

The ~~NASA~~ Journal

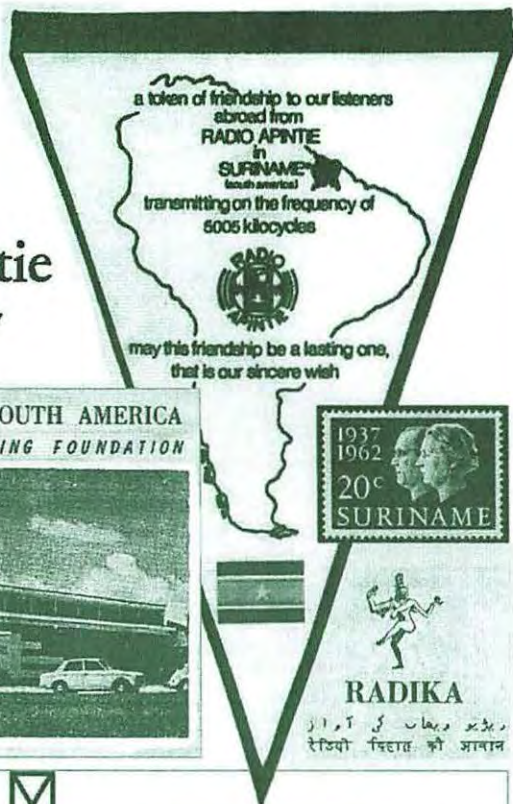
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OCTOBER 2017



Radio Apintie

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This month's cover features shortwave broadcasting activity in country of Suriname. **John Herkimer** has prepared a smorgasbord of past (and present) shortwave radio activity in this small Latin American country. Radio Apintie is occasionally reported on the bands from time-to-time although there appear to be long periods when they are missing from shortwave. See this month's *Listeners Notebook* for a recent logging from New Zealand! Have you heard any of the shortwave stations from Suriname? Why not send a Musing with your memories of any of these stations to **Jerry Lineback**?

Our good friends at Universal Radio will be moving to a new location in the greater Columbus, Ohio region by mid-October. Universal Radio will move its operations to a more efficient location in the Columbus, Ohio area where they can continue to serve their loyal customer base. This will be the 4th location change since Universal Radio was founded back in 1942. They look forward too many more years of serving the amateur and shortwave communities which they have done for 75 years. The new location is a 30-minute drive from the familiar Reynoldsburg location: Universal Radio, 651-B Lakeview Plaza Blvd., Worthington, OH 43085. Good luck to Fred, Barb and the entire Universal Radio gang at the new location. Personally, I have been to two previous locations, the Aida Drive and the Americana Parkway locales but plan to add the new Lakeview Plaza soon.

For those that collect Radio Free Asia (RFA) QSLs, the station recently announced its 21st anniversary QSL for the collection available through December 31, 2017. RFA's first broadcast was in Mandarin on September 29, 1996 at 2100 UTC. The new design incorporates one graphic into four separate QSL cards and giving listeners options sub-


mitting reception reports. You will receive ¼ of the design for one reception report, or get the full sheet when sending them at least four reception reports. This is RFA's 65th QSL design and is used to confirm all valid RFA reception reports through December 2017. RFA encourages listeners to submit reception reports. Reception reports are valuable to RFA, as they help them evaluate the signal strength and quality of their transmissions. RFA confirms all accurate reception reports by mailing a QSL card to the listener. RFA welcomes all reception report submissions at <http://techweb.rfa.org> (follow the QSL REPORTS link) not only from DXers, but also from its general listening audience. Reception reports are also accepted by email at qsl@rfa.org and by mail to: Reception Reports, Radio Free Asia, 2025 M. Street NW, Suite 300, Washington DC 20036.

The new shortwave DX season is here meaning summer static and summer vacation are now behind us (for the most part). Each day has more darkness meaning the shortwave spectrum listening conditions are continually improving. It is time to get behind the dials of our communications receivers once again and report what you are hearing to our *Log Report* columns and the club's weekly electronic *Flashsheet*. As QSL verifications arrive, make sure you send that information to the *QSL Report* column. If you hear an interesting program on shortwave make sure other members know about it through either the *Easy Listening* or the *Musings* columns. It is the contributions of our members that make *The Journal* a valuable tool to enhance shortwave listening activity.

Finally, it is not too late to pick up the free download of the 19th edition of *Domestic Band Survey* (DBS) edited by **Anker Petersen** which available for downloading at www.rfa.org.

dswci.org. This year became the first year that the DBS was offered free of charge to all those shortwave radio listeners interested in the tropical bands and domestic stations. Also, the monthly *Tropical Bands Monitors* can also be found here, free of charge! These are excellent hobby resources and the price can't be beat! When I head to French Creek

State Park for a DXpedition, the DBS is the first reference material that I pack. It is highly recommended.

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

Musings

Jerry Lineback • 3851 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 October 25, 2017.

Bob Fraser, 255 Lincolnville Ave., Belfast, ME 04915-7404

Bob sent a Musing to ye editor to point out that I had two different radio programs mixed up in my previous comments regarding HCJB.

Sparky was on "Big Jon and Sparky," a program about what a kid would do. Big Jon was his adult friend. It was on HCJB's "Passport" program. Lackmann (2000) says it was syndicated and ran from 1948 to 1958. Dunning (1998) says it was also on ABC Network from 1950 to 1954. Bob remembers hearing it on domestic radio.

The gremlin with the magic twanger was Froggy on "Smilin Ed McConnell and the Buster Brown Gang. It was a typical kid's show with lots of yelling. The gremlin used the magic twanger to become visible or invisible to torment people, mostly an old lady character. It was only on domestic radio, mostly on Saturday mornings. Lackmann (2000) says it was on CBS from 1929 to 1936, on NBC from 1937 to 1952, and on ABC its last year in 1953. The whole time it was sponsored by Buster Brown Shoes.

References: Lackmann, Ron, 2000, Encyclopedia of American Radio, Sparky on pages 39-40 and McConnell on page 252. Dunning, John, 1998, Encyclopedia of Old Time Radio, Sparky on page 185, McConnell on page 620.

Bob says these programs certainly took him back, also ye editor. Gerry Dexter also sent a note correcting my musing. Thanks gentlemen.

Larry Colton, lcolton1@tampabay.rr.com, 10893 79th St E, Parrish, FL 34219

Richard Murphy's musing in the July edition inspired me to contemplate the current state of our hobby, and reminisce about the very different conditions from years ago when I was first introduced to the wonder of shortwave radio. As are many of us, I have been involved in the hobby quite a few years-dating back to 1964 when I obtained an "all band" transistor radio as a teenager. I remember the awe and excitement when hearing stations from around the world for the first time-amazed to be hearing real time news and programs from such places as Moscow, Ecuador, Europe etc. From there I expanded my interest into BCB DXing and QSLing (I am sure many of us remember receiving our copy of "Soviet Life" and our very own copy of "Mao's Little Red Book"-long gone but not forgotten). As time passed, and other things such as college and the military occupied more of my time, the time available to devote to the hobby ebbed and flowed. I did, however, continue to come back at various times over the years to discover the increasing loss of stations and the ever increasing noise on the bands. For awhile the noise was

so bad at my location that it was virtually impossible to hear much of anything. About a year ago I decided to invest in a Wellbrook loop to see if that would reduce the noise to an acceptable level and gratefully-it has worked out better than I expected. Although the noise is not totally gone, I am able to control it enough to catch up with some old station friends (alas, Radio Australia is no more-which is sad, as I credit it with inspiring me to visit the country back in the early 90s) and spur me to visit my radio more frequently. Unfortunately, the number of stations available is not anywhere near what it was-but, after all of these years, I still get a thrill hearing that faint signal from miles away. I am sure that is why we all still do what we do.

Lastly, I would like to thank the editors and contributors of the Journal for the time and effort they put in (even though I may not have been very active, I always maintained my membership in NASWA). I still look forward to receiving the monthly Journal and appreciate the efforts of everyone to make sure it gets out. Sorry for the lengthy musing-I guess that is what happens when you get nostalgic for the "good old days".

Bill Tilford, bill1tilford@aol.com, Chicago, IL

My world/novelty music program, Uncle Bill's Melting Pot, has moved to Sundays, 6:00-6:30 EDT (currently 2200-2230 UTC, then 2300-2330 after the time change in the fall) on WBCQ 7490 kHz, which puts it right after Marion's Attic, a wonderful program that plays recordings from the 1890s to the 1950s. It is possible that the half hour following will also be a music program, and then Harry Shearer's Le Show, which also includes music, comes on, for a pretty solid entertainment block on WBCQ 7490 late Sunday afternoon/early Sunday evening.

Georg Simon, gusimon@att.net, Glenside, PA

Subject: "the State of Shortwave Listening Hobby--- One Member's Perspective.

We love our Radio hobby. We appreciate getting each edition of the NASWA Journal. The July-2017 edition featured some new topics, including the first part of my attempt to find out whether there is any point to reconnect to this fun Hobby this late in the game, given its perceived "almost dead" state. Some of us are active members.....some are passive ones.....some like to write, others have a problem with it and thus are "quiet". Some of us even like to stir the pot on occasion, especially when we perceive to be treated like mushrooms.....you know, "keep them in the dark.....". Pundits serve a useful function, even if management might consider them complainers.

And, all of us, I think, have loved the SWL Fests, especially earlier ones located near the KULPSVILLE KITCHEN, bless its soul. I think it was at least seven conferences for me there. Mingling with out-of-towners was much better, courtesy of a hoagie shop next to the Inn at Towamencin. Plus, the hospitality room (suite) was usually very active, and someone actually was assigned to run it. After two additional conferences in Plymouth Meeting it was time to take a breather. Besides, ski trips became more attractive. Hardly anyone had shown up in the small "hospitality room" setup (with a keg). I learned later that most cared to follow invitations to "clique" rooms....commuters not invited.

My initial contact for possible reconnect was via NASWA-Notes editor Rich D'Angelo. That was before I learned that we are now governed by THE BIG SIX COUNCIL, of which Rich is the head. He was very forthcoming answering specific questions, but did not volunteer anything new to our email discussion.

Years ago I had won a copy of Secret Monitoring Frequencies at the FEST and remember DR DX assuring me "what you always wanted to know....but were afraid to ask". I have been asking ever since. Additional research surprisingly revealed that there has been no

change whatsoever in the disclosure box on the back page of the JOURNAL, at least not since the end of 2014. You might say that my innocent inquiry about the "ScannerScum" led this analyst to embark on a "big dig". I was curious as to the status of a bunch of guys who regularly showed up in Kulpville in full force --- and who were always helpful answering the latest technology questions. They also presented well attended sessions.

What the heck had happened to the entire Radio Hobby since 2010?

A preliminary assessment tells me that there are many fond memories, but there was also the dysfunctional local NASWA users group. You never knew whether the meeting might be cancelled due to lack of interest. Lack of support from above was also cited by the leader. Dancing in the bar area of "the Inn" was some consolation.

I was already aware that NASWeb was dead (since 2010)...and not responsive to real-time inquiries. When I learned that our webmaster --- who has been lauded for his expertise in publishing -- is one of the BIG SIX but makes his "CONTACT US" link with us non-functional, it became clear what might be going on. Being involved with computers for 35 years, including some application design, made me realize that our webmaster was not interested in an upgrade from archaic Text mode to a more attractive multi-media website..it seemed like we were confined to PLAIN TEXT mode forever. I suspect he might also have been overridden by the others to only update the SWL FEST-portion. I notice that the 2018 SWL FEST is already being hyped there with glorifying (some perhaps misleading) announcements.

Later on in my investigation someone alerted me to Don Jensen's HISTORY of NASA (later changed to NASWA). An extremely well-written archival report. A wealth of documentation. Lots of good stuff. And I learned about Charlie Loudenboomer. Where has he ended up? He might have a place in our pundit fan club.

I still have to "interpret" any between-the-lines meanings. Apparently there were several major conflicts concerning a lack of defined editorial policy --- sounds of today.

Call me a "passive" member when it comes to DXing and Loggings, who has always been appreciative of all the active volunteers --- in particular the sub-editors --- who are engaged and passionate in what remains of our Radio hobby. And now we learn about FAKE loggings, as someone in the Journal seems to claim?

In the final analysis, whether there is a point in attempting to return to the Radio Hobby, that might depend mainly on the level of transparency that the BIG SIX are willing to show. That means volunteering email addresses by all six, not just on a request basis.. It means periodically informing on so called administrative changes. It also means telling us how responsibilities might be divvied up, and who has final say on important decisions. There is such a practice as common sense disclosure. What we have now is too much secrecy. Someone please illuminate if I am off base. And we should be assured that all members are equal when it comes to access to information. Social media technology has created a different "access to information" environment.

Everything touched on so far might be irrelevant in a few months. Unless we get some statistics there is no point in bringing up another big mystery --- documented or not documented --- namely, Editorial Policy. As I mentioned, it is no secret that some aspects of the Radio Hobby are dead already. At my age, how can the Festmeisters possibly psych me up this early for something that I might --- God willing --- be able to attend 10 months hence? "Plan ahead" I am being told. Right now we are planning, but for a River Cruise --- taking scanner and possibly SWL radio along.

In conclusion: in my July piece for Musings I had attempted to solicit some preliminary reaction from NASWA members to help me in my decision on whether reconnecting and renewing make sense at this stage. There has been some really good and positive early feedback by someone who is a volunteer "thinker"-member. I do not believe that any new ground will be broken with this follow-up MUSING. But I hope that at least a couple of responses help me lead the way in at least coming up with a final one-page summary finding, announcing >>>>.....

....Fond Memories, NOSTALGIA, and wishful thinking.

Upon further reflection.....Nostalgia and associated trivia are good mental therapy; Radio Canada was very popular, so was Ian McFarland; I occasionally still listen to his CD lectures on languages; Ian and I were lucky winners of an ETON E1 at the same Winterfest raffle.

So, what is the REALITY? Anybody who still writes about our hobby does have his/her own agenda. My agenda is to stir the pot when warranted by what is happening or NOT happening. Listen to the Grumpy Pundits on XM when you get a chance. Is there any equivalent to such group in our hobby, pundits that tell it like it really is these days? Please stay tuned. Up to this checkpoint I would be satisfied with just learning how many are still subscribing to the Journal. I have been waiting for an answer from our Publisher/Business Manager to respond to my inquiry. Does anyone have an answer as to whether official NASWA membership records are kept?

Vincent E. Henley, vincehenley@earthlink.net, Washington State

A Mini DXpedition with an ICOM IC-R8600: At the beginning of this last July in 2017, I was fortunate enough to acquire an ICOM IC-R8600, and that event set the tone for the waning days of summer. I had scheduled a road trip across country for the end of July, and I thought that it would be interesting to set up temporary listening posts at various points in the journey. I had originally thought to use an ICOM IC-R75 as the main receiver for that task, but now I thought that the R8600 would be perfect for this operation. I had already designed an antenna system and an operating setup that I thought could be quickly deployed, operate for a few hours on battery power, and then be quickly packed up again until the next use. The battery would be charged in my vehicle as I traveled to the next temporary listening post. There is much to be said for experience, and, I had none using this setup. Of course, the best plans soon went awry.

The first thing that happened was that it took excessively long to deploy the antenna. Part of my design for the antenna supports, while sturdy and secure, was tedious and slow to set up. Instead of the half hour or so that I had envisioned, it took about two hours to get just the antenna set up, using valuable listening time for an unproductive activity. Then I discovered that the battery pack, an exotic lithium-ion construct, had an internal fuse that was blown, (or some other internal problem) and I could neither charge nor discharge the battery. It was essentially dead. Of course, the fuse was inside a case that could not be opened because it used special security screws for which I had no tools. Actually, I don't think God has these particular tools, unless He lives in China. Things went downhill from there. The net was that for all of my cross-country trip out and return I never was able to set up a temporary listening post and work DX from a quiet, low noise location. My initial attempt was a complete failure.

Fast forward to a month after I returned home: By now, I had solved the battery problem by reverting to some less exotic, and very reliable, sealed lead-acid batteries of 18AH and 26AH respectively. I had also greatly improved the antenna support system so that I could deploy a nearly 200-foot dipole 16 feet off the ground in just about half an hour. I

used extendable poles made from fiberglass and aluminum that I had fitted with marine-grade blocks for hauling the antenna up, and welded up special fixtures that could be quickly driven into the ground, and to which the poles could be securely clamped using a Vise-Grip welding clamp. I tested the batteries, and determined that I could run the R8600 for more than 15 hours on the 18AH battery and more than 21 hours on the 26AH battery before needing a recharge. Between both batteries, I could operate for more than 37 hours without recharging. This is operation with full display and full listening volume on the external loudspeaker, that is, the maximum current drain for the receiver. This was more than enough for my intended purpose.

I waited until the weather forecast was favorable for the best part of a week and then set up my mini-DXpedition in my back garden on September 12, 2017. I deployed the nearly 200 foot dipole at 16 feet, mounted an ICOM AH-7000 discone good for up to 1.3 GHz at 12 feet and drove a 5/8" ground rod deep into the soft, damp, soil of my back lawn. I then erected a 12-foot-by-12-foot screen room within cable reach, and set up tables and a good swivel chair inside, along with a bright desk light and a small ceramic heater for the cool evenings. For this mini-DXpedition, the heater, desk lamp and battery charger were powered by an extension cord plugged into an outdoor outlet. In the field, I have a very quiet 2 KW generator for use at night and solar panels for use during the day. For this operation, I didn't deploy either the generator or the solar panels. I populated the operating table with references, log sheets, and a smart phone with a shortwave schedule app for use in identifying stations, cabled everything together, and was in business.

The first loggings began after 0200 UTC on September 13, 2017. The R8600 is a very good radio. ICOM has clearly done a great many things right in designing this receiver for general listening, covering from 10 KHz to 3.0 GHz, cellular excepted unless you have a non-USA unit. There is probably a software work-around for this if you must listen to encrypted cell phone chatter. There are enough controls to satisfy most knob twiddlers, and many clever features that I won't describe here. The manual is available for download online for those curious. There are a few items that I would consider design flaws and I am certain I'll find more as time goes on, but despite these, this is a first-class receiver by any measure.

One irritant is that most of us with an interest in SWL or Amateur Radio tend to think of time in terms of UTC. The R8600's default clock display is for local time. You can work around that by lying to the clock and setting UTC as your local time, then changing the offset so that the UTC clock indicates your local time.

The finest tuning step is 10 Hz although you may direct entry any frequency to the 1 Hz level. I'd prefer an option to tune in 1 Hz steps.

Scanning is rather slow. I can scan all of the shortwave broadcast bands for a signal in five minutes or less with my TECSUN PL-380. I don't think I'll live long enough for the R8600 to do the same thing. Scanning with a programmed scan between two frequencies is exceedingly slow, even when set to the fastest possible scan speed. Scanning memories is faster, but the scanned frequencies are limited to those stored in the memories selected for the scan. It would be good to have a feature where one could enter multiple scan edge frequencies. That way, one could program the edges of each band of interest and have the receiver scan those and not the frequencies between the desired bands. This would make the programmed scan both faster and limited to those frequencies of interest. Until ICOM provides this feature, I'll simply scan narrower band segments.

Recording on the SD card in the R8600 was easy, and I made use of it a few times. I don't plan to keep an archive of recordings, but I thought I'd try a few to see how the

feature worked. It was simple to use, and playback was clear. You can easily download the recordings to a PC or mass storage device if you want to save them. Alternately, you could simply have a library of SD cards.

Despite my minor criticisms, I recommend the IC-R8600 to any of my fellow SW or utility frequency listeners who need a wide-band receiver. It's a bit pricy, but nearly everything is these days. Decent transceivers and linear amplifiers are inching up to five-figure prices, top of the line receivers are already over the five-figure mark, and you don't even want to know what some of the supporting equipment goes for. I've bought houses for less. Finding a receiver with this capability under \$3,000 is rare, and I'm certain the price will decline even more as its popularity grows. It's a limited niche market, and we all need to deal with the reality of that and are at the mercy of the usual supply and demand rules. Currently I think there is still a waiting list for these receivers, but I expect that to correct in the near future.

My mini-DXpedition went on for three days while I put the receiver and the other equipment through its paces. The battery power supply and its recharge cycle worked perfectly. The small ceramic heater kept the tent warm all through the night with the wall coverings over the screens. One bonus of operating out-doors was that I was serenaded throughout the night by a pack of coyotes and many owls. If you are familiar with coyotes, you know that two coyotes sound like four and three coyotes sound like eight. They are common around here and are frequently seen during the day, but they really sing at night. We hear owls of various kinds in the night, but during this session, the calls all seemed to be from Great Horned owls. I didn't hear any Barred or Spotted owls or any of the smaller species during this session. This interaction with the local wildlife added an unexpected dimension to the whole experience.

During the day, with the walls rolled up and secured, the tent was cool, comfortable, and free from noxious insects. The wildlife changed, and I was visited by many rabbits, squirrels, and songbirds throughout the day. A few birds even hopped into the tent to see what was happening there. We are a Certified Backyard Habitat, so the wildlife was not unexpected.

Copious amounts of coffee and tea helped me stay awake throughout the night, and food was provided at proper intervals by my non-radio savvy spouse who was absolutely certain that I had taken leave of my senses to undertake such a bizarre occupation for several days. She simply cannot comprehend why any sane person would stay up all night to listen to a radio that produced only scratchy squalling, and not pleasant music with stereo quality. Still, she is supportive of my weird avocation, and for that, I am grateful.

The receiver and antennas worked exceedingly well. I tuned the entire HF spectrum and was able to log many stations. For VHF and UHF I was able to log amateur repeater traffic, air traffic control and other pilot communications, various utility stations, and a large number of specialized signals that appeared to be both spread-spectrum and encrypted. I am now motivated to get some WAVECOM software and interpret some of these interesting utility, government and military signals, but that's a future project.


One lesson learned was that here in the Pacific Northwest, at this point in the sunspot cycle, all-night operations are not particularly productive. The peak loggings seemed to be from about 1200 UTC until perhaps 1700 UTC, and then again after 2000 UTC until maybe 0200 UTC. When I do this again, I'll plan on retiring around 1100 local time, grabbing a few hours sleep, and then searching the bands again after 0500 local time. I expected to hear a lot of tropical band activity after the D layer went away, but it didn't happen, at least not this September. The noise level was quite high and I think that made tropical

band listening difficult. There is also an annoying periodic signal that is quite broad spectrum, and I would dearly love to identify that culprit. It doesn't stop me from hearing anything, but it is annoying. I suspect that it is local and military in origin.


The last logs I recorded were on September 15 at 1928 UTC. For the entire session I logged 127 distinct shortwave broadcasts from 2500 KHz to 21525 KHz. At the end of my planned operating time, I took down and stored everything for the listening post in about two hours, avoiding a predicted rain storm that was due to come in a day or two after I ceased operation. I could have operated through any rain, but I didn't want the hassle of dealing with a wet tent when it came time to end the operation. My plan is now to have one of these operations in my back garden about three or four times a year, during a predicted period of clement weather. I'm confident I can set up the entire listening post within two hours and I look forward to the next opportunity to do so, probably on some cold and dreary week here in the Pacific Northwest. I hope that propagation will be better the next time I do this. I could have the same operation without setting up anything in my back garden, but the practice of operating away from home, even if it is a very short way away from home, is very useful. I learned a great deal, some of it the hard way, and I look forward to my next mini-DXpedition. In addition to that, the opportunity to be serenaded throughout the night by coyotes and owls is an experience worth repeating.

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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. 

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 and will not be used to publish loggings, articles, or other materials that would normally appear in The Journal, the NASWA Yahoo group, or the Flashsheet. While the existence of the group is visible to all Facebook users, the online postings are available only to group members and group members must be NASWA members. Comments and suggestions from the membership are welcome. To locate the NASWA Facebook page, simply enter "North American Shortwave Association" into the search box on the top toolbar. If you are into social media, give it a try. 

Listening Review

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Hello and welcome to Listening Review for October.

I would like to start with a letter received in mid August, and I have to apologize to the writer right away that I cannot read the name very well – I think that it may be Charles Bale? Apologies if that is wrong. Anyway, he writes in a reflective mood, as follows:

“You’re right when you recommend Romania and Greece for music. It’s difficult to explain how right you are. One can routinely get music that is rarely heard in the US but is terribly attractive.

“Strong influences – direct melodies on chord progress being reminiscent of Robin Trowers *Bridge of Sighs* or Mendelsohn’s *Conversation*, a Bob Nolan lullaby he wrote for the early sons of the Pioneers, some of the many hooks from ELO, a mix of the mid Eastern scale with our Western one, the effect of which pulls at your brain or heart. You don’t need familiarity with these references to appreciate the stupendous talent here. Each will have his own.

“Who cares if Radio Bali is long gone when you have this on your radio. Get it before the bureaucrats do!”

Many thanks for your letter!

Deutsche Welle

Last time in Listening Review I referred to a couple of stations carrying radio plays/dramas. Another station that has a regular drama slot is Deutsche Welle. These stories fall firmly into the genre of educational radio drama and is very similar to the educational radio drama program Theatre on the Air aired by Voice of Nigeria on

Fridays at 1900-1930UT (although the evening transmissions from 1800-1930UT on 15120kHz have now unfortunately not been heard for a while). The DW series which has been running and repeating for some years now is *Crime Fighters*.

Crime Fighters is described as follows:

“Radio crime stories for Africa’s youth

“Join our detectives in their fight for truth and justice while gaining valuable perspectives on critical issues. Cyber crime, domestic violence, environmental pollution, human trafficking, terrorist recruitment, poaching, land grabbing and counterfeit drugs – this is a series that gets to the heart of what challenges young Africans. Continuing with Learning by Ear’s tradition of successful educational radio dramas, Crime Fighters provides knowledge and information in an entertaining format.”

I listened to the episode on 26 July at 1650UT on 15290kHz which was episode 4 of the eight-part series “The Radical Journey”. Here is the series plot and episode summary from the DW website:

Series plot. “A bomb explodes in a shopping mall in Kululaland and the young police officers Jude and Brenda are on the case. Soon they find out it was a suicide bombing, carried out by a woman. Even more shocking is her identity. The attacker is Zorah Kassim – just out of university and from a rich family. As the daughter of an influential politician, what could have been her reasons for the bombing? Was she forced to do it? Or did she do it willingly? Using different approaches and putting their own lives in danger, officers Jude and Brenda conduct an investigation that uncovers the mechanisms that make young people

join terror groups. But the motive that guided Zorah in her "radical journey" turns out to be completely different..."

Episode 4. "Still undercover, Inspector Jude sneaks into a recruitment meeting of the terrorist group "Sword Sages". Can he find any link to Zorah, the suicide bomber? Meanwhile, Brenda talks to the suicide bomber's father Hon. Kassim again who does not seem to have a clean slate."

Educational drama is always a little unrealistic as there is a message to be put across, so dialogue and so forth can be a little forced, but I did find this story to be fairly realistic and, more importantly, pertinent to today's youth in Africa and quite hard hitting. Also, although I am not part of the target audience, the story was nevertheless very engaging and left me wanting to know how the story is going to end. I was also pleased to hear that the episode was introduced with a short summary setting the story in context and a brief recap to remind existing listeners of where the story had reached (or, in my case as a newcomer, it allowed me to quickly catch up on the story so far).

Crime Fighters is aired Wednesdays and Sundays at 1650UT.

KBS World Radio

On September 4th, KBS World Radio introduced a new revamped program schedule. First, here are the details of the new schedule.

0800-1030UTC:	English 1 (to Southeast Asia)
0800-0810:	Mon-Sat: KBS World R. News
	Sun: Hot Issue of the Week
0810-1010:	Mon-Fri: One Fine Day with Lena Park
	Sat-Sun: Weekend Playlist 1
1010-1030:	Mon: Business Watch
	Tue: The Korea Travel Log
	Wed: Sounds of Korea
	Thu: Korea, Today & Tomorrow
	Fri: Happy Cooking & Healthy Eating

Sat:	The Korea Travel Log
Sun:	Happy Cooking & Healthy Eating

1400-1700UTC:	English 2 (to India)
1400-1410:	Mon-Fri: KBS World R. News
1410-1610:	Mon-Fri: K-POP Connection
1610-1700:	Mon-Fri: Korea 24
1400-1600:	Sat-Sun: Weekend Playlist 1
1600-1700:	Sat-Sun: Weekend Playlist 2
1500-1700UTC:	English 3 (to Europe)
1500-1700:	Mon-Fri: K-POP Connection
1500-1700:	Sat-Sun: Weekend Playlist 1
1300, 1600, 2200, 0200*	English 4 (1 hour programs) (* = next UTC day)
xx00-xx10:	Mon-Fri: KBS World R. News
xx10-xx60:	Mon-Fri: Korea 24
xx00-xx60:	Sat-Sun: Weekend Playlist 2

Frequency details will be in Listeners Notebook. Note that at 1600-1700, KBS World R will be on three frequencies and all three will be carrying different programming!

The transmission from 0800 to 1030UTC is the new two and a half hour broadcast to south-east Asia and showcases the new program One Fine Day with Lena Park, which is aired live from 0810 to 1010UT. Lena is an American singer-songwriter now living in South Korea and (as I understand) this is her first time as a DJ/presenter. The transmission does not make it through to Europe (at least not to my listening post), so I listened to some of the first program (Monday 4th) via the KBS Listen Again link on their website, and some of the second program (Tuesday 5th) via live stream. The Listen Again link provides the program with the music excluded - due, I assume, to music rights issues. No such problem with the live stream.

I had presumed that the show would be a high energy program with a fast talking presenter, jingles and loud pop music. Not so! It turned out to be a rather relaxing show with gentle chat (without one of those annoying background music beds the whole time). Lena has various segments through the show encouraging listeners to get in touch and were acknowledged live. There were many listeners mentioned, although it seemed to me that these were predominantly ex-pats in Korea and ex-pat Koreans

living abroad. Also it seems that there will be phone calls out to listeners – on Monday she called live a listener in the US (it was 3am at the listener's location, but fortunately was awake listening to the show), and on Tuesday to a listener in Vietnam – and there are plans for guests to come in to the studio in future shows. The music played was mostly "easy-listening" K-Pop. The program style would not have been out of place on BBC Radio 2, and is actually quite enjoyable. If it had been hearable at my listening post I maybe would have listened, if not regularly, at least from time to time.

No mention was made as to what platform the listeners who got in touch were hearing the program on, but my impression was that it was mostly via an internet live stream or mobile app. I found it very interesting to note that none of the names that I heard mentioned were familiar to me – ie none of the usual names that one sees in DX magazines, or the Facebook and Yahoo DX/shortwave hobby group, or indeed which routinely get heard mentioned in DX mailbag/listeners letterbox programs. Similarly, the KBS World Radio English Service Facebook page has well over 17,000 people following it, and very few of the active posts are by familiar names. This program is clearly aimed squarely at those radio listeners who probably do not regularly scan around for different stations to listen to. I can only assume that the shortwave broadcasts of programs like K-Pop Connection have generated enough feedback to convince KBS World to continue.

At 1010UT on Mondays to Fridays, following One Fine Day, is the only remaining shortwave transmission of some of the feature programming previously carried in their old schedule in all transmissions, with Saturday and Sunday programming comprising repeats of a couple of weekday features.

The transmission from 1400 to 1700UTC is an extended three hour broadcast to India featuring a new 2 hour edition of the K-Pop Connection from 1410-1610UTC on Mondays to Fridays and introducing a new presenter Australian Peter Hyun from the South Korean group One Way (presenting alongside

previous host Angie). The format is pretty much as before: K-Pop music and music/celebrity chat. This program also forms the whole of the transmission to Europe on Mondays to Fridays at 1500-1700UTC

This program is followed at 1610-1700UTC by the KBS new flagship news and current affairs program Korea 24, presented by Henry Shinn and assisted by various commentators on specific news/current affairs items. The edition on Tuesday 5th September, again heard via the live web stream, led with a long item on North Korea and the H-Bomb detonations, followed by a feature about internet-only banks including on-the-street comments by the public, and then a segment covering what Web Trending in Korea, ie what Koreans are searching for online, then a studio guest and ending the program with a preview of the next day's newspapers. The program is also aired at 1310, 2210 and 0210UTC. It was a well presented and quite informative program analyzing the big news stories and covering news items that is currently attracting the attention of Koreans.

Weekend programming seems to be pretty much abandoned, relying either on a program called Weekend Playlist in all transmissions, or (at 1010UTC on Saturdays and Sundays) on repeats of a couple of weekday features. The only exception is KBS World Radio News on Saturdays and Hot Issue of the Week on Sundays at 0800UTC. At time of writing, I have not heard Weekend Playlist, but I have a sneaking suspicion that it probably comprises little more than back-to-back K-POP. Notably, and sadly, Listeners Lounge has been cancelled from the schedule. This program tended to feature all the familiar names that I referred to above. I think that this cancellation, along with the new programs of One Fine Day and an extended K-Pop Connection, is a confirmation that the KBS World Radio target audience policy has now shifted completely to a younger audience. Perhaps this is not such a bad thing – although whether this is attracting new listeners to shortwave is unclear.

73's until next time - Alan



International Broadcasting

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How RT and Sputnik click with Americans

Decades ago we were among the very few Americans who tuned in, at least occasionally, to the shortwave broadcasts of the North American Service of Radio Moscow. Radio Moscow has since left shortwave and has changed its name to the Voice of Russia, then to Sputnik. Sputnik reaches American audiences primarily through the internet, although it has a few terrestrial outlets (including, in the Washington DC area, W288BS, 105.5 MHz, 99 watts.)

Another Russian organization, RT (née Russia Today) brings Russia's idea of news to American audiences via television and the internet.

RT and Sputnik are players in the controversy about Russian influence in the 2016 U.S. presidential election. But if Americans were influenced, and the election outcome swayed, what was the process? It's unlikely that many Americans directly tuned in to Sputnik or RT (RT, if available at all on a local cable system, might be channel 300) or visited their websites.

Instead, content from RT and Sputnik and even murkier Russian media outlets finds its way to American eyeballs through search engines and aggregators such as the Drudge Report. Salon reported: "Drudge has for years used his site as a web traffic pipeline for Russian propaganda sites, directing his massive audience to nearly 400 stories from RT.com and fellow Russian-government-run English-language news sites SputnikNews.com and TASS.com since the beginning of 2012, according to a Media Matters review...."

"As the U.S. presidential race and Russia's machinations both escalated in 2015, the number of Russian propaganda articles promoted by Drudge shot up to 79 for the

year. The total jumped again to a high of 122 articles in 2016, before dropping down to 45 this year through September 18." (bit.ly/2xHK8u1)

Should RT and Sputnik register as foreign agents?

Such Russian media activities have generated scrutiny of federal investigators. According to Newsweek: "The FBI has questioned the White House correspondent of Sputnik over claims that the Russian news agency operates as a propaganda arm for the Kremlin.

"Former Sputnik employee Andrew Feinberg, who downloaded a slew of emails and documents before he was fired from the company in May, was questioned for more than two hours on September 1 about Sputnik's 'internal structure, editorial processes and funding.' Yahoo News reported that he handed investigators the information he had taken from the company...."

"If it was acting as a propaganda arm for the Kremlin, it would be in breach of the Foreign Agents Registration Act, known as FARA. The law seeks to ensure that foreign organizations that play a role in influencing American public opinion give detailed information about their operations and funding to U.S. authorities." (bit.ly/2eQFT1P)

CBS News national security correspondent Jeff Pegues asked Feinberg if Sputnik is propaganda. "'Yes,' Feinberg said. Feinberg took the job believing he would be allowed to report freely, but after four months he was fired. He said he was fired for refusing to do a story he thought was wrong. ..."

"Feinberg said the U.S. has opened itself up to a 'kind of hybrid warfare, this kind of information warfare, because we allow them to use the First Amendment and our coun-

try's commitment to a free press against us because we're very reluctant to go to an organization like Sputnik that's operating as a news agency and say, "Well you're not really a news agency, you're propaganda.""" (cbsn.ws/2hee9IC)

Arguments against registration

Matt Armstrong, public diplomacy specialist (mountainrunner.us) and former member of the Broadcasting Board of Governors, writes: "FBI's inquiry into RT and Sputnik should be dropped and neither should be declared foreign agents for two reasons.

"First, the process and logical conclusion of the FARA inquiry will reinforce to the small audiences of RT and Sputnik that the Kremlin's information operations are telling them what their government does not want them to know. A website in the RT and Sputnik orbit correctly described these operations as 'providing raw material for American alternative media who can discuss it, analyze it and spread it around.' This includes InfoWars.com and apparently The Drudge Report. Beyond entrenching their viewership, the foreign agent designation would have little to no impact on those few who came across RT and Sputnik out of curiosity, unwittingly, or as part of a diverse media diet.

"Second, imagine a scenario where the leaders of RT and Sputnik would not argue to their Kremlin master that the foreign agent designation is a definite measure of effectiveness. This is a handed-on-a-silver-platter propaganda opportunity to expand their brand among their core audience: the 'alt-media,' the conspiracy theorists, and those seeking the 'untold.' If you were Dmitry Kiselyov, Margarita Simonyan, or a friendly troll or alt-right media master, wouldn't you push for more funding and try new provocative projects?"

To these reasons I would add that foreign agent registration of Russian media orga-

nizations would open a can of worms and lead federal authorities down the slippery slope of deciding which foreign media outlets need to be registered, and which don't. China's CGTN (formerly CCTV World) and CNC World, Al Jazeera English, TRT World, France 24, DW-TV, and the BBC all maintain bureaus in the United States and distribute their content through U.S. partners and circuitry. Which of these organizations is an agent of its country's government, and thus should be registered, and which is an independent news operation?

The United States could solve the problem simply by requiring *all* of them to register. While such a measure would not necessarily shut down these entities' content distribution in the USA, it would impede their efforts. And some of them may pull out of the US market, refusing to be subject to such a condition. This could deprive Americans of alternative perspectives, even if some of these channels are not exemplary practitioners of journalism.

There is another reason we don't want to descend the slippery slope of registering foreign media organizations. Such a step would provide an excuse for other nations to impose a similar obligation on US media operations in their territory. The Voice of America, in particular, reaches much of its audience through television and radio stations, and other partners, in its target countries. VOA also operates news bureaus in several countries.

A recent example is VOA and Radio Free Asia in Cambodia. Pressured by the Cambodian government, RFA closed its bureau in Phnom Penh. Some Cambodian FM stations have dropped their relays of VOA and RFA Khmer programming. Those that still relay VOA and RFA are now limited to 30 minutes a day. Similar scenarios, or worse, are possible in other countries.

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Shortwave Center

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This month, we have three interesting perspectives on this year's European DX Council (EDXC) annual conference in Tampere, Finland, held in mid-August. The EDXC Conference is one of the two remaining major international meetings of SWLs and DXers; the other of course being our own Winter SWL Fest. The EDXC event definitely is on my personal bucket list—but that list is pretty long and time...well...you know...

SHORTWAVE CONFERENCE REPORT

EDXC 2017 In Tampere Finland - A Short Report

by Christian Ghibaud

(DX Fanzine)

This year the annual conference of the EDXC was held (August 18-20) in Tampere, a nice city between two lakes in central Finland. This place was chosen because the local Tampere DX Club celebrated 50 years, and it was also the occasion to celebrate the 50 years of the EDXC and the 100 years of Finland!

Tampere is also the birth place of the Finnish Radio Broadcasting (Tampere Radio) in 1923. The conference was held at the Varala Sports Institute just some minutes outside the city centre.

I already joined Helsinki the day before, and on Friday morning, I took the train for Tampere. Around two hours later, I meet my friend Dario Monferini already in Tampere since the day before. Other old friends arrived, and at 16.00, there was the Opening of the meeting and the flag ceremony outside the entrance of Varala. At 16.15 Anker Petersen, a famous Danish DXer, explained to us how the EDXC was born, some 50 years ago. From 17.00 it was already lunch time and from 18.00 Risto Vähäkainu gave us a brief history of the EDXC. Both conferences were very interesting for the memory of past EDXC Conferences.

From 19.00 Jim Solatie, talked about DX traveling around the world, with a very funny small competition about DX, radio history and geography!

At 21.00 The Welcome Reception with Sauna (!), snacks and drinks were held on the shores of the lake. A very friendly and positive moment to chat with friends.

After the breakfast on the second day (Saturday), from 09.30 Ismo Kauppi and Tapio Kalmi talk about AM listening, then Jon Hudson presented us the latest news about SDR receivers.

Just before the lunch, Kirsti Kauristie of the Finnish Meteorological Institute (FMI) discusses details of the ionosphere. From 13.00, we had a Sightseeing by bus, in this tour, we can see main places of Tampere and also the transmitter site with the antenna of Pispalan Radio a local (AM, FM) station in Tampere.

From 16.00 conference sessions started again. Pasi Komsa Director of Pispalan Radio talked about the story of this unique station. Pispalan Radio is on MW on 729 kHz, but for the moment the power is under 5 watts.

16.30 to 18.30 a wonderful presentation about FM DXing, by Jukka Kotovirta, with

two FM related quizzes, in particular, the one "Video Killed the Radio Star" hosted by Jopi Nyman and Jussi Suokas.

19.00-23.00 It was the EDXC Banquet, with before the Jubilee Dinner, a ceremony for the FDXA awards. At the end of the dinner, Jukka and Jarmo presented a funny DX Auction, where items donated were sold by auction. Items such as electronic materials, old receivers, stickers, books and also Monaco euro coins!

And it's already the last day of the conference on Sunday. From 09.30 Kari Kivekäs and Jan-Mikael Nurmela talked about EDXC matters and the propositions for next year conference.

50th EDXC Conference in Tampere

Alan Pennington reports from Finland

(British DX Club)

The 2017 European DX Council (EDXC) conference was held in Tampere, Finland between 18th-20th August, hosted by the Finnish DX Association (FDXA) (Suomen DX-Liitto (SDXL) in Finnish). Local FDXA member club is the Tampere DX-listeners club (TreDXX). Both EDXC and TreDXX, were celebrating their 50th anniversary this year, having been founded in 1967. On 6th December this year, Finland will also celebrate 100 years of independence from Russia. So lots to celebrate!

Those delegates staying in Helsinki on the day before the conference started were kindly invited on a short walking tour of some of Helsinki's city centre attractions, led by Risto Vähäkainu of the FDXA, which ended with some welcome local refreshments at the FDXA office in Annankatu.

The city of Tampere is in southern Finland, a 160km 90-minute express train ride north of the capital, Helsinki. It is sited between two lakes which are linked by the Tammerkoski, a 1km channel of rapids whose power was harnessed by the textile industry in the 19th century, and whose heritage red brick mills still line its banks. As a result, the

At 10.30 Mika Mäkeläinen have a presentation about "How to go a QSL from a Chinese station", with a connection with Miss Liu Hengyi live from China!

After the lunch, from 12.30 Dan Goldfarb from the UK hold a presentation about MW masts and transmitters around the world. Now his huge project is on his website www.mwmasts.com Then Toshi Ohtake presented "Radio Listening in Japan, past, present and future". At 13.45-14.00 it was the Flag ceremony and the final words of the meeting.

See you next year!

city is often compared to Manchester (UK), but today the old industries have gone, and it is a thriving modern technology and university city, the third largest in Finland with a population of around 220,000. The conference venue was the modern Varala Sports Institute (<https://varala.fi>), sited in a lakeside forest, 3km from Tampere city centre.

Before heading to the conference venue from the railway station, Chrissy, Dave and myself visited two of Tampere's museums: The Lenin Museum <http://lenin.fi/?lang=en> and the Spy Museum <http://www.vakoilumuseo.fi/en/spy-museum/>. Whilst the Spy Museum did have some radio-related exhibits, more impressive was The Lenin Museum, housed in the building in which Lenin first met Stalin in a secret meeting of Bolsheviks in 1905, so claiming to be the birthplace of the Soviet Union. The museum was established in 1946, when Finland and the Soviet Union had close friendship. The exhibits are both serious, balanced and sometimes humorous e.g. take a selfie with Lenin and Stalin on their motorcycle and sidecar! At the museum shop (also online) you can buy Soviet era posters, model Lada cars, Leonid Brezhnev earrings or Karl Marx dolls!

The conference opened Friday afternoon with the traditional flag raising ceremony

and welcoming address in the sunshine outside the entrance of the Varala Institute. Around 120 delegates (and some partners) attended the conference over the weekend, some from Finland just on Saturday as the event also doubled as the FDXA's Summer Meeting. Apart from Finland there were delegates from 12 other countries, namely Algeria, Belgium, Denmark, France, Germany, Italy, Japan, Poland, Russia, Singapore, Sweden and United Kingdom.

In the first talk in the auditorium, Anker Petersen from Denmark, told of the formation of the EDXC and its early history, illustrated with some photos of the first meeting 50 years ago. The idea for the EDXC originated in Norway, but the EDXC was actually founded in Anker's house near Copenhagen on 4th June 1967 with representatives from Denmark, Finland, Germany, the Netherlands, Norway and Sweden there. Anker was its first Secretary General, to be succeeded by Claës-W. Englund from Sweden later in 1967. At first, each country selected one EDXC representative - this changed to each member club having a representative in 1969. In the heyday of DX clubs, Anker told us there were 116 clubs listed in the 1966 WRTH, though 54 of those were from Sweden! He also described the work of one of the early committees set up in 1968 - the EDXC Reception Report Committee - who sent questionnaires to 50 worldwide radio stations to establish what information the stations found most useful in listener reports, their replies to be the basis of the EDXC Reporting Guide.

Following a break for dinner, Risto Vähäkainu, a former EDXC Secretary-General himself, continued telling us of the EDXC's history. By accident, this 50th conference coincided with the 50th anniversary year as a conference had been held every year since 1967, apart from in 2004. EDXC Secretary-Generals had usually held office for 1-2 years, but Michael Murray from the UK held the office for a 16-year term (1979-1995). A brief history of the EDXC listing all the past conference venues and officials is at: <https://edxcnews.wordpress.com/history>. Finland has hosted the most EDXC conferences in the past 50 years (6)

- past conferences were held here in 1971, 1987, 1992, 2002 and 2008. The most well-attended conferences had also been held in Finland, in Espoo in 1987 and in Tampere in 1992, with nearly 300 delegates at each!

Next, top Finnish DXer, Jim Solatie (left) took us on a visual and audio DX journey around the world, accompanied by a rather difficult quiz, having first mixed the audience into teams of three. It disproved the theory three heads are better than one. It did help to have a knowledge of MW DX for the quiz and the winners certainly deserved their prize!

The evening ended in true Finnish summer style, down by the lake, with sauna and lake swimming for those who wanted, and chat until late over beer, wine and barbecued sausages!

The Saturday morning session in the auditorium focussed on AM listening and was hosted by Ismo Kauppi. He introduced director of SDRplay Ltd, Jon Hudson who presented his company's range of Software Defined Radios (SDRs) to us. SDRs are receivers in which traditional radio components are replaced by software run on your computer. The company currently have three products (they call Radio Spectrum Processors or RSPs): RSP1, RSP2 (photo right) and RSPpro (the latter identical to RSP2 but in a rugged steel case). You just need a computer and antenna to operate. They are true general coverage receivers: RSP1 10kHz-2GHz; RSP2 1kHz-2GHz enabling you to visualize up to 10MHz bandwidth on screen, use brickwall filters, have multiple VFOs, record large bandwidths (up to 10MHz) and record and playback. He said the company had sold around 20,000 RSPs in the past 3 years. The RSPs come with SDRuno software, though they work with all popular SDR software such as HDSDR. Full details on their website: <http://www.sdrplay.com/>.

Then active Finnish MW Dxe Tapio Kalmi spoke about AM DXing in the Information Age, introducing us to various data sources useful to AM DXers. One such resource is the KOJE online lists <http://www.tapio-kalmi.net/dx/koje/koje1.html> which Tapio

edits. KOJE is short for "kuultavissa olevat jenkit" and was a list began in 1978 which has now migrated online showing all North American MW stations (including Greenland and Bermuda) that can be heard in Sweden, Norway and Finland. Similar lists are prepared for Hawaii and Mexico. Tapio's homepage has lots more useful links to tools to aid the MW DXer, such as propagation reports, aurora charts and Greyline map - see: <http://www.tapiokalmi.net/dx/am/> He told how he heard Maldives on 1449kHz in February 2014 aided by the Greyline map. His presentation is online at: http://www.tapiokalmi.net/dx/am/EDXC2017_Tapio_Kalmi_AM_DXing_at_Information_Age.pdf.

The final talk on Saturday morning was about Space Weather by Kirsti Kauristie from the Finnish Meteorological Institute. She explained the latest research into the layers in the ionosphere affecting radio reception, looked at solar cycles past and future and why forecasting space weather is so difficult! I have to admit, some of her talk was over my head, but was listened to keenly by the scientists in the auditorium!

After lunch, the Finnish DXers celebrated 50 years of the Tampere DX Club. The still very active TreDXX club has published its Kantoaalto (Carrier Wave) bulletin for 42 years and has a QRMfree DX cabin in Niihama, southern Finland. Matti Karstinen and Jarno Fält received FDXA awards at this afternoon session, especially for work with this DX cabin, which apparently can be accessed remotely. Congratulations to TreDXX on their 50th anniversary!

Meanwhile, the non-Finnish speakers enjoyed a coach trip to visit some sights in the city of Tampere. We set out in a torrential shower as the coach first took us to a high ridge, where we enjoyed a good view over the city. We then stopped at the nearby transmitter site and tower used by local Pispalan Radio (729 kHz and FM) which we would learn more about in a talk on our return to Varala. The tower was originally used in the manufacture of lead bullets! Our guide, Risto, then took us a short walk by the rapids in the city centre including the former site of 3NB, Finland's first regular

broadcasting station. Tampere Radio made its first broadcast in November 1923, and moved a year later to a wooden cabin sited next to the Tammerkoski rapids, its aerial wire stretched over the fast-flowing waters. Already in 1924, it was heard over 1000km away! Many of the pioneers at Tampere Radio would later work at YLE when they opened their station in Tampere in 1930.

Next stop, Tampere Cathedral, built in the National Romantic style and completed in 1907 where we were able to view its stunning interior with frescos and stained glass by artist Hugo Simberg. Another radio site was our final stop, where we climbed the 26m high Pynikki observation tower, which gave a great view of Tampere city and its lakes. The Pynikki Ridge was the site of Tampere's former YLE's MW station which began broadcasting in 1930. There is a modern guyed communications mast still next to the tower, but sadly it's not a MW aerial nowadays, as YLE Tampere left MW 1421 kHz in the 1970s.

Returning to the conference centre, we heard Pasi Komi, director of Tampere-based Pispalan Radio, talk about his station, which plays old-time Finnish music, much of it from the 1920s and 30s. It broadcasts across Tampere on 99.5 MHz with 100W and also has a MW licence for 729 kHz. Pasi said that it was the first private station in Finland to get a permanent MW licence for 80 years (SWR in Virrat is only part-time). Initially the AM transmitter was radiating 20 Watts and could be heard up to around 100 km, but the transmitter has burnt out and currently there is no money to repair it. The station is run as a hobby but still has to pay royalties, so funding is difficult. When we visited the transmitter site earlier in the Pispalan district of Tampere we could hear the 729 frequency, although it was only audible in close proximity to the tower supporting the aerial - maybe up to 150m away. Programming is automated with IDs between every song. You can listen online at www.pispalanradio.fi - and it has on occasions been relayed on SW.

FM enthusiast Jukka Kotovirta reviewed the 2017 FM DX season in which the best

DX openings had been in June when loggings had "sky-rocketed". Since June, 2017 had been fairly flat, so was only voted an average year in the end (in recent years 2010 was judged the best season, 2014 the worst). June 2017 coincided with 8-10 day DX camps on Utö island (SW Finland-7 DXers) and further east at Poroniemi near the Russian border (3 DXers) which enjoyed openings almost every day to Europe with also "double-hops" to North Africa, Middle East, Russia and even China (double hops increase the distance heard: Yining FM 90.5, China is about 4000km from Poroniemi!). Jukka also told us about the phenomenon of "ecloud to e-cloud hops" as well as some Sporadic E theories. His entertaining talk had many recordings of DX catches to drool over! There is a blog about the DX camps with photos at: <http://utofmdx.blogspot.co.uk/2017/>.

The Saturday session concluded with two quizzes – the first involved IDing some of the best 2017 FM DX catches from audio clips, the second IDing radio-themed songs and their artists from audio snippets. Dave came second in the ID quiz, Alan joint first in the song quiz (though losing on the tie-breaker). So definitely not a case of Great Britain "nul points"!

On Saturday evening the EDXC Banquet began with a welcoming drink and speech from the Mayor of Tampere. The proceedings were expertly compered by Vesa-Jussi Rinkinen and after the excellent meal, traditional FDXA banner awards were presented to their active board member Ismo Kauppi and to overseas DXers Tibor Szilagyi, Toshi Ohtake and Dave Kenny and Alan Pennington. The special award of FDXA (given for extraordinary work for FDXA and the DX community) was awarded to Torre Ekblom, long-time ambassador for DX, living and working in Sweden, Denmark and Holland, who started DXing in 1952 in Helsinki and was a founder of the EDXC. The evening concluded with the traditional fun auction, hosted by Jukka Kotovirta and Jarmo Salmi where some bargain radio-related items, including receivers, aerial wire, novelty radios, coins, books and stamps were sold to the highest bidder!

On Sunday morning, Kari Kivekas (Secretary-General) presented an update on the EDXC, together with Jan-Mikael Nurmela (Assistant Secretary-General). After reading out greetings to the conference from around the world we heard that the EDXC blog now has a new mobile friendly layout at: <https://edxcnews.wordpress.com/>. The EDXC Facebook page is growing, now with 666 'likes'. Historic material has been received from Torre Ekblom (Finland) and Anker Petersen (Denmark), both of whom were at the first EDXC meeting 50 years ago in 1967. This will help in the writing of an EDXC history, but a writer is needed still.

At 10am, delegates stood for a minute's silence in memory of those killed and injured during the attack in the Finnish port of Turku on Friday 18th August. The Finnish flag outside the conference venue was flown at half-mast also, in common with flags across the country.

Further EDXC topics also discussed included the proposed EDXC radio programme, the future management of the EDXC (Kari and Jan-Mikael have been in their roles since 2013), a DXers' 'Hall of Fame' and the venue for the 2018 conference – suggestions were Vienna/Bratislava, San Marino and Monaco. Member clubs were asked to consider these topics and respond to Kari.

Mika Mäkeläinen next gave an enlightening talk on "How to get a QSL from a Chinese station". This considered the best source for addresses and email addresses of stations in China, how to trace website registrants, Foreign Affairs Offices in China and social media in China (Weibo and Wechat). He showed us a QSL he'd received in the mail from Hengyang PBS, actually in a wooden box! And Mika made video contact with friend Liu Hengyi at Anhui Radio (936 kHz) on his mobile 'phone so audience members could see her and ask questions! Remember Mika has an excellent article on "How to Identify Chinese radio stations" online at: http://www.dxing.info/articles/identifying_Chinese_radio_stations.dx

Dan Goldfarb then updated us on progress on his impressive project documenting

all medium wave masts around the world (with transmitters >1kW), including their coordinates. There are two very detailed spreadsheets for active and inactive (or closed) transmitter sites. The project, now in its 6th year, of course relies on reliable input from DXers around the world. There is a Yahoo Group: <https://groups.yahoo.com/neo/groups/mwmasts/info> and the main website from where you can access the spread sheets is: <https://mwmasts.com/>.

Toshi Ohtake from the Japan SW Club (JSWC) gave a very informative talk on Radio Listening in Japan: Past Present and Future. Toshi, born in 1937, began his radio listening in the 1950s and his talk included details of the "BCL Boom" in the mid-1970s and early 1980s in Japan. Today the JSWC has 350 members, but peaked at around 1600 members during this boom. The club is the 2nd oldest in the world and celebrates its 65th anniversary this year. It was interesting to see the club's DXpeditions in local parks, where members make great

DX catches in electrically quiet locations reachable by public transport, but still not far from home.

Toshi's talk was sadly the final one of the conference and the ceremony to lower the flags and bid farewell to everybody followed. A wonderful 50th EDXC conference had ended, with thanks due to all the organisers from FDXA, TreDXK and EDXC in Finland. The FDXA website now includes some of the conference presentations and the programme, with history of Radio Tampere etc. plus some conference photos, at: <http://sdxl.fi/edxc/>.

Twelve of us then began our 5-day road trip north in three cars, through Finland, Sweden and Norway, with most northerly point reached, Nordkapp above the Arctic Circle. Our first destination on this road trip north was Scandinavian Weekend Radio's studios and transmitter site, near Virrat, a two-hour drive north of Tampere.

European DX Council Conference

by Anker Petersen, Denmark

On August 18-20, 2017, the European DX Council celebrated its 50th anniversary in Tampere, the second largest city of Finland, located 160 kilometres north of Helsinki. At the same event the Tampere DX-listeners Club did celebrate its 50th anniversary. On December 6th, 2017, Finland will also celebrate 100 years of independence from Russia.

118 persons took part in these two events. 93 came from Finland and 25 DX-ers and partners from 12 other countries: United Kingdom, Denmark, Sweden, Russia, Poland, Germany, Belgium, France, Italy, Algeria, Japan and Singapore.

The conference opened and closed with the traditional flag raising/flag lowering and speeches.

I gave the first lecture: "How the EDXC was born". The idea came from the Norwegian

DX-Listeners Club, but the EDXC was founded in my house in Denmark on June 4th, 1967 by 10 DX-leaders from Norway, Sweden, Finland, Germany, the Netherlands and Denmark.

In the next lecture Finnish Risto Vähäkainu continued the EDXC history listing major events, officials and conference venues from the 50 years.

Then followed two days of interesting talks by Finnish and British lectures about AM and FM DX-ing. Also two difficult quizzes were included.

Friday evening ended with typical Finnish sauna and swimming in the lake, followed by chats over beers and barbecued sausages.

Saturday afternoon the non-Finnish speakers enjoyed a bus tour through the city of Tampere, including some former and present radiostations

On Saturday evening the traditional EDXC Banquet took place, opening with a welcome drink and a speech from the Mayor of Tampere. After dinner, various awards were presented. Then "Prehistoric Shortwave DX-er" Jyrki Talvitie in a speech reminded us of the "Good old Days". Finally followed an auction of radio-related items.

On Sunday morning, the EDXC Secretary General Kari Kivekäs chaired a meeting about the good status of the EDXC. Their website is now <https://edxcnews.wordpress.com>.

After that Finnish journalist and DX-er Mika Mäkeläinen talked about "How to get

a QSL from a Chinese station". He made video contact with a female broadcaster at Anhui Radio (936 kHz) and some from our audience talked with her!

Finally 80 years old DXer from Japan, Toshi Ohtake gave a very informative lecture about "Radio Listening in Japan". More details from the Conference can be found on the website sdxl.fi/edxc. Then click "Presentations".

After the Conference, 12 participants went on a 5-day road trip to Northern Finland, Sweden and Norway heading for Nordkapp, the northernmost point on the European mainland.

SHORTWAVE HISTORY

Adrian Peterson's Diary

The World's Smallest Shortwave Station

The world's smallest shortwave station, the smallest shortwave station of all time without question, had to be a little homemade transmitter with a rated output at just 1.5 watts. This transmitter was licensed originally under the Canadian callsign VE9CS, it was located at the top of the stairway in a church building in Vancouver British Columbia, it was inaugurated in the latter part of the year 1929, and it was on the air for just a few late night hours each week.

The parent mediumwave station for the little shortwave station in Canada was a Christian station, CKFC, that had moved a few months earlier from the nearby First Congregational Church at 1155 Thurlow Street in downtown Vancouver to the Chalmers United Church at 2801 Hemlock Street on the corner of 12th Avenue. A makeshift production studio was installed in a downstairs Sunday School classroom and the transmitter and a record player were installed at the top of the two storey stairway.

The shortwave transmitter was a home brew breadboard unit constructed by Cyril Trott, who operated his own radio business under the trade name Radio Service Engineers at

nearby 734 Davie Street. Engineer Trott operated the shortwave transmitter VE9CS on 6070 kHz as a service on behalf of the United Church of Canada.

In 1931, two years after the little station was inaugurated, approval was granted for operation at 100 watts, though they planned to operate at just 50 watts. However, even this projected improvement was never implemented.

Also in 1931, Engineer Trott announced his intention to broadcast a special program beamed to Australia. This information was printed in the Australian radio journal *Wireless Weekly*, but we would suggest that at just 1.5 watts, the shortwave signal probably got lost on the way.

However, as time progressed through the 1930s, there was an increase in on air programming, usually on a daily basis around midnight. This increase in programming was for the benefit of local listeners, of whom there were probably very few back at that time.

In 1929, the studios and offices of the mediumwave parent station CKFC were moved

into the new Stock Exchange Building at 475 Howe Street, though a new out of town location was chosen for the mediumwave transmitter. The evidence would suggest that the little VE9CS transmitter was also then installed at the new mediumwave transmitter location.

Seven years later (1936), the parent mediumwave station CKFC was leased to the Standard Broadcasting Co., along with the little shortwave station VE9CS as well. However, during the following year (1937), Standard Broadcasting was taken over by Sun Publishing, and so the studios and offices of mediumwave CKFC were transferred into the Sun Tower at 128 West Pinder Street in Vancouver.

When the 17-storey Sun Tower was constructed in 1912, it was the tallest building in the British Empire. The Sun newspaper has long since relocated, though the building has retained its well-known name as the Sun Tower.

According to the best available information, the callsign for shortwave VE9CS was regularized to CKFX in December 1938, though the old identification lingered on for another year or two. At that stage, shortwave VE9CS-CKFX was on the air at night, usually around 1 or 2 o'clock in the early morning hours.


During the year 1940, the licensing authority in the Canadian government asked the parent mediumwave station CKFC to surrender its broadcast license, and in that way station CKFC was closed. However at that stage, another mediumwave station in Vancouver, CKWX, agreed to take over all of the religious programming from the mediumwave station that was closing, and they also agreed to take over the small shortwave station as well.

Mediumwave CKWX was owned by Western Broadcasting and they were in the process of constructing a new transmitter station on Lulu Island, Vancouver. The engineering staff built a new 10 watt shortwave transmitter which was co-sited with the new mediumwave facility on Lulu Island. At the same time, the operating frequency for the shortwave unit was changed from 6070 kHz to 6080 kHz.

The shortwave antenna at the new location was described as a V beam, which was focused on the isolated coastal communities of British Columbia north of Vancouver. The communication transmitter/receivers in use in those areas back then could readily tune the 49 metre broadcast band, which included, of course, VE9CS-CKFX.

Over the years, several different shortwave antennas were installed for CKFX on Lulu Island, including a half wave omni-directional antenna with 30 buried radials as a counterpoise. Then in March 1993 a new 10 watt transmitter was installed at shortwave CKFX.

However, give three more years, and the transmitter malfunctioned. There was no real need for the 10 watt shortwave station, it was little more than a DX novelty, so the transmitter was never repaired nor replaced. That was the final and unceremonious end of the world's smallest shortwave broadcast station.

There were many occasions when the little 10 watt shortwave CKFX was heard way across the Pacific in New Zealand and Australia, and also over there in Europe. They were a very reliable verifier of listener reception reports, and loads of international radio monitors in many lands around our world hold the now historic CKFX QSL card in their collection. 

Please notice

For correspondence concerning address changes, missing Journals and other information pertinent to mailing, please contact Bill Oliver, 45 Wildflower Road, Levittown, PA 19057 or email billoliver@verizon.net.

Listener's Notebook

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Times are UTC and frequencies in kHz.

ALGERIA RTA two new 300 kW shortwave installations under way now, dipole curtains of ITU type #146 too. Since April image in Google Earth, the new 300 kW installations in RTA Bechar and Ourgla are visible now. Two SW sites in RTA Algeria are under construction now. 135 and 210 degrees' path to Sahel zone. I guess on Christmas or in March 2018 the sw tests on 49 to 19 mb can be heard then. (Wolfgang Büschel-Germany/Shortwave Bulletin)

ANGOLA 4949.74, R. Nacional de Angola, 0230-0407, Sept 22. Above threshold level audio; variety of songs; 0300 news headlines; a few clear IDs - "Radio Nacional de Angola"; 0400 news. (Ron Howard-CA)

ANGUILLA The shortwave towers are still up but the curtain antenna between them was severely damaged. The owners of the stations plan on getting them back up and running. (Ray Robinson/Wavescan)

ANTARCTICA 15476, LRA 36, Radio Nacional Arcángel San Gabriel, Base Esperanza, e-mail from the station with a thank you letter and a card, in a PFD file, for a reception report send via e-mail on 01 March 2017, address: lra36@hotmail.com. A card of the Station with its name, frequency address and picture of Base Esperanza. V/S Mayor Noel Albierto, Jefe de la Base Antártida Esperanza. (Manuel Méndez-Spain/Shortwave Bulletin)

ARMENIA Test frequencies of Armenian Public Radio via Shortwaveservice now are registered in HFCC Database as "For new organization" as follows:

0200-0500 on 6155, not yet used for tests
0630-2100 on 6155, not yet used for tests*
0230-2100 on 7320 various langs & Armenian
0230-2100 on 7520 various langs & Armenian
0800-1800 on 9580 various langs & Armenian
(DX Mix-Bulgaria)

Good signal of new broadcast of TWR India Yerevan, Sept. 4, replacing KTWR, Agana:

1300-1315 on 9410 ERV English Mon-Sat and then
1315-1345 on 9410 ERV Hindi Mon-Fri
1315-1330 on 9410 ERV Mannipuri Sat
1315-1330 on 9410 ERV Telugu Sun
1330-1345 on 9410 ERV Nepali Sat
1330-1345 on 9410 ERV Hindi Sun
1345-1400 on 9410 ERV Dogri Mon-Fri
1345-1400 on 9410 ERV Kashmiri Sat/Sun
1400-1415 on 9410 ERV Garhwari Mon-Fri
1400-1430 on 9410 ERV Hindi Sat/Sun
1415-1435 on 9410 ERV Hindi Mon-Fri
1430-1445 on 9410 ERV English Sat
1435-1450 on 9410 ERV English Mon-Fri
(DX Mix-Bulgaria)

AUSTRALIA Australia's senate has rejected proposed legislation to restore the international radio service of the country's public broadcaster. Many remote communities in Pacific island countries rely on shortwave radio. The bill would have required the ABC to restore its shortwave transmission services which the broadcaster ended in January. The senate committee concluded that the measures proposed in the bill were not an appropriate way to address the concerns raised about the end of the shortwave services. The committee's decision came with some dissenting reports. Senator Nick Xenophon described the decision to shut down ABC shortwave as a significant foreign policy failure. "The board cannot really be blamed for this oversight; foreign policy is a responsibility of the whole of government," he said. "In allowing the ABC Board to shut down ABC shortwave, the government has failed." (Radio NZ 11 August via Mike Terry/British DX Club)

New unregistered frequency of Reach Beyond Australia, Sept. 20:

1115-1245 NF 9690 KNX, ex 9685 as follows
1115-1130 on 9690 KNX English Sun/Tue/Thu/Fri
1115-1130 on 9690 KNX Burmese Mon/Tue/Thu
1115-1130 on 9690 KNX Chinese Falam Wed/Sat
1130-1145 on 9690 KNX English Sun
1130-1145 on 9690 KNX Burmese Mon/Tue/Thu
1130-1145 on 9690 KNX Chinese Hakka Fri
1130-1145 on 9690 KNX Chinese Falam Wed/Sat
1145-1215 on 9690 KNX Rawang Sun-Tue/Thu/Fri

1145-1215 on 9690 KNX Matu Wed/Sat
1215-1230 on 9690 KNX English Mon
1215-1230 on 9690 KNX Chinese Falam Tue
1215-1230 on 9690 KNX Matu Thu
1215-1230 on 9690 KNX Burmese Fri
1215-1230 on 9690 KNX Nagamese Sun/Wed/Sat
1230-1245 on 9690 KNX Chinese Hakka Mon
1230-1245 on 9690 KNX Chinese Falam Tue
1230-1245 on 9690 KNX Matu Thu
1230-1245 on 9690 KNX Burmese Fri
1230-1245 on 9690 KNX Nagamese Sun/Wed/Sat
(DX Mix-Bulgaria)

5045, Shortwave Station Oxy Music Radio on air today first time 28/8/17. Manao in Finland heard it first, followed by Smiffy in Brisbane then me in Sydney...good level playing 50, 60, 70, 80 hits as more music less talk no ID's. Craig Allen has put this to air from Razorback near Camden. (John Wright-Australia via John Herkimer-NY) 5044.98 - ????, 1015, 30 Aug 2017, S3 steady carrier visible on Perseus screen but no audio. Some form of modulation possible very tentative musical notes heard. Unfortunately, no time for extended listening as I am out the door for work. (Stephen Wood-MA) 5045, Ozy Radio, 1132-1156, Sept 2. Best reception so far! EZL pop songs; just a little bit too weak to be able to ID them; fortunately, the most distinctive feature of the broadcast is the old Radio Australia's "Waltzing Matilda" and that came through loud and clear which was heard at 1156, as well as at 1142, then followed by "Ozy Radio" ID and email address. Very pleased to be able to catch so nice a reception of the Ozy Radio IS. Certainly, makes it much easier for us listeners in North America to positively ID this low powered station. (Ron Howard-CA) Reception report to: John Wright <dixer1234@gmail.com>. Thanks to Johnno for the following confirmation on Sept 3: "eQSL OZY MUSIC RADIO. Yes, can confirm your report of 5045 1142-1156. 500 watts from Razorback near Camden NSW 25 NM SW of Sydney. 2nd September 2017. Yes, here in Eastern Australia there was some good propagation for a change! Regards Johnno." (Ron Howard-CA) Ozy Radio is run by Craig Allen who has also secured two SW licences for the 8HA site at Alice Springs, not too far from inactive VL8A site. Registered frequencies are 2350 and 5050 both with 5 kW. (Ian Baxter, shortwavesites yg 28 Aug/ British DX Club) 5045, Ozy Radio, since Sept 17 has been silent through Sept 26. (Ron Howard-CA)

9720, Reach Beyond Australia at 1300, carrier on, instrumental music, on in English, "Welcome to

these programs from (Kununurra?), Life-changing radio.", 1301 Bible program. Fair, Sept 6. (Harold Sellers-BC/DXplorer)

BANGLADESH Good signal of Bangladesh Betar on Sept. 10:

1745-1900 on 13580 DKA English
(DX Mix-Bulgaria)

Reception of Radio Bangladesh Betar on Sept. 14:

1400-1430 on 15505 DKA Urdu, strong
(DX Mix-Bulgaria)

BHUTAN 6035, BBS. 1128-1157* cut off; YL clearly in English (slight accent) playing pop songs in English; mixing with PBS, but not too bad, as PBS was mostly just announcer in Chinese. Yesterday's extended BBS broadcast was just an anomaly. (Ron Howard-CA)

BOLIVIA 5935, Radio Yura, Voice of the Ayllus, identifying before leaving the air 0212, heard with better signal. It seems to be a reactivation in new frequency, ex. 4716. (Rafael Rodriguez & Claudio Galaz/HCDX) Looks like the LA DXers have nailed this one -- interestingly, is Radio Yura in a fqy change and probable reactivation. (Ralph Perry-IL) From deep down in South America we get reports that R Yura is active on shortwave again. This time on 5935. Last time it was heard, the frequency was 4716.7. Back then, in 2000, the station was frequently heard here and a few verifications came by e-mail (canal18@cedro.pts.entelnet.bo). (Shortwave Bulletin)

5952.42, Radio Pio Doce, 0227-0230*, Sept 22. Start of whistling "Colonel Bogey March" (a.k.a. River Kwai March) with full ID, followed by chimes. (Ron Howard-CA)

BRASIL Surprisingly reception of Radio Transmundial in Portuguese on Sept. 6:

2024 & 2054 on 11735 CAB, good signal & off air at 2059. No signal from 11735 DOL Swahili Zanzibar Broadcasting Corp. (DX Mix-Bulgaria)

CHINA 6035, PBS Yunnan. 1128-1213* cut off; 1131 usual clear ID in English; "Yunnan Radio and Television International, the Voice Shangri-La," but otherwise in Chinese and mixing with BBS; 1201 switched to non-stop filler EZL instrumental

- music (always the same music!) till suddenly off. (Ron Howard-CA)
- 9505, Voice of Strait. On Sept 27, with carrier already on at 0947; chimes IS started at 0953, followed by ID; 1000 time pips; mostly fair. (Ron Howard-CA)
- CLANDESTINE** Reception of Radio Al-Mukhtar via MBR Issoudun on Sept. 26:
- 1500-1558 on 15205 ISS Arabic Tue, very good & co-ch from 1548 on 15205 RIY Arabic Holy Quran Radio Riyadh. (DX Mix-Bulgaria)
- Nippon no Kaze via BaBoCk Tamshui on August 27:
- 1300-1330 on 9465 TSH Korean, poor
1300-1330 on 9900 TSH Korean, fair
1300-1330 on 9940 TSH Korean, weak
(DX Mix-Bulgaria)
- BRB Eye Radio via Alyx&Yeyi TDF Issoudun on Sept. 16:
- 1600-1900 on 17730 ISS Arabic/English, fair (DX Mix-Bulgaria)
- Radio Publique Africaine probably has cancelled its shortwave transmissions 1800-1858 on 15480 ISS Kirundi/French from Sept.1. (DX Mix-Bulgaria)
- Reception of Voice of Oromo Liberation via MBR Nauen, Sept. 17
- 1700-1730 on 15420 NAU Afan Oromo Wed/Fri/Sun, weak
(DX Mix-Bulgaria)
- Updated schedule of Denge Kurdistan via Issoudun, Yerevan and Grigoriopol:
- 0230-0500 on 7350 ISS Kurdish as scheduled A-17
0300-0500 on 7520 tx Yerevan Kurdish, additional freq.
0700-0800 on 7520 tx Yerevan Kurdish, additional freq.
0700-0800 on 9580 tx Yerevan Kurdish, additional freq.
0500-1400 on 11600 KCH Kurdish as scheduled A-17
1400-1600 on 11600 KCH Kurdish as scheduled A-17
1600-1900 on 11600 ISS Kurdish, ex 1600-1930 on 11600
1900-2100 on 7320 tx Yerevan Kurdish, additional freq.
- 1900-2100 NF 7520 KCH Kurdish, ex 1930-2100
1900-2100 on 11600 KCH Kurdish as scheduled A-17
(DX Mix-Bulgaria)
- Reception of Radio Que Me via WHRI T8WH Angel 3, Sept. 1:
- 1200-1230 on 9930 HBN Vietnamese Fri, good
(DX Mix-Bulgaria)
- Radio Xoriyo Ogaden via MBR Issoudun, Sept. 2:
- 1600-1630 on 17630 ISS Somali Tue/Sat. Transmission is jammed by Ethiopia with white noise digital jamming. (DX Mix-Bulgaria)
- Radio Itahuka via MBR Talata-Volonondry on Sept. 16:
- 1800-1900 on 15420 MDC Kirundi Sat, fair (DX Mix-Bulgaria) Station was "fair" at my location recently. (RAD)
- Reception of Radio Tamazuj & Radio Dabanga, Sept. 12:
- Radio Tamazuj
- 1430-1500 on 15150 ISS Juba Arabic
1430-1500 on 15550 SMG Juba Arabic
1500-1530 on 15150 MDC Juba Arabic
1500-1530 on 15550 SMG Juba Arabic
- Radio Dabanga
- 1530-1600 on 15150 MDC Juba Arabic
1530-1600 on 15550 SMG Juba Arabic
(DX Mix-Bulgaria)
- Voice of Oromo Liberation via MBR Nauen, Sept. 22:
- 1700-1730 on 15420 NAU Afan Oromo Wed/Fri/Sun. Transmission is jammed by Ethiopia with white noise digital jamming. (DX Mix-Bulgaria)
- 6040 (ex: 5965), ShioKaze/Sea Breeze, via Yamata, at 1259, on Sept 28 back to former alternate. Suddenly on with a carrier till audio started at ToH; was in English (Thursday); "Today's Newsflash"; fair-good and unjammed by N. Korea. Today found strong jamming still down on ex: 5965. (Ron Howard-CA)

ENGLAND FEBA Radio, Radio Sama via BaBcoCK Woofferton on Sept. 2:

1730-1800 on 15510 WOF Tigre Radio Sama
1800-1830 on 15510 WOF Fur Radio Sama
1830-1900 on 15510 WOF Arabic Radio Sama
(DX Mix-Bulgaria)

ETHIOPIA Shortwave schedule of Radio Deegaanka Soomaalida Itoobiya (DDSI), the official station of the Ethiopian Somali Regional State:

0400-0510 on 5940 unknown tx Ethiopian Somali
1300-1500 on 5940 unknown tx Ethiopian Somali
1810-2000 on 5940 unknown tx Ethiopian Somali
(DX Mix-Bulgaria)

Ethiopian SW stations currently on the air: 5940 Ethiopian Somali Regional State Radio; 5950 Voice of Tigray Revolution; 6030 Radio Oromiya; 6090 Amhara State Radio; 6110 Radio Fana (private commercial station); 7236v Various Eritrean opposition broadcasts & Radio Ethiopia External Service. (British DX Club)

6090, Radio Amhara, 9/23, 0355, strong in Anguilla's absence with HOA music. (Paszkiwicz-WI/DX South Florida) 6090 Radio Amhara, Addis Ababa with a lovely signal at 0340 tune in, YL in pres Amharic, peppy chit-chat and brief bursts of HOA style mx breakers. This channel is usually covered by Caribbean Beacon but clear tonight. Also, nice signal from Hargeisa at 0335 check on 7120 with morning prayer. (Ralph Perry-IL)

FRANCE Frequency changes of Radio France International from Sept. 3:

0430-0500 NF 9685 ISS Swahili, ex 11790
0500-0600 NF 9790 ISS French, ex 15300
0700-0800 NF 21580 ISS French, ex 17620
0800-0900 NF 21580 ISS French, ex 17620
1200-1230 NF 17815 ISS Mandingo Mon-Fri, ex 15275
1200-1300 NF 15300 ISS French, ex 13740
1200-1300 NF 17620 ISS French, ex 15300
1600-1700 NF 17615 ISS Hausa, ex 15670
1900-1930 NF 17660 ISS Portuguese, ex 15360
2000-2030 NF 11700 ISS Hausa, ex 13695
(DX Mix-Bulgaria)

GERMANY DWD Deutscher Wetterdienst on new "old" frequency 5905, Sept. 2:

2000-2025 NF 5905 PIN German AM mode, weak, ex 6180 (DX Mix-Bulgaria)

New Mighty KBC frequency from Sept. 10:

0000-0200 on 5960 NAU English Sun
(DX Mix-Bulgaria)

Reception of New Shortwave Radio to Europe on 6160, Sept. 27:

1400-1600 on 6160 WIS English Mon-Sat, weak/fair
1600-1800 on 3975 WIS English Mon-Sat, NO SIGNAL.
(DX Mix-Bulgaria)

GUAM Fair signal of KTWR Trans World Radio Asia, Sept. 4:

1100-1115 on 12120 TWR Mongolian
1115-1130 on 12120 TWR Cantonese
(DX Mix-Bulgaria)

Unscheduled English broadcast of KTWR Trans World Radio Asia, Sept. 17:

1345-1415 on 9975 TWR English Sun, very good signal
(DX Mix-Bulgaria)

INDIA 4800, 20/9, 0017, AIR Hyderabad, opening, Indian song, talks at 0020, fair QRM China. (Giampiero Bernardini-Italy/PlayDX)

4810, 20/9, 0021, AIR Bhopal, Indian mx, fair. (Giampiero Bernardini-Italy/PlayDX)

4910, 20/9, 0023, AIR Jaipur, Indian song, talks, weak. (Giampiero Bernardini-Italy/PlayDX)

4920, 21/9, 0045, AIR Chennai, Indian slow songs, fair/good. (Giampiero Bernardini-Italy/PlayDX)

INDIA (KASHMIR) 4950, 21/9, 0100, AIR Srinagar, news, slow songs, weak. (Giampiero Bernardini-Italy/PlayDX)

INDIA (SIKKIM) 4835, AIR Gangtok, 1230, Sept 1. Into the AIR news in English; // 4810 (AIR Bhopal) // 5010 AIR Thiruvananthapuram // 5040 (AIR Jeypore); item about a high court ruling and sports news; 1235 no longer //; Gangtok nicely above threshold level audio. (Ron Howard-CA)

INDONESIA Fair signal of Voice of Indonesia, Sept. 8:

1300-1400 on 9525 JAK English
(DX Mix-Bulgaria)

3325, RRI Palangkaraya, Sept 23 anomaly; 1203 without the usual Jakarta news relay; instead almost sounded like a religious program (Christian?); not the normal format at all; also, the local news coverage at 1400 was dropped today. Have been interested this year to read there is increased discussions of moving the capital from Jakarta to Palangkaraya. Does this have anything to do with this station being the last RRI station on SW? (Ron Howard-CA)

9524.95, Voice of Indonesia continues to be silent through Sept 24. (Ron Howard-CA) Voice of Indonesia is again on air, but on "new" 9526, Sept. 29. (DX Mix-Bulgaria)

ITALY: IBC Italian Broadcasting Corporation announces a new QSL policy. Its website says: "We confirm all correct reception reports with our eQSL. We are sorry, but due to high cost of stamps, if you need our paper QSL (sent with a IBC sticker), a donation is required". Among future plans, there is the possibility to extend their Saturday broadcast via Rohrbach Waal, on 6070 at the end of October. If so, the new slot time will be as follows: 1300-1500 (Currently 1300-1400). By the way, IBC has decided that this Saturday transmission via Rohrbach Waal, will, however, start at 1300 even during B-17. (IBC - Italian Broadcasting Corporation/DX Fanzine)

JAPAN Reception of Radio Japan NHK World on Sept. 27-28:

1100-1130 on 7355 YAM Russian, fair (DX Mix-Bulgaria)

6055, Radio Nikkei One at 1211 in Japanese, woman announcer, Japanese pop music. - Good, Sept 1. (Harold Sellers-BC/DXplorer).

KOREA (NORTH) 9435, Voice of Korea at 1330 with IS, IDs by man and woman, IS again to 1331 and sign on in English. Poor, Sept 4. (Harold Sellers-BC/DXplorer)

KOREA (SOUTH) KBS World Radio English Service is carrying out a major frequency and time adjustment on shortwave as of 4 September. We will start a new two-and-a-half-hour broadcast on 9770 at 0800 towards SE Asia. The one-hour broadcast on 9515 towards Europe will expand to two hours, and will start at 1500. Our broadcast towards India will be on 9785 instead of the current 9880 and expand to three hours, starting at 1400. (KBS World Radio 1

September via Andy Sennitt on PCJ Media Facebook via Alan Pennington/British DX Club)

4885, Echo of Hope - VOH, 1324, Sept 16. The usual one hour program "Radio Broadcasting Guide," in Korean and not // to the other VOH frequencies; during the program, they provide sample IDs from many stations that broadcast to Korea; VOA ("VOA World News") and singing KBS Hanminjog Bangsong ID ("Migug-e Soli Bangsong"); strong signal as usual; never jammed by N. Korea. (Ron Howard-CA)

5920, Voice of Freedom (ex: 6045). After going three days without any VOF, they have returned to this former frequency on Sept 7. (Ron Howard-CA) 5920, Voice of Freedom. On Sept 27, 0857 start of audio; 0859 distinctive station jingle (SJ) - "jinsil-e soli, huimang-e soli, jayu-e soli bangsong" (Voice of Truth, Voice of Hope, Voice of Freedom Bangsong), followed by time pips. This station can now be fairly easily IDed via this singing jingle; the jamming here is rather ineffectual, with VOF coming through the jamming fairly well. (Ron Howard-CA)

KYRGYZSTAN 4010, Kyrgyz Radio, Bishkek, QSL letter in Russian received from the second director Mr. K. Imanaliev. My report was for 22 April 2017 and the reply was received on 13 July with the text (in Russian) "We confirm you listened to Birinchi Radio on 22 April 2017 in Russian at 23-hour local time on the frequency of 4010 kHz" (Rumen Pankov-Bulgaria/British DX Club)

MADAGASCAR Re "Somaliland Voice" on 7325. 1900-1930 SMV broadcaster via MGLOB Talata Volonondry, FMO by Babcock. (Wolfgang Büschel-Germany, df5sx, wwdxc BC-DX TopNews Aug 29)

Good signal of Madagascar World Voice via Mahajanga tx#1, Sept. 11:

1800-1900 on 9570 Russian KNLS, New Life Station
1900-2000 on 11945 Arabic Radio Feda
2000-2100 on 13710 Arabic Radio Feda
(DX Mix-Bulgaria)

Good signal of Madagascar World Voice via Mahajanga tx#2, Sept. 11:

1800-1900 on 17640 English African Pathways Radio
1900-2000 on 9820 Russian KNLS, New Life Station
2000-2100 on 17640 English African Pathways
Radio
(DX Mix-Bulgaria)

MALAYSIA 9835, a new QSL card from RTM Sarawak FM from Malaysia was received in response to my report for July 04, 2017. A card with a new design. The card is as usual signed by Mrs. Sharimah Abu Bakar, Head Assistant Director Technical Network Section Jabatan Penyiaran (RTM). The card is numbered 36/2017 and shipped from Malaysia on July 20. (Dmitry Elagin-Russia via RUSdx #939 via wwdxc BC-DX TopNews Aug 26)

11665, Wai FM Limbang, via Kajang, 1315, Sept 25 (Monday). Many "Wai FM Limbang" IDs during this 1315-1400 Monday and Thursday segment; in past year's always ID just as "Limbang FM", but Limbang FM must have been taken over by Wai FM this year; in vernacular; played mostly pop songs; fair-good. (Ron Howard-CA)

MEXICO 6185, R. Educacion, Mexico City 0057 etc. 20 Sept 2107 - soft classical piano music to 0100 then into om w/ apparent nx in SS. Reports from YL & OM presumed about earthquake. Signal is not as good as most nights with some modulation issues. Conditions are poor. (Stephen Wood-MA)

MONGOLIA 4895, Mongolian Radio 2. Has been on the air here very erratically; back again Sept 7, with decent level carrier, but am unable to catch any audio; 1131 and subsequent checking. Thanks to Hiroyuki Komatsubara for reporting "-1057-4895kHz MONGOLIA Golden Radio, (Radio 2)". (Ron Howard-CA)

MYANMAR 5985, Myanmar Radio. The Monday edition of "Say It In English" always starts earlier than the Wednesday repeated show; on Sept 25 (Mon.) heard complete program 1220-1233; this week's adventures (dialogue) of "Tom"; very readable. (Ron Howard-CA)

NEW ZEALAND New frequencies of Radio New Zealand Pacific registered in HFCC Database, Sept. 25:

0659-1058 NF 5945 RAN English, ex 7425 from Oct. 1
1059-1258 NF 5945 RAN English, ex 7425 from Oct. 1
1259-1650 NF 5980 RAN English, ex 6170 from Oct. 8
(DX Mix-Bulgaria)

NIGERIA Very weak signal of Voice of Nigeria, Sept. 21:

0700-0730 on 7255vAJA French &
0730-0800 on 7255vAJA Fulfulde
(DX Mix-Bulgaria)

OMAN Radio Oman broadcasts in English daily at 1400-1500 on 15140 but David Crystal reports occasionally hearing English also in the 1500-1600 slot with very good reception. He adds "Israel does have postal ties with Oman. Once I wrote them a reception report and did not get a reply. I do not know of anyone getting a reply so I do not write to them." (David Crystal-Israel/British DX Club)

PAPUA NEW GUINEA 3260, NBC Madang at 1145 with music, woman announcer, in Pidgin, 1159 announcements and back to music. Poor-fair, Sept 4. (Harold Sellers-BC/DXplorer)

7325, I received a letter Sept. 14th from Joseph Emert, president of Life Radio Ministries in Griffin, Georgia who shares the following sad news: "I recently learned from our partners at *Wantok Radio Light*, that vandals have burned the Christian Shortwave radio station to the ground. You have had an important part in our radio missionary efforts. This wonderful radio network, which our ministry helped to launch in 2002, is enjoyed by millions across this island nation in the South Pacific. I wanted you to know about this situation. The loss of the shortwave signal across the nation results in many not being able to tune into the daily proclamation of the Gospel, Bible teaching, and spiritual encouragement." (Guy Atkins-WA/DXplorer)

PAPUA NEW GUINEA (BOUGAINVILLE) 3325, NBC Bougainville, 1016 Pop song, pause, and island song. 1057 return w/live studio M DJ chatter including TC and upcoming pgm notes, then into another Pop song. M w/ "NBC Bougainville" ID and apparent nx past 1104. Still going at 1141 w/island mx. Decent signal but some UTE QRM. (Dave Valko, 31 August) 3325; NBC Bougainville, on Sept 28, at 1123. Pop songs played by DJ, as well as some political segments, till 1200*; mixing badly with RRI Palangkaraya. (Ron Howard-CA)

PERU 4774.906, OCX4W Radio Tarma, Tarma, on Aug 20 at 0108 ID by man in Spanish language, vs CODAR signal on 4763 - 4838 broadband fq range. Proper S=7-8 signal this night, good condition in 60 mb. (Wolfgang Bueshel-Germany df5sx, wwdxc BC-DX TopNews Aug 20)

4950.013, OBX71 Radio Madre de Dios, Puerto Maldonado, and 4949.733 adjacent Radio Nacional Angola transmission. Latter S=6 fluttery signal, but little better S=8-9 on adjacent upper. Exciting reception

though. (Wolfgang Bueshel-Germany df5sx, wwdxc BC-DX TopNews Aug 20)

6173.94, 21/9, 0142, R. Tawantinsuyo, Cusco, talks, Peruvian music, weak. (Giampiero Bernardini-Italy/PlayDX)

PHILIPPINES Reception of Radio Teos via FEBC, Sept. 4:

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

Good signal of Radio Veritas Asia, Sept. 12:

1230-1257 on 15225 PUG Kachin
(DX Mix-Bulgaria)

Reception of Radio Veritas Asia, Sept. 13:

1130-1157 on 15450 PUG Burmese
(DX Mix-Bulgaria)

7540, Voice of America at 1316 in Korean, two men having a discussion. - Fair, Sept 1. (Harold Sellers-BC/DXplorer)

12120, Radyo Pilipinas, QSL card in 24 days. Report in English sent to: dzrp.radyopilipinas@gmail.com. (Christian Ghibaudo-France/DX Fanzine)

15225, 17.08.17, 1251-1257, R. Veritas Asia, via Palauig Zambales, Kachin: TK, Song, Signature Tune. At 1257 IS+ID in EE and S/OFF. 35333. (Antonello Napolitano-Italy/DX Fanzine)

ROMANIA Radio Romania International English broadcast schedule to October 28, 2017:

0000-0100 on 7375 9730
0300-0400 on 7375 9730 11825 15220 (DRM)
0530-0500 on 7330 (DRM) 9620 17760 21500
1100-1200 on 13770 15130 17670 21570
1700-1800 on 11810 13660
2030-2100 on 6170 9535 (DRM) 9610 11850
2200-2300 on 7325 7430 9760 9790
(Station Direct)

RUSSIA 7345, Radio Sakha, via Yakutsk, 1032-1100, Sept 26. Mostly Russian/Yakut sounding non-stop songs; 1050 usual format with ID; 1100 IS (Jew's harp - khomus) and time pips in the clear, but then hit with strong CNR1 sign on. Their 7295 remains off the air. (Ron Howard-CA)

SAUDI ARABIA Al-Azm Radio is a new Saudi Broadcasting Corporation service for troops in the southern part of the Kingdom on MW 549 and 747 kHz and FM 94.9, 99.0, 107.0 MHz and SW 11745 as follows:

0700-1700 on 11745 JEDDAH/RIYADH Arabic, good/fair, Sept. 12

1700-2000 on 11745 JEDDAH/RIYADH dead air/test tone, Sept. 11.

Thanks to Tarek Zeidan, Mauno Ritola, David Kernick to identify the station. (DX Mix-Bulgaria)

SOLOMON ISLANDS 5020, SIBC at 1145 playing oldie song, 1153 Bible devotion by woman, 1156 hymn, 1157:40 suddenly off in midst of hymn with no ID. Fair, Sept 6. (Harold Sellers-BC/DXplorer) 5020, SIBC, 1157*, Sept 25. So, they have set the timer on both frequencies to cut off at xx57* (9545, at 0457*) (Ron Howard-CA)

9545, SIBC, 0431-0457*, Sept 22. DJ in Pijin; pop songs; again, timer cut them off at 0457*. (Ron Howard-CA)

SOMALIA Reception of Voice of the People of Somaliland, August 26. The station is on shortwave from August 19 according to IBB monitoring:

1900-1930 on 7325, probably BaBcoCk Somali, strong signal
(DX Mix-Bulgaria)

SOUTH AFRICA Good signal of Channel Africa on August 28:

1600-1655 on 15235 MEY French Mon-Fri
1700-1755 on 15235 MEY English Mon-Fri
(DX Mix-Bulgaria)

SUDAN Fair signal of Radio Omdurman Sudan on Sept. 16:

0300-0600 on 7205 ALF Arabic
(DX Mix-Bulgaria)

SURINAME 4990, 0634, Radio Apintie w/weak signals 5/8, improving to poor by 0940. Non-stop musical variety incl. some Indonesian songs until after 0928 when lively spoken features included male in Dutch. Followed till 0950 when China on high side of 4990 started to come through. Apintie

carrier often noted on 4989.983 but audio is rarely hrd. (Bryan Clark-New Zealand/New Zealand DX Times)

SWAZILAND Trans World Radio Africa via Manzini, Sept. 16:

1905-1935 on 9940 MAN Lingala
1935-1950 on 9940 MAN French
(DX Mix-Bulgaria)

Reception of Trans World Radio Africa on Sept. 12:

1400-1415 on 15360 MAN Urdu, strong
(DX Mix-Bulgaria)

TAIWAN 7300, Radio Taiwan International & Chinese jammer at 1153, both with talk. - Fair, Sept 1. (Harold Sellers-BC/DXplorer)

David Crystal writes that Radio Taiwan International is currently heard well in Israel in English at 1600-1700 on 9405, and says "I learnt of this when then sent me a questionnaire. Very good reception, I am happy to hear Taiwan again". (David Crystal-Israel/British DX Club)

TAJIKISTAN Adventist World Radio, presumed still from Dushanbè-Yangiyul, has replaced, from 1300 to 1330 on 15430 its programme in Dzongkha language with one in Nepalese. This change was noted after listening to their English announcement ahead of the broadcast. In addition, the following E-mail address was given on the air by a Nepalese speaker: nepal@awr.org. (Antonello Napolitano, Editor of DX Fanzine)

UNITED KINGDOM New time and frequencies of BBC in Farsi from Sept. 22:

0430-0530 on 9480 DHA
0430-0530 on 11875 SLA
0430-0530 on 13825 TAC
1600-1700 on 5875 TAC
1600-1700 on 6195 SLA
(DX Mix-Bulgaria)

BBC World Service has launched broadcasts in Pidgin, the first new service in a £289m expansion funded by the government. The World Service will launch two new language services, Yoruba and Igbo. Teams are also getting ready to launch Amharic, Afaan Oromo and Tigrinya services. (Jonathan Kempster-UK/British DX Club)

USA Radio Miami International reported on its Facebook page that Hurricane Irma did extensive damage to the station's studio/transmitter site in Okeechobee. "Two antenna towers are down and many poles holding transmission lines are also down. Power went out around 2030 Sunday. Meanwhile, all transmitters are off the air," WRMI reported. "We are off the air since Sunday night," WRMI Manager Jeff White told ARRL. With internet service also out, the station doesn't even have a livestream outlet. (ARRL Newsletter via Ron Hunsicker-PA)

VANUATU 7259.94, R. Vanuatu, some sort of editorial and like rpt by M anncr at 1022. 1023 mx bridge, and M returned. Getting the low het from 7260 China coming up. (Dave Valko, 31 August) 7259.96, R. Vanuatu, 1250-1350, Sept 14. The normal propagation would have favored China here, but not so today; pop songs; 1302 news in vernacular; series of clear IDs; 1336 speech in English with mentions of "trade . . . Vanuatu," etc. (Ron Howard-CA)


VATICAN Vatican Radio has made further cuts to its shortwave transmissions from 1 August, in terms of English broadcasts the 0300 and 0630 broadcasts to Africa have been dropped. (Bulgarian DX blog/British DX Club)

VIETNAM 9839.83, VOV, 1149, Sept 15. Item about ecotourism in English, fair reception. (Ron Howard-CA)

ZAMBIA 5915, R. One/ZNBC1, continues to be silent through Sept 22, after 0240+. Clearly a major project to be able to repair their antenna! (Ron Howard-CA)

9680, Voice of Hope Africa, at 0458 with loop of IDs ("From Zambia to the world, this is the Voice of Hope Africa") and IS; poor. (Ron Howard-CA)

ZIMBABWE 6015, ZBC Radio. Thanks to an alert from Bill Bingham, indicating he last heard Zanzibar here about July 20, I randomly checked 0300-0415, on Sept 11, only to confirm Bill's observations - no trace of any signal here! So, seems ZBC has indeed been silent for quite some time on this frequency. (Ron Howard-CA)

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. The next major pirate holiday will be on Labor Day weekend, early in September, prior to September 4.

One upside is that the forthcoming end of summer is certain to lower summertime static levels on the shortwave bands.

Pirate busts by the FCC during the past month were mainly concentrated in the New York City metro area and in Florida as usual. The FCC issued a Notice of Unlicensed Operation to Albo Investments LLC for operating a pirate on 88.7 MHz from an address on Wiley St. in Hollywood, FL, without identifying an alleged individual operator of the station. The FCC issued a Notice of Apparent Liability to American College Express LLC for operating a pirate on 88.7 MHz from an address on Rodman St. in Hollywood, FL, without identifying an alleged individual operator of the station, and without making it clear whether the two Hollywood notices are related. The FCC issued a Notice of Apparent Liability to Frances V. Chapman for operating a pirate on 88.7 MHz from a residential property on Carver St. in Lake Worth, FL. The FCC issued a Notice of Unlicensed Operation to Ernest J. Nardi of Brooklyn, NY for operating a pirate on 103.1 MHz from his residence. The FCC issued a Notice of Unlicensed Operation to Jean Carries of Overland Park, FL for operating a pirate on 90.1 MHz from his residence. The FCC issued a Notice of Unlicensed Operation to Michael Palache for operating a pirate on 94.7 MHz from a residence in West Palm Beach, FL, with a resident of the property identifying Palache as the station operator. The FCC issued a Notice of Unlicensed Operation to Reginald C. and Genevieve Brooks for operating a pirate on 89.5 MHz from a residence in Miami Gardens, FL. The FCC issued a Notice

of Unlicensed Operation to Venette Innocent for operating a pirate on 98.5 MHz from a residence in Pompano Beach, FL, and it is unclear if she pleaded Innocent. The FCC issued a Notice of Unlicensed Operation to Stewart Kantor of San Jose, CA for operating a Full Spectrum Cobalt Plus transmitter that interferes with Verizon cell phone signals. The FCC issued a Notice of Unlicensed Operation to Joseph Alside Baguidy of Oakland Park, FL for operating a pirate on 99.5 and 100.3 MHz from a rented residence in Oakland Park, FL. The FCC issued a Notice of Unlicensed Operation to Audrian White of North Lauderdale, FL for operating a pirate on 101.1 MHz from a residence. The FCC issued a Notice of Unlicensed Operation to Jemima Jean Lucas of Miami, FL for operating a pirate on 98.1 MHz from a residence. The FCC issued a Notice of Unlicensed Operation to Jean Amilcar of West Palm Beach, FL for operating a pirate on 107.3 MHz from a residence. The FCC issued a Notice of Unlicensed Operation to Roger Bailey of North Lauderdale, FL for operating a pirate on 100.1 MHz from a residence. The FCC issued a Notice of Unlicensed Operation to Anslø Alezy of Irvington, NJ for operating a pirate on 88.1 MHz from his residence. The FCC issued a Notice of Unlicensed Operation to Lawrence Mason of East Orange, NJ for operating a pirate on 107.9 MHz. The FCC issued a Notice of Unlicensed Operation to Kevin and Allison of Mishawaka, IN for operating a pirate on 93.9 MHz from their residence. The FCC issued a Notice of Unlicensed Operation to Gilberto and Jamie Cerrato of Sherwood, AR for operating a pirate on 97.9 MHz. None of this month's busts were for shortwave pirates, and the FCC provided no station IDs for any of the busted FM pirates.

William T. Hassig of IL forwards the interesting item that the national TMZ network briefly covered the monthly barrage of FCC FM pirate busts.

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.

Amphetamine R. 6950 0114 8/1/17 good. Prgm of rock mx w/SSTV digital image at close. (Taylor-WI)

Captain Morgan 6950 0053 8/6/17 poor to fair. Prgm of blues mx. (Taylor-WI)

Chairman of the Board R. 6940 0231 7/16/17 good. Prgm of Frank Sinatra mx. (Taylor-WI)

Clever Name R. 6940 0114 7/17/17 good. Prgm of rock mx. (Taylor-WI)

Dr. Detroit 6965 0126 8/6/17 poor to fair. Prgm of rock mx. (Taylor-WI)

KIPM 6925 0234-0252 8/5/17 fair. Old Alan Maxwell prgm ancd as a relay via Pee Wee R. (Taylor-WI)

KUNT 6995 0113 8/1/17 good. Prgm of rock mx. (Taylor-WI)

Pee Wee R. 6925 0152-0226* 7/23/17 fair. Prgm of rock mx w/digital SSTV image at close. (Taylor-WI)

Pee Wee R. 6925 0152-0226* 7/23/17 fair. Prgm of rock mx w/discussion of Rice Krispies. (Hauser-OK)

Pee Wee R. 6925 0057 8/1/17 fair. Six consecutive beer can SSTV images. (Taylor-WI)

R. Enterbaken 6950 0112 7/23/17 fair. Prgm of rock mx by a rock artist who committed suicide. (Taylor-WI)


R. Enterbaken 6950 0120 7/23/17 S9. Prgm of rock mx resurrecting an old Europirate ID. (Hauser-OK)

R. Free Whatever 6950 0052 7/21/17 fair. Prgm of rock mx w/usual ancrs Dick Weed and Stavin. (Taylor-WI)

R. Free Whatever 6945 0056 8/1/17 fair. Prgm of rock mx w/ Dick Weed and Stavin. (Taylor-WI)

Skippy R. 6925 0013 7/23/17 fair. Prgm of rock mx w/CW IDs. (Taylor-WI)

Wild 100 6950 0322 7/16/17 fair. Prgm of mainly instr rock mx. (Taylor-WI)

Wolverine R. 6950 0111-0115 7/30/17 S8-S9. Prgm of rock mx. (Hauser-OK) 

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.

QSL Report

Sam Barto • 78 Blakeman Road • Thomaston, CT 06787



ALASKA: KNLS The New Life Station 11885 The station verified my electronic report with a full data "Greetings from KNLS" cd. in 56 ds. It was post-marked from Nashville, TN. (D'Angelo-PA).

ARMENIA: Radio Mi Amigo International 11845 via Noratus / Gavar This was a special transmission marking the anniversaries of the Marine Offences Acts in the United Kingdom and in the Netherlands. The QSL card arrived in 7 ds. for an email report

to: studio@radiomiamigointernational.com. The QSL features a photo of the original ship Mi Amigo at sea. (Roe-UK). **RTL Radio Luxembourg 9975 via Noratus / Gavar**. I received a full data eQSL by Facebook Messenger from producer / presenter Helmer Litzke in 2 days for a contact via Messenger. This was my first ever eQSL via this method. (Roe-UK).

STATION NOTES: XEPP Radio Educacion 6185 Addr: Radio Educacion "Onda Corta", Apartado Postal 44 277, MEX-03100 Mexico, D.F., Mexico. v/s Maestro Antonio Tenorio-Munoz Cota. Email: ondacorta@radioeducacion.edu.mx **Central Radio International 6875** Email: merseyradio@yahoo.com **Continental Radio 3905** Email: continentalradio@hotmail.com **Cupid Radio 15070** Addr: P.O. Box 9, NL-8096 ZG Oldebroek, Netherlands. **Fantasy Radio 5810** Email: fantasyradio@rock.com ...via PLAY DX...Sam.

AUSTRALIA: 2325 (Tennant Creek)

2485 (KATHERINE) and 4835 (Alice Springs) All 3 radio stations verified my reception of their last day transmission in 14 days. The QSL was sent by regular postal mail with a very nice, long email response from Ryan MacArthur who works in Master Control at ABC Darwin. Ryan attached a scan of their

美在廣海

Commemorative Card of 2008 Beautiful Guangxi Knowledge Contest



RUA FREI HERMENEGILDO, 300
TEL. 20704 E 20705

44.100 - FEIRA DE SANTANA - BAHIA - BRASIL

STC. B - 100 kHz - 15 kW - O. H - 2700 - 470 kHz - 15 W. G. T.

Confirmamos sua reportagem de audição de nossa Emissora

no dia 16 de outubro de 1975

das 19,04 às 19,18 GMB

Febra. 12 de janeiro de 1976

Dear friend Samuel, thank you very much
for your reception report of our Rádio
Sociedade. It was quite all right. I hope
you'll write to us again. Bye.

N.º 12/76

ABB.

previous QSL card since they no longer have any physical QSL cards to send to their listeners. Ryan stated "our presenters and staff enjoyed hearing from shortwave listeners all around the world. Most recently, we heard from a listener as far away as Finland. It is a shame that yours will probably be the last correspondence we receive now that the shortwave service has ended. (D'Angelo-PA).

FRANCE: Radio Oomrang 15215 via
* Issoudun The station verified my electronic report over-

night with a full data PDF attachment from Media Broadcast signed by Michael Pletz, Sales Consultant, Business Unit Radio mentioning "We will also forward your report to the broadcaster". (D'angelo-PA).

STATION NOTES: CWA148 Radio Universo Internacional 6055 v/s Sr. Brantas, Director. Radio Dhamaal 11650 Email: info@radiohamaal.ca Radio Oman 15140 Addr: Radio Sultanate of Oman, P.O. Box 397, Muscat Email: oman et@omantel.net Radio Genesis 4850.7 Addr: c/o Genesis Presbyterian Church of Huanta, Miguel Jiron Untiveros 431, Huanta, Ayacucho, Peru. Radio Mundial Sao Paulo 3325 v/s Pastora Luci Rothschild de Abreu. Addr: Avenida Paulista 2200, 1 andar, Cerqueira Cesar, CEP-01310-300 Sao Paulo, Brasil. Sallandse Boer 3926 Email: sallandseboer@msn.com... via PLAY DX... Sam.



Rádio Nacional de Angola

RPC

SELO

SENHOR

Faça de mim
Instrumento de VOSSA PAZ
E que esta PAZ
Seja
meu instrumento de trabalho

Dr. José Guidoreni
Diretor

SR. SAMUEL L. PARTO

17 PROSPECT PLACE

BRISTOL = CONNECTICUT

USA= 0601C



GERMANY: Radio Ohne Namen 6070

* via Kall Two separate email QSLs were received for reports on two separate broad-

casts in 20 minutes and in 3 days respectively. Reports were sent to: radio.on@gmx.de with .avi video clips of reception. The QSLs featured rural landscapes scenes. (Roe-UK). Nordeutscher Rundfunk 5930 via Nauen (East Germany). The station verified my email report for their Christmas Eve Gruss An Bord broadcast in 35 days with two separate * "NDR Das Beste am Norden" cards. (D'Angelo-PA). The Classic Experience Email QSL in Word. docx in 335 days on an original postal report with an email follow up to: walkerbroadcasting@gmail.com. This QSL was on 6070 kHz via Rohrbach. The QSL includes a photo comprising an evening view of a town in Alaska. (Roe-UK).

GUAM: KTWR Trans World Radio

12025 The station verified my electronic report with a full data email reply in 20 days from Becky Philyam, KTWR Frequency Coordination Department. (D'Angelo-PA).

PHILIPPINES: Voice of America

IBB Transmitting Station 7460 The station verified a direct report to the station with a full data "Powerful Transmitters and Antennas



RADIO NACIONAL DE ANGOLA

Caro Senhor

Aceusamos e recepção de sua carta, sobre as condições de audição de nossa estação emissora, na frequência de 3105 kHz, aos 31/10/76 no período das 19,04 às 19,18 e das _____ às _____ horas GMT.

Car Monsieur

Nous remercions votre lettre et vos informations sur nos conditions d'auditions sur la fréquence de _____ KHz, le _____ des _____ heures TMG.

Dear Sir

We received your letter listening conditions of broadcast on short wave frequencies of _____ KHz, listened by you from _____ GMT.

Rádio Nacional de Angola
DIRETOR DE PROGRAMAS

Ca. Postal 1228 - Caixa 228 Enclave ARI - Luanda-República Popular de Angola

Towering Hundreds of Feet". (D'Angelo-PA).

ROMANIA: Radio Romania International

I received three cards on the same day for three separate reports over a period of three months on frequencies 9620, 7375 and 6170. The cards were received in 135 days, 98 days and 53 days respectively - all for online reports. The cards featured historical strongholds / fortress series and feature photos of Blidaru Stronghold, Severin Stronghold and Ulpia Traiana Sarmizegetusa Stronghold. (Roe-UK).

TURKEY: Voice of Turkey 9830 via Emirler

The station verified my electronic report with a full data "Mosque" card and station schedule in 79 days. (D'Angelo-PA).

UNITED STATES: The Classic Experience

email QSL in 335 days. This QSL was from the Okeechobee, Florida site. Please refer to Germany for additional information on this station. (Roe-UK). **WJHR Radio International** 15555 via **Milton**. The station verified my electronic report with an extensive no data series of attachments presumably designed to verify my report. The first attachment was a no data Spanish letter "Jorge". The second was a nice photo of the station equipment. The third was a copy of an info ad providing some old data

STATION NOTES: Radio Scirocco 6280 Email: scirocco104@hotmail.com Radio Scotland International 6280 Email: radioscotland@hotmail.com Radio Sensation 3940 v/s Johnny Bravo Addr: P.O. Box 73, NL-7160 AB Neede, Netherlands. Radio Shadowman 6305 Email: radio shadowman@hotmail.com Radio Sonar 6275 Email: radisononar@hotmail.de Radio Spaceman 6305 Addr: same as Radio Sensation. Radio Valencia 6305 Email: pk152@hotmail.com Radio Victoria 6285 and 6295 Email: freeradiovictoria@hotmail.com Radio Zodiak International 6321.7 Email: radiozodiak@hotmail.com...via PLAY DX...Sam.

such as station times and frequencies. The fourth was a no data QSL. The fifth was a Bible tract. The sixth was a brief letter from G. S. Mock thanking me for listening. The next was a brief letter from Mr. Mock welcoming a new listener. The final attachment was information about the station including that WJHR was named after Mr. John Hill who dedicated 40 years of faithful service to the recording of sermons. (D'Angelo-PA)...What a month!...Sam.

QSL

Verification Card

Station Back to God Hour via HRVC, Honduras

To Richard A. D'Angelo

This is to confirm your reception of our transmission dated 1 August 2005 0327 - 0356 hours UTC on a

frequency of 4,819 kHz with _____ watts.

Via La Voz Evangelica (HRVC), Tegucigalpa, Honduras

x 

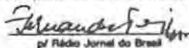
Signature & Official Seal

Este cartão confirma a recepção de nossa emissora.

ZYD 66
OM-940 KHz
OT-4875 KHz
FM-99.7 MHz

no dia 20.02
às 19:00
horas

Agradecemos o seu interesse e esperamos que tenha outros momentos de prazer ouvindo a Rádio Jornal do Brasil.


p/ Rádio Jornal do Brasil

ZYG-680

This verifies your reception of our station

ZYD 66
OM-940 KHz
OT-4875 KHz
FM-99.7 MHz

date _____
at _____
o'clock _____

We thank you for your interest and hope that you will have many hours of continued good listening to Rádio Jornal do Brasil.

p/ Rádio Jornal do Brasil

Some verie interesting QSLs this month. I don't think I've ever used the word separate so many times in a QSL column.

Till next time...best of QSLing... Sam.



Contributors' Page

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Ed CICHOREK , NJ	SW8, ICF-2010, SX-99, Eavesdropper
Rich D'ANGELO , Wyomissing, PA	RX340, Alpha Delta DX Sloper
Glenn HAUSER , Enid, OK	FRG-7, DX-398/ATS-909, YB400, ICF SW-07
Vince HENLEY , Anacortes, WA	Tecsun PL-380, JRC NRD-525, Drake R8B, Sony ICF-2010, Ten-Tec RX-340
John HERKIMER , NY	No equipment listed
Ron HUNSICKER , PA	No equipment listed
John MILLER , Ochlocknee, GA	Sangean 909X & Sony 7600 GR
Ralph PERRY , Wheaton, IL	R8B, NRD-545, E1, 355' bi-dir LW
Pamela PRODAN , Wilton, ME	YB 400PE
Alan ROE , Teddington, UK	WinradioG31DDCExcalibur, Elad FDM-S2 17m long wire
Ronald SIVES , South Plainfield, NJ	Eton field radio & 66; SWL dipole
Dave TURNICK , Sinking Spring, PA	RX340, WinRadio, Alpha Delta DX sloper
Jack WIDNER , Edinboro, PA	Sony 2010 40ft longwire
Stephen WOOD , MA	No equipment listed



Loggings

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

- 2500 **UNITED STATES WWV** in EE. SIO 333, August 31, 2017 1245 - 1250. Standard time signal. Noisy, but clear signal. (Henley, WA)
- 2500 **UNITED STATES WWV** Standard Time Signal in EE. SIO 333. August 15, 2017, 0455-0458. Heavy QRN, but a usable signal. (Henley, WA)
- 3325 **INDONESIA RRI** 3325, Sept 22 at 1258, S2-S3 music, no doubt RRI Palangkaraya, talk follows timesignal about 25 seconds late after 1300 --- don't rely on it for navigation or you may run into a volcano! Still nothing on 9525- from VOI English. Astunori Ishida agrees, still no logs of that anywhen since Sept 13 (Hauser- OK)
- 3325 **INDONESIA** 3325, Sept 18 at 1228 immediately upon tune-in, "Radio Republik Indonesia" ID in passing, at S2-S4, with Bougainville no doubt already off --- the last living Indonesian SW station as 9525-, VOI is still absent (but maybe not forever) (Hauser- OK)
- 3330 **CANADA CHU Standard Time Signal** in EE and FF. SIO 333. August 15, 2017, 0451 - 0453. Heavy QRN, but a usable signal for its intended purpose. (Henley, WA)
- 3480 **SOUTH KOREA Voice of the People**, clandestine in KK. SIO 332, August 31, 2017, 1250 - 1305. Poor signal, but listenable. M & F anchors with long commentary. MX between alternating anchors. Target is N. Korea DPR. (Henley, WA)
- 3925 **JAPAN Radio Nikkei 1** domestic broadcast in JJ. SIO 343, August 29, 2017, 1350 - 1400. MX, talk, domestic broadcast, weaker than Radio Nikkei 2, but quite listenable. High energy pop MX. Signal fading into the QRN after 1359. (Henley, WA)
- 3945 **JAPAN Radio Nikkei 2** domestic broadcast in JJ. SIO 454, August 29, 2017, 1321 - 1336. Pop MX programming, M announcer in humorous conversational format. Strong signal, easy listening. (Henley, WA)
- 3955 **UK Radio Taiwan Int** Woofferton, 09/07, 1940. French. Programme: "L'heure des musées" with female presenters. 55555. (Roe-UK)
- 3985 **GERMANY Radio Slovakia Int** Kall, 09/01, 1900. English. Talk about the 25th anniversary of the Slovak constitution. 35333. (Roe-UK)

- 3985 **SOUTH KOREA** *Voice of Hope* clandestine in KK. SIO 322, August 29, 2017, 1402 - 1409. M & F announcers, much QRM and heavy QRN. Talk format. Poor signal overall with considerable Amateur QRM on LSB. VOH is listenable, but just barely. (Henley, WA)
- 4765 **CUBA** *Radio Progreso* domestic broadcast in SS. SIO 333, September 1, 2017, 0332 - 0336. F anchors, talk, and commentary. Latin MX with M vocals at 0335. (Henley, WA)
- 4775 **SWAZILAND** *Trans World Radio* - Manzini, *0428-0447 Sep 8., IS with a man announcer giving station ID ("This is Trans World Radio, Swaziland") with a woman announcer opening the English language program at 0430. Fair with some CODAR QRM. (D'Angelo-PA)
- 4885 **SOUTH KOREA** *Voice of Hope* clandestine in KK. SIO 444, August 29, 1410 - 1418. M & F announcers in talk, MX with F vocals. Slight QSB, Heavy QRN, but much more listenable here than on 3985. (Henley, WA)
- 4885 **SOUTH KOREA** *Echo of Hope* (VOH 2), clandestine broadcast in KK. SIO 333, August 31, 2017, 1308 - 1312. M & F commentators in conversational format. (Henley, WA)
- 4940 **CHINA** *Voice of the Strait* domestic broadcast in CC. SIO 232, August 31, 2017, 1313 - 1331. Listed language is Mandarin. Pop MX, target Taiwan. Weak signal, but listenable. (Henley, WA)
- 5025 **CUBA** *Radio Rebelde*, Bauta 8/20 0405-0412__News or announcements in Spanish followed by music. Fair w/ moderate fading. (Sives-NJ)
- 5025 **CUBA** *Radio Rebelde* in SS. SIO 444, September 1, 2017, 0343 - 0346. Latin MX program. (Henley, WA)
- 5025 **CUBA** *Radio Rebelde* in SS. SIO 444 August 15, 2017, 0442 - 0443. Talk and commentary. (Henley, WA)
- 5810 **UNITED STATES** *WEWN* 8/20__0420-0427 Spanish language religious program__Good w/minor fading. (Sives-NJ).
- 5890 **UNITED STATES** *WWCR* 8/26__0245-0255__ discussion of the controversy of what's being taught in schools about LGBT related matters. 43333 (Sives-NJ)
- 5905 **NORTH KOREA** *Echo of Unification* in KK from Pyongyang. SIO 333, August 29, 2017, 1420 - 1428. F announcer, talk format, signal acceptable to poor. Shallow QSB, increasing QRN. Switch to M announcer at 1425. (Henley, WA)
- 5905 **NORTH KOREA** *Echo of Unification* clandestine in KK. SIO 232, August 31, 2017 1336 - 1341. Speech and MX. Long harangue by F commentator. MX with F vocalist. Target is S. Korea. (Henley, WA)
- 5910 **COLOMBIA** *Alcaravan Radio* - Puerto Lleras, 0432-0510+ Sep 1, man announcer with a very long religious talk in the Spanish language. Haven't heard these guys recently so pleasant surprise. Poor reception. (D'Angelo-PA)
- 5910 **COLUMBIA** *Alcaravan Radio*, domestic broadcast in SS. SIO 343, September 1, 2017, 0551 - 0601. Mostly Latin MX in SS. Much QRN, but can hear the station clearly through the noise. Slow QSB. Good MX. F announcer with ID at top of hour, then back to MX. (Henley, WA)
- 5920 **GERMANY** *HCJB Deutsche* Weenermore, 08/31, 0840. German. Service and a hymn with talk by a woman and a man. 35333. (Roe-UK)
- 5935 **UNITED STATES.** *WWCR*, Dr. Gene Scott ministry religious broadcaster in EE. SIO 555, September 1, 2017, 0405 - 0410. F preacher and scripture reading from Hebrews 3. Relay of University Network broadcasts. Program off air except for strong carrier at 0409. (Henley, WA)
- 5975 **GERMANY** *Adventist World Radio* - Nauen, 0405-0429* Aug 30, man announcer with talk in the listed Bulgarian language. . Closedown station ID and announcements followed by light instrumental music before carrier terminated. Poor to fair. (D'Angelo-PA)
- 5975 **CHINA** *CNR 8* in KK, domestic broadcast. SIO 333, August 31, 2107, 1403 - 1407. M & F news readers. (Henley, WA)
- 5995 **MALI** Bamako finally with decent audio 2205 with male speaker who went all the way to 2230, where an ID was heard in French, followed by some talking and music. Clear until 2300. (Widner-PA)
- 6000 **CUBA** *Radio Habana Cuba* 9/4, 0534-0546; in EE, Spanish flamenco mx. Fair w/moderate fading. (Sives-NJ)
- 6030 **ETHIOPIA** *Radio Oromtya* Addis Ababa, 09/03, 1905. Afar. Great Horn of Africa music and talk by male presenter with second male in studio. 43333. (Roe-UK)
- 6060 **CUBA** *Radio Habana Cuba* 9/8, 0300-0312; News in EE, including mention of Hurricane Irma and the recent landfall on the northern coast near Guardalavaca. 32222 (Sives-NJ)
- 6070 **CANADA** *CFRB* 0742 8/23. Talk Back Program and adds for Echo Tank. Good. (Miller-GA)
- 6070 **GERMANY** *Radio Ohne Namen* Kall, 09/01, 1815. German. German big band music from 1930s. 45433. (Roe-UK)
- 6080 **BOTSWANA** *Voice of America* - Moepeng Hill, 0328-0359* Aug 29, woman announcer with English language station ID followed by Hurricane Harvey update and other features. Fair. (D'Angelo-PA)

- 6090 **ETHIOPIA Amhara State Radio** – Addis Abba (presumed), 0317-0342 Sep 13, instrumental music rising above the noise floor with Anguilla's Caribbean Beacon not on channel tonight. Poor to fair on peaks but eventually losing battle with the noise floor. (D'Angelo-PA)
- 6100 **CUBA Radio Habana Cuba** 6100, Sept 21 at 0554, Radio Habana Cuba English is off again from this frequency; 6060 is VG at S9+10/20; 6000 is S9+10, sufficient modulation; but 6145 is unusually weak, S8-S7, and under modulated: very poor overall (Hauser- OK)
- 6100 **CUBA Radio Habana Cuba** 6100, Sept 18 at 0607, Radio Habana Cuba English reactivated here after missing several nights, good S9+20, , R. Rebelde with JBM music (Hauser- OK)
- 6160 **GERMANY 6160 Shortwave Radio Test** Winsen, 09/01, 1840. English. Another test broadcast from the as yet un-named new station with Oldies hits including Kate Bush's "Wuthering Heights". 35333. (Roe-UK)
- 7205 **SUDAN Sudan Radio** – Al – Aitahab, 0349-0435 Aug 17, local vocals until 0400 when woman announcer began news program. End of news at 0411 followed by apparent news related features. Poor to fair. (D'Angelo-PA)
- 7205 **FRANCE Radio France Int'l**, 2111-2113, 9-19-17. Man in French with rapid fire talk. SIO333. (Cichorek-NJ)
- 7280 **VIETNAM Voice of Vietnam** Hanoi, 09/07, 1903. English. News. 35333. (Roe-UK)
- 7285 **ALBANIA Radio China Int'l**, 2115-2117, 9-19-17. Talk in English, man and woman discussing public security of citizens and economic development in China. Fair to good signal. (Cichorek-NJ)
- 7305 **ASCENSION BBC** 7305, Sept 22 at 0605, poor signal in French, mentions Vaticaine, but listed as BBC, to be followed by Hausa at 0630. No hum (Hauser- OK)
- 7315 **UNITED STATES Voice of Vietnam** relay via Cypress Creek, S.C. in EE. SIO 555. August 15, 2017, 0115 – 0127. M & F commentators, on economic matters. Statement of economic goals, food growth, and a discussion of English language use within Vietnam. (Henley, WA)
- 7315 **UNITED STATES World Harvest Radio** in EE. SIO 555. August 15, 2017, 0128 – 0130. WHRI giving contact and ID information. (Henley, WA) 340 CUBA. RHC in SS. SIO 443. August 15, 2017, 0140 – 0143. M anchor in conversation and talk. (Henley, WA)
- 7325 **SAO TOME Voice of America** – Pinheira, 0355-0412 Sep 16, woman announcer talking in the listed Kinyarwanda language followed by group vocals. More talk closing program before top of the hour ID and mix of man and woman speaking. Fair. (D'Angelo-PA)
- 7365 **UNITED STATES Radio Marti** in SS SIO 544. August 15, 2017, 0135 – 0140. M announcer with talk, possibly news commentary. (Henley, WA)
- 7385 **UNITED STATES WRMI** 9/2_0345-0359; this seemed like another radio play, except that it sounded like Russian or some Slavic language. Puzzling, because after an apparent conclusion by one OM, the station ID suddenly comes up in English, stating the end of transmission before going off. 54444 (Sives-NJ)
- 7385 **UNITED STATES WHRI** in EE, religious broadcaster. SIO 555, September 1, 2017, 0317 – 0323. WHRI MX program, pop MX, Christian Rock. No QRN or QRM, very slight and shallow QSB. Excellent signal. (Henley, WA)
- 7405 **UNITED STATES Radio Marti** 9/16, 1335-1345; one song and some monologue in SS. 33343 (Sives-NJ)
- 7455 **NORTHERN MARIANAS Radio Free Asia** from Tinian in KK. SIO 544, August 29, 2017, 1541 – 1546. M commentator with long harangue. (Henley, WA)
- 7460 **MOLDOVA Radio Payam e-Doost** – Grigoriopol, *0230-0315* Aug 29, opening music followed by station ID and talks in the Farsi language. Some short instrumental music segments and more talks by a man and woman. Carrier terminated after brief instrumental music closing. Fair. (D'Angelo-PA)
- 7465 **SINGAPORE BBC WS** in Pashto. SIO 544, August 29, 2017 1546 – 1555. Listed language is Pashto, target Afghanistan. M in conversation / interview format, with call – in or man-in-the-street interview style. Passionate and strongly spoken conversation. (Henley, WA)
- 7485 **SINGAPORE BBC WS** in Urdu. SIO 444, August 29, 2017, 1555 – 1600. Listed language is Urdu. M anchors in conversation, with a few words in EE, like "social media" cropping up here and there. Target listed is S. Asia. F announcer at sign-off. Carrier gone at 1600. (Henley, WA)
- 7490 **UNITED STATES WBCQ** 8/20_0450-0520__ two OM apparently debunking any real possibility of the successful deployment of nuclear weapons by ANYONE; citing their reasons why in detail. Some declassified material was read. Seems intriguing! 43333 (Sives-NJ)
- 9395 **UNITED STATES WRMI** 0502 8/12. Mx by Tom Petty, ID's and Bob Newman talk. Fair. (Miller-GA)
- 9395 **UNITED STATES WRMI** 9/17, 0443-0507; XMTR 6 not coming in good for me at all, yet I can discern some mx, such as the Fab4, CCR, Jackson5, even Twisted Sister. A station ID promptly at 0500, followed by a 2 min. VOA news brief. Mostly poor. (Sives-NJ)
- 9400 **BULGARIA Voice of Report of the Week** Sofia, 09/03, 1600. English. Update on the VORW schedule followed by long talk on benefits of shortwave radio and music. 45444. (Roe-UK)

- 9445 **INDIA All India Radio**, 2131-2142, 9-19-17. Woman in English with casual ID at 2132 and into musical selections of popular sub-continent vocals. Fair to good signal. (Cichorek-NJ)
- 9450 **GERMANY Athmeeyayathra Radio** Nauen, 09/02, 0030. Indian Minority langs/Hindi. Talk in various languages (as listed by AOIK and EiBi) 0030: Either Bundelkhandi or Garwali; 0045: Kangri; 0100: Kinnauri; 0115: Hindi45433. (Roe-UK)
- 9515 **TURKEY Voice of Turkey** 0300 8/22. Program: High on the Agenda. Good. (Miller-GA)
- 9570 **CHINA China Radio Int'l** 8/26_1350-1355__ Language workshop program in EE translating Chinese into English. Poor w/ heavy QRN. (Sives-NJ)
- 9570 **CHINA China Radio Int'l** 9/2_1308-1329; this is apparently a soap opera type of radio play, set in Beijing, but written in English for American audiences. The acting by two OM and two YL was impressive. Fair to poor w/heavy fading. (Sives-NJ)
- 9630 **NEW ZEALAND Radio New Zealand Int'l** in EE. SIO 555, September 1, 2017, 0616 - 0658. News, including closing of USA Russian diplomatic facilities in response to Russian expulsion of US diplomats Frequency change to 7435 at 0658. (Henley, WA)
- 9630 **NEW ZEALAND Radio New Zealand Int'l** in EE. SIO 555. August 15, 2017, 0518 - 0545. Interview and commentary on government medical care in New Zealand and the deficiencies thereof.. (Henley, WA)
- 9655 **ALASKA KNLS** Religious broadcaster in RR. SIO 555, September 10, 2017, 1515 - 1525. M & F announcers, MX, talk. Mention of Dr. Dobson, Christian rock MX. Excellent signal, slight QSB, almost no QRN. (Henley, WA)
- 9665 **BRAZIL Vox Missionaires** - Florianópolis, 2234-2311 Aug 31, man announcer speaking in the Portuguese language with several mentions of "Brasil" during talk Fair to good reception. (D'Angelo-PA)
- 9690 **AUSTRALIA RBA** 9690, Sept 18 at 1230, RBA Burmese service is still here instead of listed and announced 9685 where there is nothing; gospel music, poor (Hauser-OK)
- 9725 **BRAZIL Radio Evangelizer** - Curitiba, tuned in to vocals followed by a man announcer with long religious talk in the Portuguese language. Poor to fair. Noted almost // web stream feed (shortwave was delayed) to ID the station. (D'Angelo-PA)
- 9725 **BRAZIL Radio Evangelizer** - Curitiba, 0404-0424 Aug 26, vocals followed by a man announcer with a religious talk in the Portuguese language. More vocal sat 0420. Poor to fair almost // web stream with shortwave being delayed slightly. (D'Angelo-PA)
- 9830 **TURKEY Voice of Turkey** Emirler, 09/02, 2210. English. High on the Agenda (with an article sounded very much like it was in Turkish and being translated as read - quite difficult to follow due to halting phrasing) followed by Letterbox. 55444. (Roe-UK)
- 9935 **GREECE Voice of Greece** Avlis, 09/02, 2210. Greek. Greek music with occasional announcement by YL presenter. Music continued until 0030, when signal suddenly faded and was gone by 0045. 55444. (Roe-UK)
- 11560 **INDIA All India Radio** from Bangalore. Listed language is Pashto. SIO 444. August 15, 2017, 1456 - 1508. Target Afghanistan. M with commentary. Good signal. Discussion of some military exercise involving the Prime Minister. Sound track of marching with military band MX. (Henley, WA)
- 11580 **UNITED STATES WRMI** AUG.12_2039-2058__reading of reception reports from the U.S. and Canada. Poor to fair with fading. (Sives-NJ)
- 11580 **UNITED STATES Radio Slovakia Int'l Okeechobee** AUG.12_2059-2128__ about 60 sec. of news headlines, then a tech news feature about camera apps, followed by a musical interlude. They finished up with a piece about tourism in Bulgaria and more mx (Sives-NJ)
- 11580 **UNITED STATES Radio Slovakia Int'l Okeechobee** 8/26_0040-0058_talk about some events in history of the Iron Curtain era and the eastern bloc. 54444 (Sives-NJ)
- 11580 **UNITED STATES Radio Slovakia**, Okeechobee 9/2_2105-2117; talk about curators and professional photographers who are getting together at a gallery for 2 weeks for a special event. Good w/minor fading. (Sives-NJ)
- 11580 **UNITED STATES RAE** Argentina via WRMI relay, 9/4, 1335-1400 in FR ed.; 1400-1420 in SS. Mix of short commentary and/or news and mx. Fair to poor with moderate fading. (Sives-NJ)
- 11580 **UNITED STATES RAE** Argentina via WRMI relay, 9/8, 2220-2235 in Italian edition. Nice, pleasant music. Fair w/moderate fading. (Sives-NJ)
- 11610 **MADAGASCAR World Christian Broadcasting** - Mahajanga, 2118-2129 Aug 22, man announcer preaching in the mandarin language. Brief instrumental music at 2118 followed by a woman talking. Fair. (D'Angelo-PA)
- 11700 **PHILIPPINES. Radio Vaticana**, listed in Tamil. SIO 454, September 4, 2017, 1503 - 1511. Good signal, Asian MX, alternating M & F announcers. Much mention of Pope Francis. Sign off at 1509 with switch to Malayalam language as listed. (Henley, WA)
- 11710 **NORTH KOREA Voice of Korea** in EE. SIO 353, September 4, 2017, 1530 - 1559. MX, including stirring choral MX, martial MX. Much jamming in Chinese, clearly deliberate QRM. Very difficult copy due to jamming with overall a poor signal. (Henley, WA)

- 11740 **CHINA CNR2** Domestic Business Radio broadcast in CC. SIO 434. August 15, 2017, 1551 - 1556. Listed language is Mandarin. F anchor. Heavy QRN. Soothing F announcer, some contact and ID information given. Light popular MX. (Henley, WA)
- 11760 **CUBA Radio Habana Cuba** in SS. SIO 444, September 4, 2017, 1511 - 1515. News and commentary on world events. M & F anchors alternating reading of news items. Some modest QSB, increasing QRN. (Henley, WA)
- 11835 **SRI LANKA SLBC** Trincomalee, 08/27, 1701. Tamil. Male presenter talking to various callers in phone-in with film music (or similar) between calls. 54444. (Roe-UK)
- 11840 **CUBA Radio Habana Cuba** 9/3_0410-0415; this is traditional mx in SS.32223 (Sives-NJ)
- 11850 **ROMANIA Radio Romania Int'l**, 9/4, 2030-2038 in EE. The intro.tune always seems to come in very well, but once Newsreel gets going, it's poor to very poor with high QRN, heavy fading. Very disappointing. That's the time to go to Audio Now. (Sives-NJ)
- 11850 **NORTHERN MARIANAS Radio Free Asia** in KK from Tinian. SIO 555, September 4, 2017, 1516 - 1525. F announcer, followed by M commentator with harangue. Excellent signal. (Henley, WA)
- 11850 **NORTHERN MARIANAS Radio Free Asia** from Tinian in Korean. SIO 555. August 24, 2017 1520 - 1550. Excellent signal, with almost no QSB or QRN. M announcer in long commentary in KK followed by F announcer with news clips, some in EE. (Henley, WA)
- 11850 **NORTHERN MARIANAS Radio Free Asia** from Tinian in KK. SIO 555. August 15, 2017, 1556 - 1604. M announcer until 1600, then F announcer with news and commentary. Strong and clear signal, with no QSB or QRN. Armchair copy. ID given as RFA. (Henley, WA)
- 11895 **CHINA China Radio Int** Xian, 08/27, 1800. Chaozhou (listed). Long talk by single OM over music bed (initially some sort of traditional stringed instrument, and then more dramatic orchestral instrumental music) for most of the hour. 45444. (Roe-UK)
- 11930 **UNITED STATES Radio Marti** Greenville, NC_8/26_1505-1520_ in SS; two yl in some sort of lively discussion w/ musical interludes. Fair w/ moderate fading. (Sives-NJ)
- 11930 **UNITED STATES Radio Marti** for Greenville, NC in SS. SIO 444. August 24, 2017, 1550 - 1600. M announcer, MX with M vocals. Very listenable. (Henley, WA)
- 11955 **AUSTRIA Adventist World Radio** - Moosbrunn, 1912-1934 Sep 1, soft instrumental music followed by a man speaking in listed Hausa language. This broadcast was from Nauen. Poor to fair. (D'Angelo-PA)
- 11965 **CLANDESTINE Radio Erena** - Kostinbrod, 1756-1801* Aug 26, caught tail end of program with a man announcer speaking in the Arabic language. Apparently, closedown announcements followed by brief instrumental music until carrier terminated. Poor. (D'Angelo-PA)
- 11965 **CLANDESTINE Radio Erena** - Kostinbrod, 1756-1801* Aug 26, man announcer with talk in the Arabic language until instrumental music at 1800 which last about a minute before carrier terminated. Poor. (D'Angelo-PA)
- 11975 **ROMANIA Radio Romania Int'l** - Galbeni, 1803-1832 Aug 22, man announcer with news in the Romanian language. End of news at 1805 followed by station ID and then instrumental music and talk features. Female vocal at 1823. Poor to fair signal but very noisy reception conditions. (D'Angelo-PA)
- 12045 **UNID** 9/14, 1500-1517; in SS __speculating this was from Columbia because of repeated mention; one utterance of Peru as well. One OM w/mx&commentary seemingly thanking listeners for comments posted on Facebook. SIO 333. (Sives-NJ)
- 12050 **UNITED STATES Wewn** Aug.12_1625-1635__presumed call-in talk show in Spanish edition. 33323 (Sives-NJ)
- 12050 **UNITED STATES EWTN** 9/16, 1415-1430; in SS, om/yl in discussion. Fair w/ minor fading. (Sives-NJ)
- 12050 **UNITED STATES Wewn** - EWTN Catholic Radio Network in SS. SIO 555, September 4, 2017, 1526 - 1530. Pop MX, excellent signal, target South America. Very slight QSB, otherwise armchair copy. (Henley, WA)
- 12060 **FRANCE Radio Algerienne Chaîne 1**, Issoudun. 2053-2054, 8-14-17. Male vocal in Arabic Fair to poor. (Cichorek-NJ)
- 12160 **UNITED STATES WWCR** in EE from Nashville. SIO 444. August 24, 2017 1602 - 1615. M. political speech, conservative viewpoint, pro-Trump, anti-CNN. Infowars.com ID.. (Henley, WA)
- 13605 **UNITED STATES Radio Marti** in SS from Greenville, NC. SIO 434. August 15, 2017, 1415 - 1418. M & M in conversation format. Jamming heard in background. (Henley, WA)
- 13635 **TURKEY Voice of Turkey** Emirler, 09/07, 0830. Turkish. Great selection of Turkish music with female presenter. 55444. (Roe-UK)
- 13640 **CUBA China Radio Int'l** relay via RHC in EE. SIO 232. August 27, 2017, 1510 - 1525. Business and economic discussion with round-table interviews. Talk of relationships with Islamic countries for economic development by China. Poor signal, weak with steep QSB. (Henley, WA)

- 14325 **INTERNATIONAL WATERS** [non] *Hurricane Watch Net* 14325-USB, Sept 20 at 1340, Hurricane Watch Net compered by K9TUT who later admits he's in Punta Gorda, FL, not a 9 at all! Calls for emergency traffic only. Plaudits to H18HA in Santo Domingo who did a great job with his report, I missed. Calling for more weather obs, and include make and model of equipment. By 1354, KB3MBS (?) is NCS. Generally weak signals and did not hear anyone from Puerto Rico. I gather power is mostly out there. (Hauser- OK)
- 15110 **THAILAND Voice of America** - Udon (presumed), 1306-1325 Aug 18, noted with man and woman announcer sin discussion in the Mandarin language. Some light instrumental music bridges. Poor and eventually lost in the noise. (D'Angelo-PA)
- 15130 **ROMANIA Radio Romania Int** Galbeni, 09/07, 1100. English. Music Highlights including extracts from "Waves of the Danube", "Carmen" and "Traviata". 55444. (Roe-UK)
- 15130 **ROMANIA Radio Romania Int** 7, 9/14, 1535-1550 ;(in presumed Slavic or Russian language?)-- The scheduled traveler's guide program with some mx. Poor w/ high QRN. (Sives-NJ)
- 15185 **BOTSWANA Voice of America** relay here with English to french phrases on travel to s/off and Yankee Doodle at 1900. (Widner-PA)
- 15205 **SAUDI ARABIA (ARS)** Aug.12_1635-1645_apparent religious chanting in monotone; presumed Arabic language. Weak but steady signal, heavy QRN. Slightly better on 15204. __SIO-222. (Sives-NJ)
- 15420 **CLANDESTINE Radio Itahuka** - Talata Volonondry, 1824-1859* Sep 16, non-stop talk by several different male announcers in the listed Kirundi language. Barely hanging in there as lost audio close to sign off but heard carrier terminated. Poor. (D'Angelo-PA)
- 15505 **BANGLADESH Radio Bangladesh** Dhaka, 09/05, 1405. Urdu. Talk by man and mentions of North Korean leader Kim Jong-un. Brief instrumental music fill then continues with many mentions of Bangladesh. 35333. (Roe-UK)
- 15825 **UNITED STATES WCR** 8/27 2145; a not too preachy theological discussion. Good signal w/moderate fading until 2156, when there was an announcement that a switch was occurring; whereas I followed over to the stated frequency of 6115 to encounter worse reception. (Sives-NJ)
- 17580 **CUBA Radio Habana Cuba** 9/3_1335-1343; one OM in monologue, SS. Poor (Sives-NJ)
- 17730 **CUBA Radio Habana Cuba** 9/3_1447-1456; ancr. In SS w/traditional mx. Poor (Sives-NJ)
- 17855 **SPAIN REE** 17855, Mon Sept 18 at 1922, REE finally reactivated on its North American frequency, VG with deportes in Castilian; first checked on the DX-375 portable, where 17715 for South America is almost as strong (Hauser- OK)

NASWA Flashsheet

Are you getting the latest hot information about what is happening on the short-wave 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, August 27, 2017 -- Under "DX History/Lists, Logs, Guides & Columns," we have posted a nice map from August 1935, showing the shortwave broadcast stations of the world. The numbers in the black circles correspond to the numbered stations at the bottom of the map, which are listed alphabetically by city. The map apparently originated with the BBC publication *World-Radio*. -- And under "Specialized Resources/Wavescan," Adrian Peterson brings us three interesting stories: the timely "Eclipse Radio: Past & Present" (Wavescan N443, August 20, 2017); "What Happens to a Radio Signal During an Atomic Explosion?" (Wavescan N443, August 20, 2017); and "QSL Letter Verifies Nuclear Radio Station" (Wavescan N443, August 20, 2017).

< www.ontheshortwaves.com > Update, September 3, 2017 -- It was over a half century ago, in 1961, that Sterling D. Pike of Heart's Content, Newfoundland, and Richard D. Roll of Hamburg, New York, founded the North American Shortwave Association, which was a misnomer at the time because the club was all wave for its first five years. The first membership list, published in May 1962, contained 44 names, a number that would multiply many times over as the club grew. Who were the supporters of NASWA in its early years? Where did they live, how old were they, and what kind of equipment did they use? Under "Specialized Resources" we have posted a new section containing the NASWA membership lists, and more detailed membership writeups, that appeared in the club bulletin from May 1962 to January 1969. We have called it "NASWA Pioneers."

< www.ontheshortwaves.com > Update, September 10, 2017 -- Equipment manufacturers sometimes included station lists with their products, or offered them separately. In "DX History/Lists, Logs, Guides & Columns" we have posted two logs from 1939, one from RCA and one from Crosley. As can be seen, they are nearly identical in layout and general content, having been produced by a third party, W. E. Eilrich (see bottom of pg. 8). The lists contain some interesting entries, considering that World War II started in Europe in 1939. The RCA list shows Prague under "Bohemia," while the Crosley list eliminates all Prague references; the RCA list for Austria says "See Germany," while the Crosley list does not mention Austria as a separate state at all, but lists Vienna as a transmitter site in Germany. And the Crosley list eliminates all references to Poland. -- In "Specialized Resources/The DX Recordings of Colin Miller," we have added six new recordings. These are from Rhodesia, Zambia and Zimbabwe, all from the mid to late 1970s. Thanks, Colin. -- And in "Specialized Resources/Wavescan," we have posted two new stories from Adrian Peterson: "The World's Smallest Shortwave Station [VE9CS]" (Wavescan N445, September 3, 2017), and "Ancient DX Report: 1912" (Wavescan N445, September 3, 2017). Tnx, Adrian.

< www.ontheshortwaves.com > Update, September 17, 2017 -- This time, under "Specialized Resources/Radio Postcards," we have posted two files of postcards from radio stations in Pennsylvania. The first file covers KDKA, with (1, 2 & 3) three views of the early KDKA broadcasting studios; (4) a card showing the interior and the exterior of the early transmitting station in East Pittsburgh (c. 1929); (5, 6 & 7) three views of the Grant Building, later home of KDKA (notice small roof-top tower); (8) a card showing the KDKA Little Symphony Orchestra; (9) an acknowledgement card depicting the Westinghouse Electric Radio Band (1928); (10) a card showing Dilworth's Little German Band, as heard over KDKA; (11) Clark's Teaberry Gum Entertainers, also heard over KDKA; and (12 & 13) an acknowledgement card from KDKA (1924). The second file contains views of WCAU: (1) Hotel Pennsylvania, Philadelphia, home of WCAU starting in 1924; and (2 & 3) two views of the WCAU transmitting station circa 1930, Newtown Square (housing both BCB and W3XAU shortwave).

< www.ontheshortwaves.com > Update, September 24, 2017 -- **Brazil IV.** We have already posted three groups of recordings from Brazilian stations. Here are recordings of 12 additional stations. ID locations are in brackets. Some of these required some digging, so listen carefully. (1) Ceara Radio Clube, Fortaleza, 15167 kHz., 1977 [1:10]; (2) R. Capixaba, Vitoria, 4935, 1976 [1:16]; (3) R. Clube Marilia, 3235, 1978 [0:8]; (4) R. Congonhas, 4775, 2002 [0:10]; (5) R. Cultura Filadelfia, Foz do Iguazu, 6105, 2005 [0:07]; (6) R. Cultura Ondas Tropicais, Manaus, 4845, 2004 [0:00]; (7) R. Educacao Rural de Tefe, 4925, 2003 [0:08]; (8) R. Itatiaia, Belo Horizonte, 5970, 2003 [0:03]; (9) R. Ministerio da Educacao Cultura, Rio de Janeiro, 11950, 1976 [3:37]; (10) R. Nacional de Tabatinga, 4815, 1982 [0:35]; (11) R. Nacional de Cruzeiro do Sul, Porto Velho, 4765, 1980 [0:34]; and (12) R. Olinda, 3285, 1977 [0:46]. The Brazil shortwave entries in the 1976 World Radio TV Handbook occupied three and one-half columns; in 2017 they occupy one column (including inactives). -- And under "Specialized Resources/Wavescan," Adrian Peterson makes these two new entries: "VOA Mediumwave Stations in the Florida Keys-2" (Wavescan N446, September 10, 2017), and "Australian Shortwave callsigns VL0" (Wavescan N446, September 10, 2017).

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