

The **NASWA** Journal

VOLUME XLVIII NUMBER 3

MARCH 2004

SPEEDX

SPEEDX the dx radio magazine
for active shortwave listeners

THE OFFICIAL NEWSLETTER

A "SWIL" C

THE OFFICIAL NEWSBULLETIN OF THE AMERICAN SHORTWAVE LISTENERS CLUB

"FOUNDED DECEMBER 1967 - 1632 BALLAD LANE - HUNTINGTON BEACH, CALIFORNIA 92648"

Newark News Radio Club
P. O. Box 228, Newark, N.J. 07102
PHONE: 973-938-1100 FAX: 973-938-1100
OFFICIAL BULLETIN

Vol. 34, No. 3 February 1998

"A SWIL COLUMN"

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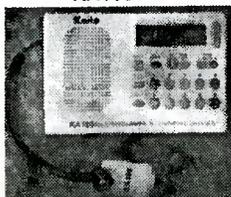
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North American Shortwave Association — America's Shortwave Broadcast Club

Quality Equipment From Universal Radio

KAITO-ELECTRONICS INC.

KA105

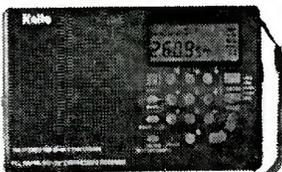


The Kaito KA105 has a striking *aluminum alloy* front panel. This stylish portable tunes AM from 520-1710 kHz (10 kHz steps), shortwave from 5.95 to 15.60 MHz (5 kHz steps) and FM from 87.5 to 108 MHz. Tuning is easy with manual tuning, seek tuning, memory tuning and direct keypad entry. It features 30 memory presets. A dual 24 hour clock has alarm and sleep functions. Other controls include: stereo-mono switch, lock switch, and LCD lamp switch. There is a jack for external power (3-5 VDC) or the radio operates from two AA cells (not supplied). There is a built-in ferrite antenna for AM and a telescopic whip for SW and FM. There is also an external antenna jack for SW. The KA105 comes with: AC adapter, cloth carry pouch, external wire antenna, wrist strap and stereo earbuds. Size: 4.25x2.9x0.9 inches One year limited mfg. warranty.

Kaito KA105 Order #0105 \$49.95

KAITO-ELECTRONICS INC.

KA1101



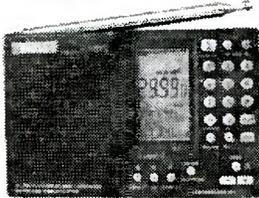
The Kaito KA1101 is a dual conversion portable radio covering AM, shortwave and FM. This radio comes with 3 Ni-MH rechargeable batteries and the AC adaptor (and charges the batteries automatically while in the radio). AM coverage is from 520-1710 kHz (9 or 10 kHz steps) and shortwave coverage is 3000 to 26100 kHz in two bands. (The FM-L band covers 70.0 - 95.5 MHz for the Japanese FM band and Russian FM band, if traveling in these areas). The radio features 50 memories (10 for SW1, 10 for SW2, 30 for AM/FM/L). Tuning is via manual up-down buttons and scan plus direct frequency entry via the keypad. The built-in digital clock has two alarms, sleep function and can be set to wake you to beeper or the radio. Other features include: two position tone, lock, wide-narrow selectivity, Local-DX switch and backlit LCD. There is even a light sensor that determines when the LCD needs to be illuminated (when buttons are pushed). There is a line out jack for use in recording off-the-air or feeding an external audio amplifier plus there is an external antenna jack. A special battery icon shows remaining battery life in four steps.

The KA1101 comes with: AC adapter, three Ni-MH rechargeable AA cells, protective carry case, wrist strap, stereo ear buds and external wire antenna. One year limited mfg. warranty. Available in a silver or gray (shown).

KA1101 Silver Order #1101 \$69.95
KA1101 Gray Order #1102 \$69.95

KAITO-ELECTRONICS INC.

KA1102



The Kaito KA1102 is a dual conversion portable radio covering AM, shortwave and FM. AM coverage is from 522-1710 kHz (1/9/10 kHz steps) and shortwave coverage is 3000-29990 kHz in 1/5 kHz steps). Single side band (SSB) mode is available on shortwave with fine tuning. 190 memories are available in 19 banks. A keypad allows direct frequency entry. Auto scan and auto memory is supported. A built-in clock has 3 alarms and wakes you to beeper or radio. The large, attractive LCD is backlit and it features a signal strength indicator. The front panel controls and side panel controls are easy to use. There is a DX-Local switch and an FM Mono-Stereo switch. Additionally there is a two position tone switch. There is also a button that selects Wide-Narrow selectivity (or Mono-Stereo while on the FM band). Other refinements include: battery power indicator, lock and sleep. There are external antenna and a stereo earphone jacks.

This radio comes with three AA Ni-MH rechargeable batteries and AC adapter. The AC adaptor not only works as DC power source, but it also charges the batteries automatically. With wrist strap, protective carry pouch and stereo earbuds. An Owner's Manual and Operating Guide Sheet are also included. One year manufacturer's limited warranty. Size: 5.6 x 3.7 x 1.25 inches. Available in a silver or black.

KA1102 Silver Order #1102 \$99.95
KA1102 Black Order #2102 \$99.95

GRUNDIG YB-550 PE

The incredibly attractive Grundig YB-550PE is the newest member of the venerable Yacht Boy family. Form and function are combined to offer an excellent shortwave experience. Six tuning methods are available to make tuning the bands easy and quick. Enjoy AM, FM, FM Stereo (to earphone jack) and full coverage shortwave from 1710-30000 kHz. Direct keypad frequency entry is possible or Up-Down tuning is available to surf the bands. A bar-graph tuning meter puts you exactly on frequency. 100 memories store your favorite stations. The built-in clock can wake you to the radio audio or a buzzer. The large backlit LCD shows time and frequency. The YB-550PE comes with a carry case. Add \$12.95 for Grundig 550ACA AC adapter #3039. 3.5 x 8.75 x 1.75 inches 1 Lb 5 oz.

YB-550 Order #0550 \$99.95



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TEN-TEC



RX-320D

"DRM" Capable
PC Receiver

Through the magic of D.S.P., the **TEN-TEC RX-320D** computer receiver provides features and performance previously unavailable even at twice the price. This latest RX-320 "D" model is capable of receiving **DRM** digital broadcasts with extra software (not supplied) and appropriate sound card. The new D model has a 12 kHz I-F output jack on the back panel that allows received signals to be streamed from the I-F directly to your computer's sound card for Digital Radio Mondiale decoding. Visit the Universal website to learn about this next generation of shortwave listening!
RX-320D Order #0321 \$328.95

PAR ELECTRONICS EF-SWL



The Par EF-SWL is an end-fed short wave antenna optimally designed for 1-30 MHz reception. The radiator is 45 feet of genuine #14 gauge black polyethylene coated Flex-Wave wire (168 strands of #36 gauge-woven copper). This material is very strong yet can easily be coiled like a rope for portable work. The UV resistant match-box houses a wideband 9:1 transformer wound on a binocular core. Unlike other transformers, external stainless studs on the matchbox allow the user to configure the primary and secondary grounds for best noise reduction at their particular location. Output is via a silver/teflon SO239 UHF connector. The radiator also attaches via a stainless stud allowing it to be removed.
Par EF-SWL Order #2205 \$175.95

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NASA Notes

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

This is the month for the 17th annual Winter SWL Festival in beautiful Kulpssville, PA! There is nothing like it. It's not too late to make last minute plans to attend, if you have not already made your plans. Join many of your fellow club members at the best radio gathering around. Rich Cuff, John Figliozi and a team of lively volunteers make this club sponsored event the place to be in March. As usual, we expect to have an international flavor to the event thanks to the Winter SWL Festival's worldwide following. A great program is on tap with events running late into Friday evening and all day Saturday. There is always plenty to do and lot's of good people to talk to at the Fest. You can't beat the combination. It is a great event that brings together a lot of radio enthusiasts for a wonderful weekend of fun. Check out Rich's *Easy Listening* column for any last minute updates. I hope to see you there.

By popular demand we will be premiering at the Winter SWL Festival a line of t-shirts, sweatshirts and coffee and beer mugs. Details are in Mike Wolfson's *Company Store* column in this issue and were also contained on page 41 in Mike's mini-column that appeared in last month's *Journal*. We plan to offer these items by mail as well. Again, watch Mike's column for the details. Stay tuned.

Jeff White of the National Association of Shortwave Broadcasters (NASB) was informed by Merlin that in February, HCJB began doing a weekly half-hour program of jazz music in DRM which is just before the Voice of the NASB program on Sundays at 1330 UTC. (HCJB's program will be at 1300.) This makes for a larger block of DRM programming. However, in order to put the two programs together on the same frequency, they had to change from 9785 to 9565 kHz (because 9785 is not available at 1300). In addition, due to some

technical problems that have occurred with their DRM transmitter during some of the NASB programs, they are extending the Voice of the NASB series from six to nine months at no additional charge. So the programs will now end on July 18th. On March 21, there will be a special edition of the Voice of the NASB recorded at the NASWA sponsored Winter Shortwave Listeners Festival in Kulpssville, Pennsylvania with the various NASB members who will be there. Don't forget that the analog version of the program can be heard in North America on Saturday nights at 10:30 PM Eastern Time on WRMI on 7385 kHz (currently 0330 UTC but changing to 0230 UTC with the daylight time shift).

Bruce Baron and Frank Aden will be hosting the 2004 International Radio Club of America (IRCA) convention in Boise, ID from 23-25 July 2004. The tentative schedule will include station and transmitter tours, auction, the IRCA 40th anniversary quiz and a visit to Bonneville Point on the Oregon Trail where there have been several DXpeditions. See the *Calendar of Events* for further details.

Martin Schoech informs us that The QSL Information Pages at <http://www.schoechi.de/qip.html> present zipped QSL files for about 40,000 loggings from more than 8,000 radio stations coming from 240 different radio countries. Much of the information is presented free but there appear to be certain areas that subscription fees apply. Check it out.

DXAsia is a new website introduced and edited by Alok Dasgupta and Victor Goonetilleke. The aim of the site is to provide accurate and timely schedule information for listeners interested in radio broadcasting to and from the South Asian region with emphasis on India, Pakistan,

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

Bangladesh, Sri Lanka and surrounding countries. The initial offering in late January featured full schedules, domestic and international, for All India Radio. Eventually, the site will be database driven, with user selectable options for displaying schedule information by country, time, language or other criteria. At the outset, the site displays static information derived from an offline database that is constantly updated. The editors are anxious for feedback and suggestions. These can be sent to feedback@dxasia.info. You can visit [dxAsia](http://www.dxasia.info) at www.dxasia.info.

Let's keep in mind that the *Journal* always needs active support from its membership to keep it on top in the hobby. Please continue to report your loggings to our LOG REPORT editors (**Sheryl Paszkiewicz**—Flashsheet, **Dan Ferguson**—Tropical Band Loggings and **Wally Treibel**—International Band loggings). If you have received an interesting station schedule, why not pass along that information to **Al Quaglieri** for the *Listeners Notebook*? **Rich Cuff** always could use input from members about their *Easy Listening* habits. Of course, **Sam Barto** would like to hear from you about those interesting QSLs for inclusion in the *QSL Report*. The *Journal* is a team effort and every member of the club is a part of the team. Please contribute! Thanks!

Over the last few weeks, the electronic *Flashsheets* for **Walt Amos** and **Bill Smith** have bounced back with "permanent fatal errors." Gentlemen, please contact me with your latest e-mail address so that the weekly electronic *Flashsheet* can continue to be delivered to your e-mailbox. Thanks! The

best way to stay on top of breaking short-wave news and information is with the club's electronic *Flashsheet*. As we steam toward our second 100 issues, there is no better way of staying on top of the ever-changing DX situation than with the electronic *Flashsheet*. You can participate by sending your latest logs to the electronic *Flashsheet* edited by **Sheryl Paszkiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152. Each week the electronic *Flashsheet* brings a lot of exciting, late breaking DX news and information to our members. The electronic newsletter is an excellent supplement to the monthly *Journal* for the timely dissemination of DX loggings and breaking news. This is a service that is only available to members. Deadlines are posted in the *NASWA Flashsheet* each week. If you are a current member of the club and want to receive the electronic *NASWA 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.

Remember to please direct all communications about subscriptions, bulletin delivery issues, the use of PayPal as a payment method, etc. to **Bill Oliver** at the club's Levittown address or to his electronic address, weoliver@comcast.net. The regular postal address is the familiar 45 Wildflower Road, Levittown, PA 19057. Inquires sent directly to me in Wyomissing only slow down the process. Thanks!

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

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: RMonty23@netzero.net. Please note, this is a **new e-mail address**. The AT&T e-mail address has been discontinued.

Calendar Of Events

- Mar 12-13, 2004 Convention.** The **17th Annual Winter swl Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 12th and 13th March 2004. Richard Cuff and John Figliozi co-chair the organizational committee. It's never too early to begin planning. See you there!
- Mar 19 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcscpk@aol.com.
- Mar 19 Meeting. Boston Area NASWA Chapter.** The Boston Area DXers have found a new location for meetings. Inquiries about the BADXers may be sent to Paul Graveline at 978-470-1971 or Internet: cteditor@aol.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>
- Apr 10 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at <antennapig@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- May 12-13, 2004 Conference. AIB Global Media Business Conference.** Association of International Broadcasting will hold its third global media conference 12-13 May 2004 in Prague, Czech Republic bringing together public and commercial international broadcasters. Radio Free Europe/Radio Liberty will host the conference at its Prague central offices. The 2004 Conference will build on the previous AIB conferences tackling the problems and concerns of the international broadcasting industry. Further details to follow.
- Jun 4-6, 2004 AGM and DX Camp.** The Danish Shortwave Club International will hold its **Annual General Meeting (AGM) and DX Camp** at Vejers Brach on 4-6 June 2004. Further details will follow.
- Jul 23-25, 2004 Convention.** The **2004 International Radio Club of America (IRCA)** convention will be held at the Rodeway Inn (115 North Curtis Road, Boise, ID 83706 or 1-800-272-5003) from 23-25 July 2004. Room rates are \$59.95, which includes a continental breakfast. Convention fee is \$25.00 to Frank Aden, 4096 Marcia Place, Boise, ID 83704. E-mail inquires can be sent to IRCA2004@aol.com.
- Aug 2004 Get-together.** The 11th annual **Madison Get-together for DXers and Radio Enthusiasts** will be held on a Saturday in August 2004 beginning at 1:00 PM CDT in Milwaukee, WI. This is an all-band event. Further information will be provided as we get closer to the event.
- Aug 2004 Convention.** The **10th Annual Mexican National DX Meeting** for DXers and radio listeners is scheduled for Veracruz. Further details will be published as received.
- Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: rdangelo3@aol.com) or Ralph Brandi (Internet: ralph@brandi.org).

NASWA

Visit our club home page on the World Wide Web at <http://www.anarc.org/naswa/>

Musings

This column provides a forum where members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are solely those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email: rdangelo3@aol.com.

Robert D. Wells, 544 Thompson Street, Peshtigo, WI 54157-1441

First, since February 1997, I've been a member of NASWA and enjoyed every issue—cover to cover.

I've been a SWL since sometime in 1954. It was exciting then, as it is now; even with all the changes in broadcasting. SWL is more than a hobby, it is a way of life that is filled with adventure and, it sure beats the hell out of video games and most of the stuff on television. Also, the most interesting thing about medium wave and shortwave is all the frequencies that can be received long distance. However, shortwave is the mainstay of the airwaves.

Today we are faced with the so-called BPL, which would increase noise greater than it is now, in addition, to broadcasters switching to the DRM. Both affecting the HF bands, all of which would cause SWL, hams, and other HF users to either upgrade their rigs or purchase new equipment all at the expense of the consumer. Thus, making your present rigs into expensive boat anchors and possibly destroy the hobby because new equipment would most likely become cost prohibitive.

As always, government and big businesses only see the financial prospects of more taxes and user fees and even regulate the equipment we would be using in every aspect of the hobby.

Second, I suggest that NASWA issue membership cards, so we have some way of identifying us proud members at all the festivals and shows, and any other event. As it is now most anyone can say they are a member when, in fact, they aren't. How about a member ID card to prove we have some form of interest in the SWL hobby?

The Journal is the best of all the SWL magazines I've read and I very much like the compact size of the super publication. One last point, I'm no electronics expert, ham operator or any kind of a technical whiz and don't own or use a computer. I don't even collect QSL cards. I only log stations received. I only listen to shortwave because I enjoy the excitement and adventure DX broadcasting has to offer, while struggling with propagation and weather elements.

Well, I said my 2 cents worth of opinions and such.

73, Robert

William (Bill) Patalon III <wpcubed@aol.com>, 1903 Angleside Road, Fallston, Maryland 21047

Hi, my name is Bill Patalon. I am a NASWA member, living in Fallston, Maryland (near Baltimore). I work at *The Baltimore Sun* as a Business reporter focusing on biotechnology.

I was an SWLer back in the mid seventies, as a teen, and loved it. But "life"—cars and drag-racing, then college, grad school, jump-starting a career, a book, travel abroad, then

marriage and a house—seemed to swamp that hobby, much to my regret. But I've been back about a year, now, and you folks have really helped make my return a great one. Your fast action, and "personal touch," is emblematic of how great this group of people is. Thanks for being so great.

I really have enjoyed NASWA a lot. I hope to attend Winterfest, although it falls close to the RC airplane show I attend with my father (I build and fly and write about model airplanes...I hope to start writing about SWLing, too. I think I could find plenty of things to write about.)

The Winterfest sounds terrific. My return to radio has been a pretty strong commitment. I put a 10-metre magnetic mount ham radio antenna on the roof of my Ford Explorer and listen via a small stable of handheld portables to the airways on my hour-long drives to and from work. It's amazing the hits I've gotten. Just today I picked up, on the \$29.95 Grundig Mini World PE, Radio Africa's Channel One English transmission to Africa from Johannesburg, in the low 15 MHz range. I thought that was an amazing pull for that pocket receiver, which surprisingly didn't overload with that big antenna feeding it signal. Had the radio had a tuning knob instead of a thumb wheel, I would have listened to it the whole way to work. But with the small size of the radio, and the imprecision of the tight-to-turn thumb wheel, it would have been too difficult to deal with while trying to drive on I-83 heading into downtown Baltimore.

I once actually heard Radio Korea read my letter on the air last year while out with my wife at the unusual time of 5:30 Saturday morning. Once you hear the story, you'll realize that this is literally a "lottery odds" type of situation.

My wife Robin had to go to the office to get some paperwork (she's an accountant, and an early riser, while I, as an "ink-stained wretch" journalist, am a night owl, which I guess makes me a perfect SWL candidate! Just kidding.) Anyway, I had picked up Radio Korea about six weeks before on a Grundig Traveler II while driving home on I-95, my first-ever pickup of that station. I wrote, asking for a QSL. Six weeks later, my wife Robin, (she's gorgeous and brilliant, but married me anyway), was headed to work to get those documents to work on, as I mentioned.

Well, first, I never get up at 5 a.m. on a Saturday. Never. But she didn't want to go there alone at that time, and I wasn't about to let her. It was a last-minute decision on her part, and she came into the bedroom and shook me awake, then explained why she did it. No problem. But that early hour was the first out-of-the-ordinary factor.

It was also the reason she drove. That was the second factor, since, almost as an afterthought, as we're leaving the house, I grabbed that trusty Grundig (which recently broke, breaking my heart in the process). But my wire antennas were downstairs, and she was asking for me to hurry. There just happened to be, there on our breakfast nook, what literally was a short hunk of wire, which on one end had an alligator clip attached. I grabbed that, too. That's coincidence number three. We went and picked up her papers, then drove toward home. Robin decided to stop at a grocery store that has a Starbucks concession. She went in to get a coffee for herself, and a hot chocolate for me. I stayed in the car. Coincidence no. 4.

It was warm, so I had the window rolled down a bit. I clipped the alligator lead to the whip antenna, and dropped the rest of the wire out the window. I started tuning the bands. Pretty soon, I came across a broadcast that, though it was English language, was definitely of Asian origin, due to the announcers' accents. I figured it was CRI from Beijing, or Radio Taipei.

Well, it was Radio Korea, and they were just that minute starting to read letters from listeners. Robin was near the car when I heard my name emanate from the radio's speaker. I couldn't believe it! I yelled for Robin to hurry her pretty...well, never mind, I told her to hustle. So she was in the car to hear most of the part about me. They were apparently really enthralled with the fact that I listened in the truck while driving with my jury-rigged contraption. But it was so cool to hear them read that! Robin was just as excited as I. After it was over, it dawned on us how remarkable this was. The odds against this are stunning. My dad, an engineer with two degrees in physics, said it's tough to easily compute the odds, but he said to "go buy a lottery ticket" for that day. That's how improbable the incident was.

I mean, I never get up early Saturdays, Robin just happened to need to make that trip, there just happened to be that wire on the breakfast nook, I just happened to stay in the car, just happened to decide to turn on my Grundig SW receiver, and just happened to tune through the entire shortwave spectrum just before the mailbag program came on the air. And out of the 1,300 or so shortwave stations (that's a number I was told, might not be right), I chose Radio Korea, which I did by mistake, essentially, thinking it was someone else. Oh, and they just happened to read my letter—and they just happened to choose a letter that had been sent to them six weeks before. Stunning.

I have a QSL from that first letter, and just recently re-submitted my cover letter and report from this incident, since I really want the QSL from that reception. I had sent it in last year, shortly after this all transpired, but didn't hear back. There's some question, apparently, over whether that letter actually arrived there, which is why I sent it again.

I really am thinking about coming to the Winterfest. I would like to meet all the folks.

Sincerely, Bill

Lawrence H. Bulk, 138 Dogwood Drive, Mullica Hill, NJ 08062-1909

I am a member of NASWA and I would like to receive the electronic *NASWA Flashsheet*. I am not an avid DXer as I was in the past; I am what you call a "program listener." However, as I am temporarily disabled and unable to work, I have had much more time to listen to SW, a hobby I have enjoyed since 1958.

I listen with a Grundig Satellite 800 (purchased June 2000 and recently upgraded to current standards by Drake) and I use an AOR WL-500 Window Loop (Active) Antenna, the best indoor antenna I have found (and I've tried many!) for SW. I use a C. Crane Justice AM Antenna sometimes in conjunction with a Select-A-Tenna for MW. (I live in a small townhouse and I cannot erect an outdoor antenna.) I also own quite a number of portable SW radios, most notably the Sony ICF-SW7600GR (I have three of them) which I use with the Sony AN-LP1 Active Antenna. I have many other SW radios besides (these things tend to accumulate).

Unfortunately for DXing, the area in which I live is "loaded" with electrical noise which it is impossible to eliminate and this, along with my inability to erect an outdoor antenna, limits the signals I can receive.

Have I told you about the Bell + Howell Radio? I got a mailing from a company called Starcrest of California, which enclosed many sheets advertising household items ("Electronic Nail File," "Pumice Toilet Scrubber", "Acrylic Placemat," and other vital such products) but also enclosed was a sheet advertising a "9-Band World Radio with TV Sound—A radio has never been so entertaining!" The price? \$9.00! With Free Shipping (if your order totals \$25.00 or more, though there is a \$3.00 "handling charge")! I had to see what \$9.00 offered so I ordered one (along with some items without which Roz could not possibly live such as the

"High Energy Stain Remover" and the "Silicone Muffin Pan"). The silly thing works! It doesn't actually pick up TV sound (except for Channel 6 at the bottom of the FM band—it may have been set to pick up Mongolian or Outer Slobovia TV sound), but it does pick up SW signals. The dial scale calibration is utterly hopeless, but if you know what you're doing, it is pretty easy to get the stronger signals. I've even had the All India Radio on it using its built-in whip antenna. I've used it a few times just for the heck of it to see what I can do with it. Believe it or not, it doesn't drift at all. It uses two AA batteries which seem to last forever. I've ordered a bunch more; I figure they can be given as a gift to a kid and maybe it will "spark" some interest. It's really a lot of fun and is unbelievable value for the money. I can only imagine what it would have been like if we had had this 40 years ago! If you're interested in ordering one, let me know and I'll send you all the information. Of course you need it like a hole in your head, but you know me—I love toys!

Thanking you in advance for your service, I am,

Yours very truly, Lawrence

Sheryl Paszkiewicz <spasz@dataplusnet.com>, P.O. Box 716 Manitowoc, WI 54221-0152

Well I am so disgusted with SW reception here, I'm ready to throw out the radio! Thus other SW DXers and I are turning to medium wave. I logged a new province last night—NB on 1070. I am using a Sony 2010 with a Select-a-Tenna. Works really well.

Well tonight I tried different receivers (SW) and plugged in the antenna tuner. Lousy. As you know, I live in an apartment building so what I am using for an antenna is a random wire strung along all 4 walls in the radio shack. I live upstairs so I think the antenna is high enough off the ground. Now I thought since the antenna is along all 4 walls, it would be omnidirectional and thus better. Well I think there just isn't enough length in any one direction. So tonight I thought what about a vertical antenna? So the only receiver I have with one is the Sony. Lo and behold, I picked up Korea on 9560 very well. I must say the Sony products have very good audio quality and thus I am picking up less noise than on the Icom for instance. I might actually be able to do some serious DXing here! I had been chasing Pio Doce on 5952 and just couldn't get enough intelligible dialog. The Sony is worth a try!

Did I tell you I bought an XM Radio on New Years Eve? No, I wasn't drunk, hi. I love it. It even has the BBC so I can listen to John Peel through the stereo (although the signal isn't actually in stereo on that channel). That's the only foreign radio station although they have BBC concerts on another channel and some world music channels.

73, Sheryl

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

After two successful DXpeditions in November and December, I was ready to tackle the snow and the French Creek hillside for another DXpedition. After two months of rough winter weather with snow, ice, freezing rain and arctic temperatures, it was good to visit our DX haven. The Friday weather before our visit was snow followed by freezing rain followed by an inch or two of regular rain. However, French Creek was snow covered and picturesque.

I arrived early but not as early as Kris who already had three antennas set up even though we didn't have the keys to the cabin. I began running my 500-foot wire somewhat north up the back snow covered slope and a 250-foot wire essentially southeast. Areas close to

the cabin had a lot of ice making things problematical. Nevertheless, we didn't lose anyone setting up our antennas this year.

Conditions to Africa were pretty good with Ghana making an early appearance and ELWA and Parakou being heard although nothing materialized from Indonesia or India. Brazilians seemed to be doing okay but not much else was noted from Latin America. Angola appeared late with an excellent signal. During the evening we discovered unusually low water pressure which would make showering in the cabin impossible. As time passed and the temperatures became tolerable, the pipes must have unfroze because the water pressure improved to the point that even the shower could be used.

Latin's were very good on Monday morning with Radio Unica (new for me) among the crop. Bolivians and Peruvians seemed pretty good with some Brazilians noted. Heard a reactivated Radio Centinela del Sur. Just when I thought things had quieted down, a great opening to the Pacific appeared. All three Australian regions were heard with the "Concert for George" on Concert Hall program, two PNGs (3365 and 3385) and two Indonesians (Fak Fak and Wamena). All in all, not a bad morning of listening.

Monday afternoon and evening saw moderate conditions with some Chinese and Indian regional stations being heard. Latin stations were noticeably quiet but late in the evening I stumbled upon Radio Universidad, Mexico with phone calls from listeners.

Tuesday morning conditions to Latin America were again pretty good. I awoke early looking for a Brazilian expecting to see Ed already at his rig logging stations. However, at 0850 UTC there was no sign of Ed in the cabin. Strange! Unbeknownst to me, it turns out because of the low water pressure, he decided to make a quick trip home to drop off some stuff and sneak a shower. As I'm tuning the bands around 1030 UTC, a clean Ed walks in from the cold out of doors. Wamena was noted again as were a number of PNGs with 4890 still in at a good level for NBC news at 1300.

Temperatures continued the upward trend and melting continued. Unfortunately, after dark the ground water becomes ice making trips outside for fresh air or to the cars an adventure. Late afternoon on Tuesday continued the good conditions toward Africa. Kris seemed to really enjoy the African opening for some reason. Latin stations and Indians seemed quiet but our usual pasta banquet kept us busy for a portion of the evening. We did discover that without Fred there was considerably less trash to manage. This observation was initially made after our December outing and was confirmed once again. The huge trash bin has been officially named the Kolbrenner Memorial Monument in honor of Fred's historical accomplishments in this garbage accumulation field. I was able to log Huayacocotla and Poderosa with sign off announcements after dinner making it a good night.



Go on a DXpedition!

I must have been exhausted because I missed my early wake up call for 0830 Brazilians. I did manage to crawl out of bed for 1000 but my enthusiasm was waning after three days at the dials. Latin conditions were good once again with Ed informing me that I missed a nice Brazilian opening. The Pacific and Asian regions were quiet today with not even a heterodyne out of 4890 PNG, which was outstanding the previous day. The highlight of the morning and my last log of the trip was Radio Universidad in Costa Rica. That gave me both Universidad's logged in one DXpedition.

We enjoyed very good listening conditions for the entire trip. There were a number of outstanding openings to various parts of the world making the DXpedition well worth the effort. All three DXpeditions this season produced good listening conditions, which really helped me break in my Ten-Tec RX-340.

Finally, we also enjoyed good weather for a change. Although the ground was snow covered and there was ice to contend with in setting up antennas, the weather turned mild with temperatures in the mid-40 degree Fahrenheit range on Monday and Tuesday.

After Wednesday mornings-listening session, it was time to bring in the antennas, pack the gear into our cars and end the last DXpedition of the season. Of course, we will be reminiscing in Kulpville in a few weeks, which tends to magnify everything. Conditions, propagation and weather all cooperated once again making the three-day outing well worth the effort.

I'm looking forward to seeing everyone in Kulpville!

73, Rich

FRENDX: Twenty Five Years Ago (March 1979)

Roll Call featured the names of 75 new and rejoining members. Bob Zilmer reported that the ANARC Frequency Recommendation Committee recently had success in getting Radio Sweden to move to a clearer channel. ANARC-79 scheduled for Minneapolis, MN and hosted by Kim Andrew Elliott (Chairman), Tom Gavaras and Greg Ravenhorst. The convention fee was \$16.00 and hotel rates ranged from \$13.67 to \$24.00. In the *Shortwave Center*, Jerry Lineback did an extensive review of the FRG-7000 Communications Receiver thanks to Grant Manning of Radio West who made one available for review. John Creamer wrote about "DXing for Senior Citizens is a Great Hobby" and Glenn Hauser wrote about long path and short path reception. David Maxfield developed an *Index to Shortwave Center* for 1978. *The Scoreboard* featured 137 members with 22 reporting 200 or more countries heard and 8 reporting 200 or more countries verified. James Young with 222/207 lead the list in both categories. Dan Robinson wrote about a "Visitor from Peking" which was about a visit by Ji Fu-Sheng, a Chinese communication technician, to Dan's home where he met Dan, Pitt MacNeil and French DXer Jean Jacques Bloch.

On the Short Waves by Jerry Berg

<www.ontheshortwaves.com> Update, January 30, 2004—Under "Articles, Research, etc.," "Pot Pourri": August Balbi's POW Monitoring, Part II. In Part I we showed typed lists of some of the POW messages that August Balbi heard over Radio Tokyo, MTCY-Manchuria, and Berlin. This time we have scanned some of August's notes that contain details of the messages themselves. Some are typed, and others are in August's distinctive handwriting. His technique apparently was to take notes by hand as he listened, then type them up and send postcards to the POW's family. Viewing the handwritten notes you can almost see him rushing to get down the full message before it was too late. Remember, this was 1944, before the convenience of home tape recording. More in Part III.

<www.ontheshortwaves.com> Update, February 8, 2004—Under "CPRV," "QSL Gallery," some early QSLs from Cuba, which always seemed to produce great looking cards and letters. On the medium wave side, the historic Frank H. Jones "Tuinucu" station 6KW; equally historic PWX (1923); CMCB (QSL letter for a 1936 NNRC special); CMCY (1933); CMHK (two QSLs, a card and a letter, from 1938); and CMJK (1933). And on SW, CMZ1; COJK (1947); and COK. These are from the collections of Eugene Allen, Paul Kary, Warren Routzahn and John Tweedie. In error we originally included medium waver "AMB" (1928) among the Cubans, but ontheshortwaves follower Reuben Dagold pointed out the error. As can be seen, the "AMB" QSL carries a Tijuana address on the front, as well as the San Diego address of its owner, the Nelson Radio Company. On the back it is postmarked San Diego, 1928. Does anyone know just what this station might have been? An early "border radio" station perhaps? For now this QSL is in the "Mexico" section of the "QSL Gallery" (under "Broadcast Band").

<www.ontheshortwaves.com> Update, February 14, 2004—Under "Articles, Research, etc.," "Recordings," a record that was apparently used as a promotional item for a station in Shanghai, China, XMHD, the China Christian Broadcasting Association. It has hymns on both sides, and at the end of the Side B is a request for funds. There is no date on this 78 rpm record, but it must have been from the latter part of the 78 rpm era because it is made of vinyl rather than shellac. Does anyone have additional information on XMHD? Was it SW? There was an XMHA in Shanghai, and I believe an XMHC as well.—Also this week, under "Book Reviews," a review by Richard A. D'Angelo of the recent book by Alan L. Heil, Jr., "Voice of America: A History."

<www.ontheshortwaves.com> Update, February 21, 2004—Under "Articles, Research, etc.," "Pot Pourri": August Balbi's POW Monitoring, Part III. After sending a postcard to the POW's family, POW monitors were often rewarded with a card or letter of thanks. Those found here, with their references to places like Wake Island, Shanghai and Mukden, are a reminder of how it was over a half century ago.



Easy Listening

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The Fest is here!

Hopefully many NASWA members are packing their bags and gassing up the car for the annual pilgrimage to Kulpsville, PA—the 17th Winter SWL Fest is just a few days away!! Your Fest committee (that's John Figliozzi and me) are in the process of last-minute preparations...if you still have the chance to join us, and haven't pre-registered, you can still register and pay on-site.

We have quite a forum lineup again this year; topics include the following:

Digital Broadcasting—The Pirates—Private SW Broadcasting in the US —Trunking and Scanning—Broadband Over Power Line —Satellite DXing—The Medium Waves—Longwave Radio: Rumbblings in the Basement—The Listening Lounge—Classic Receivers—Broadcasters' Forum—The Future of the Shortwave Hobby—What I Have Learned in 15 Years of Research (and 4 books later) about Zenith Radio Corporation—Short Space Antennas

Plus, we'll have demos including DRM, Javoradio, and an amateur Special Event station, as well as club information tables including one for NASWA.

Oh yeah—there's the banquet, the Barto Bag, the Grand Raffle, the Hospitality Room, Swap Meet, Silent Auction, and a likely midnight visit from Pancho Villa (if one were to know such things)—all part of the fantastic 17-year Fest tradition.

Speaking of the raffle, you can buy tickets to win one of a number of radios, including a Drake R8B, ICOM R75, CCrane Plus, Kaito 1102 (check the *Passport* review), ICOM R3, Grundig Satellit 800, and other last-minute additions.

Forums will begin earlier this year than years past—the first is scheduled for 8:15 AM Friday, March 12th; forums will continue

throughout Friday, including Friday evening (for the second year in a row), and all day Saturday (again beginning 8:15 AM). On-site registration will begin Friday at approximately 7:30 AM; the Hospitality Room informally opens the Fest on Thursday evening.

When it comes to shortwave listening, radio monitoring, and international broadcasting, it just doesn't get any better than the Fest. What makes this year particularly interesting to me is the participation of the National Association of Shortwave Broadcasters ("NASB")—including WRMI, KNLS, Adventist World Radio, and WMLX—all of whom will have exhibits in the demo room. I'm sure many will be interested in the opinions of these folks regarding the role of shortwave radio in North America in 2004 and beyond.

If you've never made it to Kulpsville, why not make this one your first? You'll meet many of the folks who edit and contribute to the *NASWA Journal*; more are together at the Fest than at any other time during the year. You'll find a Registration Form elsewhere in the *Journal*, and you can find a lot more information at the Fest website, <http://swlfest.com>.

RFPI returns—sort of

Several months ago I mentioned the squabble between **Radio for Peace International** (RFPI) and its landlord, the University for Peace in Costa Rica. RFPI was evicted from the University (by having its utilities cut off) and is now attempting to relocate and rebuild elsewhere in Costa Rica.

RFPI has now arranged for studios in San José, Costa Rica, with a live streaming audio feed at its website (<http://www.rfpi.org>). There are future plans to add MP4 streaming capabilities as well. There is no mention of the program schedule currently being uti-

lized, so you'll have to consult prior listings. As you may remember, RFPI programmed a six-hour time block from 1600 to 2200 UTC with 2 or 3 repeats over the subsequent 18 hours, depending on transmitter availability. The last copy of the schedule on my hard drive is dated April 27, 2003, and I have posted that to the *swprograms* e-mail list.

RFPI is calling its initiative to return to the airwaves "Censorship Is Not an Option"; they continue to solicit donations from listeners to fund its rebuilding and ongoing operations. A PayPal link for donations is at the RFPI website, or you can send funds to RFPI, PO Box 3165, Newberg, OR 97132 USA. Be sure to note "Legal defense fund" on your check.

Editorial commentary: This seems like a really botched crisis that should have been settled a long time ago, without squandering money on attorneys. As I said months ago, the deal that allowed RFPI to exist on campus was sealed informally, with a handshake between friends, and was never reduced to a binding contract.

Even now, US based shortwave broadcasters continue to lease time at relatively cheap prices—would it be cheaper for RFPI simply to sell its transmitters and rent airtime? I would think that just getting back on the air—even on a time rental basis—would enable RFPI to plead its case to its listeners and build up a funding base. Each month that passes, RFPI becomes less relevant—because its North American audience will discover other media outlets—over the air, and via the Web.

I guess I'm just cynical regarding RFPI's situation, because its crisis looks to be manmade, and the station's strategy is an "all-or-nothing" approach with no serious attempt to find an interim shortwave solution.

BBC World Service—Hutton Controversy follow-up

The only significant departure from the BBC since the departures of Gavyn Davies

(chairman of the Board of Governors) and Greg Dyke (Director General) has been that of Andrew Gilligan—the reporter whose on-air ad-libbing started the whole fracas.

The BBC has a list of candidates for Dyke's replacement as DG; at the top of the list is the acting Director General, Mark Byford, who was at the World Service helm when they scaled back their frequencies targeting North America in 2001.

This calm doesn't mean that the BBC controversy has ended—the royal charter that enables the BBC to exist as a public broadcaster with funds from the TV licence fee expires in 2006, and it appears that the scope of BBC activities, along with its funding sources, will become embroiled in UK politics as 2006 draws closer. Since the World Service is funded by the Foreign & Commonwealth office, not the licence fee, it may not be directly dragged into the debate.

The Hutton report and its aftermath were indeed covered in *Talking Point* in early February; the schedule of future *Talking Point* programs doesn't mention any renewed discussion of the Hutton report.

WSHB: Just a Memory

I'll admit I'm not one to regularly wax nostalgic regarding shortwave, since I'm generally interested in what's on now, versus what was airing in the past. However, I'm making an exception for WSHB. Back in the late 1980s and into the 1990s, the Christian Science Monitor World Service aired a decent internationally-focused, USA-based news and current affairs service that was a decent alternative to the VOA. Eventually the shortwave broadcast found its way onto public radio, in the form of *Monitor Radio*. The plug was pulled on *Monitor Radio* in June 1997, and the network of three shortwave stations built up by the Christian Science Monitor in Maine (WCSN), South Carolina (WSHB) and Saipan (KHBI) shrunk to just WSHB. After that, WSHB resorted solely to religious programming advocating the beliefs of the Christian Science sect.

Alas, WSHB is now gone, too—its last broadcast was February 29th. The Christian Science Monitor is looking for a buyer, but I haven't seen mention of one being found.

What's the lesson here? Primarily how expensive television is to produce in comparison to radio. The Christian Science church invested in a satellite network and a local Boston, Massachusetts tv station which siphoned off huge amounts of dollars with no tangible return.

(Thanks to Jim Strader, John Figliozzi and Joe Buch for information referenced above)

VOA gets a case of laryngitis

2004 is shaping up to be a bad year for the **Voice of America**. Its English language transmitter hours will be reduced by roughly 2/3 at the end of March, making it potentially tougher to hear VOA even in areas where its English is a priority. I don't have details of which frequencies are slated to be shut down.

Also, the last remaining two-hour English release to the Americas (0000-0200 Tue-Sat) will also be eliminated.

Cuts are also anticipated in VOA English language services targeting Africa and Asia.

More editorial commentary: Those who control US government-sponsored international broadcasting seem to be enamored with ill-conceived services (**Radio Marti**, **Radio Sawa**) that suck resources out of the best-recognized brand name left in international broadcasting—now that **Radio Free Europe / Radio Liberty** is irrelevant.

I will admit that it's necessary to spend resources on broadcasting to the Middle East as the USA seeks to craft a new image there, but it would seem to me that dollars would be better spent on Arabic and Farsi services of the VOA more so than on services that don't need to adhere to the VOA's broadcasting standards.

Radio Australia changes

The news isn't all bad when it comes to shortwave broadcasting; **Radio Australia** is tweaking its schedule slightly, but the changes are at a time of day when propagation to the Eastern USA isn't all that great. New to the schedule:

Sundays 1825: **Sunday Profile**—Geraldine Doogue provides in-depth analysis of the major news in Australia and around the world. Hear people in the news talk about the news - the decision makers and agenda setters, politicians and business leaders. Program website: <http://www.abc.net.au/sundayprofile/>

Mondays-Thursdays 1825: **On The Mat**—"... Where the Pacific comes together to chat and discuss issues of regional interest.

Sundays-Thursdays 1925: **The Best of Breakfast**—Peter Thompson hosts a roundup of the best stories from **Radio National's** Breakfast program (which airs on the ABC domestic spoken-word network—somewhat akin to CBC's **Radio One** or the BBC's **Radio 4**). Program website: <http://www.abc.net.au/rn/talks/brkfast/>

As a result, the Radio Australia schedule becomes:

UT Sunday to Thursday

1800 *News*

1810 *Pacific Beat*

1829 *News Headlines*

1830 *Sport*

1835 *Sunday Profile* (Sun), *On the Mat* (Mon-Thu)

1900 *News*

1910 *Pacific Beat*

1929 *News Headlines*

1930 *Sport*

1935 *The Best of Breakfast*

2000 *News*

2010 *Pacific Beat* (continues)

2029 *News Headlines*

2030 *Sport*

You can expect an extra airing of *On The Mat* on Fridays and an extra airing of *Sunday*

Profile on Sundays; times haven't yet been finalized, though. Watch the *NASWA Flashsheet* and John Figliozi's postings for updates.

Why can't the Voice of Russia produce interesting programming?

Earlier this week I listened to a program I hadn't caught previously—*The River of Time*. The vor website synopsis: "Features some of the most significant events in world history." The version I heard was simply a reading of "On this date in history..." news blurbs like you might hear on your local mediumwave station as they close out the morning news. Perhaps a few more Russian events were featured than you would hear on a local mediumwave station, but overall I felt this program was a waste of time.

It seems to me that the **Voice of Russia** is increasingly resorting to reciting pages from almanacs and encyclopedias, and not investing resources in quality program creation—getting a slice of Russian life, or focusing history programs on *Russian* history. If I were really interested in world history programs, I'd wager that the BBC or Australia's ABC or Radio Netherlands would create a much better crafted program than this.

If you want to listen for yourself, tune in Tuesdays, Thursdays and Saturdays 0430 UT.

Radio Netherlands *Vox Humana* Highlights

Vox Humana is a difficult program to characterize. The program calls itself a "celebration of the human voice." Stories, dreams, songs and poetry are all in the

mix. I guess you could call it an "artistic documentary".

Vox Humana in March will be airing a series called *Global Perspectives*, a series of co-productions from various international broadcasters. Here are a couple highlights for March:

Sunday, March 7th and Saturday, March 13th: *A Bird in the Hand*, from **Radio Television Hong Kong**: The recent cases of chicken flu has seen the slaughter of millions of chickens around Asia. Hong Kong, a gourmet capital of the world has long preferred fresh chicken meat to any other. Scientists say that the market in live chickens should be stopped or at least much more strictly controlled for health reasons. But they're going against the face of centuries of culture and tradition. Producers Hugh Chiverton and Sophia Yow pose the question, how much is a bird in the hand really worth?

Sunday, March 14th and Saturday, March 20th: *Hot Flash*: Until recently hormone replacement therapy was a common treatment for women who had gone through menopause. Then in July of 2002, newspapers displayed an alarming headline: a Womens Health Initiative study showed HRTs, as they're called, caused heart disease, stroke, and breast cancer. Most women stopped the drug immediately. Now almost 2 years later, many have returned to the medication. Why are they willing to put their health at such a risk?

In Conclusion

Hope to see many of you in Kulpville! 73
DE Richard 

WWW Shortwave Listening Guide

Looking for programs to listen to? You can find what programs are on for the current hour or list programs of a desired type on a given day at the **www Shortwave Listening Guide** on NASweb. The data is provided by *NASWA Journal* and *Monitoring Times* columnist John Figliozi, and comes from his book, *The Worldwide Shortwave Listening Guide*. Visit the Guide at <http://www.anarc.org/naswa/swlguide/>. 

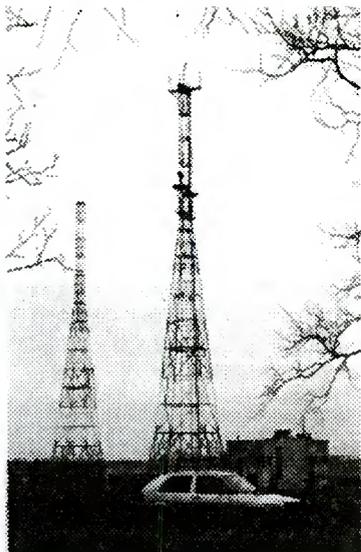
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Radio Jamming in the Soviet Union, Poland and Other East European Countries

By Rimantas Pleikys

A specially emitted radio interference is classified into radio communication jamming and radio broadcasting jamming. The first occasions of jamming of military radiotelegraph were recorded back in the beginning of the 20th century. Germany and Russia were the first to engage in jamming back then. The jamming signal most frequently consisted of co-channel characters. It was until the early thirties, when the first cases of jamming of radio broadcasting were recorded. In the late 20's Berlin started to jam the programs of Radio Komintern. In 1931 the USSR jammed the Romanian radio, in 1934 Austria jammed the German radio. The Lithuanian language broadcasts of the Vatican Radio were jammed by the USSR in 1940.



Panevežys local radio jamming station (10x5 kw) in Lithuania.

Massive jamming of foreign radio broadcasts was initiated by the USSR in February of 1948. It was targeted at VOA and BBC Russian language broadcasts. Eventually jamming developed into a true monster, the greatest jamming network in the world. The Soviet jamming network was administrated by the 2nd department of the all-union ministry of communications, headed by Natalia Krestyaninova for more than 25 years.

The Soviet Union and its East European allies used six types of the jamming audio signals:

1. To block out the "most anti-Soviet" stations, a wide spectrum electronically generated noise signal was used. RFE/RL, Voice of Israel, and Radio Tirana would experience this type of jamming.
2. On August 3, 1964, one more source of interference was invented—Radio Mayak program, transmitted in FM mode and heard distorted on domestic receivers—to jam some "gray propaganda" stations such as VOA, BBC, Deutsche Welle, and R. Beijing.
3. In 1976, Soviets started to use the speech resembling signal. Its advantage was that it conformed to the timbre of the human voice. This jamming sound, which used to be played back from open reel tapes, was composed of two voices of male and female Russian announcers.
4. A unique case was the Polish service of RFE/RL: from 1971 until 1980 only light instrumental music was employed to jam it, both in clear AM and distorted FM modes.
5. East Germany aired its domestic radio programs via medium wave transmitters

tuned in to several hundred Hertz outside of the RIAS frequencies.

6. Czechoslovakia used the swinging carrier, also known as wobbler, AM transmitters to jam RFE/RL.

The report of the RFE Engineering Department (dated January 29, 1982) calls for at least 4 transmitters per jammed program for each beam necessary. 250 kw and 500 kw transmitters have been proposed to replace the old 100 kw units in the RFE and RL relay stations. In Israel, there was an attempt to build a high-power radio station (16 x 500 kw) for transmission of the VOA, RFE and RL programs to the Soviet Union. This effort was halted due to the local protests. In Portugal, six 500 kw transmitters were installed. Fourteen of the 16 RFE/RL's language services were jammed, and twelve of the 21 languages of VOA. Deutsche Welle (DW) was jammed in five of its 11 East European and USSR languages. BBC was jammed in two of its 12 Eastern languages. The effectiveness of jamming ranged from minor annoyance to total blockage.

W. Edwards, "Longwave duel": "The trading pawn in the hands of the US had been the megawatt long wave transmitter located in Munich. The record shows that when the Soviets stopped jamming the VOA Russian programs in June of 1963, the VOA megawatt transmitter in Munich shut down very soon thereafter. In August 1968, when the Soviets resumed jamming of the VOA. [...] the megawatt in Munich returned to the air. Again, in September of 1973 Soviet jamming against the VOA stopped and a month later the megawatt transmitter on 173 kHz went off the air. This off again-on again relation was rooted in the 1948 European Broadcasting Conference at Copenhagen where medium wave and long wave frequencies were assigned to the participating countries within Europe. Under the plan, 173 kHz was assigned to the USSR. [...] The presence of the VOA megawatt transmitter in Munich appearing on the same frequency caused an acerbic reaction—the Soviets took the position that their 500 kw signal on 173 kHz from Moscow was being jammed".



Communications receivers "R-399A" (USSR), used in the 80s for tracking of the jamming targets.

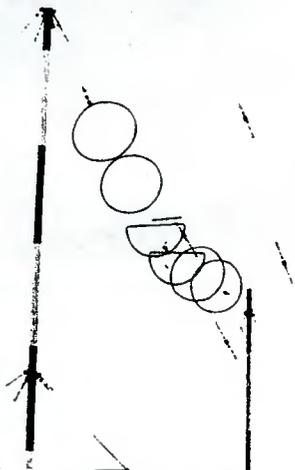
Jamming in the USSR

The local jamming transmitters ranged in power from 1 to 20 kw with 10 to 20 units per station. The typical antennas were multi-wire broadband dipoles, suspended vertically or at 45 degrees angle. The effective range of ground wave jamming usually was about 30 km. In 1986, the local jamming stations were located in 81 big city of the Soviet Union. Dwarf jammers were numbered with "60" and "600" series ("Object Nr. 600", etc.), while giants were assigned "800" series.

Some of the broadcasters liked to be deceptive: Radio Beijing used to change its frequencies slightly during the broadcast (frequency agility method), leaving the hoarse choir of Soviet jammers aside. There were several occasions recorded when R. Beijing played its Russian programs backwards, and these particular frequencies were not jammed. Moscow monitors would tape programs, play them backward to make transcripts, and submit the scripts to the KGB and Communist party bosses.

The jamming monitoring sites ("Control and Correction Posts") used to be installed several kilometers away from the transmitting facilities. The operators—mostly women—scanned the HF broadcasting bands. It was their decision to start jamming, depending on the actual audibility of the target station. Monitors issued orders by a dedicated phone

line to the transmitter personnel to tune a particular transmitter to a particular frequency. All frequencies, times, station names, program languages and audibility evaluations were entered in logbooks. The transmitters sometimes were switched on remotely from the receiving site.



Standard multi-wire broadband "vgdsh" type dipole, used for ground wave jamming in the USSR.

Vytautas Liatukas, a supervisor of Kaunas city jammer in Lithuania, complained in a company paper back in 1975 about their station "being in continuous shortage of filaments for radio tubes, transmitter measuring devices, cabling, as well as about the poor condition of the roof of the building and antennas." Some transmitters were said to be in operation for as much as 20 years with no major overhaul.

According to an old Soviet standard, masts of the jammers were painted in yellow and black until 1975, to prevent enemy aircraft from identifying them in the natural background. From about 1975 onward, all the radio and TV towers, including jammers, were painted in white and red. They have been illuminated at night with red non-blinking lights. Every jammer used the same identification code, or call sign, for all its transmitters, made up of two letters. The call letters of the jammer were transmitted twice per minute for identification of each station.

Jonas Èepas, a veteran of the State Radio Frequency Service of Lithuania, gave the following exclusive account: "We witnessed many problems affecting TV and radio broadcasting caused by the shortwave transmitters used to jam foreign radio stations. Various combinations of the signals interfered with television and radio programs broadcast on long, medium, and short waves, with radio communication and other radio electronic equipment. The signals emitted by powerful transmitters made their way even to the electric circuits of tape recorders and record players. Being aware of the many heavy-duty transmitters operating near their residential areas, people were worried about health hazards related to effect of the electromagnetic field. Measurement data proved that the worries were substantiated".

Thirteen long distance jamming radio centers with over 100 high power (50-500 kw) short wave transmitters were used for blocking out large territories by transmitting interference into specific region. The operational distances of such sky wave jammers were 500-3,000 km. The vertical curtain array and rhombic antennas were used for long range jamming. Additionally, the USSR jammed from its territory the Polish, Czech, Slovak and Bulgarian language programs of RFE/RL, VOA, BBC and DW. Several secret cross-border jamming agreements were signed between Moscow, Prague, Sofia and East Berlin. Romania and Hungary participated in the cross-border jamming network until 1963-64. There were 10 to 12 sky wave jamming centers in East Europe with over 90 transmitters.

Those who used to span the dial could often find "holes" in the jamming wall. Twilight immunity was one of several technical methods used for many years by the Western broadcasters to reduce jamming. The twilight immunity makes use of broadcasting to the target area on certain frequency on which the skywave jammer, placed a few thousand kilometres to the East, cannot be effective for a given area because of its lower maximum usable frequency at that time.

Roar of jammers smothered RFE/RL, VOA, BBC, DW, Voice of Israel, R. Beijing, R. Tirana, R. Korea and R. Free Russia. Before 1963, broadcasts from Vatican, Rome, Belgrade and Paris were jammed as well. Several times, when the political climate became warmer, the USSR would stop jamming government stations from London, Washington and Cologne:

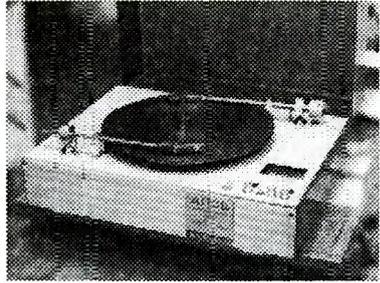
- Six months in 1956, between Khrushchev's visit to Britain and the Hungarian crises
- In September of 1959, during Khrushchev's visit to the U. S.
- In early 1960 until the "U2" incident
- June 19, 1963–August, 1968 (Soviet invasion of Czechoslovakia)
- September, 1973–August 20, 1980 (Martial law declared in Poland)

For over 30 years Washington and Moscow held an ongoing debate about radio jamming and I list below a comparison of their main arguments:

U.S.: "The participating States make it their aim to facilitate the free and wider dissemination of information of all kinds" (Helsinki Agreement, 1975); "Any frequency assignment shall have the right to international protection from harmful interference." (Article 9, ITU Geneva Regulation); "Everyone has the right to seek, receive, and impart information through any media and regardless of frontiers" (Article 19, Universal Declaration of Human Rights); "All stations whatever their purpose must be established and operated in such a manner as not to result in harmful interference to radio services or communications of other members" (Article 28, Montreaux convention).

USSR: "The sovereignty of the USSR in the field of radio broadcasting secures for the USSR the possibility and rights to sever a radio aggression directed against her in ether." (International Legal Regulation of Radio Communication and Broadcasting, S. Krylov, 1950); "The participating States will

respect each other's sovereign equality and individuality as well as the rights inherent in and encompassed by its sovereignty... they will respect each other's right to define and conduct as it wishes its relations with other States in accordance with international law..." (Helsinki Agreement, 1975).



Device for playback of the "speech-like" jamming audio signal.

Officially the Soviets failed to mention the fact that they jammed foreign radio stations for a long time. Later they admitted it and declared they had rights to "defend the national sovereignty of countries in the fields of information and culture". The United Nations adopted a resolution in 1972 that declared jamming to be a violation of human rights. At several summits—e.g. Reykjavik, 1986—the Soviets proposed to cease jamming of VOA (not RFE/RL) in exchange of the rights to acquire or to rent AM and FM transmitters in or near the US.

On the evening of November 29, 1988 the Soviet Union ceased to jam all foreign radio stations. The jamming session that lasted for 40 years was over. In December of 1988, Czechoslovakia and Bulgaria stopped the jamming of RFE/RL's broadcasts. In the end of 1988, not less than 1600 transmitters were switched off in about 120 jamming radio centers of the USSR, Czechoslovakia and Bulgaria.

When the Soviet Union collapsed, some jammers were converted into broadcasting stations or were put in month balls; others were dismantled. One such low power jammer, installed shortly after the WWII in the Jewish cemetery of the Lithuanian Baltic seaport Klaipeda, was also dismantled, and the chapel was returned to believers. In another city the

closed jammer building was converted into a café. Some former Soviet jammers were modified into a commercial radio stations, as Radio 7 in Moscow.

Jamming in Poland

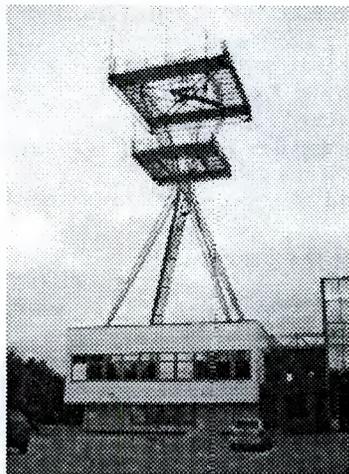
RFE/RL archive document dated August 17, 1956: "During the period of unrest [...] it has been decided to end the jamming of Western broadcasts in Poland"; "newspapers reported the local jamming station is being dismantled." The date acknowledged by the Polish government is November 24, 1956. After a short period of confusion, jammers in Czechoslovakia and Russia carried on against the RFE Polish broadcasts. However, the cessation of local jamming within Poland itself greatly increased the intelligibility and reliability of reception of RFE programs".

Stanley Leinwoll, a former RFE/RL manager, wrote in his article "Jamming—Past, Present, and Future" (*World Radio-TV Handbook*, 1980): "Coincident with a series of riots in the city of Poznan [...] jamming of RFE Polish language programs was ended. The official date was November 24, 1956. There had been mounting outcries from the press about the jamming of foreign broadcasts, and it has been reported that at the onset of the Poznan rioting the local jamming station was destroyed".

Ralph Walter, Perry Esten, "Jamming against RFE programs" (July 6, 1965): "In the summer of 1964 the USSR switched to a new type of jamming against RFE Polish programs. Instead of noise modulation formerly used, the new interference consisted of very distorted program material from the "Mayak" program, which is a 24-hour service from Moscow for listeners in the USSR and abroad. It is believed that this new type jamming was adopted to minimize complaints from the free world about jamming operations".

David Walcutt, a retired RFE/RL engineer, wrote to me in 1997: "I have a lot of material on jamming. These are files that were moved to Washington after the Munich office of RFE/RL closed. But when the

Engineering Department closed, I rescued these materials from the trash because of their historic nature. It is certain that Polish jammers were located in Russia. There are triangulation studies which prove it". Triangulation data was collected by Deutsche Bundespost and ITU.

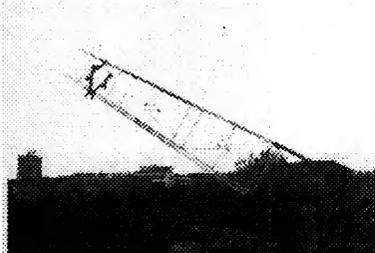


Building of the former monitoring station of the cross-border radio jamming operations in Poland, 40 km East of Warsaw.

RFE/RL archive document dated July 14, 1971: "From 11 to 27 of December, 1970, RFE Polish channels were jammed by music programs without announcements, whereby Poland used several of its short-wave channels. This was caused by the unrest in Gdansk and other Polish cities. On 18 March 1971 jamming activity was resumed. After two days modulation became distorted. Added was an increased jamming activity from the USSR: partly Mayak jamming (distorted) and partly pop music (distorted)."

RFE/RL archive document dated January 27, 1982: "Soon after the commencement of martial law in Poland, heavy jamming from transmitters located inside the Soviet Union was affecting all of our [RFE] Polish frequencies. At the same time we noticed a dramatic decrease in jamming on the Czechoslovakian service. This indicates that the jamming transmitters covering our Czechoslovakian programs were shifted to cover Poland".

Research of the Institute for Telecommunications Services: "In many instances, a specific marker could be associated with a particular broadcast language. For example, the jammer with the marker "1G", located near Leningrad, primarily jammed Polish language broadcasts. An interesting feature of most of the Polish language jammers was that they were not located within the borders of Poland. For example, jammers that were associated with Polish language broadcasts were found in Leningrad ("1G"), Tashkent ("4F"), and Kiev ("1D")."



Demolition of the Vilnius (Lithuania) radio jammer on April 29, 1989.

Jamming in Czechoslovakia

"RFE/RL Research": "Before the invasion of Czechoslovakia this language service was jammed by stations both inside and outside the country. The latter are in the USSR. On May 8, 1968 Czechoslovakia had stopped all jamming except for some transmissions of RFE. Immediately after the [Soviet] invasion and for several days thereafter there seemed to be some confusion among the jamming networks and some of the lower frequencies we used for Czechoslovak were free of jamming. What jamming there was on the higher frequencies then seemed to be by jammers in the USSR, and for a while the medium and lower short-wave frequencies were quite clear of jamming. This situation changed about the beginning of September 1968 when [...] the former jammers located in Czechoslovakia made a slow comeback: the old call sign "z3" was first heard again on 25 November, 1968 and "G7" reappeared on 7 January 1969. A new stronger jammer started on [medium wave] 719 kHz on 25

March 1969. In summary, all Czechoslovak frequencies are now heavily jammed from the USSR and Hungary, and from within Czechoslovakia. Jamming against the RFE Czechoslovak service has varied over the years, but can in general be characterized as heavy noise jamming". There were 18 local town jammers in Czechoslovakia. Three sky wave jamming radio stations transmitted interference to the USSR and Bulgaria.

Jamming in Bulgaria

In 1951-1988 there was a network of local jamming stations, covering all the major cities, as well as several sky wave jamming radio centers, beamed at the USSR, Poland and Czechoslovakia.

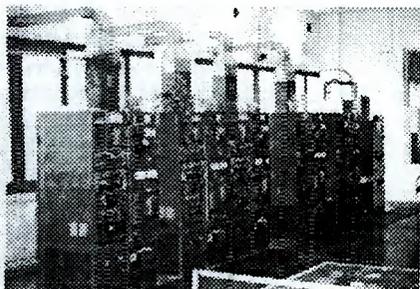
Jamming in Hungary

The local and sky wave radio jamming centers were active between 1951 and 1964. By the end of February 1964, no incoming cross-border jamming was heard, except one low-power station in Ukraine.

RFE research document "A history of jamming", dated 17 October 1965: "The classic jamming pattern still found in the case of RFE Czech/Slovak and Bulgarian Services (and used against all RFE languages prior to November 1956) is that of extensive coverage of a country with low—or medium—intensity interference from long-range jammers located in the Soviet Union or in other satellites, plus reinforcement in highly populated areas by large numbers of local jammers. Generally a number of transmitters at different locations are active against each frequency to be jammed. Operations are coordinated by a central authority which includes a monitoring facility for identifying jamming targets and probably for assessing effectiveness."

In the early seventies USIA announced its plan to use communications satellites to start television broadcasting directly into the USSR and Eastern Europe. According

to Viktor Sheimov, a KGB communications expert who fled to the West, the Central Committee of the Communist Party instructed the *Institute of Space Research* to design a satellite television jamming system. The scientists had concluded that jamming of satellite television with existing surface jammers would probably be ineffective due to the narrow beam receiving antennas.



2.5/5 kw SW communications radio transmitters "Viaz-M2" at the local radio jammer near Panevezys in Lithuania.

On 27 March 1990 at 1:30 a.m. local time the American TV Marti started broadcasting into Cuba from the U.S. air balloon Fat Albert (part of the U.S. border surveillance system) floating over Cudjoe Key, South of Florida. Cubans had installed many small-jamming transmitters beforehand that effectively "erased" the first TV Marti programs. However, the jamming was inadequate in the countryside. To extend the jamming range, Castro's engineers and pilots equipped several Russian made Mi-17 helicopters with jamming equipment. The Cubans got so excited that they even started jamming Radio Marti's services from VOA transmitters in Greenville, NC, and Bethany, OH. Radio Marti previous to this had not been jammed by Cubans for 5 years.

It has been recently reported in 1997 that "Med tv, the world's only Kurdish language satellite tv, suffered deliberate technical interference on 1st July, the launch date for its new test transmission on Eutelsat" (Med tv/World Media, BBC). Before this there was a Turkish protest aimed at Syria over Med

TV's terrestrial relays. According to World Media, the jamming was not an accident because "it completely swamped Med TV with a noisy dark screen and silenced the TV sound." The management of Eutelsat began to investigate this affair but technically it is very difficult to determine the jammer's location. Med TV director Hikmet Tabak's view is that the Turkish Government has "both the political motive and the financial and technical capacity" to jam the Kurdish television station. BBC monitoring specialists confirm the existence of intentional jamming. Med TV's representatives assert that interference in Turkey is carried out from the Sinop uplink station "by means of military equipment". It is difficult to counter this type of jamming because the satellite's transponder automatically relays the jamming signal sent to it.

In the fall of 1997 Anatoly Batiushkin, one of the former managers of the Soviet jamming system, gave this answer to my inquiry: "All employees who have had at one time a direct relationship with (jamming) work are now retired pensioners, and my efforts to ask them to review your book (*Jamming*) were not successful. All jamming sites have been either converted to other purposes or have had their equipment written off. All related legal, technical and operational documentation no longer exists."

By the end of 2003, the most active jamming countries are China, Cuba, Iran and Vietnam. The jamming emissions were also traced in North Korea, South Korea, Morocco, Saudi Arabia and Myanmar. Besides, Cuba and Iran are involved in satellite television jamming.

[Rimantas Pleikys, author of the books *Jamming* and *Radiotsenzura* and his team at Radio Baltic Waves in Vilnius, Lithuania have opened a comprehensive website with material about the past and present of jamming: <http://www.radiojamming.puslapiai.lt/>. The above article and pictures appeared at the website and is used with permission from the author and Radio Baltic Waves.] 

Technical Topics

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FCC To Issue Proposed BPL Rules

On February 12 the FCC voted unanimously to issue a notice of proposed rulemaking (NPRM) to eventually allow full-scale deployment of BPL in the United States. That's the bad news. The good news is that the FCC has apparently heard the outcry of users of the short-wave spectrum and has proposed procedures to mitigate interference.

In spite of warnings expressed by entities like FEMA, NTIA, ARRL, NASWA and thousands of individuals, the FCC cheerleaders for BPL technology have decided to charge ahead. Instead of proposing a reduction in Part 15 limits as NASWA requested in its comments, the FCC is proposing to leave the unintentional radiation restrictions as they currently are. The FCC instead proposes placing the burden on licensed services to take action when they experience interference. The good news is that they did not propose to raise the limits at this time as some BPL advocates desired.

The ARRL, which represents the interests of hams, quoted their CEO, Dave Sumner, in their weekly newsletter, "...the Commission's own presentation and the individual FCC members' comments demonstrated to him that the NPRM should have cut the permissible emission limits under Part 15. The Commission clearly recognized that the existing Part 15 emission limits are inadequate to stop interference, Sumner said, but it is placing the burden of interference mitigation on the licensed user that is supposed to be protected. Sumner said that if the FCC really believed current Part 15 emission limits were sufficient, it would not have had to require that BPL providers institute interference mitigation procedures and systems."

The FCC is proposing procedures to ensure that they cannot be accused of totally

ignoring the earlier warnings by over 5000 responders to their earlier inquiry. The FCC is proposing that persons and agencies that experience interference shall have the burden of identifying the interference as BPL, finding out where that interference should be reported, reporting it, convincing the BPL providers it is their problem to fix, and possibly living with the problem while the process unfolds.

Here is what the FCC is proposing to minimize the impact of BPL on licensed services:

- Proposes rules requiring BPL devices to employ adaptive interference mitigation techniques to prevent harmful interference to existing users, such as public safety and amateur radio operators. These techniques would enable BPL devices to cease operations altogether, dynamically reduce transmit power, and/or avoid operating on specific frequencies to prevent harmful interference;
- Proposes developing a public database that would include such information as location, operational frequencies, and modulation type of BPL devices, which will facilitate the resolution of interference issues in a timely fashion;
- Seeks comment on specific RF measurement guidelines for BPL devices and other carrier current systems. These guidelines will ensure that emission measurements for these systems are made in a consistent manner.

The BPL industry actually wanted Part 15 emission limits raised in order to use higher power transmitters that would require fewer repeaters along the power line. Fewer repeaters mean lower installa-

tion cost and a higher probability that BPL can be economically viable.

In a personal statement FCC Chairman Michael Powell said, "I am confident that the proposals we adopt today balance the potential benefits of BPL services and give careful consideration of the potential interference from BPL operations by establishing new requirements that will help minimize harmful interference that may occur and guidelines for measurement of radio frequency (RF) emissions from carrier current systems."

Each of the individual FCC commissioners also weighed in with statements of support and caution. Here is what each said about the interference issue:

Commissioner, Kathleen Q. Abernathy, who has previously been quoted in this column as an unabashed supporter of BPL, "One of the key issues in this proceeding is the potential for harmful interference by BPL systems to licensed spectrum users. Based on the record, it is appropriate that we are proceeding cautiously. I support our tentative conclusion to craft technical rules that minimize the potential for harmful interference to existing licensees and also ensure that any instances of interference are quickly resolved. I look forward to reviewing the comments on these technical proposals and am hopeful that we will be able to develop rules that protect existing licensees from harmful interference, while enabling a promising new technology to move forward."

Commissioner Michael J. Copps said, "...I strongly support the technical inquiries and proposals we make today. We need to set the technological rules of the game early and transparently, so that the entrepreneurs in this industry can make investments with confidence. As regards interference, I believe we make another step in that direction today, so I'm happy to support the technical side of our item." That quote is not very clear but I think he was saying he believes they are addressing the potential

interference issue by proposing procedures to be used when interference occurs.

Commissioner Kevin J. Martin in his statement said, In this proceeding, we are considering how to facilitate deployment of BPL while ensuring that existing users are protected against interference. Most importantly, NTIA and FEMA have raised concerns about interference to Government operations, including some emergency communications. In addition, many amateur operators fear that they will experience unacceptable interference from BPL systems. I take these concerns very seriously. I am optimistic, however, that we can craft rules that will fully address these concerns and still allow BPL to flourish. I thus look forward to receiving comments in this proceeding."

Commissioner Jonathan S. Adelstein in his statement said, "...I am encouraged by some of the proposals set forth in the NPRM to ensure that BPL systems do not cause harmful interference to existing services." He went on to say, "While we must be mindful of harmful interference, we cannot let unsupported claims stand in the way of such an innovation as BPL systems. Provided that the engineering bears out, I believe that we need to push the boundaries to accommodate new technologies. A little noticed provision of the Communications Act, Section 157, reads that 'It shall be the policy of the United States to encourage the provision of new technologies and services to the public.' I am fully committed to that mission to promote new technologies, and to provide a framework for innovation so they can succeed. In order to do so, we must first resolve the technical interference issues addressed in this NPRM."

So it is plain that all the FCC commissioners and the Chairman believe they are simply responding to the will of Congress by promoting this new technology. Note too that although they mention the interference potential to government and amateur radio communications, there is no mention of the rights or interests of those who choose to

get their news and information about other cultures via short-wave radio.

Although NASWA did its best to lay out the issues affecting short-wave listeners, our lone voice, and that of a few other individuals, was lost in the noise of more than 5000 radio amateurs who made a strong impression with their concerns. I only saw comments from a few SWLs in the more than 5100 comments filed previously. We must do better this time around.

SWLs now have another opportunity to get their message across. You cannot leave this ball for somebody else to carry. Study the proposed rules when they are eventually issued. The FCC electronic filing system is easy to learn and use. You can file your comments at <http://www.fcc.gov/cgb/ecfs/>.

Formulate your comments and submit them to the Commission. NASWA will likely submit additional comments on the NPRM but it is obvious that there is strength in numbers so you must also do your part.

A free flow of information is essential to the preservation of a free society. As citizens of a free society we have a right and an obligation to inform ourselves about the world around us. Many NASWA members choose to learn about other cultures and international news through the reports and programs of foreign broadcasters. We do not depend on the often agenda-driven reports of domestic media to inform ourselves about the outside world. Make sure the FCC knows that you believe that as a free society, free access to foreign broadcasts via short-wave radio must be preserved as a protected, licensed service. Make sure the FCC understands that the government should not be in the business of forcing US citizens to go to the Internet for news and information that today is available freely on short-wave radio. Force the FCC to address how non-technical people who simply know how to turn on and off their receivers can be expected to identify BPL interference from other sources of electromagnetic noise.

While our technical problem is similar to that of amateur radio operators, in several ways our problem is more difficult. We often use portable receivers inside the house. Our whip antennas are very close to the house power wiring. Therefore, the amount of BPL signal we receive with such a setup can be much stronger than what an amateur radio operator will receive with a good outside antenna far away from the power line.

It is not too late to put forth a strong position. The comment window will begin with publication of the Notice of Proposed Rule Making in the Federal Register.

I will be making a presentation on BPL at the Winter SWL Fest in Kulpsville, PA on Friday March 12. As a part of that presentation I will be playing a tape, made by the American Radio Relay League. The tape demonstrates what BPL sounds like. It also shows the ARRL interference guru, Ed Hare, driving under power lines carrying BPL signals. The tape was made in two locations, each using a different type of BPL modulation. You will learn how to recognize a BPL signal when you hear it and you will learn just how awful BPL will sound on your radio.

The FCC has posted the promised Notice of Proposed Rule Making for BPL on their web site. We will have **45 days** to comment after the clock begins ticking with the publication of the NPRM in the Federal Register.

You can download the 38 page document in MS Word format from the FCC web site at http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-04-29A1.doc.

The document contains instructions for filing comments both electronically and via the US postal service. Even the paper submissions must be accompanied by the same information in MS Word or a compatible format on a 3.5 inch floppy disk.

The FCC is not proposing to relax the Part 15 limits as many BPL proponents requested. That's the good news. The bad news is the FCC admits BPL will interfere with HF commu-

nications and expects persons encountering interference to be able to identify it as BPL interference and places the burden on the party being interfered with to bring it to the attention of the BPL operator and be able to convince them that their system is causing the interference. That is a bit much to expect of non-technical people who only know how to tune their radios to a predetermined frequency and adjust the volume. I submit this description applies to the large majority of short-wave listeners although possibly not a majority of NASWA members.

NASWA will likely file comments on behalf of those of us who choose to listen to foreign broadcasts for our news and cultural information about other countries. NASWA's comments will likely address the basic problems associated with non-technical people correctly being able to identify BPL interference when they hear it. Comments will also address the fact that many who use short-

wave radio to keep up with news from their home country are often not fluent in the English language and would in many cases not be capable of communicating with BPL operators when interference is encountered.

Comments from individuals are needed to let the FCC understand there still are lots of folks out there who choose to listen to HF broadcasts. The FCC is under the impression that *only hams* are raising hell about BPL. There were over 5000 inputs from hams to the initial inquiry. You can't do better than to write that letter (thanks to Joe A. for that phrase).

Shortwave broadcasters need no additional excuses to terminate shortwave broadcasting directed to North America. Widespread BPL deployment could provide that excuse as cash-strapped bureaucrats look to maximize the effectiveness of their broadcast budgets. Stay tuned.



WELCOME TO THE FOLLOWING NEW MEMBERS

WILLIAM E. BOWERS, Stafford, TX
MARVIN DAVID GRIMSHAW, Kenosha, WI
DON RYOKONEN, Annapolis, MD
DAVID E. COURSEY, Tracy, CA
LARRY YAMRON, Pittsburgh, PA
LARRY DIFILORE, Floral Park, NY
LARRY VIPOND, Mesa AZ

Adrian Peterson's Diary

Dr. Adrian M. Peterson • Box 29235 • Indianapolis, IN 46229

Christmas Anniversary for ABC Sydney on Shortwave—VLI

In the Christmas edition of *Wavescan* each year, it is our custom to choose a Christmas radio station and tell its story. This year we choose another shortwave station that was inaugurated during the Christmas season many years ago, and the choice falls upon the now silent Home Service shortwave station that was on the air in Sydney, Australia.

It was on December 22, 1948 that a small 2 kw. shortwave transmitter was officially inaugurated at Liverpool in New South Wales under the Australian callsign VLI. A few days earlier, local radio listeners noted test broadcasts from the new transmitter on several different channels in the international shortwave bands.

The large ABC radio station located at Liverpool on the southern edge of the city of Sydney was established in the year 1938 for mediumwave coverage of Australia's largest metropolis. The two main transmitters carry the national and state service for the ABC, and these have been on the air under the callsigns 2BL and 2FC.

A few years ago, the historic callsign 2FC was relinquished and the national programming for the Sydney area is now on the air under the generic callsign 2RN. Two other mediumwave callsigns have been in use at Liverpool: 2JJ, which is now identified as Triple J on FM, and 2PB, which carries parliamentary broadcasts and news relays.

The new shortwave unit was implemented for coverage of coastal areas north and south of Sydney where mediumwave coverage was poor at the time. Initially, two channels were in use and these were scheduled as follows: VLI2, 6090 kHz., morning and evening, and VLI3, 9500 kHz., daytime

However, on June 1, 1951 the numeric designators were changed and VLI2 became VLI6 and VLI3 became VLI9. Two years later again, the 9 MHz channel was dropped and the transmitter was on the air full time on just one channel, 6090 kHz.

Quite suddenly and unexpectedly, at 1402 UTC on October 7, 1983, the VLI transmitter malfunctioned and left the air abruptly. The official cause was stated to be the failure of the main transmitting tube.

The small transmitter was soon afterwards removed from its location against one of the big 50 kw. mediumwave transmitters, and all of the wooden poles, all painted white, that carried the feeder line to the rhombic antenna system were also removed.

During its 35 year history, station VLI carried a composite relay from both 2BL and 2FC, and its signal was heard quite reliably well beyond the coastal areas. Many QSL cards were issued to confirm the reception of VLI, and they were always the regular ABC QSL cards that were in use at the time.

Just as a matter of interest, the callsign VLI was in use back in the year 1919 for the New Zealand ship "Aorangi." Then in January 1943, the VLI transmitter at Pennant Hills that was on the air with the programming of "Australia Calling" was re-designated as VLI.

Two years later, Radio Australia dropped the usage of the station at Pennant Hills, and the callsign VLI was deleted. However, three years later again the call was taken up for the 2 kw. transmitter located at Liverpool.

And that is the story of the Christmas station VLI that was inaugurated on December 22, 1948, just 55 years ago.

The Story of the Indian Chronohertz Station ATA

Several weeks back, our correspondent in India, Jose (his name is not Spanish; it is pronounced as in English, Jose) Jacob provided us with some interesting information about the chronohertz station ATA in New Delhi, and he suggested that we present a Station Profile in Wavescan about this now non-existent station. OK, Jose, here it is! It's the story of the Indian chronohertz station, ATA.

It was back in the year 1956 that the National Physical Laboratory on the edge of New Delhi in India began to formulate plans for establishing a radio broadcast service for the dissemination of very accurate time signals on a very accurate frequency in the international shortwave bands. Three years later, on February 4, 1959, this new broadcast service was launched without prior publicity using a 2 kw transmitter on exactly 10 MHz.

This new station was located at Kalkaji, in Greater Kailash on the edge of New Delhi. The antenna was a horizontal dipole, one wavelength high, directed physically north-east-southwest, giving it an almost circular coverage pattern.

The frequency 10 MHz is used by many other chronohertz stations in Europe, the United States, the Pacific and Asia, but the lower power of all of these units means that little interference is encountered in the main coverage area of each station. In 1974, the National Physical Laboratory installed an atomic caesium clock, thus increasing the accuracy of the time signals to an infinite degree.

It was in the following year 1974 that the international radio community in Southern Asia began to focus attention on this station, and as a result of reception reports from many distant listeners, QSL letters were issued by the station director. One year later again, an 8 kw transmitter was installed at ATA, replacing the original 2 kw unit.

In November 1976, the National Physical Laboratory conducted a three day convention under the title, "Seminar on Time and Frequency." Our own DX editor, Dr. Peterson, was invited to present a paper at this convention on "The Usage of Chronohertz Signals by DXers, Shortwave Listeners and International Radio Monitors." He also designed a new QSL card for them. At this seminar, they also announced that an additional 8 kw transmitter had just been inaugurated for use on the additional channel 15 MHz.

During the following year, an additional transmitter of the same power was installed at station ATA, and this radiated on 5 MHz. By this time, the old AWR DX program "Radio Monitors International" was well established, and so, beginning in 1978, an annual "ATA Day" was conducted on air, drawing attention to the station and to the availability of their QSL card.

In 1988, the chronohertz signals from ATA were placed onto the INSAT satellite over India, and by this time the transmitters were ailing and at times malfunctioning. After a long period of consideration, and increasing technical problems, the decision was finally made not to replace the old electronic equipment, but rather to take the station off the air. Jose states that ATA staff told him in telephone conversations that the radio station was closed somewhere around the year 2000.

Over the more than 40 years of broadcast activity, station ATA in New Delhi had been on the air with a total of four different transmitters on three different channels—5 MHz, 10 MHz and 15 MHz. Their signal was heard throughout Southern Asia and at times in countries far beyond, and there are just a few distant listeners who are now holding a historic QSL card from station ATA, printed with black text on a yellow card.

Australian Anniversary—VLQ in Brisbane

The regional home service shortwave station VLQ at Bald Hills near Brisbane in Queensland would be celebrating its 61st anniversary next week, that is, if the station were still on the air today. However, station VLQ and its sister unit, VLM, have been off the air now for more than 10 years. This is the story.

The callsigns VLQ and VLM were originally allocated to two ships in the registry of neighboring New Zealand, and, in more recent time, the callsign VLM was in use as a line callsign for one of the transmitters at the temporary Carnarvon site in Western Australia. We might also add that the callsign VLM was also in use for a 10 kw. communication transmitter located at Pennant Hills in the pre-war days, and the callsign VLQ was also in use at the same site for international broadcasting beginning in the year 1939.

During the year 1941, work commenced at Bald Hills, 12 miles north of Brisbane, on a new radio base for the two ABC medium-wave stations 4QG and 4QR. One of the major reasons for moving the antennas from the city into the country during the Pacific War was so that the horizon, as seen from the ocean, would be considerably lower.

The location at Bald Hills is flat and swampy, and it was previously in use as a commercial jam factory. In May 1942, station 4QG was transferred from the top of a city building to the new country location.

The first test broadcasts from the new 10 kw. STC transmitter were heard on February 14, 1943, and, strangely, the test announcement gave the location as Sydney. Three days later, shortwave VLQ at Bald Hills was officially inaugurated, and it carried the ABC programming for outback areas.

In 1945 the ABC began a 15 minute daily news bulletin from VLQ for listeners in Papua New Guinea. Some 30 years later, Radio Australia also took the same station, VLQ, into daily usage for a regular five hour service to Papua New Guinea. The channel for this external broadcast was 11885 kHz, though no callsign was allocated for this

transmission. The Radio Australia usage of VLQ for the service to Papua New Guinea was terminated in 1976 when the new, though temporary, station was inaugurated at Carnarvon in Western Australia.

A temporary additional unit was installed at Bald Hills for use on a lower frequency for coverage in the skip zone of the higher frequency unit VLQ. This temporary unit was rated at 200 watts and it was opened without ceremony as VLM on September 7, 1949. Two years later, a new 10 kw. transmitter was installed, and it took over the VLM service.

Back during the pre-satellite era, the shortwave service from the two transmitters VLQ and VLM served a double purpose. It was in use as a direct broadcast service for people living in isolated outback areas, and it was also considered essential as an emergency backup for outages in the tenuous landline feeds to distant mediumwave stations. The VLQ relay service was heard at times from several of the distant ABC stations in Queensland, and also from station 5DR at Darwin in the Northern Territory.

Over the years, a total of four different shortwave transmitters were on the air at Bald Hills, three at 10 kw. and one at 200 watts. The three larger units were on the air as VLQ and VLM, and also for the Radio Australia service to Papua New Guinea. The antenna system was made up of two concentric rhombics, two half wave dipoles, and an experimental folded dipole.

The last broadcast from this shortwave station was heard on December 16, 1993, and the newest transmitter was sold a few months later to the chronohertz station VNG in Llandilo in New South Wales. However, station VNG has also subsequently gone silent.

Several QSL cards were issued for VLQ and VLM during the station's 60 year existence, including the original PNG card, and four different styles of cards showing maps of Australia and Queensland. For Radio Australia programming, the colourful picture cards showing animals, birds and flowers were issued ~~SL~~.

Listener's Notebook

Al Quaglieri • P.O. Box 888 • Albany, NY 12201-0888 • FAX: (518) 453-0864 • al@alcue.com

ANGOLA *Radio Nacional* confirmed active on 4950 and 7217 (7216.8). (Chris Greenway-ZMB, BrDXC-UK Feb 19/BC-DX/Bueschel-DE) 4949.98, *Radio Nacional do Angola*, Mulenvos, 2350, Feb 08, nice program and several IDs in Portuguese, surprising good signal. (Nielsen-DK/DSWCI DX Window/Petersen-DK)

ARMENIA Additional transmission for *Voice of Armenia/Radio Aragats* in Armenian:

1630-1700 on 9965
(Observer-BUL)

BELARUS Belorussian transmitter (Army).
1510 3346-SSB retransmission *Belorusskoe Radio*
0907 12227-SSB retransmission *Belorusskoe Radio*
(Nikolay Ozerov, Belgorodskaya oblast-RUS, RUSdx
Jan 31/BC-DX/Bueschel-DE)

BHUTAN *BBS* now regular to 1500 s-off. English last hour with En Nx at 1400 on 6035, quite a nice signal, but still the best is at s.on 0059 with very nice local fanfare. (Victor A. Goonetilleke-CLN 4S7VK, BC-DX Feb 18/19/BC-DX/Bueschel-DE) *BBS Bhutan* now broadcasts in English daily at 1400-1425 UT on 6035 kHz, but has dropped the weekend broadcasts in English that were scheduled at 1000-1100 Alok Dasgupta-IND, DX Asia/DX Listening Digest/Hauser-OK)

BOLIVIA 4684.30 kHz, *Radio Paititi*, Guayaramerin, now here ex-4682. (Malm-ECU, SWB Amrica Latina/DX Listening Digest/Hauser-OK)

4716.73 *Radio Yura*, Yura, 0051 0056, Feb 17, Spanish, Musical Program, Comments by female announcer, Estamos llegando al final...(Eramo, Argentina)

4722.85 *Radio Uncia*, Uncia, 2353 0021, Feb 18/19, Spanish, musical program, Direct information from the soccer match between Bolivar vs Boca Juniors, Request reception reports for their transmission on shortwave, ID "aqui en Radio Uncia" (Eramo, Argentina)

4763.3 *Radio & Television Chicha*, Tocla, Nor-Chichas province, Potosi Department. 2240-2400. February 22. Spanish. Second day on air. They like reception reports and promise a souvenir for all listeners who send them reports. Schedule: 1030-1700 and 2100-2400 UT. (Arnaldo Staen & Marcelo Cornachioni, Argentina, Cumbre DX/Johnson)

4903.5, *Radio San Miguel*, Riberalta, 10 Feb, 1020 to 1030, ID's and TC's; since return of Riberalta, frequency is up from 4901.6 with slop from the ever-present "swisher" (Wilkner-FL/DX Listening Digest/Hauser-OK)

BURKINA FASO 7209.6 audible at 1010-f/out 1030 w/ tks (too poor to ID language) & Afr tunes. (Carlos Goncalves-POR/BC-DX/Bueschel-DE)

CHINA *China Radio International* changes:

1600-1657	Arabic	ADD 7160*// 7130 11730
		11845 15125 17880
1700-1757	Russian	ADD 7330 // 9885 9795
		9765 9365 7265 7245 6040
		5965 5905

(Observer-BUL)

Summer A-04 freqs for *China Radio International* via KAS (Kashi-Kashgar):

0100-0157	Russian	5905
0200-0227	Tamil	13715
0200-0227	Tamil	11870
0300-0357	Russian	5905
1200-1957	Russian	5905
1300-1357	Hindi	9635
1400-1457	Sinhala	7265
1400-1557	English	9560
1500-1557	Persian	9665
1500-1600	Mandarin	7265
1500-1657	Hindi	7235
1600-1657	Urdu	5915
1600-1657	Arabic	7160
1600-1727	Swahili	12000
1700-1757	Russian	7330
1800-1857	Italian	7325
1800-1957	German	7170
1830-1857	Hausa	9570
1830-1927	Arabic	7160
1900-1957	Albanian	7130
1900-2057	English	7140
2000-2027	Serbian	7130
2000-2057	Mandarin	7245
2000-2157	English	7190
2030-2127	Italian	7180
2200-2257	Mandarin	9675

(Observer-BUL)

CLANDESTINE—ALL OVER THE PLACE "Non-official" broadcasts via relays, compiled from monitoring and info distributed via: BC-DX, DXLD, HFCC, ILG

Clandestine Radio.Com, <http://www.clandestineradio.com>

Clandestine Radio Watch, <http://www.schoechi.de/crw.html>

The Italian DX website, <http://www.bclnews.it>

Nagoya DX Circle, <http://newswire.ndxc.org/> or <http://www2.starcat.ne.jp/~ndxc/>

DTK: Deutsche Telekom MNO:

Merlin RNW:

Radio Netherlands TDP: <http://www.airtime.be/schedule.html>

WRN: World Radio Network Disclaimer:

due to conflicting reports, some transmitter sites may be tentative

Arabic Radio (ex- Voice Of The Homeland)

ID: *Hurreeyah Hur ar-Arabeeyah* (ex- Sawt Al Watan)

0430-0500	7510	RUS Samara A (WRN)
1600-1630	7470	RUS Samara A (WRN)
1600-1630	12085	MDA Grigoriopol A (WRN)

Degar Voice-Radio Montagnard

1300-1327	7125	RUS Chita V (MNO) v-7180 Tu/Th/Sa
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Dejen Radio

1700-1800	7560	RUS Samara Tigrigna (TDP) Sa
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Democratic Voice Of Burma

ID: *Democratic Myanmar a-Thau*

1430-1530	5905	KAZ Almaty Bu (WRN)
1430-1530	17495	MDG Talata Volondry Bu (RNW)
2330-0030	5945	D Julich Bu (DTK)
2330-0030	12055	MDG Talata Volondry Bu (RNW)

Hmong Lao Radio

ID: *Xotvooj Cua Tsa Kom Cua Ngem Ah Cua*

0100-0200	15260	TWN Taipei La (MNO) We/Fr
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IBC-Tamil

0000-0100	7460	RUS Novosibirsk Tm/E (WRN)
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Mesopotamian RTV

ID: *Ira Dengi Mezopotamiyah* (IDs also in E)

1700-1800	7560	RUS Samara Ku (TDP) Tu/ We/Fr
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Mustaqbul (Somali peace)

0630-0700	17565	UAE Dhabbaya So (MNO)
1200-1230	17565	AFS Meyerton So (MNO)

New Horizon Radio (via High Adventure Ministry)

ID: *Chan Troi Moi*

1330-1430	9585	D Julich V (DTK)
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Que Huong Radio-The Country Radio

ID: *Que Huong Radio*

1330-1400	9930	HWA Naalehu-HI V (TDP) Mo-Sa
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Radio Amant (Afghan peace)

1630-1730	7350	RUS Armavir Pashto/Dari Fr
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Radio Ecclesia (Angolan peace)

1900-2000	7205	AFS Meyerton Pr
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Radio Free Kashmir

ID: *Radio Sedaye Kashmir*

0230-0330	6100	IND? Kashmiri
0730-0830	9890	IND? Kashmiri
1500-1600	6100	IND? Kashmiri

Radio Free Vietnam (based in California, USA)

ID: *Dai Viet Nam Tui Do*

1230-1300	9930	HWA Naalehu-HI V (TDP) Mo-Sa
1600-1700	9930	HWA Naalehu-HI V Tu/Th

Radio Huriyo-Voice Of the Ogaden People

ID: *Radio Xoriyo* (Radio Freedom)

1630-1700	9820	D Julich So (DTK) Tu/Fr
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Radio International

ID: *Radio Anternacional-e*

1730-1800	7490	MDA Grigoriopol Fs (MNO) Su/Mo/We/Fr
1730-1815	7490	MDA Grigoriopol Fs (MNO) Tu/Th/Sa

Radio Ndeke Luka (Central African Rep. peace)

1900-2000	11785	UAE Dhabbaya F/Sango (MNO)
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Radio Of The Saharan Arab Democratic Republic

ID: (A) *al-Idhaat al-Wataniyah li-Jumhuriyah al-Arabiyyah al-Sahrawiyyah al-Dimokratiyyah*

(Sp) *Esta es el Radio Nacional de la Republica Arabe Saharaui*

0700-0800	7460	ALG? A
1700-2300	7460	ALG? A
2300-2400	7460	ALG? Sp

Radio Payam E Doost (Bahai faith)

0230-0315 7460 MDA Grigoriopol Fs (MNO)
Su/Tu/We/Th/Fr
1800-1845 7480 MDA Grigoriopol Fs (MNO)
Su/Tu/We/Th/Fr

Radio Pridnestrovye

1700-1730 5960 MDA Grigoriopol E Mo-Fr

Radio Rhino International

1500-1530 17870 D Julich E (DTK) Tu-Fr
1500-1600 17870 D Julich E (DTK) Sa/Su

Radio Voice Of Hope (Sudanese peace)

0430-0500 12060 MDG Talata Volondry E/Vern.
(RNW) Sa-Tu
0430-0500 15320 MDG Talata Volondry E/Vern.
(RNW) Sa-Tu

Radio Voice Of Iran (based in Los Angeles, CA)

ID: *Radio Seda-ye Iran*

1630-1830 7580 UZB/F? Fs

Radio Voice Of Oromia

ID: *Radio Sagalee Oromiyaa*

1730-1800 7560 RUS Samara Oromo (TDP) Mo

Radio Voice Of Oromo Liberation

ID: *Radio Sagalee Qabsoo Bilisummaa Oromiyaa*

1700-1730 7560 RUS Samara Oromo (TDP)
Mo/Th

Sudan Radio Service (Sudanese peace)

0300-0500 9625 G Woofferton E/Vern. (MNO)
Mo-Fr
1500-1700 15530 G Skelton E/Vern. (MNO)
Mo-Fr

SW Radio Africa (Zimbabwean peace)

1600-1900 6145 AFS Meyerton Shona/Ndeb./E

Voice Of Biafra International

2100-2157 7380 AFS Meyerton Igbo/E (MNO)
Sa

Voice Of Democratic Eritrea

ID: *Demtsi Democrasiyawet Eritrea*

1500-1600 5925 D Julich Tigrigna (DTK) Sa
1700-1800 9820 D Julich Tigrigna (DTK) Mo-Th

Voice Of Democratic Path To Ethiopian Unity

ID: *Yih Finote Demokrasi Ye-Ethiopia Andinet*

Dimts New
0700-0800 17655 D Julich Am (DTK) Sa
1830-1930 7220 D Julich Am (DTK) We

Voice Of Ethiopian Salvation

ID: *Yih Ye Ethiopia Medhin Dimts New*

1600-1700 9820 D Julich Am (DTK) Su/Th
1800-1900 7520 RUS Samara Am (TDP) Su

Voice Of Khmer Kampuchea Krom

ID: *Vitthayu Samleng Khmer Kampuchea Krom*

1400-1500 11550 RUS Vladivostok Ca (TDP) Tu

Voice Of Komala

ID: *Aira Dengi Komalah*

1700-1800 7560 RUS Samara Fs (TDP) Su

Voice Of Liberty <http://www.eritreane.com/> to
start Feb. 22 2004

0400-0500 15675 Tigrigna/A (DTK?) Su

Voice Of Mesopotamia

ID: *Dengi Mezopotamiyah*

0500-0900 11530 UZB Tashkent Ku (TDP)
0900-1700 11530 MDA Grigoriopol Ku (TDP)

Voice Of Oromo Liberation

ID: *Sagalee Bilisummaa Oromoo*

1700-1800 9820 D Julich Oromo/Am (DTK)
Su/Tu/We/Fr

Voice Of The Eritrean People

ID: *Ezi Demtsi Hazbi Eritrea*

1730-1800 13690 G Skelton Tigrigna (MNO) Su
1800-1830 7130 G Skelton Tigrigna (MNO) Su

Voice Of The People (Zimbabwean peace)

1657-1755 7120 MDG Talata Volondry E/
Shona/Ndeb. (RNW)

Voice Of Tibet (WRN—all freq. variable)

1212-1300 11640 TJK Dushanbe Ti
1212-1300 15400 TJK Dushanbe Ti
1212-1300 15615 UZB Tashkent Ti
1212-1300 15645 TJK Dushanbe Ti
1212-1300 15660 TJK Dushanbe Ti
1212-1300 21495 UZB Tashkent Ti
1212-1300 21525 UZB Tashkent Ti
1212-1300 21545 UZB Tashkent Ti
1212-1300 21560 UZB Tashkent Ti
1430-1515 7485 UZB Tashkent Ti Mo-We
1430-1517 7525 UZB Tashkent Ti Th-Su

World Falun Dafa Radio

ID: *Fang Guang Ming / Falun Dafa Hao*

0200-0300 17510 HWA Naalehu-HI Ch
1500-1600 9930 HWA Naalehu-HI Ch
2100-2200 6035 RUS Samara Ch (TDP)

(Silvain Domen, Belgium, Feb 10/DX Listening Di-
gest/Hauser-OK)

CLANDESTINE—ASIA new *Truth for The World* in Chinese:
1400-1430 7220-TAI

Frequency change for *Voice of Tibet* in Tibetan & Chinese via TAC:

1430-1517 NF 17540, ex-7485 daily

(Observer-BUL)

CLANDESTINE—MIDEAST 3915.1, *Voice of Komala*, 0350-0430*, Feb 16, drift from usual 3928! Political talks in Farsi mentioning Kurdistan and the state of the Democracy in Iran, Komala also mentioned. Jammed by Iran, martial song, ID, heard // 4610.

3970.0, *Voice of Iranian Kurdistan*, Al-Sulaymaniyah, Northern Iraq, 1550-1603*, Feb 18, Farsi talk, Kurdish folksong, closing ann; jump from 3975.

4158.5, *Voice of the Conservative Party of Kurdistan*, Northern Iraq, 1605-1700*, Feb 18, Kurdish (tentative) talk and songs, 1630 Arabic talks, martial music, ID 1656, signed off with a song, 24232 (Anker Petersen, Denmark, DSWCI DX Window Feb 25/DX Listening Digest/Hauser-OK)

4162.6v, 0320-0430 (fade out), 24-01, *Voice of the Conservative Party of Kurdistan*, Kurdish Qur'an recitations, 0330 ID and news in Kurdish, Kurdish songs, 0400 talk about Iraq in what to me sounded more like Farsi than Kurdish! During the listening the frequency drifted slowly down to 4159.7. (Petersen-DEN/DX Listening Digest/Hauser-OK)

COLOMBIA 5019.64 *Radio Net*, Quibdo, Jan 27 0330 UT This is a very rare station but has been active all this Monday evening with as always news program. Remember that they all the time have news from different "Radio Caracols" around the country. Stable but not very good signal here in Quito. (Malm-ECU/DX Listening Digest/Hauser-OK) Was Ecos del Atrato (gh, DXLD)

CONGO—DEMOCRATIC REPUBLIC 5066.3, 1635, *La Voix du Peuple*, Bunia with mostly talk in native language, this day sign off at 1710, some other day later. (Rahall-SWE, SW Bulletin Feb 8, Nilsson/DX Listening Digest/Hauser-OK)

CUBA *Radio Havana Cuba* on new 9570, in Spanish closing at 1455 Feb 10, // stronger 9550, also found on 11760, 11800 big hum and co-channel Chinese, and 12000. 9570 is a freq used at other times for China relays, so perhaps a mistake. Morning freqs were not announced at sign-off, but from 0000: on 15230, 11760, 11705, 9550, 6000. (Glenn Hauser-OK-USA, DXLD Feb 8/BC-DX/Bueschel-DE)

RHC is on new 9655 in English 0500-0700, // 9550 and 9820. (Glenn Hauser-OK-USA, DXLD Feb 19/BC-DX/Bueschel-DE)

ETHIOPIA 7165.41, *Radio Ethiopia*, 2/13, 1442-1500*. Nice HoA tunes, M in Arabic; closing at 1459:45 with several mentions of "Addis Ababa." Good signal with 7160 splatter, // 9560.4, which was very good. (Wilkins-CO, Cumbre DX/DX Listening Digest/Hauser-OK)

GERMANY *Pan American Broadcasting* change via Juelich:

1400-1430 Persian 13605 Sa
1430-1500 English 13605 Sa

Frequency changes for *Brother Stair TOM* via Juelich:

1100-1200 NF 9480, ex-9485
1100-1200 13850

Additional transmission for *Universelles Leben* in German:

1200-1300 6015 WER Sa

(Observer-BUL)

INDIA With effect from 14 Jan, our [4760] transmitter has increased power to nearly 8.5 kW (QSL letter from K. S. Venkateswarlu, Station Engineer, AIR Port Blair, 20 Jan, via Jose Jacob, dx_india Feb 5/DX Listening Digest/Hauser-OK)

INDONESIA 3266.42 *RRI Gorontalo*(p) 1325-1338*, M&W talking, with voices in the background, seemed to be live coverage of an event or remote bcst; back to studio at 1337 with mention of "Gorontalo;" this must have been close-down anmt, since the stn left the air at 1338 after a few bars of vocal music. Fair on a noisy band. (Wilkins-CO 2/24/Cumbre DX/Johnson)

3325 *RRI Palangkaraya*(p) 1351-1413, EG R&B tunes; M ancr at 1359, followed by local IS at 1359:30, consisting of several notes on organ(?), repeated 3 or 4 times; 1400 possible ID, then apparent regional news, with mention of "berita" and multiple mentions of "Kalimantan" in the next few minutes; musical selection at 1410. Fair at tune-in but deteriorating by 1410. (Wilkins-CO 2/24/Cumbre DX/Johnson)

3960.86, *RRI Palu*, 1145-1235, Feb 06, Bahasa Indonesia, 1200-1232 relay of RRI Jakarta "Dynamika Indonesia", 1235 local ID. Transmitter problems noted. (Schulze-PHL, DSWCI DX Window Feb 25/DX Listening Digest/Hauser-OK)

4000.10, *RRI Kendari* 1025-1041 Noted a woman in Indonesian Language news with many mentions of Jakarta. At 1040 brief music and more comments. (Bolland-FL, February 3/Cumbre DX/Johnson)

RRI Fak Fak steady on 4790 kHz which seems to be a new transmitter because I haven't heard them this regularly at this strength in many years. Fair at 1200 but swamped by Azad Kashmir Radio at 1430. (Victor A. Goonetilleke-CLN 4S7VK, DXplorer Feb 14/BC-DX/Bueschel-DE)

4869.98 at 0920 **RRI Wamena**. "Inilah la programa satu Radio Republik, Wamena," at 0928 ID by male and female, IS five time pips.

4870.87 at 0931, **RRI Sorong**, Islamic songs, "evening prayer" at 0934 UT. ID 2 times, by female. "Radio Republic Sorong, programa satu," best usb. (Roland Schulze-Pangasinan-PHL, Feb 8/10/BC-DX/Bueschel-DE)

RRI Jambi 4925 kHz at 2300 past 0000 when it starts to fade out with local sun rise. Good signal. However, not heard in the Asian evenings. (Victor A. Goonetilleke-CLN 4S7VK, Feb 19/BC-DX/Bueschel-DE)

9552.3, **RRI Makassar**, -0758*, Feb 4, Bahasa Indonesia, ID.

9743.2, **RRI Sorong**, -0754*, Feb 4, Bahasa Indonesia, ID. (Schulze-PHL, DSWCI DX Window Feb 25/DX Listening Digest/Hauser-OK)

IRAN New updated schedule for **VOIRI/IRIB** according to monitoring on Jan.26-Feb.1

0000-0330	Arabic	9935
0030-0130	Bengali	5905 6185
0030-0130	Spanish	6015 7220 9555
0100-0230	Tajik	5950
0130-0230	Kazakh	9855 9880
0130-0230	Spanish	6015 9555 9750
0130-0230	Urdu	6010 6190 7210
0230-0300	Uzbek	5950
0230-0300	Hindi	15165 17635
0230-0330	Spanish	9750
0230-0330	Pashto	6095 9525
0300-0330	Armenian	7295
0300-0330	Russian	6040 7225
0300-0630	Dari	13740
0330-0430	Swahili	13640 15260
0330-0430	Arabic*	7250 9505 9935
0330-0530	Kurdish	13720
0330-0530	Azeri	11720
0430-0530	Arabic	9935 13790
0430-0600	Turkish	15260 15365
0500-0530	Russian	12025 15530 21480 21610
0530-0630	Spanish	15320 17590
0530-0630	Bosnian	15235 17680
0530-1030	Arabic	13790 15545
0600-0700	Hausa	17810 21810
0630-0730	Albanian	15235 17680
0630-0730	French	21645
0730-0830	Pashto	15440
0830-0930	Swahili	17660 21530

0830-0930	Bengali	9565
0830-1200	Dari	13720
0930-1000	Armenian	9695 15260
1030-1130	English	15480 15550
1030-1630	Arabic	15545
1200-1300	Chinese	9895 11670 13645 15150
1200-1500	Dari	9910
1230-1330	Pashto	9790 11870 13720
1230-1330	Malay	15200 15275
1300-1400	Kazakh	11745 13755
1330-1430	Urdu	9835 11950 13595
1330-1430	Kurdish	13790
1430-1530	Bengali	9545 9565 11850 15415
1430-1530	Hindi	11640 11840 13745 15490
1430-1530	Pashto	3965 7270
1430-1530	Russian	7165 9575 9735
1430-1630	Kurdish	9485
1430-1700	Azeri	6220
1500-1600	Uzbek	5955
1530-1630	English	7190 9610
1530-1730	Urdu	3965 7270
1600-1730	Tajik	5955
1600-1730	Turkish	7125 9735
1630-1730	Armenian	6185 7230
1630-1730	Persian	7350.0/4
1630-1730	Pashto	6005 6015
1630-1900	Arabic	3985 9935
1700-1800	Russian	6035 7170
1730-1830	Bosnian	7295 11660
1730-1830	Swahili	9595 11750
1800-1900	Russian	6035 7305
1830-1930	French	9565
1830-1930	Albanian	6100 7165
1830-1930	Hausa	7335 9775
1900-1930	Arabic	9935
1900-1930	Hebrew	3985 7120
1930-2030	Arabic*	9935
1930-2030	English	11695 15140
1930-2030	Russian	3985 7205
2030-2130	Spanish	7130 9750
2030-2130	Persian	7350.0/4
2030-2130	Albanian	6100 9740
2030-2400	Arabic	9935
2130-2230	Bosnian	7235 9710
2230-2330	Malay	9690 11895
2330-0030	Chinese	7130 7325 9635

* Voice of Islamic Palestinian Revolution (Observer-BUL)

KOREA—NORTH Voice of Korea B-03 schedule:

0000	Korean-2	6195 7140 9345
0000	Spanish	6520 7580 11735
0000	Chinese	9325 11335
0100	English	6195 7140 9345
0100	English	6520 7580 11735
0100	French	9325 11335
0200	English	9325 11335
0200	Spanish	6520 7580 11735
0200	Chinese	6195 7140 9345
0300	Chinese	9325 11335

0300 English 6195 7140 9345
 0300 French 6520 7580 11735
 0700 Korean-2 7140 9345
 0700 Russian 9975 11735
 0700 Russian 9325 11335
 0700 Japanese 3250 6520 7580
 0800 Japanese 3250 6520 7580
 0800 Russian 9975 11735
 0800 Chinese 7140 9345
 0800 Russian 9325 11335
 0900 Korean-1 7140 9345
 0900 Korean-2 9975 11735
 0900 Korean-2 9325 11335
 0900 Japanese 3250 6070 6520 7580
 1000 English 9335 11710
 1000 English 9850 11735
 1000 Japanese 3250 6070 6520 7580
 1000 Korean-2 7140 9345
 1100 Chinese 7140 9345
 1100 French 9335 11710
 1100 French 9850 11735
 1100 Japanese 3250 6070 6520 7580
 1200 Korean-1 9850 11735
 1200 Korean-2 7140 9345
 1200 Korean-1 9335 11710
 1300 English 9325 11335
 1300 English 9335 11710
 1300 Korean-2 6575 7505
 1300 Chinese 9850 11735
 1400 French 9325 11335
 1400 French 9335 11710
 1400 Korean-1 9850 11735
 1400 Russian 6575 7505
 1500 English 9325 11335
 1500 English 9335 11710
 1500 Russian 6575 7505
 1500 Arabic 9975 11735
 1600 Deutsch 6575 7505
 1600 English 9975 11735
 1600 French 9325 11335
 1600 French 9335 11710
 1700 Korean-1 9325 11335
 1700 Korean-1 9335 11710
 1700 Russian 6575 7505
 1700 Spanish 9975 11735
 1800 French 9660 11710
 1800 French 9975 11735
 1800 Spanish 9325 11335
 1800 Deutsch 6575 7505
 1900 Arabic 9975 11735
 1900 Arabic 9660 11710
 1900 English 9325 11335
 1900 German 6575 7505
 2000 Korean-1 9660 11710
 2000 Korean-1 6575 7505
 2000 Korean-1 9975 11735
 2000 French 9325 11335
 2100 Chinese 9975 11735
 2100 English 9325 11335
 2100 Japanese 3250 6520 7580

2100 Chinese 7140 9345
 2200 Chinese 7140 9345
 2200 Chinese 9975 11735
 2200 Spanish 9325 11335
 2200 Japanese 3250 6520 7580
 2300 Korean-1 7140 9345
 2300 Korean-1 9325 11335
 2300 Korean-1 9975 11735
 2300 Japanese 3250 6520 7580

Korean-1 - KCBS
 Korean-2 - PBS

(Arnulf Piontek-D, three updates by RP=Rumen Pankov-BUL, BC-DX Feb 19)

LIBERIA On 2 Feb at 1545 tune in heard *Voice of Liberty* in Monrovia on 11514.4 with fair signal. Later the reception improved and it was audible past 1800, but their audio was distorted at times. Sounds like they announce "LCBN Radio" but use also "Voice of Liberty" name. Their FM frequency is 102.3 and also shortwave was mentioned. (Savolainen-FIN/Cumbre DX/Johnson)

MALAYSIA RTM Radio 6 in Tamil seems to have been off 4845 for at least the last few days. *Radio Satu* in Malay is still heard with good reception on 5965v; *Radio 4* in English is strong on 7295 kHz but often with poor to unintelligible audio and frequent audio breaks at the moment. *RTM Radio Malaysia Sarawak* was heard around 0100 29 Jan in Iban on 7270 and tentatively in parallel on 6050, and also signing on at 0100 with programs for schools on 7130. I have been unable to hear Sarawak on 4895 and 5030 kHz on a couple of not very thorough checks during the past week. Regards from Indonesia, (Alan Davies, Jan 29, Cumbre DX/DX Listening Digest/Hauser-OK)

MYANMAR 5770, Defence Forces Broadcast Station heard 1610 January 15th only just above threshold level with chanting, better but still poor level 1623 recheck, Western style romantic song, announcement by lady, brief piece of Asian instrumental music on keyboards and apparent off 1630. Best on USB with UTE QRM. (Barraclough-UK, Feb World DX Club Contact/DX Listening Digest/Hauser-OK)

NAMIBIA 6060, NBC Windhoek has been inactive for about 2 weeks (Korinek-RSA, Dxplorer, Feb 05, DSWCI DX Window Feb 11/DX Listening Digest/Hauser-OK) DXLD)

NEPAL Radio Nepal appears to be on a standby transmitter on 5005.3 kHz about 5 kW with the 100kW giving problems I presume. The station was off the air for a few days in late January. (Victor A. Goonetilleke-CLN 4S7VK, DXplorer Feb 10/BC-DX/Bueschel-DE)

PAKISTAN Winter B-03 schedule of *Radio Pakistan*:

0045-0115	Assami/En	9340v 11565
0045-0215	Urdu	15485 17895
0115-0200	Bangla	9340v 11565
0215-0300	Hindi	9340v 11565
0315-0345	Tamil	15625v 17495
0400-0430	Gujarati	15485 17825
0500-0700	Urdu	11570 15100 17835
0800-1105	Urdu/English	17835 21465
0945-1015	Tamil	15630v 17485
1015-1045	Sinhala	15630v 17485
1100-1145	Hindi	9340v 11565
1200-1230	Chinese	11570 15070
1200-1245	Bangla	11565 15630v
1245-1315	Nepali	11565 15630v
1330-1400	Turki	5865v 7375
1330-1530	Urdu	11570 15065
1415-1500	Russian	7375 9380.6v
1515-1545	Dari	4955 5865.6v
1600-1615	English	9395 11570
1630-1700	Turkish	7550 9385v
1700-1900	Urdu	9395 11570
1715-1800	Persian	5845v 7550
1800-1900	Urdu/Islambd	6785
1815-1900	Arabic	6220v 7550
1915-0045	Urdu	7570v

(Observer-BUL)

5990, *Voice of Jammu Kashmir Freedom*, *0230-0400*, operated by Harkat ul Mujahhideen as listed in WRTH 2004 on page 579 is noted as follows with this new morning broadcast. It has been operating for a long time near 5101 at 1300-1430. This transmission is from Pakistan (as per WRTH 2004) and has lot of hum which is also noted on the new freq of 5990. With my slight understanding of the lang coupled with poor quality reception, I notice that the opening annt at 1300 tells it as the 3rd transmission. So there seems to be a new afternoon broadcast also. (Jose Jacob-IND VU2JOS, DXIndia, Feb 10/BC-DX/Bueschel-DE) It is probably on 7230 at 0745- 0845 in Urdu. (Anker Petersen/BC-DX/Bueschel-DE)

PERU 4428.1, *Radio Bambamarca*, 1034-101046, OA campo harp mx at t/in. Nice ID by live M during short anmnt at 1036, unfortunately I already left for work and the rx was slightly mistuned!! More mx, until another anmnt by same M at 1041 including ID, back to mx. 1044 M again w/TC repeated and another beautiful short ID anmnt. Mx continued. Pretty nice signal on good OA opening, however there was SSB traffic and radar sweeper QRM. (Valko 5 Feb./Cumbre DX/Johnson)

5115.80 *Radio Naylamp*, Lambayeque noted with very good audio and also very frequency stable. (Malm-ECU, SW Bulletin Feb 22, translated by Nilsson/DX Listening Digest/Hauser-OK)

5470.78 *Radio San Nicolas*, 1107-1120 Feb 3. Noted Spanish comments from a man. At 1108 canned ID given as "...Radio San Nicolas..." a couple of times. Afterwards Huaynos music presented with the usual intros. Signal was poor. Note: There's a sound bite of the above mentioned ID on my web page at: <http://www.orchidcitysoftware.com/IMAGE2.HTML> It is number 17 at the bottom of the page (Bolland-FL/DX Listening Digest/Hauser-OK)

PORTUGAL Frequency changes for *RDP* special transmission to Venezuela/USA/CAN:

1300-1700	ADD 15575
1300-1800	ADD 17745 Sa/Su
1300-2100	DEL 15540 Sa/Su
1300-2100	DEL 17745 Sa/Su
1300-2400	DEL 15540 Mo-Fr
1700-1900	ADD 17825
1800-2400	ADD 15450 Mo-Fr
1900-2400	ADD 15540
2000-2400	DEL 13770

(Observer-BUL)

RUSSIA *Radio Voice Of Russia* for March (from sked issued last year, probably completely useless by now, but this is what they said March would look like):

0000-0100	Portuguese	9965 7570 7390 7330
0100-0200	Spanish	9965 7570 7390 7330
		7180 7125 6195 5945
0200-0300	Russian	6115 7330 7260 6195
0200-0300	English	15595 15445 9765 7180
		6155 5995
0200-0300	Spanish	9965 9945 7570 7390
		5945
0200-0400	Russian	13665 12010 7125 7240
0300-0400	Russian	7330 7260 6115 5995
0300-0400	English	15595 15445 7180 7350
		6155
0400-0500	English	15595 15445 12010 7350
		7180 7125
0500-0600	English	15595 15445 12010 7180
		7125
0600-0800	English	21790 9860
0800-0900	English	21790 17665 17525
		17495
0900-1000	English	17665 17525 17495
1000-1100	Korean	6170 3955
1000-1100	Russian	11770
1000-1100	German	15540 12010
1000-1200	Russian	11770
1100-1200	Chinese	6170 6145 5930
1100-1200	Russian	11770
1200-1300	Vietnamese	17570 6205
1200-1300	Urdu	15490 11500 9800 7350
1200-1300	Korean	9450 5920 3955
1200-1300	Japanese	6170
1200-1300	Chinese	7305 6145 5930
1300-1400	Hindi	11500 9800 7350
1300-1400	Russian	6185

1300-1400	Mongolian	7305 5930	1800-1900	Russian	7170 5995
1300-1400	Russian	17570 9450 7365 7260 6145	1800-1900	English	11510 9830
1300-1400	Japanese	6170 5920	1800-1900	French	7340 7335 5940
1300-1400	Russian	17570 7365 6185	1830-1900	Norwegian	6175 5950 Tu/Th
1300-1400	Chinese	7215	1830-1900	Swedish	6175 5950 Mo/We/Fr
1300-1500	Dari	11655 9885 4975 4965 4940	1845-1930	Czech	7380 7310 6030
1300-1500	Russian	7155	1900-2000	Russian	7445 7170 5895
1300-1500	Pushtu	11655 9885 4975 4965 4940	1900-2000	German	7300 6145
1400-1500	Urdu	11500 9800 7350 7305	1900-2000	Greek	9830 7420 7350 6000 5920
1400-1500	Chinese	7215	1900-2000	Arabic	9480 7510 7130 6170
1400-1500	Russian	17570 9900 9450 7365 7260 6205 6185 5895	1900-2000	French	7390 7320 5940
1500-1530	Hindi	9885 9800	1900-2000	French	7390 7370 7340 5940
1500-1600	Russian	7445 7365 7170 6185 5995	1900-2000	Russian	7170 5895
1500-1600	English	11500 9900 7350 7260 6205	1900-2000	English	11510 7360 7335 7290 6235 6175
1500-1600	Turkish	9830 9470 6005	1930-2000	Slovak	7380 7310 6030
1500-1600	Russian	9555 7170 5895	2000-2100	Russian	7445 7360 7310 6170
1500-1700	Persian	9840 7510 5935 5925	2000-2100	English	7340 7290 6235 6145
1530-1600	Bengali	9885 9800 7305	2000-2100	Russian	7445 6170 5975 5965
1600-1630	Albanian	7440 7370 5920	2000-2100	French	9480 7390 7370 7300
1600-1700	Russian	7445 7170 5895	2000-2100	Bulgarian	6000
1600-1700	English	7260 4975 4965 4940 9900	2100-2130	Portuguese	7360 6145
1600-1700	German	7300 6145	2100-2200	English	7340 7300 6235
1600-1700	English	9830 6005 4975 4965 4940	2100-2200	Russian	7445 5990 5975 5965
1600-1700	Russian	6185 5995	2100-2230	Serbo-Croat	6000
1600-1700	Arabic	9470 7215 5905	2130-2200	Spanish	7360 6145
1600-1700	Russian	7170 5945	2200-2300	Russian	7140
1630-1800	Serbo-Croat	7440 7370 5920	2300-0000	Arabic	6175
1700-1800	French	11510 7390 7335 5940 9830	(via Pavel Mikhaylov-RUS, WWDXC TopNews Dec 15, 2003/BC-DX/Bueschel-DE)		
1700-1800	English	7390 7340 5940	Voice of Liberty in Tigrina/Arabic via SAM:		
1700-1800	French	5945 5910	0400-0500 15675 Su		
1700-1800	Arabic	9840 7510 7130 6090 6005 5935	(Observer-BUL)		
1700-1800	German	7300 7290 6145	The alleged SW transmissions of Radio Tsentr are definitely non-existent. Vladimir Tarbayev, station manager of Radio Tsentr, has meanwhile commented on the guzei.com website on the originally posted item and called it a "provocation." (Trutenau-LTU/Cumbre DX/Johnson)		
1700-1800	Romanian	7420 7380	SOMALIA Radio Shabelle , Mogadishu, Somalia. Thanks to a tip by Chris Greenway in DXLD, on 25 Feb I checked 6961 at 2020 and heard HOA music and apparently Somali talks. Signal was good, but strong utes both sides made it difficult to copy. At that time I had no time to await the utes' sign-off, so no positive ID (Jari Savolainen, Kuusankoski, Finland/DX Listening Digest/Hauser-CK) Radio Shabelle has a website with archived audio and an "About Us" page in English—click on the PROFILE button at www.shabele.com (Dave Kernick/hardcore dx)		
1700-1800	Russian	7445 7170 6185 5995 5895			
1700-1800	Russian	7170 5895			
1800-1830	Finnish	6175 5950 Mo-Fr			
1800-1845	Hungarian	7380 6030			
1800-1900	Italian	9450 7390 7230			
1800-1900	Russian	7360			
1800-1900	Arabic	9480 7510 7130 6090			
1800-1900	Polish	7215			
1800-1900	Russian	7170 5895			
1800-1900	German	7300 6235			
1800-1900	English	5910			
1800-1900	Russian	5895			
1800-1900	Bulgarian	7440 7420 5920			
1800-1900	English	7290 6175-Sa/Su 5950-Sa/Su			
1800-1900	Russian	7445			

QSLed the old transmitter on two different channels, 4850 & 4996 kHz. The new channel is 4900 kHz (Padula-AUS, AWR Wavescan Feb 8 via Norfolk/DX Listening Digest/Hausser-OK) DXLD) As usual, no credits; I think the bit about the 6-element log periodic came from only one reporter, as previously published and credited in DXLD. Don't you believe 4900—it's 4990, tho I have not seen any reports of it lately. Is it still being heard? (gh, DXLD)

SWEDEN Frequency change for *Radio Sweden International* in Swedish:

0700-0910 NF 9490, ex-13790 // 6065
(Observer-BUL)

THAILAND Winter B-03 of *Radio Thailand*:

0000-0030	English	9680
0030-0100	English	13695
0100-0200	Thai	13695
0300-0330	English	15460
0330-0430	Thai	15460
0530-0600	English	13780
1000-1100	Thai	7285
1100-1115	Vietnamese	7305
1115-1130	Khmer	7305
1130-1145	Lao	6040
1145-1200	Burmese	6040
1200-1215	Malaysian	11805
1215-1230	Indonesian	11805
1230-1300	English	9810
1300-1315	Japanese	7160
1315-1330	Mandarin	7160
1330-1400	Thai	7160
1400-1430	English	9560
1800-1900	Thai	11855
1900-2000	English	9535
2000-2015	German	9535
2015-2030	French	9535
2030-2045	English	9535
2045-2115	Thai	9535

(Observer-BUL)

UKRAINE Frequency change for *RUI* in Ukr/En/
Ukr/Ukr/En:

0000-0500 NF 5910 (ex-5905)
(Observer-BUL)

UNITED ARAB EMIRATES/SOUTH AFRICA EDC

Somali program "Al-Mustaqbul"/"Future:"

0630-0700 17565-DHA Mo/Tu/Th
1200-1230 17565-MEY Mo/Tu/Th

(Observer-BUL)

UNITED STATES Frequency changes for *Radio Liberty*:

0500-0600	CeAsia*	NF 9770, ex-11815 // 9575 11785
1400-1500	Turkmen	NF 13615, ex-9565 // 12025 15345

1530-1600	Georgian	NF 11770, ex-9880 // 9745 13645
1900-2000	Moldovian	NF 3965, ex-7170 mo-Fr / / 9725

*Avari/Chechen/Cherkessi (Observer-BUL)

Voice of America changes:

1600-1630	Armenian	4810-ERV // 7240 11680 13865
2300-2400	English	NF 11655-UDO, ex-11735 (Observer-BUL)

On February 27, *Voice of America* ended regularly scheduled programs in Bulgarian, Estonian, Czech, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovak, and Slovenian. From March 1, Ukrainian is cut in half, down to one hour daily. (Dan Robinson, VOA/DX Listening Digest/Hausser-OK)

I received a letter today from the Station Manager at *WSHB*. Here are a couple excerpts:

"I am very sad to have to write to you today, to let you know that we will cease our shortwave broadcasts on February 29, 2004"

"We are hoping that someone will come forward and purchase the station so that we may continue our broadcasts, but so far we have not found anyone. Should we be successful in finding a buyer, I will let you know as soon as I can." (Johnson/Cumbre DX)

VIETNAM *Voice of Vietnam* Hanoi B-03 winter schedule, incl. recent changes:

0000-0030	Cambodian	7285
0000-0100	Vietnamese	7280 9730
0030-0100	Lao	7285
0100-0130	English	6175 Sa
0130-0230	Vietnamese	6175 Sa
0230-0300	English	6175 Sa
0300-0330	Spanish	6175 Sa
0330-0400	English	6175 Sa
0400-0500	Vietnamese	6175 Sa
0830-0930	Mandarin	9840 12020
0930-1000	Indonesian	9840 12020
1000-1030	English	9840 12020
1030-1100	Indonesian	9840 12020
1100-1130	Spanish	7280 9730
1100-1130	English	7285
1130-1200	Thai	7285
1130-1200	Russian	9840 12020
1200-1230	Cambodian	7285
1200-1230	Japanese	9840 12020
1230-1300	English	9840 12020
1230-1300	Lao	7285
1300-1330	Russian	7285
1300-1330	French	7280 9730
1330-1400	Cambodian	7285
1330-1400	English	7280 9730
1400-1430	Japanese	9840 12020

1400-1430	Lao	7285
1430-1500	Cantonese	7285
1430-1500	Indonesian	9840 12020
1500-1530	Mandarin	7285
1500-1530	Thai	9840 12020
1530-1600	Cantonese	9840 12020
1600-1630	English	7280 9730
1630-1700	Russian	7280 9730
1700-1800	Vietnamese	7280 9730
1800-1830	English	5955Mos 7280 9730
1830-1900	French	7280 9730
1830-1930	Vietnamese	5955Mos
1900-1930	English	7280 9730
1930-2000	French	5955Mos 7280 9730
2000-2030	Spanish	7280 9730
2000-2030	Russian	5970Skn
2030-2100	English	7280 9730
2030-2130	Vietnamese	5970Skn
2100-2130	French	7280 9730
2130-2200	Japanese	9840 12020
2200-2230	Mandarin	9840 12020
2230-2300	Cantonese	9840 12020
2300-2330	Thai	9840 12020
2330-0000	English	9840 12020

A-04 changes: 11630 replaces 7280, 13740 replaces 9730, 9725 (x1800-2130 x5955, x5970) 1700 En, 1730 Vietn, 1830 Fr, 1900 Ru, 1930-2030 Vietn.

Mos = Moosbrunn-AUT

Sa = Sackville-CAN

Skn = Skelton-U.K.

(VoVTN leaflet via Rumen Pankov-BUL, Feb 19/BC-DX/Bueschel-DE)

ZAMBIA A summary of a few things recently observed in Zambia:

Radio 1 heard on 5915 at 0515-1555 (note these times differ slightly from in BDXC African guide), and on 4910 before and after those times. **Radio 2** heard on 6165 throughout.

I thought Zambia had left mediumwave for good a few years ago, but discovered that the last remaining ZNBC MF transmitting station is still going at Livingstone on 729 (Radio 1) and 927 (Radio 2). (Chris Greenway-ZMB, BrDXC-UK Feb 19/BC-DX/Bueschel-DE)

ZIMBABWE Good signal from Zimbabwe on 3306 from around 1645 fade in to fade out at 0145 or so with sunrise in Sri Lanka. This is the vernacular Service. Very strong at 0045 over 3320 S.Africa. Nice afro mx. (Victor A. Goonetilleke-CLN 4S7VK, DXplorer Feb 14/BC-DX/Bueschel-DE) Running on both 3306 // 4828 with African Service, past 2000 to-night 19/2. (Victor A. Goonetilleke-CLN 4S7VK/BC-DX/Bueschel-DE) After being heard on 3306 last weekend, the **ZBC** then reverted to using 6045 throughout, with no switch to 3306 at night observed all this past week. Operations on 6045 are erratic, with the transmitter often noted off the air. (Greenway-ZAM, Feb 14/DX Listening Digest/Hauser-OK) Reactivated 3306 from ZBC noted with excellent reception from tune in 0040 UT on Feb 15 in local language and with a very nice selection of African pop tunes. No ID or news at 0100—but 0101 song about Zimbabwe. At 0109 clear ID as "Radio Zimbabwe." Best reception in LSB and frequency around 3306.005 kHz. (Nielsen-DEN/DX Listening Digest/Hauser-OK)

4828 **ZBC**. As I suspected other frequencies may come back on line, found this one first noted around 0010 with talk by M, Hi-life music. George Maroti and I discovered this was carrying the same program as 3306 but with a 1:40 second delay (trx George!!). Very short announcement at 0022, more music, with very short live announcements. Went over 0100 ToH with just music. 0159 unreadable canned announcement by M over music. ID at 0259 by M in English, W promo in African language mentioning FM. choral NA at 0300. Noted both this and 3306 playing NA at 0301, but they weren't // 21 Feb. (Valko-PA, Cumbre DX/DX Listening Digest/Hauser-OK) (Valko-PA, Cumbre DX/DX Listening Digest/Hauser-OK) 

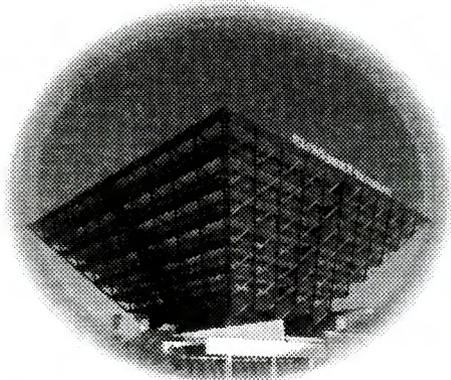
RADIO SLOVAKIA INTERNATIONAL

5 Yrns leaflet of foreign broadcasting



Address:	Telephone:	Fax:
SLOVENSKÝ ROZHLAS	Editor - in - chief 0421 74313 730, 731	0421 7/ 396 282
Radio Slovakia International	Senior secretary 0421 74313 734	0421 7/ 398 247
Hytina 1	Slovak Section 0421 74313 747, 748	0421 74313 726
PO Box 55	English Section 0421 74313 736, 737	
812 90 Bratislava	German Section 0421 74313 739, 740	
Slovak Republic	French Section 0421 74313 872	
	Russian Section 0421 74313 728, 729	

E-mail: hradio_slovakia@sloradio.sk
http://www.sloradio.sk/rsi.html



Pirate Radio Report

Chris Lobdell • P.O. Box 146 • Stoneham, MA 02180-0146 • clobdell@comcast.net

Hello and welcome to the March edition of the *Pirate Radio Report*. Thanks to George Maroti, we have lots of Europirate news to report.

SWL Winterfest Is Almost Here

Yes, it's time for all those radio enthusiasts to converge on the tiny village of Kulpsville, PA for this year's event. There's still time to attend as walk in registrations will be accepted. What you may not get is a room at the Best Western, but there are other accommodations in the area. I'll see you there! One avid reader of this column pointed out that I forgot to mention *Joe Hanlon* as one of the notable people you'll want to meet.

Keep An Ear On 3927 kHz!

This frequency has been the spot to log the Dutch Europirate **Radio Spaceman** on Saturday nites. They have been logged in Eastern North America twice there over the past few weeks. See George Maroti's log in this issue.

Loggings

Thanks to John Fisher-MA, George Maroti-NY and George Zeller-OH.

Big Thunder Radio. Logged on 6925 kHz USB at 0244 s/on with a program of rock music on Feb 21st. Announced as a test. [Zeller-OH]

Radio Free Speech, was logged using their Grenade transmitter on 6950.5 AM from 0136 to 0233* on Feb. 22nd with of program of comedy. Station bumper stickers were offered in response to reception reports. [Zeller-OH] I wonder if Bill O. Rights will make it to this year's Fest?

Radio La Nave Kosmos (via the Andino Relay Service), a South American pirate was noted from 0057 to 0201 sign off on Feb 22nd. Started with Andean flute music, possible ID at 0100. Processed OM voice at 0112. Flute music again at 0158, possibly "El Condor Pasa". Different OM at 0200, carrier off at 0201. SINPO 14231. [Maroti-NY]

Radio Pirana Internacional, a Spanish [?] Europirate was logged on 6307.5v kHz from 0606-0727 UTC on Feb 22nd. The highlight of the night for me. Weak at tune-in, but by 0621 I could recognize the Beatles "Love Me Do" and "She Loves You". ID at 0626. Signal improved a bit to 23442. Already received a QSL from Jorge Garcia via Messenger Chat in less than 3 seconds; the time it took him to type "yes I QSL". Audio cut out due to computer UPS problem at 0706, signal still audible at 0727. [Maroti-NY]

Radio Spaceman, as mentioned earlier was noted on 3927 kHz from 2150-2332 UTC on Feb 21st. Incredible conditions, as I heard Jimi Hendrix at tune-in, 40 minutes before sunset in Mount Kisco, NY. Later, greetings to Jerry Berg and myself. "We Love the Pirate Stations", Jonathan Richman's "Roadrunner", and a Hank Williams song. Signal improved to 33443. Even the US hams were commenting on the programming. [Maroti-NY]

WBST, possibly a new one, but there was a WBST back in the 80s. Noted on 6950 kHz from 1502-1523* on Feb 21st. At tune-in, heard a movie trailer (first thought it was a radio drama) and a snippet of James Bond music. Brief AC/DC clip at 1515 UTC, then the trailer for "Last House on the Left". ID at 1521: "At this time WBST comes to the end of another broadcast real fast", followed by atmospheric music with laughter. Carrier off at 1523. SINPO 34444. [Maroti-NY]

WHYP-The James Brownyard Memorial Station. Do they still call themselves that, or is it just WHYP these days? George heard them at 2300 to 0132 s/off on Feb 21st-22nd on 6925 kHz USB. Rock, c&w music including the "Zeller Mash". Live TCs and a email address of: Whyp6925@hotmail.com. [Zeller-OH]

Same, with a very good signal in beautiful downtown Chelmsford, MA. [Fisher-MA]

Happy Pirate DX!



QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

Radio Melodia S.O.

A.M. 1500 Kz. - F.M. 104.5 MHz. - Ochoa Carta 9998 Kz. 49 wts.
San Carlos 1970CA Comodoro. Telco. 220071 - 222207 Telefax 054-204420
Aracaju, 13 April of 2003

Mr:
George Glatzsch
Austin TX
New Mexico

Glatzsch

Dear friend, we just have received your letter or reception DX report. We appreciated your time trying to listen our Radio Station Radio Melodia S.O.

The radio has 30 years in AM, 18 years in FM and you have already checked the short wave in the frequency 5,995 kilohertz band of 49 m. (Antenna in 1000 wats)

The city is Aracaju, in south Park, above our sea level is 2460 mt. We have many volcanos, but there is 3 min of them starting from 4,000 to 6,000 high of altitude the city is from to them. There are around 1 million people and the weather is very dry. It's sunny every day but is cold at the night.

What about the radio station, there is around 37 radios in FM and 18 in AM, and just 2 in short wave. Plus infomul FM not legal or pirated, our FM is in third place (3,000 wats). Radio Melodia in AM, (8,000 wats) is very popular during all this years because the audience is always in the 1st or 2nd place in the rating including FM's. The principal news program starts since 1:00 we until 10:00 am. and at noon, evening etc.

We are sending a sticker from Radio Melodia FM with the doggie face logo. Thank you for your Report.

This is a Listener Verification QSL Card
From RADIO MELODIA (PERU) to GEORGE L. GLOZTSCH

DATE: 20th OCTOBER 2001. FRIENDLY REMINDER # 3

H. Luzman
H. Luzman
Manager of Radio Melodia

AUSTRALIA: Voice International 15165 via Darwin f/d cd. in 36 ds. for a taped rpt. and \$1.00. (Klinck-NY). 7245 f/d "Antenna" cd. w/ personal note from Kellie who said her parents had visited Kansas. All in 1 mo. (Craighead-KS)
* **The Voice** 13635 via Darwin f/d "Sunrise/Sunset" cd. w/ schedule, personal ltr. and photos in 10 mo. The station has just begun to issue QSL cds. Addr: Post Box-1, Kangra Himachal-176001, India. (Craighead-KS). HCJB photo of studio cd. in 1 wk. (Field-MI).

BONAIRE: Adventist World Radio 6165 via Bonaire f/d cd. w/ calendar and stickers in 2 mos. (Craighead-KS). f/d cd. of "Noah's Ark" w/ site and power, pocket calendar and stickers in 89 ds. for 1 IRC. (Barbour-NH).

BRASIL: Radio Guaraja 5045 f/d prepared cd. w/ "Certificado de Sintonia" ltr. w/ 1 large sticker and 4 smaller ones, a station info. sheet and a tourist brochure in 16 ds. for ms., \$1.00 and SASE (neither used). The address label was used. I also sent them about a dozen used American stamps. They glued 9 of them on the envelope they sent me! However, metered postage was stamped over them. v/s Orivaldo Rampazo, Director. (Sgrulletta).

Voice of America



CANADA: Akhbar Mufriha / The Joyful News Station

12025 via Sackville e-mail reply in 1 day from Andy Braio, Station Manager. My rpt. was e-mailed to the Arabic Broadcasting Service at the ABS website. Shukri Habibi at the ABS forwarded it to Andy. In the reply Andy said they usually transmit from Skelton but use Sackville this time of the year... Very interesting w/ the possible ties to Radio Ibrahim and HCJB who seems



ཁོ་ཚོ་ལོ་རྒྱུས་ལྟོས་ལྟོས་

May 13th, 2003

Dear George L. Glatzsch, *05/12/03*

This is our acknowledgment of receiving several reports from you where you have successfully reported receiving VOT-broadcasts on our shortwave frequencies. I would like to thank you personally on your reports and pictures we received here. As we don't have official QSL card, I am sending you this letter with our postal card and few pictures you can share with your family. You can learn more about our activities and general Tibet information from our website. At present we are transmitting at 1212 UTC on 21,560 & 15,660 and at 1430 UTC on 17,540 MHz.

Voice of Tibet is a unique independent radio station, the key source for Tibetans both inside and outside of Tibet to unbiased news and information. Daily we provide news related to Tibet, educational features focusing on issues like democracy, human rights, health, culture and environmental-related subjects, thus providing a lifeline for the threatened Tibetan culture and building bridges between people.

FEBA RADIO

wishes to thank you for your recent Reception Report, and has pleasure in confirming it with this Acknowledgement Card.

We hope that you will continue to enjoy listening to FEBA Radio.

QSL Secretary

This card posted from Feba's Cyprus office
PO Box 57000, Limassol, Cyprus, CY-3509
E-mail: se@feba.org.cy (Please do not attempt to use the old Seychelles address printed below).

Febe Radio closed its Seychelles transmitter site March 29 2001, and now uses transmitter space leased on other broadcast facilities. Where possible, we state the location of the transmitter site you heard below.
This is a legacy Seychelles QSL card, sent with the components of Feba's 'Spotlight' programme production dept. With the closure of Seychelles, we no longer have a QSL Secretary. Thanks again for your report.

DATE *July 1 2003*
TIME *0030-0045* UTC
FREQUENCY *9445* kHz
METRE-BAND *31* mb
TRANSMITTER SITE:
Moesbana, Auehrie.

to be keeping a low profile. But why all the CIA like operations? (D'Angelo PA)...Don't know but I was assigned to those CIA types while in Vietnam in 1970...very paranoid..Sam.

CANARY ISLANDS: Full Gospel Church Station ltr in 1 mo w/ apology for late reply. (Field-MI).

ECUADOR: HCJB 15115 2 cds. w/ schedule, calendar and a personal ltr. in 1 mo. from Karen Pederson, English Language Service. (Field-MI).

ENGLAND: Radio Telefis Eireann 6155 via Rampisham f/d "Dublin City" cd. in 17 ds. for a rpt. on their tape loop explaining the cancelled service. v/s Bernie Pope, Network Support. (Sgrulletta-NY).

EURO PIRATES: Cupido Radio 21895 p/d e-mail in 14 hours. QSL to follow.

* (Sgrulletta-NY). **Radio Spaceman 6265 f/d** green "Spaceman" cd. in 26 ds for SASE and ms. (both used). Also rcvd. personal note. (Sgrulletta-NY)

* **Radio Delta 6265 f/d** paper sheet in 18 ds. for ms. and SASE (both used)

Also rcvd. info. sheet and address labels. (Sgrulletta-NY).

GERMANY: Radio Alpha and

* **Omega 6110 via Julich** personal ltr. rcvd. w/ cd. after several tries for a 96 reception. (Field-MI).

GUATEMALA: TGMI Radio

Buenas Nuevas 4800 f/d green and white "Quetzal" cd. w/ a 2 page station history in 2 mos. v/s Julian Perez Mejia. (Craighead-KS).

HAWAII: KWHR 17780 f/d "15 Years of Shortwave Ministry" cd. in 570 ds. for \$1.00. (Barbour-NH).

HONDURAS: HRMI Full Gospel Radio 3340 f/d cd

in 16 ds. from San Bernardino, CA address. (Craighead-KS). (Craighead).

HUNGARY: Radio Liberty 9760 via Jaszbereny f/d "50 Years" cd. in 6 mo.

JAPAN: JJJ 8000 f/d "Antenna Farm" cd. in 34 mos. after a few f/up rpts.

Personal ltr. apologizes for the delay. They sent a special "Closedown" folder issued only in March 2001. The station also filled out my prepared cd. This was for \$1.00 and ms. (returned) (Sgrulletta-NY)

MALAGASY REPUBLIC: Voice of Hope 12060 and 15320 ltr. rcvd. on my 2nd try w/ apology for the delay. (Field-MI).

MOROCCO: Radio Sawa 11785 f/d e-mail reply in 1 day. (Paszkwicz-WI).

PERU: Radio Union 6115 f/d "Maroti" cd. w/ station



기독교 영인 사단의 사랑
라스팔마스순복음교회
FULL GOSPEL LAS PALMAS CHURCH

Well, I hope the information helped your habit a lot, and I also hope God blesses you on everything you do. Thank you very much for having interest on our church's broadcast and please keep interest to it. If you have more questions, please don't hesitate to ask more.

Yours faithfully,

P/S you can send e-mail to cps88@hanmail.net



JJY
標準周波数局

- Transmission site
36°11'N 138°51'E (Naseki)
- Standard Frequency
5.8, 10MHz
- Power
2kW (ALL)
- Opening
Jan. 30 1940
- Closing
Mar. 31 2001 12:00JST





QSL and a personal ltr. for a January 2000 reception. Sticker rcvd. v/s Augusto Ruiz Tello, Gerente General. Addr: Av. Jose Pardo No 138, Piso 15-1501, Lima 18, Peru. (Sgrulletta-NY). Radio Horizonte 5020 f/d "Maroti" cd. w/ n/d personal ltr. for 2 April 2001 receptions v/s Percy Chuquizuta Alvarado, Administrador. Addr: Jr. Amazonas No. 1177, Apartado 6, Chachapoyas, Peru. (Sgrulletta-NY). * Radio Difusora Comercial "Ondas Del Rio Mayo" 6797.7 f/d "Maroti" cd. w/ n/d personal ltr. for a February 2000 reception. v/s Edilberto Peralta Lozada, Gerente General. Addr: Jr. Huallaga No. 348, Distrito Nueva Cajamarca, Provincia

de Rioja, Region San Martin, Peru. (Sgrulletta-NY).....You know that you've reached the pinnacle of DXing when you have a QSL card named

* in your honor.....Radio Sensacion rcvd. my rpt. back stating that the station had moved. (Field-MI). * Radio Difusora Comercial - La Voz del Destino 6324 f/d "Maroti" cd. w/ f/d personal ltr., business card and an ad for a fortune teller. v/s Pablo Caro Davila, Gerente. Addr: Jr. Santa Rosa No. 199, Nueva Cajamarca, San Martin, Peru. (Sgrulletta-NY)... All of John Sgrulletta's QSLs are a result of Takayuki Inoue Nozaki's latest trip to Peru. Radio Reina de la Selva 5486 f/d "Maroti" cd. w/ 2 XMAS cds. v/s Jose David Reina, Gerente General. (Sgrulletta-NY). 5486.7 station signed and stamped my prepared cd. and sent a short ltr in 17 ds. v/s Jose David Reina Nirega who included several nice photographs of the city and the surrounding area. All for \$1.00. Thanks to a Maroti tip on this one. (D'Angelo-PA). Radio Virgen del Carmen 4886 f/d prepared cd. w/ personal ltr (part in English) and a postcard in 37 ds. for a SP rpt., tape and \$1.00. v/s Jose Lopez Alvarado, Director General. (Klinck-NY)...Glad I got to type your name. I was getting tired of typing Sgrulletta...Sam. 4886:7 personal ltr. w/ postcard scenes of Huancavelica. My prepared cd. was signed, stamped and returned. I sent the station \$1.00. Total return time was 33 ds. (D'Angelo-PA).



SINGAPORE: Radio Australia 9730 via Kranji cd. rcvd. after several attempts. (Field-MI). SOUTH AFRICA: Adventist World Radio 15365 via Meyerton f/d cd. w/ stickers and a calendar in 2 mos. (Craighead-KS). SPAIN: "Espanoles en la Mar" 11625 via Radio Exterior de Espana f/d ltr. w/ form ltr. w/ stickers in 16 ds. for 1 IRC. v/s Mary Cortes. Addr: Apartado 1233, 38080 Santa Cruz de Tenerife, Canary Islands. (Barbour-NH) 21610 f/d large paper sheet w/ personal ltr. in 2

W.N.K.R.

(WEST AND NORTH KENT RADIO)

Hello, Richard D'Angelo. Thank you for your reception report for our broadcast on, 12/10/03. On 6285 KHz. At 01:18 UTC.

Your report was accurate and proved you did in fact hear our station at that time.

Now some information about the station, W.N.K.R. Started broadcasting in august 1987, on 91.8 fm. But it was not until 1990 that we moved onto short wave. Throughout the 1990's we broadcast most weekends, mostly on 6400 KHz. These days we broadcast on 6285 KHz, with 20 watts of RF power with a half wave dipole 10 metres above ground. We only use our own equipment, which is built by ourselves! Broadcasts now normally take place from Saturday evening to Monday mornings. The programmes are recorded onto CD in MP3 format and are repeated throughout the weekend to give people in different parts of the world a chance to receive us: Since the beginning of 2003 we have been heard, with only 20 watts, in all continents except, South America. Once again thank you for your report and we look forward to hearing from you in the future, bye for now,

Dave Martin and Andy walker.

ORF



RADIO AUSTRIA INTERNATIONAL

Pakistan Broadcasting Corporation
 Frequency Management Cell, National Broadcasting House
 Constitution Avenue, Islamabad - 44000
PAKISTAN



Thank you for your report on our _____

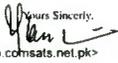
World Service for Europe

Service from 0800 to 1104

GMT on 17520 KHz. Monitored
 on 21-9-2001 at RSS.

If you require any further information on any of our programmes, you are free to call us.

PST = GMT + 5Hrs
 QSL
 E-mail: <cfmpbchq@isb.comsats.net.pk>

Yours Sincerely,


Richard A D'Angelo
PA 19610
USA

Naran is situated in high Mountain's ranges in Kaghan Valley in the province of N.W.F.P.

wks. (Craighead-KS).
SRI LANKA: Radio Farda
 9335 via Iranawilla
 f/d cd. in 5 wks. (Craighead-KS).
Voice of America
 13680 via Iranawilla
 f/d cd. in 5 wks along w/ VOA Mouse Pad, wall calendar US and world maps. (Craighead)...Now I know where all my tax dollars are going - to your house in goodies!
TAIWAN: Adventist World Radio 15445 f/d cd. w/ stickers, calendar and a personal note in 1 mo. (Field).

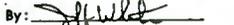
USA: Radio Taiwan International 5950 via WYFR p/d (Field).
 "Beehive" cd in 17 ds. (Weissborn-TX). p/d "Yin Temple" cd. in 20 ds. (Weissborn-TX). **WRNO** 7355 f/d cd. in 259 ds. (Glotzbach-NM). **WHRI** 13760 f/d cd. in 678 ds. Someone must of cleaned out the mailbag. (Barbour-NH).



This QSL confirms your report of the Voice of the NASB

Date (UTC): Nov 2, 2003
 Time (UTC): 0329-0400
 Freq. (kHz): 7385
 Via: WRMI - Miami

Analog DRM/Digital

By: 



Richard A. D'Angelo
2216 Burkey Drive
Wyomissing, PA 19610

USA (Pirates): Undercover Radio 6925 e-mail reply in 5 minutes. Very impressive when a verie comes back while the broadcast is still on the air. (D'Angelo-PA). f/d cd. in 3 ds. after I heard the program. (D'Angelo-PA). **KIPM** 6925 f/d "Existentialistic Pirate Radio" glossy w/ 2 program CDs and an info. sheet in 92 ds. for \$5.00. Apparently

some employee in the USPO couldn't read the multiple "DO NOT BEND" in red letters on the front of the envelope and folded it to fit in my PO box. (Barbour-NH). **Shadow Radio** 6950 n/d e-mail reply in 35 ds. (D'Angelo-PA).

I'm going to end it here. I have a few more but it doesn't justify using the next page.

RADIO EZRA

Radio Voice of the World Karate Movement

COMMEMORATIVE QSL

To: Scott R. Barbour Jr.
 Thank you for your reception report received via Email

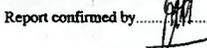
Register: 4/0222

I can confirm that you heard Radio Ezra as detailed below:

Broadcast dated: Sunday 30th November 2003
 Frequency: 7590 kHz

@UTC: 19:00-19:30
 Meter Band: 41

Transmitter Power: 100 kilowatts
 Type: HR 4/20.5
 Transmitter Location: Sitkunai, Lithuania
 Global Coordinates: 55N02 / 023E49
 Azimuth: 259 degrees

Report confirmed by  John D. Hill (Station Owner)



Net Notes

Tom Sundstrom • P.O. Box 2275 • Vincentown, NJ 08088-2275 • Fax: 609-859-3226 • trs@trsc.com
<http://www.trsc.com>

A few days after this bulletin arrives in your mailbox the faithful will gather in southeastern Pennsylvania for yet another iteration of a wonderful international event. Fest number 17 is upon us: it is a marvelous opportunity to recharge the batteries, attach faces to names, say hello to old friends and make new friends.

I wonder how many persons have attended all festivals. Track me down. Perhaps we can compile a list and gather the clan for a photograph.

The forums continue to evolve and look interesting. Last year DRM was demonstrated to the NA public for the first time, and it's back again for a significant update.

Digital Radio Mondiale (drm.org) has an extensive Web site with a schedule of live broadcasts. But how to hear them? On a "regular" receiver, the wide-band signal is unreadable and the noise floor seems to be raised.

There is a reasonable probability that Mark Fine will demonstrate or show outputs from a new Fineware DRM product that requires NO receiver modification... if you have a JRC NRD-535D receiver with its 12 kHz AUX filter.

Fine may help Kim Elliott in the DRM presentation.

Check out the DRM details at fineware-sw1.com/drm.html and then, if you have a Drake R8-series receiver, grab the beta version 4.00 of his Smart R8 Control 32. Read before installing: fineware-sw1.com/src.html (near the page bottom).

I also saw a QST ad that TenTec has modified its RX-320, -350 and -340 receivers to provide a 12 kHz output. The Web site doesn't give

any detail on retrofitting older models, but it is certainly worth a phone call or e-mail. Contact info is at tentec.com.

For the first time there will be Friday evening activities, including ham radio exams. In years past I gave David Goren (WNYC) some audio clips, and I know his library is extensive. The 9 PM "Listening Lounge" should be interesting.

Elsewhere...

As part of the editorial activities at RNW Media Network, we completed a major update to the Hitlist of broadcasters and press services. The top page is www.rnw.nl/realradio/html/hitlist.html. Some club members may recall that we used to watch press services on HF. That inventory has doubled or tripled in the past few years: change the page to hitlist_press.html and have a look.

Update your 2004 World Radio TV Handbook by downloading the "International Radio Updates Feb 2004" PDF file from wrth.com.

Cobalt-blue Sony memory sticks with the ability to read data up to 4 times faster and copyright protection will start shipping this spring in sizes from 32 to 256 MB capacities. No further details were available. The cobalt-blue replaces the current slower purple sticks.

"Blogs" are sorta kinda like an open-ended never-ending story or social commentary on the state of something, depending upon who is doing the writing. It is a different perspective, not always orthodox.

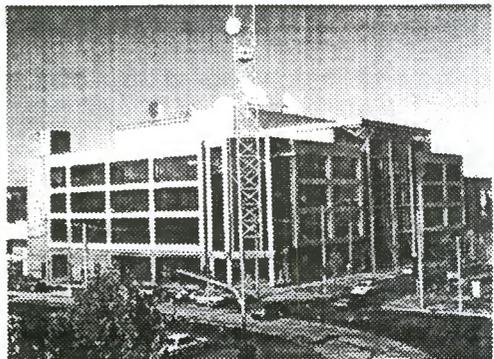
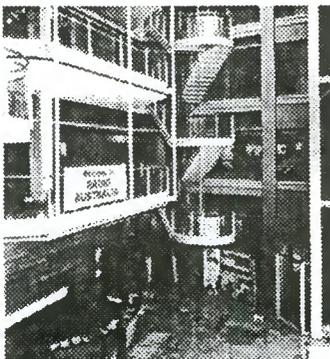
We have a media gang that we look at that includes Andy Sennitt, George Wood, Lou Josephs, Jonathan Marks, Ralph Brandi and Paul Lannuier. Wanna see? Dial up trsc.com/links.html#blogs.

Scoreboard

Gary R. Neal • 7410 Orchard Hills Lane • Sugar Land, TX 77479-6122 • grneal@earthlink.net

This month we are highlighting our members totals from Oceania. This is your chance to show everyone how well you are doing. The next deadline is May 15th for the June, 2004 issue of the *Journal*. The spotlight will be on Asia.

Name, State	Total		Oceania		Best Oceania QSL
	c/H	c/V	c/H	c/V	
Marlin Field, MI	244	244	23	23	R. Kerema 3245 kHz, PNG (250 w.)
Jerry Berg, MA	244	244	21	21	Fiji Broadcasting Comm. (250 w.)
Tom Williamson, ON	243	230	22	22	R. Kiribati
John L. Sgrulletta, NY	240	240	20	20	Kiwi Radio, NZ (350 w.)
Harold Cones, VA	234	232	16	14	Kiribati
Steven R. Lare, MI	234	216	21	21	Tonga, Marshalls
Rich D'Angelo, PA	225	221	20	20	R. Cook Islands
Sheryl Paszkiewicz, WI	224	214			
Jerry Klinck, NY	220	202			
Paul Buer, FL	218	207	19	19	R. Cook Islands (500 w.)
Ron Howard, CA	212	200	22	22	Tonga
Jerry Johnston, KY	209	138	19	13	Cook Islands
George Maroti, NY	203	193	17	16	R. Kiribati
Stephen Price, VA	193	174	12	11	Kiribati
Ross Comeau, MA	192	168	15	13	Kiribati
Allan R. Loudell	192	167	16	15	R. Vanuatu
James R. Renfrew, NY	187	156	13	10	SIBC
Gary W. Froemming, AZ	184	44	11	5	VNG
Bob Raymond, NH	175	150			
George L. Glotzbach, NM	154	135	11	8	VNG
Scott R. Barbour, NH	154	95	11	6	SIBC Solomon Islands
Scott C. Newman, IN	148	113	14	9	R. Tahiti
Jilly Dybka, TN	145	108	11	9	Australian Defense Forces R.
Paul Brouillette, IL	141	118	9	9	SIBC
Gary R. Neal, TX	134	123	7	7	VNG
Edward G. Stroh, IL	132	102	9	7	R. Tahiti
John Mosman, WI	120	120			



RADIO AUSTRALIA...in touch with the world.

Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty23@netzero.net

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER , Mechanicsburg, PA	NRD-545 AOR AR-7030 100' LW
Scott BARBOUR , Intervale, NH	R-75, MLB-1, RS antenna system
Jerry BERG , Lexington, MA	R8A 165' LW
Paul BROUILLETTE , Geneva, IL	Drake R8, ICF2010, 60' long wire
Rich D'ANGELO , Wyomissing, PA	TenTec R340, Lowe HF-150, DX Sloper
Jill DYBKA , Kingston Springs, TN	DX-440, G5RV
Martin FIELD , Hillsdale, MI	NRD535D, Eavesdropper ant
Kris FIELD , Horsham, PA	Drake R8, long wire
Botto FIORA , ITALY	No equipment listed
Bob FRASER , Belfast, ME	Sony ICF-2003 ICF-SW100S 2m LW
Ron HOWARD , Monterey, CA	NRD545, LW 160'
William McGUIRE , Cheverly, MD	DX-380
Bob MONTGOMERY , Levittown, PA	NRD535D, R390A, RX320, HF150, SE3, T2FD,
David MUEHLING , Portsmouth, NH	Sat 800, 40' long wire
Sheryl PASZKIEWICZ , Manitowoc, WI	R8, ICF2010, NRD525, 60' Eavesdropper
Betsy ROBINSON , Clinton, TN	Sony 2010 Indoor antenna
Joe WOOD , Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna

Nice turn out and some real nice logs. Hope to see a few of you folks at this year's Winterfest. I am sure it will be another successful event.

73

Bob Montgomery



Tropical Band Loggings

Dan Ferguson • 12053 Kahns Road • Manassas, VA 20112 • troplogs@zerobeat.org

- 2200.08[h] **COLOMBIA** *Emisora Ideal* Planeta Rica 1000-1045 strong signal, M w/ID's (Wilkner-FL)
- 2310 **AUSTRALIA** *ABC Northern Territories* Alice Springs (VL8A), 1212-1239 fade out 2/9, "Concert for George" on Concert Hall program, ABC Darwin ID 1223 mentioning Dixie Chicks on next week's Concert Hall. Good signal //2325 Tennant Creek (VL8T) fair & 2485 Katherine (VL8K) poor. (D'Angelo/FCDX-PA) 1104-1138, 2/12, EE. Surprisingly decent copy of talks between EZL mx; M w/nx 1130 re Australian PM and taxpayers, British airways flight cancelled due to terrorism concerns and GW Bush speech. Solid "ABC News" ID 1135, then back to music. // 2325 audible but very poor. (Barbour-NH) Good 1000-1010; indication of the approaching change in seasons (Wilkner-FL)
- 2390 **MEXICO** *R. Huayacocotla* 0058-0004* 2/11, just made it prior to s/off w/ranchera mx, W anc brief SS talks, ID, s/off anmts, choral NA; weak but clear. (D'Angelo/FCDX-PA)
- 3172.74 **PERU** *Radio Municipal* Panoa, presumed 0950-1010 w/weak audio. Provides clear ID's on those rare occasions audio is sufficient. (Wilkner-FL)
- 3200 **SWAZILAND** *TWR* 0313, 2/4, weak but audible copy at S3 level. W in unknown language with long talks; ranting about something with M anc. Some fades but fully audible. ID tentative; not //3240. (Montgomery, PA)
- 3235 **PERU** *R. Luz y Sonido* 1040-1053 2/10, past its prime w/OA vocals & fast talking M anc; poor and deteriorating rapidly. (D'Angelo/FCDX-PA)
- 3240 **SWAZILAND** *TWR* 0314 2/4 M anc in lang w/long talks; recheck 0327 a very pretty tune called 'Africa' in progress. Exc. reception. 0329 M full ID w/mailling address; exc audio quality. M ID w/QTH 0330; then anmt in lang w/freqs; M w/closing prayer 0333. (Montgomery, PA) 0331 2/9 African singers, M in lang. (Field FCDX).
- 3249.34 **HONDURAS** *R. Luz y Vida* 1121-1134 1/27, EE?SS; M EE rel talks, W w/over-lapping SS translation, ID 1124; mx prg 1126 w/pop-like mx & ballads, Fair (Barbour-NH) 0030 1/15 fairly nice copy. Been sometime since I last heard them. M anc w/SS pgm info. ID is tentative. (Montgomery, PA) Closing w/EE anmt by anc Don Moore 0350 2/8; freqs, "The Old Rugged Cross" & immediate close 0353+. (Berg-MA)
- 3255 **S.AFRICA** *BBC* Meyerton 0317 2/4 two M w/EE political talk. (Montgomery, PA)
- 3279.53 **ECUADOR** *R. Maria* (via LV del Napo) 0823 2/Feb tel calls from seemingly distressed female lstrns Maria, Marta, Gloria, Olympia, etc., with anc then offering some inspirational advice, prayers, "Santa Maria, Madre de Dios..." Good signal. Into Napo prgmg in apparent Quichua at 0903. (Berg-MA)
- 3291 **GUYANA** *V. Guyana* 0919-0935 1/9 M EE birthday wishes, Hindi-style (!) ballad, pgm. Promo, then gospel music. M ID "This is the Voice of Guyana" 0934, phone number, rel pgm "Answer's to Life's Questions". Good. (Barbour-NH) 3291.06 BBC EE nx & The World Today 0700-0715+; F-G. (Alexander-PA 2-1) 0320 2/4, actual audio hrd first time in months. Two females singing at tune in. Deep fades but clearly audible. (Montgomery, PA) 3291.10 nx 1000, ID "Here is the Voice of Guyana ... at 1200 when the Voice of Guyana...on 3.29 Megahertz..." (Wilkner-FL) 3291.4 BBC ID 0500. Apparently R. Guyana is now relaying BBC news items. Heard them on just before TOH & then nx after ID at TOH, //6005 BBC w/no delay; 2/7 (Montgomery, PA)
- 3300.18 **COLOMBIA** *Em Ideal* Planeta Rica harmonic // 2200.21 harmonic 1015-1045, 'senrora en las palabras...en Cali....programa de ...' (Wilkner-FL)
- 3306 **ZIMBABWE** *ZBC* 0328-0422 2/21, tribal vocals hosted by a man in Shona presumed language taking telephone calls from listeners; even sang Happy Birthday with one of them. Some English including TCs and miscellaneous chatter. ID 0400, then nx; fair. (D'Angelo-PA) R.Zimbabwe, 0412 2/15 sounded like nx in progress read by woman, 0420 M ment R.Zimbabwe, possible TC (said "20"--maybe 6:20? They are UTC+2), African vocal mx, talkover 0423, more mx, another ID 0425 ("1-2-3-4-5-6-7-8-9, 1-2-3-4-5-6-7-8-9 . . . R. Zimbabwe . . ."), more mx, same mx-and-talk pattern to fade-out at 0436. Reception noisy and not too strong; probably would have been better a little earlier. Despite several checks during the past week, this is the first time I have hrd this since my unid. log at 0356 Feb 8, also a Sunday (UTC). I see in HCDX that Seyfried-Germany hrd them at 0100 Feb 15, strong signal, non-stop African mx, short canned ID 0106 in local lang., readable only on LSB. Could it be that this is a "Saturday night"-only all-night svc? Not much of value on their website, parts of which have not been updated since 2001 <www.zbc.co.zw/index.cfm> (Berg-MA)
- 3310 **BOLIVIA** *R. Mosoj Chaski* 1005-1021 2/11 M w/talks in Quechua, SS ID 1015. Very poor all three days. (D'Angelo/FCDX-PA)

- 3320 **S.AFRICA R. Songergrense** 0028-0318 2/14, mix of EEE/GG/FF lyric vocals hosted by M in Afrikaans. ID & nx 0300, then ad string and Electric Light Orchestra. Fair. (D'Angelo-PA) 0029 2/9 two M in Afrikaans, EE words heard occasionally. (Field-FCDX)
- 3329.67 **PERU Ondas del Huallaga** Huanuco, 1040-1105 2/12 OA mx, M ID; good signal troubled by CHU. (Wilknor-FL)
- 3340 **HONDURAS HRMI** 0400-0502* 1/16 SS rel pgmg, SS ballads; closing anmts 0501, ID, short instl tune & off. Weak-poor. (Alexander-PA) HRMI Voz de Misiones, 0340 2/4, vy weak audio w/fades to the noise floor and back. M SS ancr w/slow mx tunes. Much better 2/5, but still unable to get clear enough audio from ancr to get an ID. (Montgomery, PA) 0435-0449 1/6 SS pop mx, ballads, M w/ quick "Radio Misiones" ID 0444; fair/poor. (Barbour-NH)
- 3345 **S.AFRICA Channel Africa** *0256-0310+ 2/1 IS, EE ID sequence, EE nx; poor (Alexander-PA) 0322 2/4 M&W EE, ID, nx, talks; nx 0406 recheck. (Montgomery, PA) 2134-2200* 1/6 W & 2M in vernacular talk, choral music 2157 until s/off. V.poor. (Barbour-NH)
- 3355 **PNG R. Simbu** 1143-1203* 2/10 ctry mx px, M in EE & Pidgin; W closing anmts 1200, conch shell & orch NA. P/F. (D'Angelo/FCDX-PA)
- 3365 **PNG R. Milne Bay** 1209-1236 2/9 W EE & Pidgin talks, M EE nx 1210; instl mx, more talks; fair. (D'Angelo/FCDX-PA) 1211 2/9 M EE nx; mx, ballad; 1223 M&W duet. (Field-FCDX)
- 3375 **BRAZIL R. Educadora** Guajara Mirim, surprisingly good *0858 2/14, intro. msg, full ID w/calls, MW & SW fqys, power on each (5 kw), "Bom Dia," into upbeat mx pgm, UTC-4 TCs, quick IDs 0907, 0911, ad string (incl. supermercado) 0915. (Berg-MA)
- 3385 **N.BRITAIN R. E. New Britain** 1144-1202* 2/9 M EE ad, W EE & Pidgin talks; rock vocals & ads; W 1158 mentioned station was #1 and talked about PNG; left air in mid-song. Poor to fair. (D'Angelo/FCDX-PA)
- 3925 **JAPAN R. Tampa** 1137-1154 1/27 piano recital at t/in, M w/long JJ talk 1140; poor & //6055 audible w/HCB, 6050 "splatter". (Barbour-NH)
- 3927 **PIRATE (Euro) R. Spaceman** 0004-0130 2/8; thanks tip from Watje in Messenger Chat, heard Spaceman and Spacelady alternating on the microphone. "We Love the Pirate Stations" 0008, & greetings to me. Played mostly 60's groups like Creedence. Fair when the hams were quiet. (Maroti-NY)
- 4000 **CHINA NEI Menggu PBS** 1038-1102 2/12 M&W Mandarin talks, brief musical bits, presumed IDs 1039, 1046 w/musical bits and very formal sounding ID at 1100. Surprisingly decent reception. (Barbour-NH)
- 4052.47 **GUATEMALA R. Verdad** 0457-0508 1/24 SS/EE rel ballads, M&W SS/EE Ids, back to mx. (Barbour-NH) 4052.5 0405-0600* 1/25, marimba mx, W SS ancr; 0415 M preacher; recheck later had Spiritual Songs px, wm M EE ancr to 0554 EE ID, freqs, addr, SS ID & W s/off anmts; choral NA; good. (D'Angelo-PA) 0447 2/7 rel mx; M SS anmts 0449, continuous mx; M SS ID 0459. (Montgomery, PA)
- 4386.6 **PERU R. Imperio** 0315-0400+ 1/16 SS church service w/talk & rel mx; ID, rel recitations; weak but clear. Some fading up to fair level at times. (Alexander-PA 1-16) (T) SS 0253-0258 M talk w/ lots of room echo. Possible passing ment of Chiclayo. Sounded like a live remote from a local govt meeting. Vy poor. 1/30. (Brouillette - IL)
- 4485.31 **PERU R. Frecuencia VH** 2353-0033 2/3 repetitive wind instl w/SS talk over at tune-in, canned ID w/echo 0000, up-beat music and ballads from 0004 w/ brief talk overs by M on every song. ID in passing 0017. Fair at tune-in w/ increasing amounts of static. (Barbour-NH)
- 4600.30 **BOLIVIA R. Perla del Acre** Cobija, presumed 0000-0035; fair 2/14. (Wilknor-FL)
- 4635 **TAJIKISTAN Tajik Radio** (presumed) 2252-2317 1/26, Tajik?, folk-like vocal and instl mx at t/in; M 2300 w/presumed ID; then up-beat,dance-like music; then 2 ancrs, brief dance music, anmt, choral mx. Presumed nx 2303 w/M&W w/brief musical bits, field reports. Poor/weak, fading out at 2317 under tolerable noise level. (Barbour-NH)
- 4650.28 **BOLIVIA R. Santa Ana** Santa Ana de Yacuma 1030-1045 most mornings with delightful mix of music. Yipping, musica andina "...en todos el pais... hermanos y hermanas..." "atenciones", 1/21. Similar px, 1030 ID by M 1/30. Seems improved signal strength and regular schedule. (Wilknor-FL)
- 4716.71 **BOLIVIA R. Yura** Yura 0950-1030 1/20 choral mx, enchanting music reminiscent of children choir featured in "Until the End of the World" film by Wim Wenders, Deutschland, also featured on first selection of cd.. Ids by M. Since 1/26 stn not noted ~ 1000 or 2300. (Wilknor-FL) But.1035-1050 fading but back on the air, Radio Unc*a also present 4722.89 and 4796.97 Radio Mallku. 2/12. (Wilknor-FL)
- 4722.8 **BOLIVIA R. Uncia** 1018-1046 f/o 2/9, M SS chatter, IDs & rustic vocals . Poor. (D'Angelo/FCDX-PA) 4722.86 noted back on the air 1045-1050. Radio Santa Ana noted strong on 4650.25 same time, but 4902v from Riberalta still silent. 6 Febuary *Disturbing to see this! Two Bolivians silent. *Es angustioso o'r que las emisoras Bolivianas no mas transmitiran. Es una cultura muy importante! (Wilknor-FL)

- 4760 **ANDAMAN & NICOBAR ISLANDS AIR** Port Blair 1200-1212 2/8 W brief talks between Hindi musical selections. Fair/poor, fading by tune-out, gone at 1223 re-check. (Barbour-NH)
- 4760 **LIBERIA ELWA** 2215-2231* 1/26 contemporary rel ballads, whisper-quiet EE anc 2229, NA. Rough copy w/ static. (Barbour-NH) 0714-0740+ 2/1 surprisingly good signal w/lcl EE rel pgmg, ID 0722; messages from HCJB. US produced rel pgming. (Alexander-PA) 2151-2232* 2/8 M EE rel tlks, choir mx; new pgm segment 2200; s/off ID & M anc, NA; poor with very deep fades. (D'Angelo/FCDX-PA)
- 4770 **NIGERIA. R. Nigeria** Kaduna, tone on at 0425 2/1, talking drums 0431, anthem, "I Pledge to Nigeria, My Country," ID by man, "Salaam Aleikem," fqy, Muslim prayer in local lang & EE, Christian prayer in EG. Good signal. (Berg-MA) 4769.9 EE pop vcls 2222; hum on audio 2/1. (Brouillette - IL) 2142-2142 2/4 M EE anc on phone-. (Field/FCDX)
- 4773.59 **ECUADOR R. Centinela del Sur** 1115-1145+ 1/10 SS tlk, brief breaks of HC mx. Apparently a nx pgm. Some ads & jingles. Good signal but very weak by 1115. (Alexander-PA) 4773.8 1113-1143 2/9, M w/long SS political talk; brief mx segment 1126; ID, ads, another long political talk; fair to good signal with some swisher QRM. (D'Angelo/FCDX-PA)
- 4775 **INDIA AIR** Imphal 1530 EE "news at 9"; fair-good, almost as good as 9425. (Howard-CA 2/1)
- 4775 **PERU R. Tarma** SS 2347-0004* pop ballads, M anc w/ heavy echo; 0000 fanfare & M w/long sign off routine, ID, calls, etc. over orchestra; 0002 same routine w/different M anc over Hammond organ music. Included very clear "Transmite R. Tarma desde Tarma, Peru...." Very weak, but super clean audio. 2/1. (Brouillette-IL)
- 4775 **SWAZILAND TWR** 0422-0439 2/21, M GG sermon; inspirational vocal 0425; ID 0431, more re; tlk; fair with some swisher QRM. (D'Angelo-PA)
- 4779.98 **GUATEMALA R. Coatan** 0210-0230+ 1/24; tentative; vy weak SS rel pgmg; marimba mx; weak w/noise & swisher QRM. (Alexander-PA) 4780.00, 1140-1310 "seise en la manana ...Radio Coatan..." good signal, orchestral and organ music; 2/13 (Wilkner-FL)
- 4781.4 **ECUADOR Radio Oriental** 1015-1042 2/10 M SS tlk, ID, anmts, hosting mx pgm w/ad strings; poor due to heavy swisher QRM. (D'Angelo/FCDX-PA)
- 4790 **INDIA AIR** Chennai (tent.), 0110 SC mx, tent ID w/s/off anmt 0117*; fair. (Howard-CA 1/20) *0023-0030+ s/on w/IS; lcl mx 0025; weak. (Alexander-PA 1-24) 0004-0045* 2/10Hindi vcls, long tlks in Tamil; 10 minutes of nice music, then W ID & closedown anmts; poor with severe swisher QRM. (D'Angelo/FCDX-PA)
- 4790 **IRIAN JAYA RRI Fak Fak** 1240-1302 2/9 cont II pop mx by W; SCI 1259:45, then M II tlk; deteriorating toward TOH. (D'Angelo/FCDX-PA)
- 4796.78 **BOLIVIA R.Mallku** (presumed), 0947-1005, 1/16 SS/Quecha; lively mx & tlks, period of prolonged silence, then returned. Weak/poor under relentless "sweeper" QRM. (Barbour-NH)
- 4799.8 **GUATEMALA R. BuenaNuevas** 1048-1103, 1/11, MSS rel tlks & mx, ID1055 & 1100; fair. (Barbour-NH)
- 4800 **CHINA CPBS** Geermu 2233-2250, 1/26, M&W Mandarin tlks & banter, brief mx bits; fading in. (Barbour-NH)
- 4800 **LESOTHO R. Lesotho** 0353-0411, 1/11, Sesotho, choral mx, M w/presumed prayers; brief Lesiba tones 0359; then W w/tlks, more choral mx 0403 & prayer-like talks 0407; F/P. Barbour-NH)
- 4810 **MEXICO XERTA** 0230-0630+ SS & EE rel mx, poops, rock; a few SS anmts; past 0900, but is irreg. {Alexander-PA 1-24} 0345-0435 1/26 continuous mx, mainly EE lyrics, including "Silver Bells." Nothing beats a good Christmas tune a month after the holiday ended! Good signal. (D'Angelo-PA) 0430-0717 EE & SS pop Christian songs, ID, good. This seems to be on mostly around the weekend. (Howard-CA 1/26) XERTA - Radio Transcontinental, 0207-0246 2/15, EZL instl mx, M SS ID, freq anmts; pop vcls. (D'Angelo-PA) 1000-1010 pop mx vcls; good. (Wilkner-FL) 1126-1151, 2/1, contemporary rel mx in EE, switched to SS 1140, W SS IDs 1130, 1140, 1142. (Barbour-NH)
- 4820 **INDIA AIR** Chennai *2358-0005+ S/on w/IS & into lcl mx; weak. (Alexander-PA 1/23-24)
- 4830 **HONDURAS R. Litoral** 0441-0503*, 1/25,EE?SS rel pgm, M SS ID 0456 & s/off. (Barbour-NH)
- 4830 **VENEZUELA R. Tachira** 2310-2330, continuous lively pop mx w/no anmts, then suddenly at 2330 a full ID "Transmite R Tachira...." w/freqs, QTH, etc. 2/2. (Brouillette-IL) 4830.02, 2250-0100* lively LA mx, ad string 0000, jingles, ID, SS anmts & off 0100, leaving a very weak R. Litoral, Honduras on 4830.06(Alexander-PA 1/24-25)
- 4830.06 **HONDURAS R. Litoral** 0100-0503*, audible after R.Tachira s/off w/rel mx, SS tlk; "Searchlight" EE rel pgm 0430; vy weak 0100, but slowly improving to fair level. (Alexander-PA 1-25)
- 4840 **INDIA AIR** Mumbai *2354-0005+ s/on w/IS & into lcl mx; weak 1/23. (Alexander-PA) 0003-0017, 1/21, Hindi mx & tlks under mild static; poor, weak. (Barbour-NH) 0026-0049 2/10, flute mx to 0030 ID & EE nx, ID & tlk 0035; then brief talk and vocals. Fair. (D'Angelo/FCDX-PA)
- 4845 **MAURITANIA R. Mauritanie** 0046 2/19 M w/AA tlk, ID's ("al-Mauritania") and ME mx. (Clar-NY) 2227-2256 repetitive local string mx, kind of hypnotic, 2241 sudden break & W AA ID; into Islamic pgm w/ prayers by M; 2255 ID & short dramatized PSA(?) w/M & W. Exc. 2/1. (Brouillette - IL)

- 4855.8 PERU R. *La Hora* 1027-1040, 1/16, W SS mx & tlks, ID 1033; then cont talks. (Barbour-NH)
- 4860 INDIA AIR Delhi *0024-0030, 1/21, IS, ID, brief Hindi mx & talks, fading fast under noise, unusable by 0030. (Barbour-NH)
- 4865.43 BRAZIL R. *Missoes da Amazonia* 1037-1102, 1/30, PP, lively rel mx; M w/"Santa Maria" talk over, ballads, canned ID 1100; fair but starting to fade by 1100. (Barbour-NH)
- 4870 INDONESIA RRI *Wamena* 1225-1304 M w/ II pop vcls, M&W talks; no SCI 1300. (D'Angelo & Field-FCDX)
- 4875 BRAZIL Radio *Difusora Roraima* 0344-0404* 1/28, M w/PP vcls, talks, 0359 ID, s/off anmts & choral NA; fair. (D'Angelo-PA) 0302-0305 tlks, lcl concert promos; poor 1/30. (Brouillette - IL) 0350 2/1 huge signal, great audio quality w/rel pgm; quick ID 0400, Wvcl, full s/off ID 0404, long version of ZY NA, off 0409*. So strong that, at first, I had doubts that it was a Brazilian, despite PP. Also 1/30 0855 mx, full ID w/freqs, calls, rel segment, some singing by a local-sounding group; rel message 0905, more singing. In the clear, with Para, usually dominant in the morning until 1000+, apparently off. No sign of Acreana on Jan 31, but Para hrd s/on at 0859. (Berg-MA)
- 4880 INDIA AIR Lucknow*1213-1223, 2/8, IS, s/onanmt, Hindimx; F/Pw/decent musicaudio. (Barbour-NH)
- 4885 BRAZIL Radio *Difusora Acreana* 0433-0500* 1/24, M PP tlk, pop mx vcls, jingle ID 0456, ID, s/off anmts, NA 0458; P/F. (D'Angelo-PA)
- 4890 PNG NBC Port Moresby 1231-1231, 2/9, mx & singing; vy nice signal finally this morning. Also, 2/10, 1135-1135 M EE, armchair copy, w/talks about dept of health issues in PNG; 1241 pop mx pgm, phone call, wx; can't believe this signal is in for so long today! (Field-FCDX) 1240-1320 2/10, island mx & pops, M phone calls, wx, ID. (D'Angelo/FCDX-PA) 0343-0355 2/9, pop vcls, M PP talks, Ids; W ID 0350 mentioning city, etc. Fair with some swisher QRM. (D'Angelo/FCDX-PA)
- 4895 INDIA AIR Kurseong 1220-1228 1/28, vcls, brief talk by W; 5+1 time pips 1230; W EE ID & nx; mx & cmtry 1235; poor. (D'Angelo-PA) 1150-1200, 2/8, Hindi mx, booming in w/barely audible talks under "sweeper"; fair. (Barbour-NH)
- 4901.98 BOLIVIA R. *San Miguel* Riberalta 1000 exc sig, dominant Bolivian in 60 meter band, 1/29. On 1/31 -off the air 1000-1030. (Wilkner-FL) 4902.68, 1021-1033, 1/30, M SS talks & PSA, more talks & field reports re "policia programa"; ID 1030. Good w/ lite static. (Barbour-NH) 4903.5, 1020-1030, ID's & TC's, since return of Riberalta frequency is up from 4901.6 with slop from the ever-present "swisher" (Wilkner-FL)
- 4910 ZAMBIA Radio 1 0328-0406, 1/28, two M in Vernacular, one very animated, w/phone-in program, cut-off 0359 for pips, fanfare w/ animal sounds, "Radio One" ID, W w/news re Zambia and Congo; ID 0406, back to "animated" M ancr; vy good. (Barbour-NH) *0237-0325, 2/6, OC till Call of the Fish Eagle 0240; choral NA 0250, M ID & s/on in local lang, many clear mentions of Zambia; mix of local vcls, drums & EE tlk segment 0255; "Radio Zambia" ID & anmt "coming up to 6 hours." Heard a Radio One ID 0323; good sig w/some swisher QRM. (D'Angelo-PA) 0321-0322, 2/9 mx & tribal group sing. (Field FCDX 02/04).
- 4915 GHANA GBC 2135-2215, 2/8 & 10, choir vcls, EE rel tlks, ID 2200, nx; 2/10 W in FF, then EE. (D'Angelo & Field /FCDX-PA) EE & Ga, 2258-2306, lite R&B mx; at TOH M ancr "We'll be with you another time. Right now we present 'With Women' in Ga." Into W in Ga lang. Excellent except for sweeper still marring their S9 signal. 2/1. (Brouillette-IL)
- 4919 ECUADOR R. *Quito* 0136 2/20 SS talks, ment Quito, IDS, slogans, phone numbers. (Clar-NY) 2337-2356 SS futbol, Ecuador vs. Peru; promos/ID's, beer ad; good 1/12. (Brouillette-IL)
- 4920 CHINA Xizang PBS 2236-2316, 2/9, Tibetan talks & instl mx; fanfare 2300, ID, W w/nx. (D'Angelo/FCDX-PA)
- 4920 INDIA AIR Chennai 1227-1238, 2/5, W Hindi vcls w/flutes; brief talk prior to 4+1 time pips at 1230; then EE ID & nx; poor. (D'Angelo-PA)
- 4920 TIBET Xizang PBS Lhasa, 1123-1137, 1/11, W w/Tibetan mx & tlks, M presumed ID over music 1130; good, // 4905 & 5240 both poor. (Barbour-NH)
- 4935 BRAZIL Radio *Capixaba* 2325-0020, 2/8, long PP rel tlk, M ID 2358 mentioning AM & SW freqs; more rel pgmg at TOH; fair.
- 4940 VENEZUELA R. *Amazonas* 0958-1019, 1/30, mx SS IDs 1005 & 1015, brief "zingers" between mx selections. M w/remote, lots of cheering and crowd noises. Weak but clear. (Barbour-NH)
- 4950 ANGOLA R. *Nacional* surprisingly good 0458, 2/7 w/light Afr mx, 0459 full ID w/fqys, 4 pips & into what sounded like "Jornal A Hora," nx-type talk by man, nice ID w/fanfare 0508, talk by woman, ID & TC 0513, into Afropops w/what sounded like ads. Hrd at better-than-average level several times lately. (Berg-MA) 0353-0430, 2/9, pop mx px w/some American pop tunes; 4time pips 0400, multiple IDs & noticias; more IDs after nx, mx px w/M PP ancr; F/G. (D'Angelo/FCDX-PA)
- 4950.15 PERU R. *Madre de Dios* Puerto Maldinaldo 1040-1100 long conversation between M&W, slow SS. (Wilkner-FL)

- 4955 **PERU R. Cultural Amauta** nice ID 0933, 2/9: "Esta escucha R. Cultural Amauta desde Huanta, la Esmeralda de los Andes, 4855 kilociclos en la onda corta y FM 100.9 en stereo." (Berg-MA) 1043-1110, 2/9, SS & Quechua rel tlks, brief mx segments; ID & city location 1100 before next long talk segment. Fair to good. (D'Angelo/FCDX-PA)
- 4960 **ECUADOR R. Federacion Shuar** in Shuar, 2357-0024, M in serious sounding talk, lcl rustic choral mx, more talk, W vcl over drumming. M mentions "VShuara" and "Ecuador." 1/12. (Brouillette-IL)
- 4960 **SAO TOME VOA** Pinheira 0415, 2/7 M&W EE nx, ID 0417, // 7415; nice copy. (Montgomery, PA)
- 4965 **PERU R. Santa Monica** 0950-0957, 2/9, OA vcls, M SS anmts, IDs; fair. (D'Angelo/FCDX-PA)
- 4965 **ZAMBIA Christian Voice** 0243-0309, 1/4, EE, contemporary rel mx w/testimonials by featured artist. Gospel version of "Amazing Grace" at t/o. Surprisingly fair signal tho no ID noted w/ announcer's thick accent difficult to follow along with. (Barbour-NH) 0148, 2/6, WEE ancr, fairly clear audio at tune in; rel tune 0150. M 0152 ID; sounded like Aussie accent; back to more tunes; weakening by TOH; talks about drinking problems, ad, at 0202. M ID as R. Christian Voice 0203. (Montgomery, PA) 0030, 2/14, EE pops, story, e-mail address, more mx, M ID w/both Zambia & UK postal addresses, more mx. They give their address as "P.O. Box E606" rather than "Private Bag E606." (Berg-MA)
- 4980 **CHINA Xinjiang PBS** (presumed), 0008-0033 f/o, 2/10, M&W talk presumed Uighur language, some vocals; weak. (D'Angelo/FCDX-PA)
- 4990 **INDIA AIR** Itanagar 1533, EE "news at 9", fair. Noted //4775 (poor)//4970(fair). (Howard-CA 2/7)
- 4990 **SURINAM R. Apintie** EE ID 0339, 2/8: "Right now and in the future, R. Apintie, in command on the FM band; R. Apintie, in command on the AM band; R. Apintie, in command on the SW band; R. Apintie--Number One." (Berg-MA) 0433-0502, 2/6, Dutch/EE, EE pop ballads, several by Lionel Ritchie, right thru TOH, ad/music promo block 0447-0450 in Dutch. Good signal tho no ID noted. (Barbour-NH) 0950-0950, 2/9, M in Papiemento, jingles, ads. (Field-FCDX)
- 4991 **PERU R. Ancash** 0931-0957, 2/10, several fast-talking SS ads; M ancr w/px of rustic vcls w/IDs & TCs; poor. (D'Angelo/FCDX-PA)
- 5005.78 **PERU R. LTC** Juliaca, good signal 1030-1100 mx, "...viente quatro minutos..." by M, 4 minutes off correct time, W w/mx. (Wilkner-FL)
- 5010 **INDIA AIR** Thiruvananthapuram 0032-0058, 2/10, M EE nx, ID, flute mx, cmtry; ID 0040, then Hindi instl mx; fair. (D'Angelo/FCDX-PA) *0018-0030+s/onw/IS&into Indian mx; weak. (Alexander-PA1-24)
- 5010 **MADAGASCAR RTV Malagasy** 0339-0353, 1/11, Vernacular, presumed Sunday morning devotional w/choral mx, M between selections; poor, noisy and fading fast. (Barbour-NH) Tentative at 2120, 1/28, Afr mx with that melodious Madagascar style, some EE pops. Weak but clear until things started getting messy from Cristal-5009.8 QRM arnd 2140. (Berg-MA) 0343, 2/4, M in unknown language with fades; definite Afr language. QRM from opts on 5005 in Usa. (Montgomery, PA) 0319-0333, 2/10, M&W w/FF sounding talks & brief mx bits, quick "Radio Nationale Malagasy" ID 0330. Fair w/occ static bursts. (Barbour-NH) 0308-0415 f/o, 2/11, W talk in Malagasy, then lcl mx selection. ID as part of an introduction of a male speaker. After his speech, back to music and talk. F/G; beginning to fade ard 0330, but useable audio past 0400. (D'Angelo/FCDX-PA)
- 5015 **BRAZIL Radio Pioneira** 2348-0201*, 2/8, px of rustic vcls w/M PP tlks, off w/simple ID & no anthem. P/F. (D'Angelo/FCDX-PA)
- 5019 **SOLOMON IS. SIBS** Honiara 1231 2/9, M BBC nx, WS ID, nx; 1300 talks by M. (Field-FCDX).
- 5019.9 **PERU R. Horizonte** 1120-1137, 2/10, M SS tlk, ad string, OA vcls, ID & TC 1133; fair but Solomon Is. beginning to build up underneath. (D'Angelo/FCDX-PA) 1040-1100 ID's, mx, blasting in with incredible signal (Wilkner-FL)
- 5024.91 **PERU R. Quillabamba** opening 1023, 2/1, after OC for a while; full ID w/mx in backgnd, calls and fqys. Poor signal, and soon overtaken by Cuba. (Berg-MA) 5024.97, 1045-1100, w/local Radio Rebelde absent, 'programa del todos Peru ... onda corta banda de ... metros Radio Quillabamba.. programa mundial ...' several ID's over classical music, 1/29. (Wilkner-FL) 5025, 1047-1058, 2/10, M SS tlk, OA vcls, ID & TC 1053 after song; fair. (D'Angelo/FCDX-PA)
- 5025 **BENIN ORTB** Parakou (presumed), 2213-2225, 2/8, two M in serious FF discussion. Fair signal subject to deep fades. (D'Angelo/FCDX-PA) 2148-2148, 2/8, M in FF. (Field-FCDX).
- 5026 **UGANDA R. Uganda** 0415-0440, 2/5, M EE ancr, ID at 0432; fair. (D'Angelo-PA) Fairly good 2115, 1/31, app running late; Afr mx, occ quick IDs that I could not decipher; still there at 2235 check, though far gone by then. During this time there was also a pretty good size carrier on 4976, but no audio there. (Berg-MA)
- 5027.22 **PAKISTAN PBC-Quetta** 0159 mx fanfare, ID as "Pakistan .", time pips, 10 minutes of nx (Urdu), 5 min. of cmtry(?), w/many mentions of Pakistan, into px of S-C mx, best in LSB. (Howard-CA 1/22, 23 & 25)

- 5030 **BURKINA FASO R. Burkina** 2321-2337, 1/20, FF, Rap & Afropop mx, talk b/w songs. Quick ID 2329, "Ouagadougou" mentioned 2337; fair. (Barbour-NH) 2238-2302, 1/21, M long FF talk, tribal vocals 2245. More talks, some drum mx, ID 2300. P/F. (D'Angelo-PA) 2308-2319, FF Afro pop w/ reggae beat. M anncr w/ poor mic audio. 2/1. (Brouillette-IL) 2215, 2/8, M sing rap/reggae/afro-pop tune in FF. Nice to hear such a good signal on this one. (Field FCDX). Loud & clear 0625, 2/14 w/ Afropops; 0630 into "Contact" px, which appeared to be a listeners letters px; many names, addresses and tel. numbers read, almost all from Ouagadougou and Ivory Coast, Back into mx 0646. (Berg-MA)
- 5030 **PERU Radio Los Andes** Huamachuco 1100-1115, 2/15, blasting in with "Radio Andes .." shouted ID by hyper M at tune in. (Wilkner-FL) 1012-1047, 2/1, rustic OA vcls hosted by SS M w/ anmts, TCs, occ IDs. Brief conversations with another man in the studio between musical selections. Fair. (D'Angelo-PA) 1123-1138, 1/31, SS, mx & ballads w/ brief talks b/w selections, several breaks in audio, "zinger" ID at 1125, Fading out under static. (Barbour-NH)
- 5035 **VIETNAM VOV-4** 1133-1145, 1/20, Hmong talks and mx bits, ballads, occasionally overtaken by Dr. Gene Scott "splatter" via 5030. Poor, //6165 fair. (Barbour-NH)
- 5054.6 **COSTA RICA Faro del Caribe** 0150-0305, SS rel tlk by M & W, Christian mx, ID, Bible study. Strong, but distorted audio and splash from WWRB. 1/6. (Brouillette-IL)
- 5460.25 **PERU R. Bolivar** Bolivar 1030 w/ musica Andina, also 5471.77 Radio San Nicholas, Mendoza 1030-1045, 2/14 & 15. (Wilkner-FL)
- 5470.8 **PERU R. San Nicolas(T)** 1106-1120f/o2/10, flutemx, Mancrw/possible opening ID & anmts, OA vocals; vy weak. (D'Angelo/FCDX-PA) 5471.77 Radio San Nicholas, Mendoza 1030-1045, 2/14 & 15. (Wilkner-FL)
- 5486.7 **PERU Reina de la Selva**, 1053-1112, 2/11, M SS tlk, anmts, ads, hosting px of rustic OA vocals; mentions of "Chachapoyas". Poor with deep fades. (D'Angelo/FCDX-PA)
- 5500 **ETHIOPIA V of the Tigray Rev.** *0355-0415+ s/on w/IS; opening anmts & talk in lcl lang. // 6350 - both freqs weak. (Alexander-PA 1-17) 0428, 2/7, M in lcl lang, nx, mx between each item; 0430 mx w/W ancr. (Montgomery, PA)
- 5677.99 **PERU R. Illucan** 0225-0241*, 1/10, SS tlk & pops, s/off anmts, IDs; F/G. (Alexander-PA)
- 5770 **UNID** 1606-1630* 2/13, romantic songs, W in Asiatic lang w/anmts; then OC to 1630. Could it be Defence Forces Broadcasting Unit from Taunggyi? (Luca Botto Fiora-Italy)
- 5860 **CHINA VO Jinling** 1155-1218, 1/31, Mandarin, ballad at t/in, pips (5+1) W ID "Jinling zhi Sheng", brief mx bits w/talk overs to 1204, then M w/long talk b/w brief jazz-like musical bits continuing thru tune-out; fair. (Barbour-NH)

Company Store

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Hello everyone. By the time you get the March issue, WinterFest will be just around the corner. As promised last month I have **some** news about mail orders on t-shirts and sweat-shirts. I've found a source of Tyvek envelopes that should meet our needs. **T-shirts** will be available from the Company Store in the usual sizes for **\$12.00** plus **\$4.00** for postage and handling in North America and **\$8.00** for the rest of the world. **Sweatshirts** will **\$20.00** plus **\$8.00** for North America addresses or **\$15.00** for the rest of the world. I'm still working on the details for mailing the mugs, however. Mugs **will** be available at the Fest. **Limited** quantities of t-shirts and sweatshirts will also be available. The Company Store will also have a table set up at the Fest and we'll be selling our usual stock of books and booklets. Finally, the specials that I've mentioned the last couple of months are still available. Leftover copies of the 2002 and 2003 *WRTH* are available at **\$15.95** and 2003 issues of *Passport to Worldband Radio* for **\$10.95**. The other special, for Skip Arey's book, *Radio Monitoring: The How-To Guide*, is available for **\$17.95**. I'll have copies available at the Fest or by mail order for **\$4.00** or **\$8.00** shipping to North American addresses or the rest of the world. That's it for March. Mike

SW

International Band Loggings

5901-30000 kHz

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- 5945 **RUSSIA Bible Voice Bcstg** via Komsomolsk relay in EG 1439, religious program'g, g (Howard CA 1/31)
- 59525 **BOLIVIA R Pio Doce** Siglo Veinte in SP 0955, tlks, brief mx, ID's, jingle, nx 1001, f (D'Angelo PA 2/9)
- 5960 **CANADA R Ryan** relay in JP *0200, IS, pips, ID "NHK", nat'l and regional nx, g (McGuire MD 12/21)
- 59858 **MYANMAR R Myanmar** Yangon in EG 1514-1600*, marching mx, nx, wx rpt, gov't slogans, non-stop mx s/off ancmt, several ID's for "Radio Myanmar, Yangon", p (Howard CA 2/7)
- 59932 **BRAZIL R Senado** Brasilia in PT *0858-0931, ID, s/on ancmts, pop vocal, nx, fqy, discussion between YL and OM, exc (D'Angelo FCDX 2/10) in PT 1035-1100+, local pop mx, political tlk (Alexander PA 1/16)
- 5995 **MALI ORTM** Bamako in Vernaculard 2205-2235+, lcl Afro mx, g, //4835 weak (Alexander PA 1/31)
- 6005 **GERMANY Deut R** Berlin in GM 2223-2306, YL host playing FR pops, ID, pips, nx, f (D'Angelo 2/10)
- 6020 **TURKEY V of Turkey** in EG 0403, ID, nx, African nx, monotone tlks, S-9 w/fades (Montgomery PA 2/4)
- 6030 **CANADA CFVP** Calgary in EG 0845, relaying AM 1060, C&W vocal, ID, Simon & Garfunkel, nx, tlk re ice hockey, f/o 0905, poor w/fades and lite QRM (Berg MA 2/9)
- 6040 **THAILAND R Thailand** in Lao/Burmese 1136, tlks, ballad, ID/IS, into Burmese 1145 (Barbour NH 1/23)
- 6045 **MEXICO R Universidad** San Luis Potosi in SP 0317-0359, OM hosting pgm of phone calls and playing Mexican mx sels, ID's b/w phone calls, f, blocked by RFI s/on 0358 (D'Angelo FCDX-PA 2/10) 250 watts
- 6055nf **TURKEY V of Turkey** in EG 1930-2019, call-in pgm w/no callers, 2 YL's reminisce instead, IS and early s/off at 2019, f (Field FCDX-PA 2/10, Alexander PA 1/23)
- 6055 **RWANDA R Rwanda** Kigali in FR/Vern 2020-2100*, hrd after Turkey's s/off, US/Afro pop mx, Vern tlks, instrum'l and choral anthems, ID 2056, pips 2100 and off, f (D'Angelo FCDX-PA 2/9, Alexander PA 1/23)
- 6075 **RUSSIA R Rossi** relay Arman in RS 1314, tlks, ID's, mx pgm w/nice ballads, p-f, //7320 (Barbour NH 2/6)
- 6105 **COSTA RICA R Universidad** San Jose in SP 0545, classical mx, ID, "Theme from Titanic", graduation march, voice audio terrible but mx OK, VOA QRM underneath (Berg MA 2/14) in SP 1156-1240, ezl inst'l mx, ID 1202, non-stop classical mx, fair w/QRM from Taipei (D'Angelo FXDX-PA 2/11)
- 6115v **PERU R Union** Lima in SP 0820-0900+, mostly non-stop tlks, OA mx, ID's, f-g (Alexander PA 1/23)
- 6130 **LAOS Laos Nat'l Radio** Vientiane in Laotian 1146, sub-cont ballad, ad/promos, 7 gongs, brief mx, ID 1200, further tlks, fair signal w/fading down after 1200 (Barbour NH 1/20)
- 61348 **BOLIVIA R Santa Cruz** in SP 1010, rustic Bolivian vcls, ancmts, nice ID 1013, f (D'Angelo FCDX 2/9)
- 6150 **SINGAPORE R Singapore** in EG 2355, relaying AM 938, vocal, brief tlks,, "News Radio 938", ID before being swamped by R Japan relay via Canada on 6145 (Berg MA 2/14)
- 6170 **BRAZIL R Cultura** São Paulo in PT 0740, lite BR vocals, tlk/mx pgm, ID 0800, fqys, TC (Berg MA 2/13)
- 6185 **MEXICO XEPPM R Educacion** in SP 0110, tlk, ID, promos, slogans, fqy, EG ID, E-mail info, pgm note, lite Mexican mx, f-g with noise and adjacent channel QRM (Clar NY 2/14)
- 6185 **CHINA Huayi BC Co.** Chengdu in CH 1154, lite banter, tlks over mx, ballads, EG ID, f (Barbour 1/27)
- 6235 **RUSSIA V of Russia** relay via Kaliningrad in EG 2119-2200*, mailbag w/Joe Adamov, ID 2130, "Music Around Us" featuring classical mx artists, Kremlin Bells at s/off (D'Angelo FCDX, Field FCDX 2/10)
- 6280 **ISRAEL V of Israel** Tel Aviv in EG 2000, nx re jr and sr high school teacher strike (Field FCDX-PA 2/10)
- 6348 **SOUTH KOREA Echo of Hope** Kyonggi-do in KR 1146, ancmts, ID, cmntry, f-p (Montgomery PA 2/8)
- 63987 **NORTH KOREA Pyongyang BS** Kanggye in KR 1206, passionate tlk, choral mx, f-g (Barbour NH 2/4)
- 65361 **PERU R Poderosa** Huancabamba in SP 0157-0212*, on later than usual w/OA folk mx, ID, s/off with NA (Alexander PA 1/23) in SP 0047-0143*, OA vocals, ID, s/off ancmts, NA, p (D'Angelo FCDX-PA 2/11)
- 7100 **ERITREA V of Broad Masses** Asmara in Tigrinya(p) *0355-0500+, IS at s/on, tlk, Horn of Africa mx, g (Alexander PA 1/10) t/in 1559 in Kunama(p), Horn of Africa mx, ham QRM, f-g (Flora ITALY 2/14)
- 7110 **CHINA CRI** Shijiazhuang in CH 1720, YL w/tlk over piano mx, s/off 1730 w/NA and brief ancmt, solid S-9+ signal, //5945 Beijing (Treibel WA 2/8)
- 7125 **GUINEA RTV Guineenne** Conakry in FR 2207-2237, nx, field rpts, ID's as "R Nationale and R. Guinee", g (Brouillette IL 1/17, Field FCDX-PA 2/10)
- 71301 **ALBANIA R Tirana** in EG 2241, tlk on ethnic Greeks in Albania, g (Brouillette IL 1/17)
- 7185 **MOROCCO R Sawa** via VOA relay xmtr in AR *0000, ID, mx, solid S-9 signal (Muehling NH 2/6)
- 7200 **SUDAN SNRC** Omdurman in AR 0427-0501, nx 0430, ID, vocals, tlks by OM/YL w/brief mx interludes, fanfare 0459, another ID, in the clear after Cairo s/off 0430 and D Welle s/on 0500 (D'Angelo PA 2/14)
- 7200 **GREECE VOA** relay Kavalla in EG 0140, sports segment of "News Now", //7255 (Dybka TN 2/9)
- 7210 **CYPRUS Cyprus BC Corp** in GK 2244*, drama, GK mx, sudden s/off in mid-song, f (Brouillette IL 1/11)

- 7255 **NIGERIA V of Nigeria** Ikorodu in EG/Hausa 1203, US jazz, anmts, ID in EG (Paszkwicz WI 1/25)
- 7265 **ASCENSION ISLAND VOA** relay in EG *0257-0331, IS, ID, fqy, pips 0300, "Daybreak Africa", nx rpts from various locations, fair w/slight QRM from Sudwestrundfunk Germany (D'Angelo PA 1/22)
- 7285 **MADAGASCAR R Nederland** relay in IN 2250, piano mx by Dvorak, current affairs, f (Brouillette IL 1/17)
- 7285 **VIETNAM V of Vietnam** Hanoi in EG 1100, ID, econ nx, cmntry re "development", p (Barbour NH 1/8)
- 7295 **MALAYSIA RTM Radio 4** Kajang in EG 1100, ID, nx, pop rx, poor audio, ham QRM (Alexander PA 1/10)
- 7300 **RUSSIA V of Russia** via Armavir in EG 2140, "Musical Tales", tlk on piano composers, f (Fraser ME 1/14)
- 7340 **BOTSWANA VOA** relay in Kinyarwanda(p) 0337, tlks, VOA jingle for ID (Paszkwicz WI 2/4)
- 7365 **VATICAN CITY Vatican R** in EG 2005, nx re children soldiers in Myanmar, Libyan WMD's, Algerian oil, ID at 2010, f-p with fades (Barbour NH 1/20)
- 7380 **SOUTH AFRICA V of Biafra Int.** relay in EG *2100, local mx, tlk re Biafra, ID as "Voice of Biafra International coming to you from Washington, D.C.", strong signal (Alexander PA 1/31)
- 7395 **TAIWAN CBS** Taipei in CH 1645, tlks by YL/OM, severe jamming stn over top, jammer off at 1700 when Taipei pops in the clear for 1 minute during their 1700 s/off ancmts, poor to 1700, good for 1 minute after jammer quits thus allowing Taipei to complete s/off procedure (Treibel WA 2/3)
- 7507usb **PUERTO RICO AFRTS** relay in EG 0110, coverage of basketball game b/w Southern Mississippi & South Florida from the Sundome, g, //5446.5 and 12133.5 (Clar NY 2/14)
- 9280 **TAIWAN CBS** Taipei in CH 1048, OM/YL tlks over mx, cut off abruptly 1059, f (Barbour NH 1/6)
- 9405 **PHILIPPINES FEBC** Manila via Iba in CH 1306, OM/YL tlks, mx, fair with fades (Barbour NH 1/3)
- 9445 **INDIA AIR** Bangalore in EG 2104, ID, tlk re mx, fine violin/stringed instrument, strong signal but muffled (Field FCDX-PA 2/8, Muehling NH 2/7)
- 9445 **RUSSIA FEBA** relay via Novosibirsk in EG 1357, IS, ID, "Spotlight", "Captains of Industry", about steel magnate, web site, weak w/static and fades (Barbour NH 1/16)
- 9505 **CUBA RHC** Havana in EG 2108, "DX'ers Unlimited" feature, g, //11760 (Fraser ME 1/12)
- 9510 **ROMANIA RRI** Bucharest in EG 2120, interview abt women in Romanian society, g (Muehling NH 2/7)
- 9525 **SWAZILAND TWR** relay in FR 1937, long relig tlks, orch mx, s/off anmts/IS at 1949 (Barbour NH 1/20)
- 9530 **UNITED KINGDOM R Sawa** relay via Wooferton in AR 2106, mx by Madonna, ID, f (Muehling NH 2/7)
- 9535 **THAILAND R Thailand** in EG/GM 1955, SC ballad, IS, end of EG svce 1959, one min silence and into GM service at 2000, another IS, f-p (Barbour NH 1/20)
- 9580 **AUSTRALIA R Australia** in EG 1320, interview w/Australia classical composer, g (Muehling NH 2/7)
- 9655 **TURKEY V of Turkey** in EG *2300, IS, ID, pips, fqy, sked, national nx, fair (McGuire MD 12/24)
- 9675 **BRAZIL R Canção Nova** in PT 2343-0020, Catholic Mass live before a large crowd, full ID 0018, ment the many stations in their network, armchair reception (Brouillette IL 1/23) ED: Only 10 kw. xmtr. Not bad!
- 9675 **ITALY RAI** Rome in IT 2345, operatic arias, good sig but faded fast, //11800 (Fraser ME 1/11)
- 9705 **MEXICO RMI** Mexico City in SP 0156-0230, tlk, ID's, lite instrum'ls, fqy drift, p-g (Alexander PA 1/16)
- 9745 **ECUADOR HCJB** Quito in EG 0317, "Spotlight" pgm abt Mickey Mouse, SP ID 0330 (Paszkwicz 2/4)
- 9750 **MALAYSIA V of Malaysia** Kajang in IN 1238, nx, mx incl Madonna's "Beautiful Stranger" in EG, fanfare strings at 1257, ID, talks, reception wiped out at 1300 by splatter from CNRs/onat 9755 (Barbour NH 1/20)
- 9780 **YEMEN Rep of Yemen R** in AR 0339, tlks, fanfares, ID?, flutes, tlk overs, f-p weak audio (Barbour 1/6)
- 9820 **INDIA AIR** Panaji in Sinhala 1307, Hindu mx, tlks, f, //7275 Chennai, 15050 Delhi (Barbour NH 1/27)
- 9870nfb **NEW ZEALAND RZNI** in EG 1630, ID for Pacific Service, fqy, ezl rx, off for brief antenna change 1650, back on w/IS and DJ w/island mx, pips, ID 1700, strong S-9+ signal (Treibel WA 2/10, Barbour NH 1/9)
- 9885 **SWITZERLAND SRI/Swiss Info** in EG *2330, features on Swiss expatriates, upcoming events for tourists to attend in Switzerland, //11660 via French Guiana relay (Brouillette IL 1/4)
- 9885 **NEW ZEALAND RZNI** in EG 0940, Peter Fine w/classical mx pgm, mx circa 1950s, nx 1000, ID, item on restoration of radio station on NZ's East coast, nx re Iraq, f (Barbour NH 1/10)
- 9910 **INDIA AIR** Aligarh in Tamil 0041, regional mx w/strings, closing anmts and off 0045 (Dybka TN 2/9)
- 9935 **IRAN VOIRI** Kamalabad in AR 0059, tunes in AR, possible nx, occasional mx, p (Montgomery PA 1/14)
- 9945 **RUSSIA R Vlaanderen Int** relay via Irkutsk in EG/DT 1149, interview, tlk on history of 1601-1603 siege of Ostend by Spanish cavalry, contact info, ID, into DT lang 1200, f-p (Barbour NH 1/12)
- 9950 **INDIA AIR** Delhi in EG 2056, very nice Tabla and Sitar mx, nx 2059 including item on airline crash upon takeoff near Shar Jihah in Iran, ID 2104 (Field FCDX-PA 2/10)
- 9960 **ARMENIA V of Armenia** Yerevan in EG 2050, mailbag, tlk abt historical Armenian monuments in the present territory of Turkey, tlk abt genocide against Armenians in 1915 (Field FCDX 2/10, Muehling 2/7)
- 9965 **PALAU KHBN** in CH 1344, continuous tlks by OM until 1359, YL w/tlk over mx, ID over fanfare, ballads, fair signal through propagation static (Barbour NH 2/6)

- 11625 **SPAIN REE** Noblejas in SP 2103, nx, ID 2105, Morse code sounds and into "Espanoles en La Mar" pgm consisting of nx items w/field rpts, interview, and numerous sound bites, f (Barbour NH 1/13)
- 11665 **ASCENSION ISLAND R Prague** relay in SP * 0000, ID, YL/OM tlkg, mx bks, off 0030* (Field MI 1/17)
- 11715 **INDIA AJR** Panaji in EG 2046, nx re Pakistan and India, ment acts of terrorism against India, Hindi mx, Id at 2059 followed by more nx, weak signal (Barbour NH 1/13)
- 11715 **FRANCE V of Africa** (Libya) relay in EG/FR 1923-2030*, ID, nx in EG, then in FR, strong signal, //11635 which continued bestg after 11715 s/off but with weaker signal (Alexander PA 1/31)
- 11730 **NETHERLAND ANTILLES R Vlaanderen** (Belgium) relay in EG * 2200, ID, local nx, fair (McGuire MD)
- 11750 **AUSTRALIA HCJB Australia** in EG 0920, promos, quiz re "Disciples of Jesus", contemp relig mx, answer To quiz, instrum^{ls}, ID, TC at 0930, feature on "Renewing Your Mind", f-p w/QRM (Barbour NH 1/16)
- 11850 **PHILIPPINES R Veritas Asia** in CH 1314, relig tlks and ballads, EG ID and fqys at 1327* (Barbour 1/16)
- 11860 **FRANCE R Jamahiriya** (Libya) relay in EG/AR 1825, tlk re Islamic women in society according to the Revolutionary Committee's movement, into AR lang at 1835, poor, //11635, 11715 (Muehling NH 1/24)
- 11885 **SOUTH AFRICA FEBA Radio** via Meyerton relay in Guragena? 1623, vocal mx loop, tlks, IS, ID over organ mx followed by more tlks and mx, poor-best in LSB (Barbour NH 1/20)
- 12060 **MADAGASCAR Radio VofHope** relay in EG 0440, tlk abt control of small arms in Rwanda and Sudan & other matters related to neighboring countries in Africa, Afro pops b/w items, ID, s/off 0457 (Barbour 1/10)
- 13650 **CANADA RCI** Sackville in EG 2110, "Maple Leaf Mailbag", RCI Xmas Party, f, //9770 (Fraser ME 1/8)
- 13710 **BOTSWANA VOA** relay in EG 2030, "Nightline Africa", tlk re soccer & first Africa cup (Muehling 2/14)
- 15125 **ASCENSION ISLAND FEBA** Radio relay in FR 1838, relig tlk, instrum^l mx, ID, poor (Barbour 1/27)
- 15190 **PHILIPPINES R Pilipinas** in Tagalog 1920, long-winded tlk in language, ID in EG and s/off announcem^{ts} with fqys at 1930 (D'Angelo FCDX-PA 2/9, Field FCDX-PA 2/9)
- 15265 **SOUTH AFRICA Channel Africa** in EG 1815, nx, mx, and discussions, strong signal (Muehling NH 2/15)
- 15280 **THAILAND BBC** relay in EG 0110, interview with professor on call-in pgm, //15360 (Dybka TN 2/9)
- 15395 **UNITED ARAB EMIRATES R Dubai** in AR 1642, OM discussion, mx to 1700, ID (Muehling NH 2/1)
- 15495 **UNITED KINGDOM UNR Radiorelay** in EG * 1730, "UNToday", tlk re rights of children during wartime, cmntry re Burundi and Tanzanian refugees, Iraq, and cloning, s/off w/sked, 1744, f, //17810 (Barbour 1/20)
- 15495 **GUAM KSDA** Agat relay of AWR in EG 1640, mx, testimonial, ID, relig tlk, s/off 1658, f-p (Barbour 1/20)
- 15820 **ARGENTINA R La Red** Buenos Aires in SP 2352-0047, 2 YL's tlk, pips, ID, ads, f (D'Angelo PA 12/20)
- 17800 **NIGERIA V of Nigeria** Ikorodu in EG * 1959, NA, nx, pgm abt epilepsy, pop mx, over-modulated audio, //15120 w/nice audio (Alexander PA 1/9, Robinson TN 1/28)
- 17660 **FRENCH GUIANA Swiss R Int** in EG 2005, rpt on poor economy and worse local wx, g (Fraser ME 1/12)
- 17780 **SOUTH AFRICA Amateur R Mirror Int** relay in EG 0900, classic guitar, ID/s, songs, Ham nx by OM/YL, heard only on Sundays, f (Botto Fiora ITALY 2/1)
- 17870 **GERMANY R Rhino Int** relay via Juelich in EG 1534-1600*, tlks, ID, vocals, poor (D'Angelo PA 1/11)
- 21470 **ASCENSION ISLAND BBC** relay in EG 1945, tlk re musician who wrote "The Lion Sleeps Tonight" and the subsequent history of the song (Muehling NH 1/24)
- 21570 **SPAIN REE** Noblejas in SP 1555, classical mx w/DJ, ID, g, //21610, 21700 (Muehling NH 2/1)
- 21610 **SPAIN REE** Noblejas in SP 1520, "Espanoles en la Mar" pgm, mailbag including greetings to Barbour, Craighead and "yourstruly" adding "Muchas gracias a los tres buenos amigos, Estados Unidos" (Berg 1/31)
- 21655 **PORTUGAL RDPI** Lisbon in PT, OM announcing sporting event, p-g, //21830 (Muehling NH 2/1)
- 21745 **CZECH REPUBLIC R Prague** in EG 1420, "Czechs Today", interview of award winning film director, Miroslav Forman, nice reception (Fraser ME 1/21)

Clandestine Stations

- 6600 **SOUTH KOREA V of the People Kyonggyi-do** in KR 1142, ballad, tlks, weak but audible w/constant het, tune-out 1204 (Barbour NH 2/4) in KR 1600, YL w/tlks, local mx (Botto Fiora ITALY 2/13)
- 6985 **ERITREA? V of New Sudan** in AR 0400, Afro chants, continuous mx, same tune, bells 0430, fanfare, short tlks by YL, good signal w/slight fades but very poor modulation (Montgomery PA 2/4, Alexander PA 1/10)
- 7380 **SOUTH AFRICA V of Biafra Int** relay in EG 2122, long polit tlk equating situation of Biafrans in Nigeria to that of Hebrew slaves in Egypt during Exodus, ID, fqy, good sig w/some QRM (Claire NY 2/14)
- 7460 **ALGERIA R Nac de la RASD** in AR/SP 2302-0002*, vocal sel prior to closedown of AR xmsn, into SP ancmts, continuous mx, nx in SP, sign off ID, short NA, good signal (D'Angelo PA 1/29)
- 9820 **GERMANY V of Ethiopian Medhin** relay in Amheric * 1559, flute mx, ID, nx, chants, f (Fiora ITALY 2/8)
- 9820 **GERMANY V of Oromo Liberation** relay in Oromo * 1700, ID, Horn of Africa mx, tlks, f (Barbour 1/20)
- 17565 **nf SOUTH AFRICA Educational Development Center "Mustaqbal"** relay via Meyerton in Somali/EG 1203, Somali tlks and Horn of Africa mx, ment ED C in both langs, deep fades, f (D'Angelo PA, Berg MA 2/10) 

17th Annual Winter SWL Fest

Sponsored by **NASA**

March 12-13, 2004

Best Western—The Inn at Towamencin
(formerly Holiday Inn),
Sumneytown Pike, Kulpsville, Penna.

Plan to attend your favorite forums Friday and Saturday. Enjoy meeting with your friends in the Hospitality Room. Bring radio related items for the swap meet or to donate for the Silent Auction. Check out your friends' receivers, bring one of your own for others to try!

No frills; just shortwave, longwave, mediumwave, pirates, and scanning. Once again you will enjoy the camaraderie of your hobby friends.

Please note, there is an incentive for you to pre-register, as prices are more expensive for those who wait. Registration options are also more flexible than in the past, with new one-day and student registrations. **If you wish to participate in the meals, you must register and inform us that you will be attending by Thursday morning, March 11th.** If you choose not to participate in the meals, the hotel has a restaurant, and there are other restaurants nearby.

Your registration must be received by March 1, 2004 (note the earlier date) for the best prices; registrations received after that date are priced higher. See the registration form below.

Many things, like the raffle, remain the same:

GRAND PRIZE To be announced

SPECIAL Register early to win a SW portable! One free entry for an early-bird registration received by February 15, 2004.

Please bring items for the Silent Auction. Proceeds are donated to charity.

Checks should be made payable to WINTER SWL FEST. Register directly with the hotel for your rooms by calling the Best Western at (215) 368-3800. For 2004, one special rate \$75 single or double! Tell the hotel staff you're with the WINTER SWL FEST to receive this special room rate. *You must make your reservation directly with the hotel to receive this rate; reservations via the Best Western 800 number or web site are not eligible for this rate.* Up to the minute info. can be found on the Winter SWL Fest Web Page at <http://www.swlfest.com/> or from <http://www.anarc.org/naswal/>.

The Best Western—The Inn at Towamencin is located at Exit 31 of the PA Turnpike Northeast Extension-Lansdale Interchange. Improved access from the south with the Blue Route (1-476)—ask for details. Limo service is available from Phila. Intl Airport directly to the hotel.

Please submit the following form with your registration amount or send for more information to:

SWL WINTERFEST
P.O. Box 4153
Clifton Park, NY 12065

NAME: _____ (SPOUSE'S NAME) _____

ADDRESS: _____

CITY: _____ E-MAIL: _____ (REQ. FOR REG. CONFIRMATION)

CHECK ONE OR MORE

REGISTRATION RECEIVED BY MARCH 1, 2004:	LATE OR ON-SITE REGISTRATION RECEIVED AFTER MARCH 1, 2004:	BANQUET:
<input type="checkbox"/> Full (\$47)	<input type="checkbox"/> Full (\$55)	<input type="checkbox"/> Roast Beef
<input type="checkbox"/> Two-Day Partial (\$17)	<input type="checkbox"/> Two-Day Partial (\$20)	<input type="checkbox"/> Chicken
<input type="checkbox"/> One-Day Partial (\$9)	<input type="checkbox"/> One-Day Partial (\$10)	RAFFLE TICKETS:
<input type="checkbox"/> <i>New!</i> Lunch-only Saturday (\$23)	<input type="checkbox"/> One-Day Partial w/Lunch (\$25)	<input type="checkbox"/> raffle tickets, please
<input type="checkbox"/> <i>New!</i> Spouse Lunch-only Sat (\$13)	<input type="checkbox"/> Full Spouse/son/daughter (\$40)	(\$1 ea./ 6 for \$5/ 13 for \$10)
<input type="checkbox"/> Full Spouse / etc. (\$32)	<input type="checkbox"/> Banquet only (Spouse) (\$25)	Registration Fee Enclosed \$ _____
<input type="checkbox"/> Banquet only (Spouse) (\$19)	<input type="checkbox"/> Spouse etc. Lunch-only (\$15)	Raffle Tickets Fee Enclosed \$ _____
<input type="checkbox"/> Student (\$5)	<input type="checkbox"/> Student (\$5)	Total Check/Money Order \$ _____

Registration cancellations after 2/28/2004 cannot be refunded, however we will refund raffle ticket money if you have to cancel.

Company Store

Mike Wolfson KB8TYT • 1842 Mifflin Ave. • Ashland, OH 44805 • mwolfson@bright.net

The following items are available through the Company Store. Shipping is extra as noted.

Publications

Shortwave Listening Guidebook by Harry Helms. A beginners guide to shortwave listening covering equipment, antennas, propagation, station profiles, utility stations, clandestines and QSLing. 315 pages.	\$19.95 +2.00 s/h US/CA +3.00 s/h world
Underground Frequency Guide by Donald Schimmel. An in-depth look at illegal radio communications, pirates, spies and more. Extensive frequency list. A must have for pirate and clanny fans.	\$11.00 +2.00 s/h NAM +3.00 s/h world
Joe Carr's Receiving Antenna Handbook A complete guide to high performance receiving antennas from long-wave to the upper end of the HF band by one of the acknowledged experts in antenna theory and design.	\$19.95 +2.00 s/h US/CA +3.00 s/h world
Joe Carr's Loop Antenna Handbook Comprehensive but readable guide to understanding and building loop antennas for LW, MW, SW, and VHF. Includes many diagrams.	\$16.50 +2.00 s/h US/CA +3.00 s/h world
Shortwave Receivers, Past & Present by Fred Osterman. A very comprehensive must have book for anyone interested in buying or collecting shortwave radios covering over 770 different models. Includes amateur and commercial receiver produced in the last 55 years. Over 800 photos. 473 pages.	\$21.00 +2.00 s/h US/CA +3.00 s/h world
Communications Receivers: The Vacuum Tube Era 1932-1981 (4th Edition) by Ray Moore. Covers the golden age of vacuum tube receivers. If you think "real radios glow in the dark" you'll enjoy this book. 141 pages.	\$17.00 +2.00 s/h US/CA +3.00 s/h world
Farrell's Confidential Frequency List (12th Edition) Compiled by Kevin Nice. A definitive source of information about frequencies, callsigns and related information for the dedicated ute listener interested in signals from 2-30 MHz. 512 pages!!	\$24.50 +4.00 s/h NAM +8.00 air world
Passport to Worldband Radio 2004 Considered by many to be a great source of information about short-wave stations for new or experienced listeners, frequencies in use and schedules.	\$20.95 +4.00 s/h NAM +8.00 air world
World Radio and TV Handbook 2004 Long considered to be the bible for shortwave listeners. Newly revised and updated for 2003. Includes contributions by Anker Peterson, Paul Ormandy, Victor Goonetilleke, Jose Jacob, Dario Monferini and many others.	\$27.95 +4.00 s/h NAM +8.00 air world
NASWA Country List and Awards Program Booklet	\$3.00 PP US/CA \$5.25 elsewhere

Please make all checks payable in U.S. funds to "The NASWA Company Store". If you want to place an order, I'll be able to fill it for you. That's it for now. Have a good month. 

North American Shortwave Association
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Levittown, Pennsylvania, 19057

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Overseas (Air Mail):	
<i>Central & South America and Europe</i>	\$36.00
<i>Asia, Africa and Pacific</i>	\$42.00

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



NASWA: <http://www.anarc.org/naswa/>