is true. However, the ABC and the Federal Government do not control the internet or satellite services in other countries and therefore they are not reliable. HF radio broadcasting from a secure location is very reliable. So why remove this service? Does the Federal Government understand the value of this international radio service? I hope that in writing this letter, its value will become clear to those who have the power to make decisions. The Australian Government is in the position of being 'hands off' the ABC's management of services, and I would agree for every service it provides except this one. Radio Australia Shepparton should be partly controlled by the Australian Government, not just the ABC. I plead that this broadcasting site

remains in service and continues to provide northern Australia and oversees services for Australians home and abroad. You could also argue that long-range radio lets the world know we are here, and gives Australians both in our home country and overseas vital information in times of need. (Gary Baker, former district manager at Radio Australia, Shepparton, Jan 21 via British DX Club ng)

Site off the airwaves. The ABC announced last month that it would stop broadcasting shortwave transmissions in to the Asia Pacific. It helped our troops during World War II and spread impartial news in the Pacific region for decades, but Shepparton's shortwave broadcasting facility's future is uncertain. The ABC announced last month that it would stop broadcasting shortwave transmissions in to the Asia Pacific, putting an end to more than 70 years of continuous shortwave transmissions. Opening in 1944, the transmission site in north Shepparton was first used to spread morale-boosting broadcasts to troops in the Pacific and, after the war it was the grunt that helped push ABC's Radio Australia broadcast beyond our shores. The final Radio Australia shortwave broadcast will go out on Tuesday, January 31, in a decision the ABC said was about moving away from outdated technologies. "Savings realised through decommissioning this service will be reinvested in a more robust FM transmitter network and an expanded content offering for the region that will include English and in-language audio content," an ABC spokesperson said. International listeners will still be able to listen to Radio Australia through a web stream. Just what the shutdown means for the broadcast towers beyond January 31 was still uncertain. When asked by The News, the ABC said the towers were in the ownership of Broadcast Australia, which was part of BAI Communications. A spokesperson for BAI Communications said the future of the site was not decided yet. "At this stage Broadcast Australia has made no plans in respect to retaining the infrastructure in place, and the decision to retain or decommission the redundant sites and equipment will be taken by Broadcast Australia in due course," the spokesperson said. If the site was decommissioned it would be a sad day for Australia, according to former transmitter operator Rodney Champness. He worked at the facility for seven years and believed it was still a vital piece of national infrastructure that could not be replicated by web streaming. "In those countries we are aiming at they can get the internet, but it is expensive and for many people

their wages are not high enough to afford it," Mr Champness said. "They don't have a lot of money and shortwave radio is cheap." Shepparton was chosen in the 1940s for a few reasons, including the relatively flat terrain which was beneficial for broadcasts, and its location, away from inland cities and domestic flight routes. "It's away from the coast so Japanese or German aircrafts could not easily get to it, and the building was blast proof for the bombs from that era," he said. If the site was decommissioned, it would be a sad day for Australia and especially for Shepparton, he said. "I just think it's an icon, and people don't really even realise it's there," Mr Champness said. Site off the airwaves; Shepparton News Australia, by Barclay White, Jan 21. (Via Mike Terry-UK, BrDXC ng Jan 21)

As we reported last month, both Radio Australia and the ABC's Northern Territory shortwave services are expected to close at the end of January. But pressure has been mounting on the ABC to reconsider its decision, especially the closure of SW services to the remote Northern Territory. The Australian *Guardian* on 27 January reported: "The opposition leader, Bill Shorten, has called on the prime minister to step in and save ABC shortwave broadcasts in the Northern Territory, claiming the broadcaster's reasons to shut them down "do not account for the reality" of life in the outback. In December, the ABC announced it would cease transmitting local radio broadcasts through shortwave radio in the Northern Territory and parts of the Pacific at the end of January. "It did so without community consultation and sparked a backlash from users who say the service is vital in remote areas. Federal politicians from both major parties in the NT have lobbied the ABC to reverse its decision. On Thursday [26 January], Shorten wrote to Turnbull, asking him to work with ABC management, local stakeholders and Labor "as a matter of urgency to ensure the continued provision of shortwave radio service in the NT beyond 31 January 2017." (Guardian 27 January via Gavin Robertson via British DX Club)

Radio Australia HF Station Signs Off in CW: In an apparent nod to radio amateurs who may have tuned in, Radio Australia's VL8A transmitter in Alice Springs signed off on January 31 in CW. The station sent "73 de VL8A QRT," before pulling the big switch. Radio Australia announced last fall that it planned to cease shortwave transmissions. Although the broadcaster shut down its Katherine, Tennant Creek, and Roe Creek (Alice Springs) trans-

mitters at the end of January, it will continue to broadcast on the FM and AM bands, via satellite, and via online streaming and mobile applications. The move was not popular with those who live and work in the vast area the shortwave broadcasts reached, with some saying it was the only reliable broadcast outlet, and that its demise could deprive Northern Australian listeners of emergency and critical weather information. Northern Territory Cattlemen's Association President Tom Stockwell, who lives on Sunday Creek Station with no access to AM or FM radio or mobile phone service, isn't buying the Australian Broadcasting Commission's explanation. He said the decision to focus on digital transmission ignored people in the bush. "It affects a big area of Australia, and it affects those people that are remote from other forms of communication that rely on radio network," he said. Mark Crocombe of the indigenous Thamarrurr Rangers in the remote community of Wadeye said his group members spend days and sometimes weeks at a time away in the bush and out on sea patrols and had relied on the ABC's shortwave radio for weather reports and emergency information, including cyclone warnings. "It could be life threatening, if you are out and you don't know a cyclone is coming," he said. Radio Australia has said the move was in line with its commitment to dispense with outdated technology and to expand its digital content offerings and FM services. (ARRL Letter via Ron Hunsicker-PA)

2325, ABC Tennant Creek. 1044 end of song and host Rebecca McLaren w/song anmnt and ID "...on ABC Radio Darwin and the Northern Territory...", and interview of M. 1050 canned anmnt by M "ABC will be switching off its shortwave services in the Northern Territory tomorrow. You'll still be able to hear ABC Radio on AM and FM, as well as online with the ABC Radio app. All ABC Radio and digital services will continue to be available on the VAST satellite service. You can find out more at abc.net.au/shortwave. Or call the reception advice line on 1-300-13-9994", then promo/ID, Rebecca again, and into mx. //2485, 4835 of course. 120mb outlets a little better than usual this morning. 4835 really strong. (Dave Valko-PA 30 Jan.) Unfortunately, now gone. I was listening to the same broadcast at French Creek. (RAD)

9645, Reach Beyond Australia at 1330 in English, man with Christian message, talking about the Apostle Paul. - Fair, Feb. 2. (Harold Sellers-BC/DXplorer)

Radio Australia 15240 at 2105 Jan 30 with Pacific Beat featuring a reports from around the Pacific about the closure of the ABC shortwave service. Legislation will be introduced next week to re-store the service. Too-little-too-late? (Mick Delmage-AB) Pacific Beat just announced that Radio Australia will be shut off in less than four hours' time ... so noon in Melbourne? Did not make it clear? So tune in for possible 0000 or more likely 0100 shut down today in NA. (Mick Delmage-AB) I was late, when checked at 0107 [Jan 31] all Shepparton outlets have gone forever. And when checked at Brisbane Queensland also the three NT services on shortwave are history now. (Wolfgang Bushel-Germany) On Tuesday morning, I listened to Radio Australia for the very last time. 15240 and 15415 were plagued with local noise and not especially strong signals here. So 17840 was the best option for my final moments with this grand old shortwave broadcaster. The sign off came at 0100 after the playing of the old "Waltzing Matilda" interval signal. Mount Evelyn is about 200 km south of the Shepparton transmitter site - not far enough for proper F layer reflection and off the side of the beam, so the signal was a bit scratchy. But I was there for the end and that's the important thing! Very sad. But the fight is not over yet. (Rob Wagner-Australia/ARDXC)

AUSTRIA 6155, got QSL ORF - Radio Oesterreich International. 26 Jan 2017 0600-0700 ORS Moosbrunn. Theme previous: Landmarks of Vienna - St Stephan's Cathedral. E-mail: roi.service@orf.at. Also in the envelope are two stickers and a booklet with the station schedule on weekdays. (Anatoly Klepov-RUS, RUSdx #912 via wwdxc BC-DX TopNews Feb. 19)

AZERBAIJAN Good signal of Ictimai Radio with broadband FM mode on Feb. 14:

0825-1425 on 9676.9 unknown tx Azeri, plus strong co-ch
1100-1400 on 9680.0 TSH Chinese RTI & CNR
Jammer
(DX Mix-Bulgaria)

BANGLADESH Bangladesh Betar to add Chinese alongside with Hindi, Urdu, Arabic and Nepali, the Chinese language will be added as the 7th language in Bangladesh Betar's external programme broadcast. A proposal in this regard is in progress, according to the department of External service of Bangladesh Betar unit director Kamal Ahmed. He said Chinese and Persian language was considered

to add as 7th and 8th language and now they are prioritizing Chinese to start as soon as possible. The Chinese-language programmes are expected to broadcast in Bangladesh Betar within 2017. (Southasiamonitor.com 20 January via Alokesh Gupta DX India via British DX Club)

4750, Bangladesh Betar - HS, on Feb 21; well above the norm; propagation favoring BB and not CNR1; 1251-1253 ID and daily "weather forecast" in English; high today 31.2°C, sunrise at 6:27 AM and sunset at 5:56 PM. (Ron Howard-CA)

BHUTAN 6035, 7/2, 0125-0230, Bhutan Broadcasting Service, Thimpu, slow Bhutanese traditional mx (YouTube), serious talks male and female, music, news at 0200-0207 mentioning Bhutan, again traditional mx and talks, slow fading out after 0200, fair. The night after, 8/2, I observed the start of bc suddenly at 0102 with talks, but weaker. (Giampiero Bernardini-Italy/PlayDX)

6035, I got an e-mail confirmation from the Bhutan Broadcasting Service for the reception of 30 Jan 2017, at 0215-0245 (Thimphu, Bhutan 100 kW). The report sent to the address: kakatshering@bbs.bt. Confirmation assured on letterhead BBS - Kaka Tshering General Manager, Radio Bhutan Broadcasting Service. (DK Dmitry Kutuzov, Ryazan, Russia / "deneb-radio-dx", via RUSdx #911 via wwdxc BC-DX TopNews Feb. 12)

BRAZIL 9664.91, R. Voz Missionaria. Caught a short EG/PT ID by M at 0010 "RVM, national (?) Brazilian missionary radio (then in PT)". Not the full EG ID hrd abt a month ago, but still nice to hear an EG ID. Fair. (Dave Valko-PA 4 Feb.)

11895.06, Super R. Boa Vontade. 2208 caught full canned PT ID anmnt (w/freqs) by M, but the plug was pulled just before the end at 2208:37. Fairly readable and actually better than Bandeirantes and RB2 above. (Dave Valko-PA 3 Feb.)

BULGARIA 15190, I got an e-QSL from Radio Santec via SPC-NURTS Sofia Kostinbrod for reception in English on 05 Feb. 2017, 1500-1530 (Suns only). Scanned reverse side of the card and sent me an e-mail. The report sent to: info@radio-santec.com. QSL via Spaceline Ltd., Sofia Bulgaria. CEO Dimitar Todorov lz1ax@mail.bg. (DK Dmitry Kutuzov, Ryazan, Russia / "deneb-radio-dx", via RUSdx #911 via wwdxc BC-DX TopNews Feb. 12)

CANADA 6030, Calgary - CFVP relaying CKMX (AM 1060), 1327-1334, Feb 14. Nice surprise to catch this 100 watt station doing so well against the much stronger CNR1; ID of comic "Tom Ryan," who commented on seminars that claim you can "make \$100k part time" - "If I was making \$100k part time, I would work full time"; with a lot of canned laughter; 1330 mention of "Calgary." Not often I get to hear this low powered station! (Ron Howard-CA)

CANADA (NEWFOUNDLAND) 6159.97, CKZN, 0404, Feb 22. Better than normal reception. While it's unfortunate that Vancouver (CKZU) still remains silent, it does give us on the west coast a good chance to hear this one in the clear; Newfoundland & Labrador weather after the news. (Ron Howard-CA)

6160, CKZU basically, it broke and they don't have parts to fix it because it's too old and no parts available. The money required to purchase a new transmitter doesn't make sense because of the low numbers of people who use it (changing world, everything's online, blah blah). Before you say it, yes I know, I know. Anyway, there is no other way to voice your displeasure than the 1-866-306-4636 audience relations number. If enough people call, they might notice, but I doubt it. Sorry to be the bad news messenger. I kinda figured that was the deal of why it was off the air. (Colin Newell) From an insider at the CBC. Unfortunately, it doesn't look good for CKZU ever returning to the air. (Walt Salmaniw-BC/DXplorer)

CHINA 4900, what the heck is on 4900?? Have a man and woman speaking now at 1206. Please give a listen. (Dave Valko-PA) Chinese New Year's Spring Festival/Holiday: Most employees in China have at least seven days off work, while students take one month absence from school. It's the longest Chinese holiday! Chinese New year was on January 28. (Ron Howard-CA) Voice of Strait 9505/6115, 4940/4900 - Feb 04, 2017 at 1115. Note: Mauno in Finland, Thanks very much for examining it together! 1110: 6115 Voice of Strait (tent.), fair to good signal; 9505: Voice of Strait (tent.), // 6115 same program; Same program "News station" and "Minnan station". Special schedule for Chinese New Year's Spring Festival?? 1145: still no-signal both 4900 and 4940. 1200: QSY both frequency; 4900 <--- 6115; 4940 <--- 9505. It is not the same program but a separate program. Expected schedule: *1000(?) - 1200 on 6115, 9505 and 1200-1600* on

4900, Minnan px; 1200-1600* on 4940, News px. (Via (Ron Howard-CA) Concerning 4900: Hrd stn at *1530 to 1547:30* on 1/27/17. Singing at 1530, and talking noted at 1534-to sign/off by M. But measured freq was 4899.978. Weak, so thought it was like a number's station. Was this a test? 4900.000, China (?) at 1440, fairly strong! Here on 2/3/17 with singing, talking by M to 1449, then mx to TS (same as all CC stns) at 1500. Prgm continued to past 1520 with M and F talking. No // found. This morning at 1446, also found same on 4900.000, TS at 1500, singing music strong after 1506. Tuned out at 1514, with no // found. (Jim Young-CA) 4900, V.O. the Strait. M and W speaking from 1206 t/in. Sounds like CH but is actually Minnan language pgm per Ron Howard. No wonder a parallel couldn't be found. Very strong on the SDR.hu web rx at Freemans Ranch Australia. Jim Young mentions he also hrd it on 27 Jan. and 3 Feb., but later time. (Dave Valko-PA 5 Feb.) 4900, VoS 1438-1510+ 3 Feb., 1523-1603* 4 Feb. Nice evening magazine/pop music show with lots of music, chat, apparent ads..5+1 pips & (p) ID announcement @ TOH...audio off after pips/ID @ 1600, carrier off @ 1603..thanks to Ron Howard's tip on radio.chobi.net for the info (4900 sked 1200-1600, QSY from 6115 1000[?]-1200) ... 6115/4900 is in Minnan/Amoy with ID: "Haikiap chi xia kongpo tiantai Banlam go kongpo" or "Haixia zhi sheng guangbo dientai Minnan hua guangbo" in CH..sked from radio.chobi.net shows weather 1455, 1555, ads 1500-05 followed by music. Re-check 1438-1502+ 9 Feb. Fair with fading, but :55 "weather" clear with flute background, partial TOH ID as "Haixia zhi sheng guangbo...". (Dan Sheedy-CA)

4940, Voice of the Strait at 1316, woman in Chinese, but playing old English pop songs, including "How Sweet It Is". - Good, Feb. 2. (Harold Sellers-BC/DXplorer) 4940, Voice of Strait, 1500-1530, Feb 18. Saturday only English program "Focus on China": a filler (anomaly) program; not their standard news format at all; audio from the CCTV documentary "A Bite of China," segment "Inspiration for Change," about making tofu, rice wine and soy sauce; one continuous announcer (native speaker of English); no breaks for IDs; 1530 ID in English - "This is the Voice of Taiwan Strait News Radio"; mostly readable. Believe some of the VOS staff must still be out on holiday, or would assume they would have had their normal Saturday news format. (Ron Howard-CA)

6200, Voice of Jinling presumed at 1253 playing Chinese songs, 1300 announcements and instrumental music. - Fair, Feb 2. (Harold Sellers-BC/DXplorer)

CLANDESTINE Radio Publique Africaine via TDF Issoudun, Feb. 4

1800-1830 on 11550 ISS Kirundi
1830-1858 on 11550 ISS French
(DX Mix-Bulgaria)

Reception of Radio Xoriyo Ogaden via MBR Issoudun on Feb. 21

1600-1630 on 11970 ISS Somali Tue/Sat, very good
(DX Mix-Bulgaria)

Radio Voice of Adal via MBR Issoudun on Feb. 22

1500-1530 on 11670 ISS Arabic Wed/Sat
1530-1558 on 11670 ISS Tigrinya Wed/Sat
(DX Mix-Bulgaria)

Radio Al-Mukhtar, Feb.21

1500-1558 on 11670 ISS Arabic Tue
1530-1558 on 11670 ISS Tigrinya Tue is cancelled
(DX Mix-Bulgaria)

Updated B-16 shortwave schedule for Voice of Tibet:

1200-1230 on 11513 DB Chinese
1230-1300 on 11507 DB Tibetan
1300-1330 on 11513 DB Tibetan
(DX Mix-Bulgaria)

Reception of Voice of Oromo Liberation via MBR Nauen on Feb.10:

1700-1730 on 11810 NAU Afar Oromo Wed/Fri/
Sun, strong
(DX Mix-Bulgaria)

1330-1400 on 9508 DB Tibetan. All other programs in Chinese / Tibetan are cancelled. All frequencies are jammed by China on x0 / x5. Changes between frequencies vary of 5 to 7 minutes time. Wrong (summer A-16) freqs in Aoki 15543, 15537, 15528, 15523, 11577 and etc. (Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews Jan 17)

Radio Adal (New Entry), E: radioadal@gmail.com

1500-1530 Wed/Sat ERI 11670iss in Arabic
1530-1600 Wed/Sat ERI 11670iss in Tigrinya
(WRTH Update)

Radio Al-Mukhtar (New Entry)

1500-1530 t..... ERI 11670iss in Arabic
1530-1600 t..... ERI 11670iss in Tigrinya
(WRTH Update)

Voice of Khmer M'Chas Srok via RED Telecom, Feb. 5:

1130-1200 on 15600 unknown tx Khmer Thu/
Sun, fair
1130-1200 on 17860 TAC Khmer Thu/Sun, weak
(DX Mix-Bulgaria)

Updated schedule of Voice of Tibet, Feb.9

1200-1215 on 11513 DB Chinese no change
1215-1230 NF 11508 DB Chinese, ex 11513
1230-1245 on 11507 DB Tibetan no change
1245-1300 NF 11508 DB Tibetan, ex 11507
1300-1330 on 11513 DB Tibetan no change
1330-1400 on 9508 DB Tibetan no change.

All frequencies are jammed by China on xxx0 /
xxx5. Changes between frequencies vary from 5
to 7 minutes. (DX Mix-Bulgaria)

Oromo Voice Radio: Transmissions on shortwave
have stopped.

Voice of Amara Radio: Transmissions on shortwave
have stopped.

Manara Radio: Transmissions on shortwave have
stopped. (WRTH Update)

6135, Voice of Freedom. Normally blocked by strong
white noise jamming from N. Korea, but Feb 23,
found VOF cutting through the jamming fairly well
at 1349, with a radio drama in Korean; so today's
propagation favored the south rather than the
north. BTW - the KBS station on 6015, was also
well heard through the white noise jamming (Ron
Howard-CA)

11550, 4/2, 1845-1859*, Radio Publique Africane.
France to Burundi, French talks, songs, good.
(Giampiero Bernardini-Italy/PlayDX)

DPRK propaganda station drops AM broadcasts:
Echo of Unification, a North Korean radio station
that broadcasts propaganda towards South Korea,
dropped all mediumwave (AM band) broadcasting
on December 21. The move seemingly confirms the
futility of the broadcasts, which consumed large

amounts of electricity but were blocked by powerful
South Korean government jamming transmitters,
but the station isn't giving up. In their place, it
has brought on air additional shortwave and FM
transmitters. It's all part of a game that's been
going on for decades. North and South Korea both
broadcast propaganda at each other while trying
to stop their own citizens from hearing the other's
broadcast. Similar battles used to be played out
across borders around the world but have largely
moved to the internet and social media. The lack of
internet in North Korea and South Korean censor-
ship mean radio still plays a part on the Korean
peninsula. Echo of Unification launched in Decem-
ber 2012 with three blocks of programming each
day: from 7am to 9am; from 1pm to 3pm; and from
9pm to 11pm (Pyongyang time). The programs were
broadcast on shortwave 3,970 kHz and 6,250 kHz,
mediumwave 684 kHz and 1,080 kHz and FM 97.8
MHz. The mediumwave broadcasts were strong and
could be heard across a large part of East Asia at
nighttime, but suffered severe interference in the
Seoul area where the South Korean government
broadcast noise on the same frequency to drown
them out. FM was also blocked in Seoul but could be
heard very close to the border and shortwave was
completely clear, perhaps a recognition that few
homes have shortwave radios these days. With the
end of mediumwave broadcasts, Echo of Unification
has added shortwave 5,905 kHz and FM 97 MHz and
89.4 MHz. The additional shortwave frequency gives
listeners in South Korea an extra spot on the dial
to tune into the station, although because short-
wave radio ownership is so low and there's terrible
electrical interference in most Korean cities, this
is really only reaches people who are already sold
on the propaganda message. No South Korean is
going to stumble across the station on shortwave
like they might while tuning a car or kitchen radio
on mediumwave. South Korea has already started
jamming the FM broadcasts giving them limited
reach into the country, but perhaps the target here
is bored soldiers stationed along the border. The
FM signal can be clearly heard in the border region
and North Korea might be hoping to reach a few
people here. (Ron Hunsicker-PA)

COLOMBIA 5910.18, R. Alcaravan First time hrd in
a while and way off freq. 1012 rel. pgm w/M host in
SP w/ments of corazon, Santa Cruz, Colombia, gloria
de dios, la voz del pueblo, la palabra, and many
Cristiano. Into soft vcl song at 1014, then M host
returned. Really faded badly, almost complete f/
out, but came back up at 1027. Pgm finally ended at

1043 w/outro, studio M annrc giving TC twice, then into lively LA tropical mx. Went off the air suddenly in mid-song at 1111:30. (Dave Valko-PA 17 Feb.)

CUBA Post-Fidel, the Broadcast Hostility Remains by James Careless: Perhaps the months or years ahead will bring change to this situation; but as of the end of 2016, the death of Fidel Castro in November had not lessened the Cuban government's hostility to outside broadcasters, any more than the restoration of U.S.-Cuban diplomatic relations did on July 20, 2015. If anything, the Cuban communist regime's antipathy to Radio and TV Martí — the U.S. government-funded, Cuba-targeted broadcaster based in Miami — and to WRMI Radio Miami International — the commercial shortwave broadcaster that leases airtime to Cuban resistance groups — seems to have grown. "For a period of time, the Cuban government was 'overlooking' the distribution of flash drives and DVDs containing our content in Cuba by Cuban citizens," said Malule González, director of the Office of Cuba Broadcasting, operator of Radio and TV Martí. "But, recently, they have been cracking down on distributors of 'el paquetes,' as these devices are called by Cubans. If anything, the repression has worsened in the past two years, not improved." It is just 228 miles by air between Havana and Miami, just 14 more than flying between Miami and Orlando. Only 90 miles separate Cuba from the Florida Keys. But for Radio/TV Martí and WRMI, getting their signals through is a constant challenge: The Island has been operating radio and TV jamming antennas for decades. (See a related article from March 2015 at radioworld.com/cuba/.) "We have been jammed by the Cuban government almost since we started broadcasting in 1989," said WRMI General Manager Jeff White. "And despite the closer relations now between Cuba and the U.S., the level of jamming has not diminished at all. It's a disgrace that the Cuban regime will still not allow its people to hear programs from abroad that the government doesn't like: Freedom of expression is still not on their agenda." Yet despite this fact, some U.S.-based broadcasters are getting through. "Based on the SMS messages and phone calls we receive from Cuban listeners and viewers, we know that our Radio and TV Martí is being received," said González. "We get emails as well." Radio Martí began broadcasting from the United States to Cuba in 1985. Television Martí was launched five years later. Radio/TV's mission is to deliver news, current affairs and entertainment/lifestyle programming that doesn't toe the Cuban communist line. Small wonder that the

Cuban government has done its best to block the service — and why Radio/TV Martí has been and is using every mix of over-the-air satellite, online and physical media distribution to get by them.

"No matter what they do, we manage to get through," said González. "The Cuban people are tuning into Radio/TV Martí, and we have the feedback to prove it." WRMI's Cuban programming mix is based on whatever content its airtime buyers choose to put on air. It's a longstanding relationship: "Radio Miami International began acting as a broker for Cuban exile programs on shortwave to Cuba in 1989, transmitting from various shortwave stations in the Dominican Republic and the United States," said White. In 1994, WRMI launched its Miami-based SW station. Its transmission power and reach were boosted greatly in 2013, when the broadcaster bought the expansive SW transmission farm belonging to now-defunct Family Radio in Okeechobee, Fla. Over the years, most all of the major — and many minor — Cuban exile organizations have used WRMI's facilities to broadcast programs to Cuba. In fact, "at one time, Cuban exile programs made up the majority of our programming," said White. The number of Cuban exile-produced shows coming over WRMI has dropped substantially over the years, but not due to anything done by the Castro regimes (Fidel then and Raul now). "Over the years, many of the Cuban groups in Miami have gone out of existence, or don't have funding to continue their broadcasts," said White. "And frankly, many of the Cuban exile leaders have been dying off, and the younger generations generally are not very interested in Cuban politics." The result? "Today Cuban programming makes up only a small percent of our programming." The U.S.-Cuba diplomatic thaw and the death of Fidel Castro have not lessened Cuban communist resistance to outside broadcasters. And as of this writing, any impact of the Trump presidency remains to be seen. So what will it take to alter the situation? According to González, nothing less than the introduction of free speech will do, and that will only happen with regime change. Jeff White agrees: "Honestly, I think it will take a major political change on the island: Certainly it won't happen as long as Raúl Castro is in power," he said. "But they would also have to make a major change like allowing free elections and freedom of expression." "Maybe that would also put an end to the Cuban exile programming we broadcast; I don't know," White added. "But it would be a major victory for the Cuban people, and it would show

in a way the important role that shortwave radio programs have played in bringing about a change in Cuba." Ann Noonan, executive director of the advocacy organization Committee for U.S. International Broadcasting, said that, although Cuba is becoming a tourist destination for many Americans again, "Little or no help has been offered to most of Cuba's people, who are still desperately poor. Access to communication is limited for families in Cuba." She said that because all media inside Cuba are still controlled by the state, "shortwave and medium-wave radio broadcasts from the United States remain crucial for access to news inside Cuba. Radio and TV Martí need more support and funding for their work." Even if President Trump reinstates an embargo on Cuba, she said, "It seems unlikely that it would make any difference in the lives of many Cubans. Right now, for the most part, the only ones who are benefiting from the end of the travel restrictions are elitists inside Cuba and Americans who romanticize about life there and want to go there to see old cars, import cigars and enjoy the beach." CUSIB, she said, is hopeful that the Trump administration will push for greater funding to the Office of Cuba Broadcasting. (Radio World NewsBytes)

Change of frequency/time/target area of Radio Habana Cuba in Esperanto:

2130-2200 NF 15370 BAU Esperanto Sun, and cancelled
2230-2300 on 17730 BEJ Esperanto Sun & respectively
2230-2300 on 17730 BEJ French is daily, not Mon-Sat
(DX Mix-Bulgaria)

ECUADOR New updated schedule of HCJB Voice of The Andes on 6050:

0930-1400 on 6050 QUI 010 kW various*, ex 0830-1500
0930-1400 on 6050 QUI 010 kW various*, ex 0830-1500
2100-0230 on 6050 QUI 010 kW various*, ex 1900-0500
2100-0230 on 6050 QUI 010 kW various*, ex 1900-0500
* including Cofan/Chapala/Spanish/Shuar/Quechua/Waadani & other langs. (Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews Jan 24)

The HCJB Voz Andes service on 6050 has been inactive since 27 December because of a transmitter fault. An engineer is due to arrive soon from Germany to fix it. The new schedule can be found at <http://andenstimme.org> (Euer Horst, Andenstimme, Quito via ADDX 11 January via Wolfgang

Bueschel) Updated schedule for 6050 from 1 January 0925-1400 and 2100-0233 in Spanish and local indigenous languages. (British DX Club)

ENGLAND HCJB Radio Akhbar Mufriha via BaB-coCk Woofferton, Feb. 19:

2100-2115 on 7300 WOF Tachelhit
2115-2145 on 7300 WOF Arabic
(DX Mix-Bulgaria)

ETHIOPIA 7235.45v, Voice of Peace & Democracy (presumed), 0400, Feb 13 (Monday). Open carrier, but no audio till about 0417, when heard HOA singing and announcer till 0431*; poor reception, with low modulation; 0415 at 7235.66v; at 0425 on 7235.77v. (Ron Howard-CA)

FRANCE Updated schedule of Telediffusion d'Algerie in French:

0400-0458 on 5865 ISS Arabic Holy Quran px
0500-0558 on 5865 ISS Arabic Holy Quran px
0500-0513 on 7295*ISS French news bulletin
0513-0558 on 7295 ISS Arabic Nat. Chaîne 1
0600-0613 on 5865*ISS French news bulletin
0613-0651 on 5865 ISS Arabic Holy Quran px
0651-0658 on 5865 ISS Arabic Holy Quran px
1800-1858 on 11660 ISS Arabic Holy Quran px
1900-1958 on 9635 ISS Arabic Holy Quran px
1900-1913 on 9810*ISS French news bulletin
1913-1958 on 9810 ISS Arabic Nat. Chaîne 1
2000-2013 on 9710*ISS French news bulletin
2013-2058 on 9710 ISS Arabic Nat. Chaîne 1
2000-2058 on 9810 ISS Arabic Holy Quran px
2100-2113 on 6155*ISS French news bulletin
2113-2158 on 6155 ISS Arabic Nat. Chaîne 1
2100-2158 on 9710 ISS Arabic Holy Quran px
*French news bulletin now is only xx00-xx13, ex xx00-09 & 0051-xx055.

(DX Mix-Bulgaria)

GERMANY The annual shortwave broadcast of Radio Öömring from Amrum Island, German North Frisian Islands was heard at 1600-1700 on 15215 on February 21st via Issoudun in Frisian dialect, German and English. Announced next year's broadcast for 21 February 2018 (same time and frequency). (RAD)

GUINEA 9650, R. Guine Conakry, at 2210 on Feb 3. NX in French with local reports. After ending report ID by man saying "Vouz ecoutez R. Guine", into

next report. Signal was readable but unstable, SIO: 322. (Zeljko Crncic-D, wwdxc BC-DX TopNews Feb 5)

INDIA Sharing this good news ... responding to a query during DRM India Round Table conference Engineer-in-chief, All India Radio confirmed that regional services of All India Radio on shortwave will be revived & a proposal has already been submitted to Government. Trai recommends shutting down of analog transmission by 2023. The broadcast regulator Trai today recommended introduction of digital terrestrial transmission for broadcast services in a phased manner and complete shutdown of analog transmission by end of 2023. The broadcast regulator Trai today recommended introduction of digital terrestrial transmission for broadcast services in a phased manner and complete shutdown of analog transmission by end of 2023. (Via Alokesh Gupta-IND, Jose Jacob-India; DXIndia Feb. 3)

AIR Kurseong, on 4895, continues to be silent; while 5050, AIR Aizawl, went off the air early today, about 1435. AIR Shillong, on 4970, continues with better than normal modulation, which is a nice change. Of course 5010, AIR Thiruvananthapuram, was very much bothered by the return of Madagascar slightly higher in frequency and causing a strong het. AIR Gangtok, on 4835, was with just slightly above threshold level audio. (Ron Howard-CA) And also observed a marked improvement of audio quality of AIR-Shillong on 4970 for past week or so. Earlier despite its strong carrier...audio quality...signal level was slightly of low intensity. Now its audio intensity level has improved. (Gautam Kumar Sharma-India)

Latest Changes to All India Radio External Services:

0015-0430 Urdu Delete 6145, 11620
0100-0200 Sindhi Delete 5990
0130-0230 Nepali 9800 (B) (ex P)
0315-0415 Hindi 15185(B) (ex P)
0415-0430 Gujarati 15185(B) (ex P)
0430-0530 Hindi 15185(B) (ex P)
1215-1245 Telugu Delete 9810, Add 13695(B)
1215-1315 Burmese 9940 (B) (ex 9950)
1230-1500 Sindhi Delete 6165
1315-1415 Dari 11560 (B) (ex P)
1415-1530 Pushtu 11560 (B) (ex P)
1530-1545 English 11560 (B) (ex P)
1615-1715 Russian DRM 9595(B) ex 11620
1745-1945 English Add 17670(B)
2045-2230 English 9910 (B) (ex A)
2300-2400 Hindi 9910 (B) (ex A)

A = Aligarh; B = Bengaluru; P = Goa Panaji. (Jose Jacob-IND VU2JOS, DXIndia Feb. 16/TopNews)

INDIA (ANDAMAN & NICOBAR ISLANDS)

4760, AIR Port Blair (presumed), 1508-1543, Jan 29. Had been off the air for a few days (not heard during eve of Republic Day [Jan 25], nor on Jan 28, at 1513); back today with weak reception, but one of their better days; at times almost semi-readable; signal strength seemed to suggest was not AIR Leh (Kashmir); subcontinent music/singing; 1512 with the usual switch over to the New Delhi audio feed (commercial announcements till 1515 news in Hindi and 1530 into news in English). At 1530 "Good Evening. This is All India Radio"; news in English; Prime Minister Modi earlier addressed the nation via AIR, with a talk addressed to teachers, students and their parents about school examinations not being a matter of life or death and students should not be put under so much pressure; 1537 brief ID and news continued. (Ron Howard-CA) 4760, AIR Port Blair (presumed), 1541, Feb 13. Recently much better reception than normal; news in English; sports news. Believe signal strength tends to suggest was not AIR Leh (Kashmir). (Ron Howard-CA) 4760, AIR Port Blair (presumed), 1509, Feb 14. Am hearing this daily now with significantly stronger signals than ever heard in the past; nicely above threshold level audio; pop subcontinent music/singing; 1512 distinctive tone, indicating the start of the New Delhi audio feed with commercial announcements, 1515 news in Hindi and 1530 news in English. When they were recently off the air, suspect they made repairs or adjustments to their transmitter or antenna? Signal strength would seem to indicate Port Blair and not Leh (Kashmir). (Ron Howard-CA) And at the early morning hour here in my QTH AIR-Port Blair can be audible with fair overall reception in general here on 4760 with slight QRM...side band splatter from a radio station broadcasting on 4765....But sometimes QSA improves to good. And you are right, there is significant improvement on their signal quality. (Gautam Kumar Sharma-India)

INDIA (GOA) 15210, I got a paper QSL from the All India Radio. The frequency 15210, reported to in "Listening corner" on their website <http://pbinfo.air.org.in/feedback/>. There you need to register. Said transmitter: AIR Goa Panaji site. Waiting for a response 87 days, but the Indian postal stamp - December 19! In my opinion, Athanasius Nikitin, who walked three seas, India to get there faster. The Indians are working hard to improve their QSL

branding. AIR director general mailing list recently registered "Corner" the audience said: "Regarding printed QSL, we have raised our speed and issuing QSL on priority to our registered listeners". (DM, via RUSdx #911 via wwdxc BC-DX TopNews Feb. 12)

INDIA (SIKKIM) 4835, AIR Gangtok, Jan 31. Yes, with ABC gone, is now possible to hear this station that was rarely reported in the past. Today with positive reception; above threshold level, but not quite readable. Ideal reception for me, as my local sunrise was at 1510. Highlights: 1437-1445: monologue. 1445-1450: subcontinent music/singing. 1450-1457: another monologue. 1457-1512: beautiful selection of sitar music; all instrumental, no singing at all. 1512: tones to start the audio feed from New Delhi (commercial announcements, 1515 news in Hindi and 1530 news in English). 1512+ // 4760, 4810, 4895, 4910 (still just open carrier), 4920, 4970, 5010, 5040, 5050, 9865 (as usual, AIR Bengaluru was heard with ads and news in Hindi, but did not carry the 1530 news in English). Off the air today were 4950 and 9380. (Ron Howard-CA) Also there is an improvement of reception quality of AIR-Gangtok & its QSA here specially in the morning. And also on some occasions I received AIR-Gangtok on the evening, also with good QSA. (Gautam Kumar Sharma-India) 4835, AIR Gangtok, 1457-1515, Feb 17. Nicely above threshold level audio; at most times able to make out the language used; 1457-1512 alternating announcers in Hindi; 1512 the usual tone to start the New Delhi audio feed, with commercial announcements in Hindi, till news in Hindi at 1515. Certainly one of their better days. (Ron Howard-CA) 4835, AIR Gangtok, on Feb 21, with unusually good propagation; the best reception I have had here since ABC went silent; 1508 with subcontinent music; 1512 switch over to audio feed from New Delhi, starting with tone; singing ads in Hindi; 1515 tone before news in Hindi. (Ron Howard-CA)

INDONESIA Voice of Indonesia was back on 9525.9, Feb. 7:

1000-1100 on 9525.9 JAK English
1100-1200 on 9525.9 JAK Chinese
1200-1300 on 9525.9 JAK Japanese
1300-1400 on 9525.9 JAK English
1400-1500 on 9525.9 JAK Indonesian
1500-1600 on 9525.9 JAK Chinese
1600-1700 on 9525.9 JAK Arabic
1700-1800 on 9525.9 JAK Spanish
1800-1900 on 9525.9 JAK German

1900-2000 on 9525.9 JAK English
2000-2100 on 9525.9 JAK French
(DX Mix-Bulgaria)

4869.9, Pro 1 RRI Wamena, as it's Thursday (Feb 23), time to check for "Kang Guru Indonesia." Yes, at 1239 the first "KGI" ID and intro in Bahasa Indonesia, then on to English; KGI is "carried on over 200 stations"; played a few pop songs; segment about rhyming words; "Find a word that rhymes with soldier? . . . shoulder"; segment "Good neighbors make good friends," about the importance of using "Thank you and please" in Australia & Indonesia; about "cultural differences"; better reception than usual, but still less than semi-readable. BTW - RRI Ternate (3344.87) not hear on Feb 23. (Ron Howard-CA)

9526, 8/2/17, 2047-2100, V. of Indonesia in francese. S5. MX e parlato (YL). Alle 2059 ID e annuncio freq. 15150, 9525 (!), 11785, e chiude con annuncio (prob. in indonesiano). 34533. Giampiero Bernardini-Italy/PlayDX)

JAPAN 9595, Radio Nikkei One at 2223 playing jazz music, later an announcer in Japanese. - Fair, Feb. 17. (Harold Sellers-BC/DXplorer)

KOREA (SOUTH) 15575, KBS World Radio at 0157 with electronic chimes and repeated ID in Spanish, 0200 s/on and into Spanish, with news. - Excellent, Feb. 5. (Harold Sellers-BC/DXplorer)

MADAGASCAR The weekday 1930-2000 relay of RTE to Irish in Africa on 5820 via Madagascar has stopped. I noticed during checks in mid-January that it was missing and Mauno Ritola (WRTH) confirms that it was cancelled at the end of December. (Dave Kenny-UK/British DX Club)

5010.78v, R. Madagasikara, 1518-1532, Feb 14. After being off the air here for a month (or more?), they are back; best in USB due to AIR on 5010.0; respectable signal; about the best reception I have had here; some type of noise QRM, or would have had even better reception; pop African music/singing and announcers; noted slight drifting. My local sunrise at 1456, while Antananarivo sunset was at 1526. Am IDing on basis of language and music heard, plus drifting frequency, but no positive R. Madagasikara ID heard, so is still presumed. Very nice to have this one back again! (Ron Howard-CA) 5011.3, Madagasikara found on the air at 0243 on Feb 15!! Playing nice pleasant choral music now

at 0247. Here's a screenshot of what it and 5010.01 Rebelde's mixing product looks like. No doubt about Madagascar!! (Dave Valko-PA) 5011.3v, R.M. Was watching from 0210 and it didn't come on by 0232 t/out. But upon recheck at 0243, found it here playing pleasant choral mx. 0253 went into Dance Pop mx. 0257 bubbly W anncr, back to mx. 0259 took a quick dive down to 5011.0 but then came back up. Notched out the QRM from 5010.01 Rebelde mixing product. (Dave Valko-PA 15 Feb.)

MALAYSIA 6050, Asyik FM, via RTM K-L Kajang site, at 1452-1500 on Jan 24. With the usual Tuesday "Bollywood" show of pop songs in Hindi. Had been off the air for a while. {actually heard in Thailand on exact 6050.027, wb.} At 1500, the start of Salam FM, till 1502* on Jan 24. Time pips (1+1 and mixing with time pips of PBS Xizang [TIBET]); brief ID ("Salam FM"); choral NA (Negaraku - Lagu Kebangsaan Malaysia); Islamic programming in vernacular; suddenly off, leaving TIBET in the clear, with decent reception. BTW - Now all the SW Malaysian stations are active: 9835 Sarawak FM and also Wai FM on 11665. Has been a while since all three were broadcasting at the same time. (Ron Howard-CA-USA, DXplorer via wwdxc BC-DX TopNews Jan 26)

MALI Since the 1980s, China Radio International has operated a shortwave relay station in Mali. For the winter period 2016/17, CRI registered 23 broadcasting hours with the HFCC. On the other hand, the WRTH 2017 attributed only seven hours to the Bamako relay. In a ten day monitoring project in the second half of January, it became clear that the WRTH is probably more correct, since its broadcasting schedule could be largely confirmed. There may be even less transmissions. 08.00-08.57: 7295 Haussa, probably on the air; 14.00-15.57: 17630 English confirmed; 16.00-16.57: 15125 Arabic confirmed at 15124.00; 17.00-17.57: 15125 Swahili 15124 kHz probably not on the air 18.00-18.27: 11640 Haussa confirmed; 18.30-19.27: 11640 Arabic confirmed; 22.30-22.57: 15505 Chinese not checked because of late broadcasting time. (hjb, January 26, 2017/ Worldwide DX Club)

MOLDOVA TWR Africa from Kichinev:

0330-0345 Thurs and Fri in Sidamo on 7225
0330-0345 Mon, Tues and Sat in Amharic on 7225
0330-0345 Wed in Oromo on 7225
(Lorraine Stavropoulos-Swaziland/TWR)

MOROCCO (SPANISH) Again no signal of Radio Medi 1 on shortwave freq. 9575, Feb. 13:

0000-2400 on 9575 NAD Arabic/French R. Medi 1 (DX Mix-Bulgaria)

MYANMAR 5985.0, Myanmar Radio, 1530, Feb 13. In English; mostly readable; nice ID; "Good evening dear listeners. This is Myanmar Radio. Here is our final English transmission for today, radiating on 5985 kHz, 50.13 meters, 576 kHz, 520 meters and 594 kHz, 505 meters. Now you can hear the news"; today is the 102nd anniversary of the birth of Major General Aung San, who is considered the father of modern Myanmar, etc.; weather ("generally fair"); segment reading in full a Reuters news story "Oldest gorilla in captivity dies in Ohio at 60 years old"; into pop music program. (Ron Howard-CA) 5985, Myanmar Radio, 1538, Feb 18. Segment in English; "the weather" (outlook for the next two days); "End of the news from Myanmar Radio"; 1540-1555 with the Saturday program "Voice of ASEAN, Beyond Boundaries"; seemed to be produced by PBS (Philippines), as the announcer was Edward Santos, who I have heard many times over Radio Pilipinas, talking about relationships between Malaysia and the Philippines; 1556 "Welcome to our program, ASEAN News"; item about Cambodia, etc.; covered at 1600 by China (CRI); mostly readable. It will be recalled that Myanmar and the Philippines signed a Memo of Understanding. BTW - 2017 marks the 50th anniversary of the establishment of ASEAN. (Ron Howard-CA)

6165, R. Thazin (pres.), definitely 2 signals here at 1126. One is CNR6. The other had W tlc at 1135, prob. their ToH nx on Thazin. (Dave Valko-PA 5 Feb.)

NEW ZEALAND Radio NZ International continues shortwave service to Pacific Islands after Radio Australia exits, Friday, February 3, 2017 - 19:34: Radio New Zealand International (RNZI) has confirmed there will be no reduction of its service to its Pacific broadcast partners after ABC Radio Australia closed its international shortwave transmission service to Papua New Guinea and the Pacific on 31 January 2017. (Matangi Tonga Online via Radio World NewsBytes)

OMAN Radio Sultanate of Oman in English was back on shortwave, Feb. 8:

1400-1500 on 15140 THU, after 2 days of break (DX Mix-Bulgaria)

PAKISTAN Radio Pakistan Begins DRM+ Transition - Transition project is taking place at Broadcasting House in Islamabad: The move from AM and FM transmitters to DRM+ technology is currently underway in Pakistan, according to a recent report from Radio Pakistan. With DRM technology, Radio Pakistan will be able to air three channels from a single transmitter, as well as provide listeners with access to text services. Radio Pakistan expects that the transition to DRM will be able to occur with little amendment to the AM/FM transmitters. The transition project is being conducted from the Broadcasting House in Islamabad. Radio Pakistan's Director General Khurshid Malik visited the project on Jan. 30, where he was briefed on its progress. (Radio World International NewsBytes)

Pakistan Broadcasting Corporation, HF Broadcast Schedule B-16, October 30, 2016-March 26, 2017:

0045-0215 on 9900 11590 Urdu
0445-0530 on 7470 Balti
0500-0700 on 15730 17790 Urdu
0530-0615 on 7470 Sheena
0830-1104 on 15730 17755 Urdu
0900-1000 on 9540 11875 Bangla
1000-1030 on 9540 11875 Nepali
1045-1145 on 7470 9670 Hindi
1145-1215 on 7470 9695 Gujrati
1200-1300 on 9900 11845 Chinese
1230-1300 on 9095 11805 Sinhali
1300-1330 on 9695 11805 Tamil
1330-1530 on 9315 11560 Urdu
1345-1445 on 5835 Pushto
1445-1545 on 5985 Dari
1700-1800 on 5890 7430 Farsi
1700-1900 on 9335 11570 Urdu
(Radio Pakistan Website) Real? No mention of shortwave in above DRM+ transition article. (RAD)

PALAU Reception of Radio Que Me via WHRI T8WH Angel 3, Feb. 10:

1200-1230 on 9930 HBN Vietnamese Fri
(DX Mix-Bulgaria)

PAPUA NEW GUINEA 3260, NBC Madang, 1127-1204*, Jan 27. Mostly pop Pacific Islands music with DJ in Pidgin/Tok Pisin; 1201 into the NBC News with no intro bird call; 1203 "NBC" promo and suddenly off the air (Ron Howard-CA)

7324.95, Wantok Radio Light is indeed still silent. After 1357, when CRI signs off 7325.0, I often

check, but nothing heard for a very long time now. The frequency is clear 1357-1430. (Ron Howard-CA Feb 21)

PERU 4774.894, Radio Tarma, Tarma, Junin. Signal string visible, and some mx tone heard on threshold level at 0152 on Feb. 8, seemingly scheduled to 0200 closedown. (Wolfgang Büschel-Germany df5sx, wwdxc BC-DX TopNews Feb. 8)

4955, R. Cultural Amauta 1057-1101 somber OA camposina mx, live M anncr briefly, then usual canned ID anmnt by W over "El Condor Pasa". Fair signal. (Dave Valko-PA 1 Feb.)

PHILIPPINES Reception of Radio Teos via FEBC on Feb. 8:

1500-1600 on 11650 BOC Russian
(DX mix-Bulgaria)

15640 // 17700 // 17820, R. Pilipinas. Recently these frequencies have had very poor reception (unusable), but Feb 2, had excellent reception; close to 100% readable; 0235-0252; programs heard - "DFA Online, news and events from different Philippine embassies and consulates around the world," "Songs and music from ASEAN," "Philippine Trivia," "It's More Fun in the Philippines," etc.; promo for PBS, "70 years of broadcasting"; countless IDs. In my opinion, this station provides some of the best programming on SW. Almost everything they broadcast deals locally with the Philippines, which I find very entertaining. (Ron Howard-CA) 15640, Radyo Pilipinas at 0200 signing on with chorus, man in English with time, ID and into news. - Poor, other frequencies not audible, Feb. 5. (Harold Sellers-BC/DXplorer)

RUSSIA 6000, 3/2, 1840-1900*, Adygeyskoye Radio, Armavir, Russia, songs, weak. (Giampiero Bernardini-Italy/PlayDX)

SOLOMON ISLANDS 5020, SIBC. In Dec, noted many days with extended broadcasting post-1200*, but in Jan, did not hear any and now in Feb am again hearing some, but certainly not on a daily basis. Feb 18, tuned in at 1303 to hear SIBC with extended airing of non-stop pop songs ("My Boyfriend's Back," etc.); no IDs heard, so clearly not a Wantok FM relay; 1314 audio ended and went to dead air (open carrier), which was still on at 1608. Very unfortunate that they ended the audio early, while still keeping the transmitter on for

many hours after that. Why not just keep the audio going? (Ron Howard-CA) 5020, SIBC 1157 usual xmsn ending rel. inspirational segment. 1200 instru. mx and canned EG voice-over closing ID anmnt by W "You've been listening to the Solomon Islands Broadcasting Corporation, R. Happy Isles. We have been transmitting on 1035 kilohertz in the mediumwave band and the shortwave frequency of 5020 kHz, and 9545 kHz in the 60 and 31 meter bands. We're now closing down for today but we resume transmissions tomorrow morning at 6 o'clock. So until then, from all of us at SIBC, goodnight everyone", instru. NA, and signal off at 1202:16. Despite Rebelde, this was the most readable signal in a long time. (Dave Valko-PA 17 Feb.) 5020, Wantok FM relay, via SIBC. Yes, Feb 21, with yet another day of a long, extended broadcast; 1244, till past 1518; strong signal during unique propagation; good reception at times; pop songs (Bette Midler - "From a Distance [God Is Watching Us]," etc.); short IDs - "Listen non-stop, non-stop, 96.3," "This is Wantok FM 96.3. Good times, great music" and "Listen to the hottest sounds . . . with the hottest DJs, 96.3." (Ron Howard-CA) 5020, Wantok FM relay, via SIBC, 1309, Feb 23. Yet another day of extended broadcasting (now daily?); non-stop songs (Lionel Richie - "Stuck on you," Men At Work - "Who can it be now?" etc.); frequent brief IDs; not as strong as yesterday; still on at 1410. Yesterday, Yoshiyuki Ohashi (formerly active in SWL as "Peace-J") was also hearing this at 1321, with nice reception in Japan. Wantok FM 96.3, was established in 1999, as a part of SIBC, to attract a younger audience. (Ron Howard-CA)

SRI LANKA Sri Lanka state broadcaster, military to get some VOA transmitting assets. **ECONOMY NEXT** - Sri Lanka's state-run Sri Lanka Broadcasting Corporation (SLBC), and the military will get some equipment from a closed Voice of America relay station, which is being dismantled. The Voice of America made its last broadcast from the relay station in Iranawila, Chilaw on June 10, 2016, amid budget cuts and declining viewership for shortwave radio listening. The VOA station had two 500 kilowatt Marconi transmitters and six 250 kW transmitters when it began operations over 16 years ago (* 1996 year), according to publicly available data. (Via Alokesh Gupta-IND, Jan 19, DXasia yg direct/TopNews)

Sri Lanka Broadcasting Corporation SLBC with new schedule, Feb.11

1630-1730 on 11750 TRM Sinhala relay City FM Mon-Fri

1630-1830 on 11750 TRM Sinhala relay City FM Sat/Sun
(DX Mix-Bulgaria)

SUDAN 9505, Sudan Radio has resumed its external service Voice of Africa on 9505, including English. Thorsten Hallman wrote on 20th January (via DXLD) "Tuned in to news in English today just before 1730, later followed by musical programmes in unidentified language(s). After 1910 dead air, interspersed with sporadic announcements in Arabic probably meaning "You are listening to Voice of Africa from Sudan" and a few words more. Sign-off was 1920 and soon resuming broadcast on 7205 with different format in Arabic." From monitoring observations here, the Voice of Africa schedule on 9505 seems to be nominally: 1600-1720v French, 1720-1830v English, 1830-1930v Hausa. NB Times are variable! Voice of Africa used to also have a morning transmission on 9505 between about 0700-0900 including English. Is anyone hearing that and able to confirm the schedule? (Dave Kenny-UK/British DX Club)

Voice of Africa - Sudan Radio (Re-instated Entry)

P. O. Box 572, Omdurman, Sudan.

1630-1730* daily on 9505alf in French

1730-1830* daily on 9505alf English

1830-1930* daily on 9505alf in Hausa

Key: * Times variable. Note: Has resumed broadcasts after a period of inactivity. (WRTH Update)

Voice of Africa Sudan Radio on Feb. 10:

1735 on 9505 ALF English, very low modulation

Radio Omdurman Sudan on Feb. 10:

1935 on 7205 ALF Arabic open carrier/dead air
(DX Mix-Bulgaria)

SWAZILAND Select TWR-Manzini Broadcast Schedule B2016 30th October 2016 - 25th March 2017:

0255-0325 Mon-Fri, Sun in Shona on 3240

0325-0340 Daily in Ndaou on 3240

0342-0357 Sat in Lomwe on 4775

0430-0500 Mon-Fri in English on 3200

0430-0700 Mon-Fri in English on 4775

0500-0700 Sat/Sun in English on 4775

0501-0700 Daily in English on 6120
1905-1935 Daily in Lingala on 9940
1935-1950 Daily in French on 9940
(Lorraine Stavropoulos-Swaziland/TWR)

TAIWAN Latest changes of Radio Taiwan International from Feb. 15:

1000-1300 NF 7300 TSH Chinese, ex 7200
1200-1300 NF 11985 TSH Chinese, ex 9545
1600-1700 NF 9405 PAO English, ex 6185
2200-2300 on 6075 KOU Chinese, x 2230-2330
2200-2300 on 6105 KOU Chinese, x 2230-2330
2200-2300 on 9450 TSH Chinese, x 2230-2330
2200-2300 on 9735 PAO Japanese, x 2230-2330
2200-2300 on 9900 KOU Chinese, x 2230-2330
2200-2300 on 11635 PAO Chinese, x 2230-2330
(DX Mix-Bulgaria)

TAJIKISTAN 4790, BBC Uzbek, 1302 and 1330* (almost 1331), Feb 21. Poor, but about the best reception I have had here; good propagation, but the usual heavy CODAR QRM; CNR1 jamming extremely faint; a long radio drama; 1330 BBC ID and pips. Not often I can actually make out the ID. (Ron Howard-CA)

7245, Tajik Radio Dushanbe Yangi Yul. Excellent S=9+15dB signal noted here in Germany at 0240 on Feb. 8, talk by two male in Tajik language. (Wolfgang Büschel-Germany df5sx, wwdxc BC-DX TopNews Feb 8)

THAILAND 5875 R. Thailand. End of VT pgm at 1114. Usual bells IS, M in EG w/ID and lang. pgm anmnt, and several more reps of the bells IS. Good signal. (Dave Valko-PA 17 Feb.)

UAE 15215 Gaweylon Tibetan Radio via Dhabbaya Transmitter. Rec'd an e-mail response within 24 hours of posting my e-mail report, sending a verification statement, with full data (plus site) and indicated QSL Package via mail to follow. V/s: Anil R. Alfred Director Special thanks to Ralph Perry for pointing out this little known station! (Ed Kusalik-AB/DXplorer)

USA President Donald Trump on Monday dispatched two aides to scope out the studios of Voice of America, heightening concerns among some longtime staffers that Trump may quickly put his stamp on the broadcasting arm that has long pushed U.S. democratic ideals across the world. The arrival of the two aides – both political operatives from

Trump's campaign – comes after Voice of America received blowback over the weekend for sending out a series of tweets about White House Press Secretary Sean Spicer's claims about inauguration crowd size that looked to some like an endorsement of his false statements. The concern among some staffers is especially acute because Trump's administration is getting control over the broadcasting agency just weeks after Congress moved to eliminate the board of directors that had served as an integrity check on the organization, instead consolidating power with a CEO position appointed by the president. (POLTICO via Radio World NewsBytes)

The Broadcasting Board of Governors has elected Kenneth Weinstein acting chairman of the board. He has been a member of the board since October 2013. Weinstein succeeds Jeff Shell who will continue as a board member. BBG oversees government-backed, nonmilitary international media outlets including VOA, Radio Free Europe/Radio Liberty and Radio Free Asia. (Broadcasting & Cable via Radio World NewsBytes)

Today (Feb 1) the Voice of America (VOA) celebrates 75 years on the air. From its first 15-minute radio broadcast in German in 1942, VOA has grown into a multimedia international broadcast service providing programming and content in 47 languages on multiple platforms, including radio, television, and mobile. (Radio World NewsBytes)

FG Radio

2015-2030 Sunday English 11580rmi (add)
2145-2200 Sunday English 15770rmi (add)
(WRTH Update)

Radio Prague

0230-0300 daily English 6855rmi (add)
1300-1330 Mon-Sat English 6855rmi (add)
2330-2400 daily English 6855rmi (add)
(WRTH Update)

6175, Radio The Voice of Vietnam via WHRI Cypress Creek, Pieghevole QSL e segnalibro in 111 giorni. E-rpt con MP3 inviato a: vovmundo@gmail.com. (Luca Botto Fiora-Italy/PlayDX)

VANUATU 7259.95, today (Feb. 21) had decent reception of Radio Vanuatu with pop songs at 1457. PS – I have also not heard Radio Vanuatu for a while now on 3944.2. (Ron Howard-CA)

VATICAN STATE 9485, NHK World Service in English to Africa via Santa Maria di Galeria Transmitter. Full data (w/site and Language) in 67 days, with schedule and rec. report form enclosed. This for a Postal report sent to NHK World Service. (Ed Kusalik-AB/DXplorer)

11630 new frequency. This is Radio Veritas Asia in Urdu language service via Vatican Radio site at Santa Maria di Galeria. 1430-1457 NF11630 SMG, ex 15330. (Ivo Ivanov-BUL, hcdx via wwdxc BC-DX TopNews Jan 25)

ZAMBIA New Weekday Schedule for Voice of Hope - Africa. Morning broadcast to be replaced with afternoon / evening broadcast from 1700-2200 on 4965 and 6065.

Voice of Hope - Africa

0500-0800 Mon-Fri on 9680lus, 11680lus English (del)

1700-2200 Mon-Fri on 4965lus, 6065lus English (add)
(WRTH Update)

5915, ZNBC/Radio One, on Feb 19, with strange anomaly. For a long time now, they have gone off the air well before their local sunrise, due to "load shedding." Lusaka sunrise today was at 0405. Tuned in at 0333, to follow them up to the time of their closing. Major surprise! Not only did they not close down by sunrise, but continued on past 0518. This has not happened for a long time now. The question is, will it happen again? (Ron Howard-CA) 5915, ZNBC/Radio One, 0458, Feb 23. In English; promo for the "Zambia Bureau of Standards"; music & call of fish eagle; "One Zambia, one nation"; news & sports ("Bank of Zambia projects a 3.9% economic growth rate this year," etc.); 0515 weather and repeat promo for the "Zambia Bureau of Standards"; 0517 into vernacular; no "load shedding" today, unlike yesterday's closing down at sunrise. (Ron Howard-CA)

6065, V.O. Hope Africa. Signal noted as early as 2027 but little audio at that time. Returned at 2106 and found live M anncr in EG w/"We are V.O. Hope radio" ID and voiceofhope.com, and rel. tlk. Into rel. Pop-like mx. 2126 M w/ment of 4965 and 6065, phone #, and e-mail addr. Gospel mx. 2200 canned ID by M "Live from Zambia, this is the V.O. Hope Africa broadcasting on 4965 and 6065 kHz and streaming

worldwide at voiceofhope.com. Broadcasting the Gospel of Jesus. This is the V.O. Hope. V. O Hope is now closing down. Please join us again tomorrow for more music and ministry from the Word of God", cont. mx, then 1800 hz tone, and off at 2201:04. Good but 6070 CFRX QRM. (Dave Valko-PA 10 Feb.)

9680, Voice of Hope via Lusaka. Nice full data photo of curtain array at the transmitter site. This for an e-mail rpt to: reports@voiceofhope.com. Rely in six months' time. V/s: Ray Robinson Vice President. (Ed Kusalik-AB/DXplorer)

UNIDENTIFIED 4900, this past weekend (Feb. 5) and once again today I have been hearing what appears to be a station from the Far East around 1430 to past fade at 1545. Language sounds Chinese, Korean or Japanese but not strong enough to tell. Anyone hearing this? (Mick Delmage-AB/DXplorer) Voice of Strait, China? (Jari Savolainen-Finland/DXplorer)

7700, first noted on 18 September 2016, an unidentified radio with Muslim sermon in Arabic (or similar language) at 1846 on 7700 kHz AM and heard often, for example on 25 September rumbling with IBC or Marconi Radio on 7700.1USB. It was again confirmed on 5 January 2017 on 7700.2 at 0355 with talk in presumed Arabic and sermon at 0415 and tiny signal at 0448. The programme is similar to Puntland Radio which was not observed at the same time on 13800 kHz. (Rumen Pankov 12 January) On 5605 and on 5970 at 0100-0200 on 9 January a Beijing type "ship siren" jamming was heard, presumed vs Sound of Hope. (Rumen Pankov, Sofia, Bulgaria, 12 January/British DX Club)

MISCELLANEOUS We have uploaded a pdf of updates to the B16 schedules in the International section of WRTH 2017. Visit Updates to download the file from the WRTH store. If you haven't yet got your copy of WRTH 2017 then buy one NOW using this link. Readers in North America can also order copies from Amazon.com. I hope you find the update useful. (Nicholas Hardyman, Publisher).

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



Pirate Radio Report

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

Shortwave pirate broadcasting continued at a very brisk pace once again during the past month. Pirate broadcasting inevitably increases around major North American holidays. You ought to make your plans to listen to the increased pirate broadcasting activity that is certain to appear around St. Patrick's Day, which is on Friday, March 7 this year, thus coinciding with a weekend.

Further, as a result of winter propagation, currently very low static levels make DXing shortwave pirates easier than we experienced during the summer and fall months. The prime DX season of the year is still with us.

Pirate busts by the FCC during the past month were sparse by the deadline for this month's column. But, the FCC did issue a notice of unlicensed operation to Pierre Toussaint of Pompano Beach, FL for operating an unlicensed FM pirate on 98.5 MHz from his house in Pompano Beach. Further, the FCC issued a notice of violation to low power FM licensed broadcaster WOCS-LP in Orangeburg, SC for using an antenna that had a greater height than is permitted in the low power FM service. The FCC issued a notice of unlicensed operation to Cornet Morris and Verna Harris of Miami Gardens, FL for operating an FM transmitter 89.5 MHz from Miami Gardens. The FCC issued a notice of violation to Long Island Yellow Transportation Inc. for operating two-way radio broadcasts on 478.2875 and 469.3875 MHz, which are not their assigned frequencies. The FCC issued a notice of unlicensed operation to Lafortune Volcey of Orlando, FL for operating an unlicensed FM transmitter on 88.5 MHz in Orlando from Eglise De Dieu Retour De Jesus Christ. The FCC issued a notice unlicensed operation to Lucas Medina of Nightdale, NC for operating an unlicensed FM transmitter from his Christo La Solucion church in Nightdale. None of these FCC busts were of shortwave pirates.

The 2017 30th Annual Winter SWL Festival was held on March 2-4, 2017 at the Doubletree Guest Suites Philadelphia West in Plymouth Meeting, PA. NASWA once again sponsored this major DXing conference. As usual, among the broadcasting forums was the traditional annual Pirate Radio forum that included both a discussion of this year's pirate radio activity oriented to both beginners and veteran pirate DXers, and the official announcement of the 2017 class of inductees into the North American Pirate Radio Hall of Fame was made. This year's class of inductees include Channel Z Radio, The North American Pirate Relay Service (NAPRS), and Pirate Radio Boston. Next month we will cover the Fest in more detail, where plenty of NASWA members had an excellent time.

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.

Big Jonathan R. 6925 0108-0122* 1/30/17 fair to good. Prgm of sexual comedy. (D'Angelo-PA)


Captain Morgan 6925 0242 1/29/17 fair. Prgm of mx. (Taylor-WI)

Captain Morgan Shortwave 6925 0133 2/12/17 fair. Prgm of mx. (Taylor-WI)


Captain Morgan 6950 AM 0145-0212 2/12/17 SIO=444. Prgm of classic rock mx. (Lobdell-MA)

Cowboy Pirate R. 6925 0108-0122* 1/30/17 fair. Prgm of mx giving KCPR ID. (Hauser-OK)

K-2000 6935 2357 12/13/17 fair. Relay of an old classic pirate prgm mentioning George Zeller at end. (Taylor-WI)

- KFBN** 6925 2226 12/13/17 fair. Prgm of mx. (Taylor-WI)
- R. Gaga** 6925 2226 12/13/17 strong. Prgm of rock mx said to come from Zipper Lake QTH. (Hauser-OK)
- R. Gaga** 6935 2226 2/4/17 fair. Prgm of classic rock mx. (Taylor-WI)
- R. Gaga** 6935 DSB 2252-2310* 2/4/17 SIO=333. Prgm of classic rock mx. (Lobdell-MA)
- R. Garbonzo** 6925 0129 1/29/17 strong. Fearless Fred w/classic pirate comedy. (Hauser-OK)
- R. Illuminati** 6150 AM 1743-1748* 2/11/17 SIO=343. Hrd s/off anmt & USA NA at close. (Lobdell-MA)
- XLR8** 6950 0204 1/28/17 poor. Prgm of instrumental rock mx. (Taylor-WI)
- Pee Wee R.** 6950 0004 1/29/17 fair to good. Prgm of hard rock mx w/SSTV image at close. (Taylor-WI)
- Wolverine R.** 6940 0122 2/12/17 good. Prgm of soul mx & rock oldies. (Hauser-OK)
- Wolverine R.** 6940 0052 2/12/17 good. Prgm of rock oldies w/"one" in titles. (Taylor-WI)
- YHWH** 5790 0246 1/13/17 strong S9. Discussion of religious issues by OM. (Hauser-OK)
- YHWH** 7465 0246 1/30/17 strong to fair. Typical religious prgm w/tlk by OM. (Hauser-OK)
- YHWH** 7615 0226-0255 2/7/17 good. Another new frew for this religious pirate.  (Hauser-OK)

NASWA Facebook Page

Join moderator **Richard Murphy** <richard.murphy@swri.org> 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. Group members must be NASWA members. Comments and suggestions from the membership are welcome. To locate the NASWA Facebook page, simply enter "North American Shortwave Association" into the search box. If you are into social media, give it a try. 

NASWA 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.

Scoreboard

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

This month we are highlighting our members' totals from Oceania. Ranking is based upon Oceania Countries Verified. This is your chance to show everyone how well you are doing. The next deadline is August 15th for the September 2017 issue of the Journal. The spotlight will be on Asia.

Name, State	Total		Oceania		Best Oceania QSL
	C/H	C/V	C/H	C/V	
Edward Kusalik, ALB	250	249	23	23	3AZ Tonga 5030
Marlin Field, MI	246	246	23	23	R. Kerema 3245 kHz, PNG (250 w.)
Tom Williamson, ON	243	230	22	22	R. Kiribati
Steven R. Lare, MI	239	226	22	22	Tonga, Marshalls
Wendel Craighead, KS	235	223	22	22	R Omroep Nederlands Nieuw Guinea, Biak
Ron Howard, CA	212	200	22	22	Tonga
Jerry Berg, MA	244	244	21	21	Fiji Broadcasting Comm. (250 w.)
Sheryl Paszkiewicz, WI	225	219	21	21	R. Kiribati
Dan Henderson, MD	235	191	21	21	R. Free Bougainville (80 w.)
Chris Lobdell, MA	229	225	20	20	R. Kiribati
Rich D'Angelo, PA	225	223	20	20	R. Cook Islands
Paul Buer, FL	219	208	19	19	R. Cook Islands (500 w.)
Jim Evans, TN	213	203	20	19	PNG - Bougainville
Christos Rigas, IL	217	198	20	19	Cook Islands BC
Jerry Klinck, NY	220	202	19	18	Fiji BC
Stephen Leite, MA	210	197	17	17	Cook Islands (500 w.)
George Maroti, NY	208	202	18	17	Kiribati
Dan Robinson, MD	230	196	17	16	Cook Islands
Allan R. Loudell, DE	192	167	16	15	R. Vanuatu
Harold Cones, VA	234	232	16	14	R. Kiribati
Ross Comeau, MA	193	172	16	14	R. Kiribati
Jerry Johnston, KY	210	141	19	13	Cook Islands
Stephen Price, PA	198	183	13	12	RFO Tahiti
Bill Smith, MA	182	174	11	10	Vanuatu
James R. Renfrew, NY	189	161	13	10	R. Vanuatu
Dan Srebnick, NJ	156	121	10	9	SIBC
Scott C. Newman, IN	148	113	14	9	R. Tahiti
Jilly Dybka, TN	145	108	11	9	Australian Defense Forces R
George L. Glotzbach, MN	154	136	11	8	VNG
Richard Bradley, MA	145	130	8	8	Tahiti
Paul Brouillette, IL	148	121	10	8	New Calidonia
Doug Tilley, WA	117	89	8	8	R. Tahiti
Mark Humenyk, ON	169	148	12	7	R. New Zealand
Gary R. Neal, MD	137	127	7	7	VNG
Scott R. Barbour, NH	168	115	13	7	R. Wantok Light-PNG 7120
Edward G. Stroh, IL	135	104	9	7	R. Tahiti
Richard E. Lawrenson, RI	145	129	6	6	R. Tahiti
Joe Kremer, OH	153	104	10	6	Solomon Is.
Gary W. Froemming, AZ	184	44	11	5	VNG
Ken McCartney, OH	125	73	7	3	Fiji
Don Jensen, WI	256	256			
James W. Young, CA	253	239			
Alex Vranes, Jr. WV	226	216			
Bob Raymond, NH	175	151			
David Turnick, PA	144	129			
Larry Colton, FL	154	125			
John Mosman, WI	120	120			
Jerry Irvine, TX	110	60			

Contributors' Page

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

- Rick BARTON, El Mirage, AZ
Ed CICHOREK, Somerset, NJ
Rich D'ANGELO, Wyomissing, PA
Jim EVANS, Germantown, TN
Elliot FEINBERG, Brooklyn, NY
Glenn HAUSER, Enid, OK
Ron HUNSICKER, Wyomissing, PA
Bill McGUIRE, Cheverly, MD
Pamela PRODAN, Wilton, ME
Gene PURDUM, Williamston, MI
Ronald SIVES, South Plainfield, NJ
Mark TAYLOR, Madison, WI
- R8, SP600/JX-14, HQ120x, HQ200, outdoor wires, slinky
IC-R-75, SW-8, ICF-2010, Eavesdropper
RX340, R8B, E1, E5, DX Sloper, Mini-Windom, FL3, ANC4
R75, ICF-SW7600G, Perseus, Eavesdropper, random wire
Sangean ATS-909, Tecsun PL-660, indoor whip
FRG-7, DX-398/ATS-909, YB400, ICF SW-07
no equipment listed
DX-380
YachtBoy 400PE
HQ-180AC, R-390A, TS-850SAT, 100' G5RV
Eton field radio and 66' SWL dipole
Perseus, SDRPlay, RTL2832 V3 Dongle, E1, Sat 800,
PL660, 40m dipole, 100' longwire, mini whip
RX340, WinRadio G31DDC, Alpha Delta DX sloper,
49m dipole
PL880, 225' longwires, DXE RPA-1PLUS HF preamp,
ZM2 tuners

David TURNICK, Sinking Spring, PA

Paul WALKER, Galena, AK

2000-30000 kHz

Loggings

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

- 2325 AUSTRALIA VL8T 1034-1135 Jan 30, ABC New with a man announcer followed by Rebecca McClarin hosting evening program Poor. //2485 Katherine and 4835 Alice Springs. (D'Angelo-PA/FCDX)
- 2850 KOREA (North) Korean Central Broadcasting Station, 1212-1223 Jan 31, program of operatic vocals which seems to be the only thing heard on this station. Poor. (D'Angelo-PA/FCDX)
- 3240 SWAZILAND Trans World Radio, 0312-0340* Jan 30, man announcer talking in listed Shona language, IS at 0325 with man giving station ID as switched to Ndaul language program. Nice ID at 0340 followed by IS and carrier cut. Fair. (D'Angelo-PA/FCDX)
- 3310 BOLIVIA Radio Mosoj Chaski, 1020-1037 Jan 30, man announcer with Quechua language talks hosting a program of rustic morning vocals. Joined by a female announcer around 1030. Poor to fair. (D'Angelo-PA/FCDX)
- 3320 SOUTH AFRICA Radio Sondergrense, 0414-0420. Piano music. Announcements in Afrikaans by woman at 0418 followed by more music. Moderate strength signal with fading in heavy noise. Best signal in some time. 1/8/2017 (Evans - TN)
- 3325 PAPUA NEW GUINEA (Bougainville) NBC, 1133-1202* Jan 30, woman announcer with mix of English and Pidgin talks hosting music program. The woman gave closedown ID and announcements followed by choral National Anthem. Poor to fair signal. (D'Angelo-PA/FCDX)
- 3345 SOUTH AFRICA Channel Africa, 0305-0327 Jan 30, English language program with woman announcer finishing news followed by "Africa rise and shine Poor to fair and //6155 which was good. (D'Angelo-PA/FCDX)
- 3395 GUINEA Radio Guinea, 2121-2127, 2-4-17. Male in local language, flute and drums followed by man & woman in vernacular and vocals. Fair to poor. (Cichorek-NJ)
- 4765 CUBA Radio Progreso 0303-17 Cuban music; fair 1/18 (Prodan-ME)

- 4775 **SWAZILAND, Trans World Radio**, 0431-0438. Announcements in English by a man. Contemporary religious music at 0432. Religious talk by a man at 0437. Moderate strength signal with CODAR interference. 1/12/2017 (Evans - TN)
- 4775 **SWAZILAND Trans World Radio** 0431-0438. Announcements in English by a man. Contemporary religious music at 0432. Religious talk by a man at 0437. Moderate strength signal with CODAR interference. 1/12/2017 (Evans - TN)
- 4810 **INDIA All India Radio** 1321-1322. Hindi music heard on a threshold level signal, barely keeping above the noise. 1/11/2017 (Evans - TN)
- 4810 **INDIA All India Radio**, 1321-1322. Hindi music heard on a threshold level signal, barely keeping above the noise. 1/11/2017 (Evans - TN)
- 4835 **AUSTRALIA VLBA**, 1034-1135 Jan 30, ABC New with a man announcer followed by Rebecca McClarin hosting evening program with musical selections, interviews, weather reports, etc. . (D'Angelo-PA/FCDX)
- 4840 **UNITED STATES WWCR**, 1230-57 another "World Wide Country Radio" rebroadcast, with songs by Webb Pierce, Elvis, Patti Page, Kitty Wells & more; good 1/14 (Prodan-ME)
- 4885 **BRAZIL Radio Clube do Para**, 0426-0448 Jan 13, program of Brazilian pop vocal selections hosted by man announcer with ID, Portuguese language talks and announcements. Fair. (D'Angelo-PA)
- 4885 **BRAZIL Radio Clube do Para** 0226-0310 nonstop music; 0226-42 10-45 second excerpts from probably 3 doz Beatle songs, then talk in Portuguese; fair 1/23 (Prodan-ME)
- 4920 **CHINA (Tibet) Xizang** 1127-1146 Jan 31, woman vocal followed by a man announcer with talk in Tibetan language. More vocal selections. Poor to fair. (D'Angelo-PA/FCDX)
- 4920 **INDIA All India Radio**, 0208-0245* Jan 30, woman announcer with Hindi language talk and musical selections. Couldn't ID but station seemed to go off at 0245? Very poor. (D'Angelo-PA/FCDX)
- 4920 **INDIA All India Radio**, 1314-1322. Talk in Hindi by a woman followed by Hindi music. Weak signal with fading. 1/11/2017 Evans - TN)
- 4920 **INDIA All India Radio**, 1314-1322. Talk in Hindi by a woman followed by Hindi music. Weak signal with fading. 1/11/2017 Evans - TN)
- 4940 **CHINA Voice of the Strait**, 1223-1235 Jan 31, man announcer with Chinese language talk followed by instrumental music. A familiar station on each DXpedition. Poor to fair. (D'Angelo-PA/FCDX)
- 4949 **ANGOLA Radio Nacional de Angola**, 0402-0412. Talk in Portuguese by a man. Joined by a woman just before pop music began at 0408. Very weak signal with minor fading in heavy noise. Strength improved slightly over time. 1/8/2017 (Evans - TN)
- 4949 **ANGOLA Radio Nacional de Angola**, 0427-0504 Jan 18, man announcer with talk in the Portuguese language followed by IDs by a man and woman at 0429, some announcements followed by program of tribal vocals. Fair. (D'Angelo-PA)
- 4949 **ANGOLA Rádio Nacional de Angola**, 0156-0213 Jan 30, man announcer with Portuguese language talk followed by a male vocal selection. Very nice signal. (D'Angelo-PA/FCDX)
- 4965 **ZAMBIA Voice of Hope Africa**, 2146-2205* Jan 30, numerous IDs with "live" studio host Steven Mdoma. After sign off announcements the transmitter tone could be heard for about a minute before the carrier was terminated. Fair. (D'Angelo-PA/FCDX)
- 4985 **BRAZIL Radio Brasil Central**, 2228-2240 Jan 29, program of Brazilian popular music hosted by a man announcer with Portuguese language announcements. For the most part buried by co-channel RTTY but //11815 fair. (D'Angelo-PA/FCDX)
- 5010 **INDIA All India Radio**, 1322-1323. Talk in Hindi by woman. Very weak, threshold level signal. 1/11/2017 (Evans - TN)
- 5010 **INDIA All India Radio** 1322-1323. Talk in Hindi by woman. Very weak, threshold level signal. 1/11/2017 (Evans - TN)
- 5025 **CUBA Radio Rebelde** Spanish 2305-08 song "The Great Pretender" in English, followed by sta ID; good 1/6; also, on 1/7 2336-48, songs in English incl My Prayer, My Way (not Sinatra), I Need Your Love (Righteous Brothers), Smoke Gets In Your Eyes, then m ann in Sp; good (Prodan-ME)
- 5040 **CUBA Radio Habana Cuba** 0055 English Mahalia Jackson singing "We Shall Not Be Moved" following program "Music With a Message" - Pete Seeger's 1963 Carnegie Hall concert (I reported this in February 2015); good 1/15 (Prodan-ME)
- 5040 **CUBA Radio Habana Cuba** Feb 8 at 0705, RHC carrier is still on late, presumably after a previous hour of English; so the leapfrogs with 5025 upon 5010 and 5055 are also on, but only 5025 is left at 0708 recheck once 5040 has gone off (Hauser- OK)
- 5890 **UNITED STATES WWCR** TN 0050 station & program IDs - "Last Radio Playing," Lynard Sky-nard; 0051 Rock & Roll Christmas; fair-poor 12/10 (Prodan-ME)


- 5915 **ZAMBIA** *Zambia National Broadcasting Corporation*, 2152-2205* Jan 29, talk by a man announcer in one of their local language. Tribal group vocals at 2200 followed by a man announcer with ID. (D'Angelo-PA/FCDX)
- 5915 **CHINA** *China Radio Int'l*, Hohhot, 1310-1312. Talk in Russian by a man. Weak to moderate signal with deep fades. 1/15/2017 (Evans - TN)
- 5920 **AUSTRIA** *Adventist World Radio*, 0202, 1/21/17, in Urdu. Man, South Asian music with prominent flute, 0203 woman, and 0212 announcer gives postal address and "awr.org" web site Fair. (Taylor-WI)
- 5935 **ROMANIA** *Radio Romania Int'l*. 1840UTC to 1848UTC on January 25. SINPO rating of 35423. There was alot of fading and choppy propagation, which made this "DXer's mailbag:" a bit of a tough listen. (Walker-AK)
- 5935 **JAPAN** *Shiokaze/Sea Breeze*, 1420. Feb. 8 Long talk by M , then W in JJ. Male vocal music. Today, noted presence of a jamming transmission. Off at its usual 1435. Fair/Good. (Barton-AZ)
- 5940 **BRAZIL** *Radio Voz Missionária Portuguesa* 2342-46 religious singing, them m & f Ann; poor-fair 1/8 (Prodan-ME)
- 5950 **UNITED STATES** *WRMI* FL Spanish 2340-42 program announcement - Family Radio, Oakland, California, "muchos gracias"; poor 1/8 (Prodan-ME)
- 5950 **ETHIOPIA** *Voice of Tigray Revolution*, *0257-0336 Jan 30, familiar IS to opening announcements and ID at 0300 as program opened in the Tigrinya language. Music until news at 0330 (D'Angelo-PA/FCDX)
- 5950 **FRANCE** *KBS World Radio* 2030-2042 Jan 29, Man announcer with French language talk followed by a female popular music vocal. Apparent pop music feature hosted by a man and woman announcing team. Fair. (D'Angelo-PA/FCDX)
- 5950 **FRANCE** *KBS World Radio* 2158-2200, 1-10-17. Man in French with talk. Brief musical interlude at 2200 then signal faded. Poor. (Cichorek-NJ)
- 5960 **TURKEY** *Voice of Turkey* 2336-40 pop music with mid-east flavor; poor 1/8 (Prodan-ME)
- 5960 **FRANCE** *NHK* via Issoudun. 0351 1/15. Slow ballads, M talking in JP between pieces. (Purdum - MI)
- 5960 **TURKEY** *Voice of Turkey*. 2305 1/21. EG nx with M & W, ID as "Voice of Turkey." (Purdum - MI)
- 5960 **TURKEY** *Voice of Turkey*, 2118-2123, 1-10-17. Long talk by woman then at 2120 man and woman in Turkish. Music at 2123. Good signal (Cichorek-NJ)
- 5985 **MYANMAR**. *Myanmar Radio*, Yangon, 1304-1315. Nonstop talk in Burmese by a woman. Very weak signal, barely above the noise, with heavy fading. 1/15/2017 (Evans - TN)
- 5990 **CUBA** *China Radio Int'l*? English 2332-36 Mombasa, social media, pandas; fair 1/8 (Prodan-ME)
- 5990 **CHINA** *PBS Qinghai*, *2244-2300 Jan 30, IS type music opening. Orchestra anthem opened at 2250 followed by a man announcer with Tibetan language ID over instrumental music and opening announcements. . . (D'Angelo-PA/FCDX)
- 5995 **MALI** *Radio Mali*, Bamako I, 2331-0002*. Very weak bits and pieces of audio were finally heard on the moderate strength carrier that is present on this frequency in late afternoons. Audio was heard only about 10% of the time. 2/10/2017 (Evans - TN)
- 6000 **CUBA** *Radio Habana Cuba* English 0235-59 "The Jazz Place" featuring Charlie Parker (probably same program I reported 25 January 15); good 12/11/2016 (Prodan-ME)
- 6003 **CLANDESTINE (Korea, North)** *Echo of Hope*, 2239-2303 Jan 29, Indonesia language program with talks and musical selections followed by ID. This was poor to fair. (D'Angelo-PA/FCDX)
- 6005 **ASCENSION ISLANDS** *BBC*, 0539-0554 Jan 15, woman announcer in English language addressing upcoming Trump inauguration. Fair to good. (D'Angelo-PA)
- 6015 **ZANZIBAR** *Zanzibar Broadcasting Corporation*, 0407-0436 Jan 30, woman announcer with news in the Swahili language. Poor to fair reception using LSB and 2.3 filter. (D'Angelo-PA/FCDX)
- 6045 **SOUTH AFRICA** *Deutsche Welle*, 0319-0400* Jan 14, woman announcer taking in Swahili language brief instrumental music interlude followed by features with remote feeds hosted by a woman announcer. . Poor to fair. (D'Angelo-PA)
- 6045 **THAILAND** *Voice of America* , 1258, 1/16/17, in Mandarin. Contemporary choral music, 1300 fanfare, ID into a man talking for some time (maybe news). (Both ID and it was not // to CNR 1 jammers at ToH.) Fair. (Taylor-WI)
- 6050 **LIBERIA** *ELWA* 2127-2206 Jan 30, several nice IDs, health talk followed by a long religious talk by a male; all in English language. Poor to fair. (D'Angelo-PA/FCDX)
- 6050 **ECUADOR** *HCJB*, Pico Pichincha, 2343-2355. Contemporary religious vocal music with occasional one to two minutes of talk by a woman in Spanish. Poor to moderate signal strength with moderate fading. 2/10/2017 (Evans - TN)
- 6055 **JAPAN**. *RN-1* (Chiba-Nagara), 0810 Feb. 6. Dialogue W/ a M and W in JJ, no music. F/G (Barton-AZ)

- 6060 **CUBA Radio Habana Cuba** English 0225-40 music, then international news, reference to 102.5FM, Arnie Coro's Diners Unlimited; good, except loud hum by the end 1/24 (Prodan-ME)
- 6065 **ZAMBIA Voice of Hope Africa**, 2002-2033 Jan 30, noted with booming signal with short religious features, IDs and shortwave frequencies (4965 and 6065) with studio host Steven Mdoma claiming to be broadcasting "live". Very good. (D'Angelo-PA/FCDX)
- 6070 **CANADA CFRX**, Toronto. 2003 1/16. Nx about Toronto-related events, sports. "News Ten Dot Com". (Purdum - MI)
- 6090 **ANGUILLA Caribbean Beacon**. 2206 1/21. EG. Sermon by M, phone 800-338-3030, "You're watching the University Network." Talk by Melissa Scott. (Purdum - MI)
- 6090 **ETHIOPIA Amhara State Radio**, 2039-2101* Jan 30, man announcer with Amharic language talks and local instrumentals and vocals. ID at 2059, announcements and instrumental music followed by Choral National Anthem. Poor. (D'Angelo-PA/FCDX)
- 6090 **ANGUILLA Caribbean Beacon 2/7**, 0610. Feb. 7. . DGS lecture, muffled and scratchy audio. Strong carrier, poor audio. Still bad on recheck at 0915. (Barton-AZ)
- 6095 **OMAN BBC**, 0349-0353. Talk in Farsi by a man and a woman. Poor to moderate strength signal with some low side splatter from a Dr. Gene Scott broadcast (Anguilla). 1/23/2017 (Evans - TN)
- 6100 **CUBA Radio Habana Cuba** at 0535 1/29 in EE playing anti-war themed music. Poor. (Sives-NJ)
- 6105 **TAIWAN Radio Taiwan Int'l** (P), 1303, 1/16/17. Man, 1305 fanfare, 2 female announcers into 2 male announcers then a female over tinkly music (reminded me of music for children). (Taylor-WI)
- 6110 **ETHIOPIA Radio Fana**, 2057-2102* Jan 29, woman singer with Horn of Africa vocal with instrumental music before a woman announcer gave closing station ID and announcements in presumed Amharic Fair signal. (D'Angelo-PA/FCDX)
- 6115 **UNITED STATES WWCN** Nashville, TN 2326-32 instrumental country music, "this was "After-glow" with Don Johnson, sta ID at 2329, then to Church of the Apostolic; v good 1/8 (Prodan-ME)
- 6130 **LAOS Lao National Radio**, 1150-1206 Jan 31, noted with nice local music features until seven gongs at 1200, apparent ID by a man announcer. Poor and beginning to rapidly fade out by tune out. (D'Angelo-PA/FCDX)
- 6130 **SWAZILAND Trans World Radio**, 1947-1953 Jan 30, wrap up program with ID and announcements, IS, ID and change to Kimbundi language. Fair. (D'Angelo-PA/FCDX)
- 6135 **BRAZIL Rádio Aparecida**, 0142-0209 Jan 30, man announcer with Portuguese language talks, ID, several mentions of Aparecida and plenty of musical selections. Fair. (D'Angelo-PA/FCDX)
- 6145 **GERMANY Mighty KBC** 0115-0125 w disc jockey, mx, asked for donations via Paypal 1/29/17 good reception (Feinberg-NY)
- 6160 **CANADA CKZN** 2300-30 World This Weekend - We Shall Not Be Moved march in Washington; good 1/14 (Prodan-ME)
- 6165 **INDIA GOS All India Radio**, 1322, 1/16/17, in Sindhi. South Asian music, woman with ID at BoH into more Indian film music. Fair. (Taylor-WI)
- 6170 **ROMANIA Radio Romania Int'l** at 2140 2/4 in EE. News and commentary. (Sives-NJ)
- 6170 **ROMANIA Radio Romania Int'l**. 2132-2135. In English, woman with euro news. Report of severe winter weather in the country with people stranded in the countryside. Record cold predicted. ID at 2135. Good signal. (Cichorek-NJ)
- 6180 **BRAZIL Rádio Nacional de Brasília** Portuguese 0016- lively Brazilian music; good 1/8 (Prodan-ME)
- 6180 **BRAZIL, Radio Nacional Brasilia**, 1-17-17, 0025-0028. Vocals by male artist followed by male anc and talk in Portuguese. Good signal. // on 11780. (Cichorek-NJ)
- 6195 **SÃO TOMÉ Voice of America**, 2120-2200* Jan 29, woman announcer in English hosting VIA 1's Country Hits program. Program ended at 2158 followed by instrumental music until 2200. Good signal. (D'Angelo-PA/FCDX)
- 7120 **SOMALILAND Radio Hargeisa**, 0349-0402 Jan 30, two men announcer sin discussion in Somali language. Poor to fair... (D'Angelo-PA/FCDX)
- 7120 **SOMALIA Radio Hargeisa**, Hargeisa (presumed), 0440-0450. Moderate strength carrier noted at tune-in at 0440. A few words of talk by a woman in a Somali sounding language broke through at 0442, lasting for about a minute. . 1/23/2017 (Evans - TN)
- 7205 **SUDAN. Sudan Radio**, 0501-0507. Talk in Arabic by a man. Middle Eastern music at 0506. Weak signal with high noise level and fading, sometimes momentarily up to moderate strength. 1/12/2017 (Evans - TN)
- 7205 **SUDAN Sudan Radio** 0501-0507. Talk in Arabic by a man. Middle Eastern music at 0506. Weak signal with high noise level and fading, sometimes momentarily up to moderate strength. 1/12/2017 (Evans - TN)

- 7234 **ETHIOPIA Radio Ethiopia** Feb 8 at 0421, R. Ethiopia presumed in variable split-frequency range, S9 with supported modulation (Hauser- OK)
- 7245 **MOLDOVA Trans World Radio** Africa, 0330-0345* Jan 30, religious talk by man in unidentified language thanks to Dan Robinson. Nice ID and familiar IS at close. Poor to fair signal. (D'Angelo-PA/FCDX)
- 7255 **NIGERIA Radio Nigeria**, 2040-2058* Jan 29, Hausa language program of group vocals and talk by a male announcer. Fair. (D'Angelo-PA/FCDX)
- 7270 **CHINA PBS Nei Menggu**, 2258, 1/16/17, in Mongolian. Man, theme like music, 5 pips, ID, woman starts. Then a CNR 1 jammer blows away the PBS Nei Menggu signal. Poor signal until CNR jammer started. (Taylor-WI)
- 7275 **BOTSWANA Radio Deutsche Welle**, 0402-0430* Jan 14, male vocal with English lyrics followed by a woman announcer with ID and Arabic language talk. More music, mainly rap tunes with English lyrics until closedown. Fair. (D'Angelo-PA)
- 7285 **UNITED ARAB EMIRATES BBC** 0335-0341. Talk in Arabic between two men, one in studio and the other in the field. Weak but relatively steady signal. 1/23/2017 (Evans - TN)
- 7315 **UNITED STATES Voice of Vietnam** to Latin America in English. 0100UTC to 0130UTC on January 15th SINPO Rating: 45344. Overall, pretty darn good with just a bit of atmospheric noise and light fading (Walker-AK)
- 7325 **ROMANIA Radio Romania Int'l** 0110UTC to 0156UTC. SINPO Rating of 55444.. At 0124 the do the "Visit Romania" segment, taking a virtual trip to a mountain resort (Walker-AK)
- 7325 **ROMANIA Radio Romania Int'l**. 0150 1/25. Romanian folk ballads, ID, IS, off 0157. // 5960. (Purdum - MI)
- 7340 **ROMANIA Radio Romania Int'l** at 0430 1/14. Classical music, fair to poor (Sives-NJ)
- 7350 **ALBANIA China Radio Int'l** via Cerrik. 1944 1/16. Ballad in EG, mentions of "chinois" then into FR/CH language lesson. (Purdum - MI)
- 7355 **NEW ZEALAND Radio New Zealand Int'l**. 1304 1/27. EG nx about NZ, including a casino development, policing in Wellington. ID as "R-N-Z International." (Purdum - MI)
- 7375 **ROMANIA Radio Romania Int'l** at 2130 in EE. Report on Trump. Good (McGuire-MD)
- 7385 **CHINA Voice of Zhonghua** - Beijing, 1147-1156 Jan 31, man and woman announcers in Chinese language directed toward Taiwan. //5925 (fair) and 9410 (poor). This frequency was fair to good. (D'Angelo-PA/FCDX)
- 7420 **IRAN Voice of the Islamic Republic of Iran**, 0019, 1/18/17, in Spanish. Mellow music loop IS, 0023 Woman speaks briefly (couldn't understand due to QRN), Iranian NA, Qur'an chant. Fair - poor with fading. (Taylor-WI)
- 7445 **MADAGASCAR BBC** relay. 1950 1/16. EG report about research projects in Africa. BBC World Service ID. (Purdum - MI)
- 7465 **SINGAPORE BBCWS** (Kranji) 2/7 1545 Feb. 7. W presenter with news magazine. Fair to Poor, choppy. (Barton-AZ)
- 7475 **ALBANIA Radio Tirana** Feb 7 at 0229, NO signal from R. Tirana; propagation remains degraded, but Romania is audible on 40m. Expect English to North America in A-17 at 0130 to resume 9855 or so (Hauser- OK)
- 7505 **UNITED STATES WRNO**, 1-17-17, 0032-0039. Pop music followed by casual ID and address. In English. Music till 0039 when signal abruptly gone. Good. (Cichorek-NJ)
- 7510 **GUAM KTWR** (P), 1406, 1/16/17, in Korean. Woman vocal accompanied by piano, woman Announcer Bridge into a hymn on a piano, woman and man alternating. Fair. (Taylor-WI)
- 8989 **NICARAGUA El Buen Pescador**, 2233-2251 (USB). Male preacher broadcasting to / talking with fishermen. Religious talk in Spanish with frequent mention of Dios. Weak to moderate signal in heavy noise with moderate fading. 1/18/2017 (Evans - TN)
- 9380 **INDIA Air** 0213UTC to 0224UTC. SINPO Rating 45344. The S drops to a 3 at times, as the signal gets a bit squirrely. Some lovely indian music, which is enjoyable. A bit of noise and fading, but overall, still pretty listenable. (Walker-AK)
- 9390 **THAILAND Radio Thailand**, 1210-1215, 2-3-17. In listed Malaysian, woman talking till 1215. Heard probable ID and interval signal by man. End of transmission at 1215. Poor signal. (Cichorek-NJ)
- 9390 **THAILAND Radio Thailand**, *1228-1259* Jan 31, open carrier to gongs at 1230 and opening ID "This is Radio Thailand, the English language service". News followed brought to us by Royal Thai Airlines. Plug pulled mid-sentence. Fair. (D'Angelo-PA/FCDX)
- 9395 **UNITED STATES WRMI** 2140-2205+ music/Pentecostal service fair 1/15 (Prodan-ME)
- 9435 **NORTH KOREA Voice of Korea** 1430, 1/16/17, in French. IS, ID by man then woman, DPRK NA, another ID into talk by man and woman announcers alternating, typical DPRK operatic choir music. Fair. (Taylor-WI)

- 9435 **NORTH KOREA** *Voice of Korea*. 1605 1/28. Korean orchestral mx, both traditional and military-sounding. ID 1612 as "This is the Voice of Korea". (Purdum - MI)
- 9445 **INDIA AIR** 2055-2115 News and commentary about upcoming parliamentary discussion of goods and services tax, good signal on 9445, poor on 11670 on 1/30/17 (Feinberg-NY)
- 9445 **INDIA All India Radio**, Bengaluru. 2205 1/25. EG nx, ID at 2210, into Indian pop mx. (Purdum - MI)
- 9520 **CHINA PBS** *Nei Menggu* (P), 2242, 1/18/17, in Mandarin. Woman and man alternating with woman then continuing at some length eventually over to the man who continues. Poor. (Taylor-WI)
- 9530 **ASCENSION Radio Akbar** 2213-2215, 1-30-17. Man in listed Pulaar language with ancmts and ID Transmission ended at 2215. Fair. (Cichorek-NJ)
- 9535 **MADAGASCAR Madagascar World Radio**. 2159, 1/17/17, in Mandarin. IS, 2200 fanfare, Man with mention of "Madagascar 1/16/17. (Taylor-WI)
- 9555 **SAUDIA ARABIA Radio Saudi** 2217-2222, 1-30-17. Two women in Arabic followed by man with instls. In background. Poor (Cichorek-NJ)
- 9560 **OPPOSITION Fuusato no Kaze**, TAIWAN (P), 1437, 1/16/17, in Japanese. Woman talking slowly at some length. Fair. (Taylor-WI)
- 9570 **CHINA China Radio Int'l** at 0005 12/7 in EE with Language Café. Fair (McGuire-MD)
- 9570 **CUBA China Radio Int'l** at 1210 1/21 in Chinese. Fair. (Sives-NJ)
- 9580 **AUSTRALIA Radio Australia** (Prodan-ME)
- 9580 **AUSTRALIA ABC** 1222-1301 with ABC Live with talk and music from musical duo, fair reception 1/27/17. Also heard 1/30/17 1202-1230 with news, weather and discussions of Brexit and the fairness/unfairness of the Treaty of Versailles. Fair to poor signal. (Feinberg-NY)
- 9580 **AUSTRALIA Radio Australia**. 1440 1/22. EG feature about what keeps conspiracy theories alive. Promo for "Nightlight" on ABC. (Purdum - MI)
- 9600 **VATICAN Vatican Radio**. 2225-2230, 1-30-17. Talk in Chinese by man. Interval signal at 2220 and ended at 2230. (Cichorek-NJ)
- 9650 **GUINEA Radio Guinée**, 2332-0006 Jan 21, nice program of "Musica African" hosted by a man announcer with French language talks. Tuned out but re-checked at 0026 and signal was gone. Fair to good. (D'Angelo-PA)
- 9650 **GUINEA Radio Guinée**, Conakry. 2232-2241, 1-30-17. Two men in vernacular sounded like a play. Running dialogue with faint percussion instrument in background. Fair signal. (Cichorek-NJ)
- 9650 **GUINEA, R. Guinea**, 2121-2140, 2-4-17. Man in vernacular followed by lively vocals. Good signal. (Cichorek-NJ)
- 9650 **GUINEA Radio Guinee**. 2136 1/28. Afro-pop mx with lots of drums, song intros & brief comments about the artists by M in Radio (Purdum - MI)
- 9710 **FRANCE Radio Algerienne** 2124-2200* Jan 18, male vocal followed by a man announcer with talk in the Arabic language. A long talk by another male. Fair to good. (D'Angelo-PA)
- 9730 **CHINA China Radio Int'l**. 1340 1/25. EG M & W with nx items about Chinese economy. CRI ID 1345. (Purdum - MI)
- 9750 **JAPAN NHK World / R Japan**, 1545 Feb. 6. Long talk by M in JJ, musical bridges. Pips at TOH, ID and apparent news. Good. (Barton-AZ)
- 9805 **SOUTH KOREA KBS World Radio** 2237, 1/16/17, in Indonesian. Woman, musical bridge to the same woman announcer, theme like music, ID then same woman continues, same theme into second woman. Fair. (Taylor-WI)
- 9880 **THAILAND Voice of America** 0025-0032, 2-11-17. Woman in Chinese, long talk, no ID at the half hour. Jamming made for poor reception. (Cichorek-NJ)
- 9900 **EGYPT Radio Cairo** (P), 2117, 1/15/17, in English. Man with a series of news stories about Egypt into a program of Egyptian music with a woman announcer. Modulation was good and signal was fair, but ruined by a strong hum. (Taylor-WI)
- 9900 **IRAN VIRI** Feb 5 at 1427, weak Qur'an and then talk at S5. Thought it might be Cairo, but at this hour it's VIRI in Hindi. 1420-1520, 500 kW due east from Sirjan (Hauser- OK)
- 9900 **EGYPT Radio Cairo**. 2115 1/28. EG, "Greetings from Radio Cairo", times/frequencies, nx. (Purdum - MI)
- 9915 **ENGLAND BBC**, 1827 1/19. EG end of report on world trade, World Service ID. (Purdum - MI)
- 9935 **GREECE Helliniki Radiophona**. 2005 1/20. GR mx w/bouzouki and traditional instruments; dances and ballads. (Purdum - MI)
- 9955 **UNITED STATES Hobart Radio Int'l**, 0453-0502 Jan 22, man announcer in English with pirate DX tips for North American and European stations. ID at 0458. Fair. (D'Angelo-PA)
- 11580 **SLOVAKIA Radio Slovakia Int'l** at 2100 1/15. Weekly news program. Fair to poor. (Sives-NJ)
- 11580 **SLOVAKIA Radio Slovakia** at 2100 2/4 in EE with discussion on international students. Fair to Poor. (Sives-NJ)

- 11610 **MADAGASCAR** *Madagascar World Voice*, 2130, 1/15/17, in Mandarin. Radio drama, 2135 announcement with mention of "mwindindia.in" & "Bible in living sound," mentioned, then back to radio drama. Good. (Taylor-WI)
- 11660 **ASCENSION ISLAND** *BBC* 1942-45 2 m in discussion; off at 1958; fair-good 1/10 (Prodan-ME)
- 11660 **FRANCE** *Radio Algerienne*, 1849-1851, 1-31-17. Man in AR with Quranic recitation. Good signal. (Cichorek-NJ)
- 11670 **INDIA** *GOS All India Radio*, 2158, 1/16/17, in English. Indian film music, full ID by a man, another ID by a woman with news. Good. // 11620 fair. (Taylor-WI)
- 11670 **INDIA** *All India Radio*, 1856-1900, 1-31-17. M&W in EG under heavy jamming. MX and vocals to 1900 then formal ID by YL in EH. Fair signal. (Cichorek-NJ)
- 11675 **PALAU** *World Harvest Radio*, 1445-1453. T8WH. Talk in English by a male evangelist. Schedule indicates "Believe Right" programming. Weak signal with deep fades in heavy noise. Above the noise about 50% of the time. 1/22/2017 (Evans - TN)
- 11725 **NEW ZEALAND**. *RNZI*. 2/7, 0600, Feb.7. W with newscast. Good (Barton-AZ)
- 11735 **ZANZIBAR** *Zanzibar Broadcasting Corporation* (P), 2020, 1/17/17, in Swahili. End of song, woman announcer. Group singing with pulsing percussion Fair. (Taylor-WI)
- 11780 **BRAZIL** *Radio Nacional de Amazonia*. 1-18-17, 2052-2055. In Portuguese, woman interviewing man. Musical bridge at 2054 followed by man with ments of "Amazonia" and Brazil. Fair. (Cichorek-NJ)
- 11780 **BRAZIL** *Radio Nacional De Brasilia*, 0015-0020, 2-11-17. Nice Brazilian vocals by female artist. Comfortable, armchair copy. Male host between songs. (Cichorek-NJ)
- 11810 **ASCENSION ISLAND** *BBC*. 2100-2105, 1-18-17. In English, TP's and World Service ID followed by regional news. Military maneuvers in central Africa. Fair to good. (Cichorek-NJ)
- 11810 **ASCENSION ISLAND** *BBC* relay. 2035 1/24. EG football match between Ivory Coast and Morocco. World Service ID. (Purdum - MI)
- 11815 **BRAZIL** *Radio Brasil Central*, 0334-0405 Jan 13, Brazilian pop tunes with a man announcer with Portuguese language talks, jingles, ID and ads with Mary Hopkins singing "Those Were the Days" ay 0357. Poor to fair. (D'Angelo-PA)
- 11820 **SAUDI ARABIA** *Radio Saudi Arabic* 1806-20 m chanting Koran somewhat melodically, them m Ann; fair 1/10 (Prodan-ME)
- 11820 **SAUDI ARABIA** *RSKSA*. 1806 1/19. Koran recitation in Radio (Purdum - MI)
- 11850 **BOTSWANA** *Voice of America*, 2059-2100. OM in listed Hausa then formal ID in EG followed by Yankee Doodle IS and sign-off at 2100. Fair. (Cichorek-NJ)
- 11925 **BRAZIL** *Radio Bandeirantes*, 0525-0540 Jan 15, pop vocals seemingly hosted by a man announcer with Portuguese talks and time pips noted at 0530 over music. Poor. (D'Angelo-PA)
- 11930 **UNITED STATES** *Radio Marti* Spanish 1825-30 m & f Ann - promos for Radio & TV Marti, times & frequencies; 1830-33 interview; v good 1/10 (Prodan-ME)
- 11945 **MADAGASCAR** *Radio Feda* Arabic 1912-1956 earnest m speaking with some piano accompaniment, m singing with string accompaniment; more m & f singing & dialog; at 1954 f ann "Radio Feda," off at 1956; very good! 1/10 (Prodan-ME)
- 11965 **BULGARIA** *Dimtse Radio Erena*, 1751-1753. Talk in Arabic by two men. Poor to moderate signal with deep fades. 1/21/2017 (Evans - TN)
- 11980 **AUSTRIA** *AWR*, 2100-2104, 1-31-17. OM in EH with Bible discussion. Fair. (Cichorek-NJ)
- 11995 **FRANCE** *Radio France Int'l* French 1834-40 m & f in discussion; poor 1/10 (Prodan-ME)
- 12025 **INDIA** - *GOA All India Radio*, 1709-1727. Hindi music occasionally heard breaking through the noise. Very weak, threshold level signal with heavy fading. Strongest at 1723, but down again a couple of minutes later. 1/22/2017 (Evans - TN)
- 12075 **BOTSWANA** *Voice of America* French 1937 "Report from Washington" re hearings & more; 1957 sta ID & rap filler; fair-good 1/10 (Prodan-ME)
- 12075 **ITALY** *Voice of America*, 2110-2130, 1-31-17. YL in EH with conversational English lessons. Abrupt end of transmission at 2130. Good signal. (Cichorek-NJ)
- 12075 **BOTSWANA** *Voice of America* 1952 1/20. Talk by M in FR about American politics, mentions of Trump and Obama. VOA ID. (Purdum - MI)
- 13680 **ZAMBIA** *Voice of Hope Africa*, 1548-1558. Religious vocal music with short talk segments in English by a man. Weak signal with fading, just above the noise. Too much noise to understand spoken content. 1/7/2017 (Evans - TN)
- 13680 **ZAMBIA** *Voice of Hope Africa*, 1548-1558. Religious vocal music with short talk segments in English by a man. Weak signal with fading, just above the noise. Too much noise to understand spoken content. 1/7/2017 (Evans - TN)
- 13745 **THAILAND** *Radio Thailand* in English. 0000UTC to 0022UTC on January 26th. The signal overall on this date is pretty strong but there's a bit of fading, however not too bad overall (Walker-AK)

- 15140 **CUBA Radio Habana Cuba** at 1900 12/21 in AA. Good (McGuire-MD)
- 15140 **OMAN RSO** 1420-1457 w DJ and Rock Music, including Linkin Park and The White Stripes. IDed as 90.4 FM. Into Arabic at 1457, fair signal improving to good on 1/26/17. (Feinberg-NY)
- 15190 **BULGARIA IRRS TUC Radio**, 1506-1510. Religious talk in English by a man. Moderate signal strength with deep fades. 1/15/2017 (Evans - TN)
- 15240 **UNITED STATES Radio Munansi** via WWRB at 1705 1/28. Music and chorus. (Sives-NJ)
- 15275 **SRI LANKA Deutsche Welle**, 1540-1544. English language pop music. Talk in Swahili between a man and woman at 1542. Poor to moderate signal with fading. 1/7/2017 (Evans - TN)
- 15275 **SRI LANKA Deutsche Welle** 1540-1544. English language pop music. Talk in Swahili between a man and woman at 1542. Poor to moderate signal with fading. 1/7/2017 (Evans - TN)
- 15435 **PHILIPPINES FEBC**, 0015, Feb. 8. Regional music, M presenter in (listed) Burmese-Thai dialect (Shan). Good. (Barton-AZ)
- 15555 **UNITED STATES WJHR**, 2144-2154, 1-21-17. In English, OM on a rant about the confederate flag and freedom. Sounded like before a live audience or recorded. ID and address at 2154 and end of transmission. Fair. (Cichorek-NJ)
- 15600 **UNITED KINGDOM Voice of America** at 1445 1/21 in Kurdish (presumed) Poor (Sives-NJ)
- 15620 **VATICAN CITY Radio Veritas Asia** via Santa Maria de Galleria. 1544 1/28. Church service, prayer/response between M & W in Filipino (presumed). Address in EG, off 1553. (Purdum - MI)
- 15620 **ITALY Radio Veritas Asia**, 1510-1515, 2-9-17. Man in listed Filipino with rambling talk. Poor. (Cichorek-NJ)
- 17580 **CUBA Radio Habana Cuba** 1300- Spanish, ID and headlines; good 1/7 (Prodan-ME)
- 17730 **CUBA Radio Havana Cuba**, 1522-1525, 2-9-17. Male ancr. with lively female vocals. Fair. (Cichorek-NJ)
- 17895 **VATICAN Voice of America**, 1617-1640 Jan 21, English service with talk about the current situation in Gambia followed by Swaziland. Several IDs and African vocals from 1633. Good signal. (D'Angelo-PA)
- 17895 **VATICAN STATE Voice of America** at 1605 1/21 in English. News Program 'Nightline America'. (Sives-NJ) 

NASWA 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.

NASWA Facebook Page

Join moderator **Richard Murphy** <richard.murphy@swri.org> at the club's Facebook page which provides members with another way to keep in touch. 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, simply enter "North American Shortwave Association" into the search box on the top toolbar. If you are into social media, give it a try. 

On the Shortwaves

www.ontheshortwaves.com • Devoted to the history of shortwave broadcasting and the shortwave broadcast DXing hobby

< www.ontheshortwaves.com > Update, January 29, 2017 -- Under "DX History/Stations," we have posted two BBC items from very different eras. One is a picture of the antenna of 5SW, the BBC experimental shortwave station, in 1929. It had come on the air in November 1927 and was located at the Marconi plant. The other is a BBC quarterly folder for the period October-November 1962 containing an hour-by-hour schedule of the General Overseas Service and various other items. Thanks to Bob LaRose for sending this along.

< www.ontheshortwaves.com > Update, February 5, 2017 -- It was a bad week. It looks like Radio Australia, as well as the Northern Territory Shortwave Service (Alice Springs, Katherine, Tennant Creek), are no more. One of the selling points for preserving these services was their ability to provide emergency broadcasting during cyclones. Under "DX History/Recordings" we have posted two examples. The first is a recording of a Shepparton relay of local ABC Brisbane programming during Cyclone Larry in March 2006. The second is a Shepparton relay of ABC Far North programming during Cyclone Monica in April 2006. Both were heard on 6020 kHz. In the case of Monica, a letter to the Cairns office of ABC Far North brought a nice reply with some interesting information, including an ABC Far North folder on tracking cyclones and staying safe. Radio Australia had been providing emergency broadcasting services for many years, as evidenced by a QSL for the Shepparton relay of mediumwave 8DR-Darwin, which had lost its transmitter during Cyclone Tracy, Christmas 1974. The 8DR programming was sent to Shepparton where it was relayed back on shortwave for the benefit of the 30,000 Darwin evacuees and also for the surviving Darwin mediumwave stations, which picked it up and relayed it. The Radio Australia shortwave transmitters in Darwin, which had come on the air in 1968, were also knocked out, and returned to limited service only in 1979. Some 71 people died in Cyclone Tracy. -- And under "Specialized Resources," Adrian Peterson journeys from Indiana to Australia in three new "Wavescan" stories: "Indiana 200th Anniversary: Early Radio Broadcasting Stations in Indiana" (Wavescan N413, January 22, 2017), "Goodbye, Radio Australia" (Wavescan N414, January 29, 2017), and "The Quaint Story of Waltzing Matilda: Australian Anthems" (Wavescan N414, January 29, 2017).

< www.ontheshortwaves.com > Update, February 12, 2017 -- If you haven't heard of the Junior Radio Guild, which functioned during 1928-31, you are not alone. For the full story, look under "DX History/Clubs & Publications."

< www.ontheshortwaves.com > Update, February 18, 2017 -- Look under "DX History/Stations" for some interesting items about Radio Free Europe: several philatelic items from Poland that feature RFE (these are from the post-Soviet years); and a couple of pins from the mid-1950s "Crusade for Freedom" era (the supposed-private organization behind RFE, which was actually funded by the CIA). Newspaper boys were enlisted to solicit donations from customers, and the "newspaper boys" pins must have been part of that effort. -- Under "Specialized Resources," Adrian Peterson offers two new articles: "The Radio Scene in Madras-Chennai - II" (Wavescan N415, February 5, 2017), and "Puerto Rico on Shortwave: The Early Years" (Wavescan N416, February 12, 2017).

North American Shortwave Association
45 Wildflower Road
Levittown, Pennsylvania, 19057



The Journal of the
North American Shortwave Association

ISSN 0160-1989

FIRST CLASS MAIL

First Class Mail
U.S. Postage
PAID
Levittown, PA
Permit No. 319

Executive Director: Richard D'Angelo, 2216 Burley
Dr., Wyomissing, PA 19810

Publisher/Business Manager: Bill Oliver, 45 Wild-
flower Rd., Levittown, PA 19057

Executive Council: Jerry Berg, Ralph Brandl,
Richard Cuff, Rich D'Angelo, John Figiozzi, Bill
Oliver

EDITORIAL STAFF:

Musicings: Jerry Luttreck, P.O. Box 1220, Grantam,
NH 03753-1220

Doaktop Publishing/Graphics: Ralph Brandl, 128
Greenack Blvd, Middletown, NJ 07748

Easy Listening: Richard Cuff, 42 North 37th St,
Allentown, PA 18104

Shortwave Center: John Figiozzi, 45 Algonquin Rd,
Clifton Park, NY 12065

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

Adrian Peterson's Diary: Adrian Peterson, Box
29233, Indianapolis, IN 46229

NASWA Awards: Gary Neal, PO Box 1, Cockeysville,
MD 21030

Listeners Notebook: Rich D'Angelo, 2216 Burley
Dr, Wyomissing, PA 19810

Printed Radio Report: George Zeller, 3492 W 123rd
St, Cleveland, OH 44111

QSL Report: Sam Barro, 78 Bakeman Rd, Thomass-
ton, CT 06787

Scoreboard: Gary Neal, PO Box 1, Cockeysville,
MD 21030

Kim's Column: Dr. Kim Elliott, 5001 North
25th St, Arlington, VA 22207

Tropical Band Loggings: Scott Barbour, Jr, PO
Box 893, Intervale, NH 03845

International Band Loggings: Dave Turnick, 317
Spohn Rd, Sinking Spring, PA 19608

MEMBERSHIP FEES:

United States (First Class Mail) \$31.00

Canada (First Class Mail) \$38.00

Overseas (U.S. Air Mail) \$53.00

All remittances must be in U.S. funds and mailed to:

NASWA
45 Wildflower Road
Levittown, PA 19057
U.S.A.

