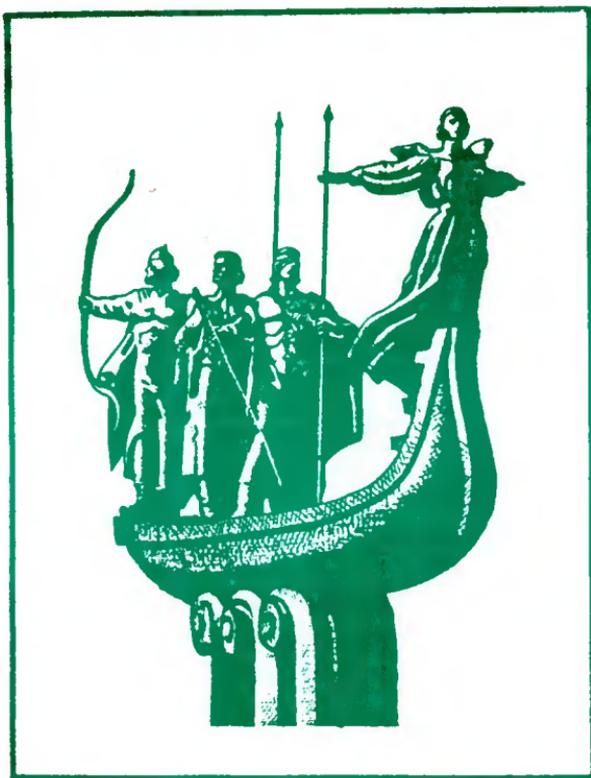


The **NASWA** Journal

VOLUME XL NUMBER 3

MARCH 2000

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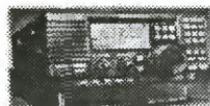
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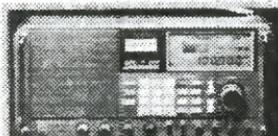
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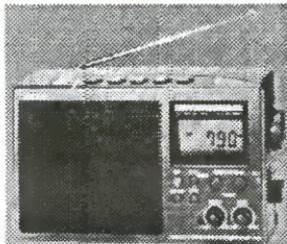


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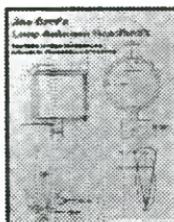
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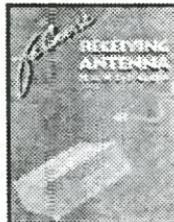
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In just a few days time, the 13th annual **WinterswL Festival** will be held in Kulpsville. March 10 and 11 will be big days in the radio monitoring hobby as **Rich Cuff**, **John Figliozzi** and a pile of hobby folk bring together this annual tradition in the listening community. It's never too late to register to attend this wonderful event. The program will offer a little something for everyone who attends and there will be a few surprises mixed in to keep everyone on their toes. If you have not registered, please do so now. Don't miss out! Check out the Calendar of Events and the registration form, which is in this edition of the *Journal*.

March is a busy month with two special events. The first is the **Winter swL Festival** mentioned in the opening. The second is the **North American DX Championships** ("NADXC"). If you can't be in Kulpsville, then you should be competing in the NADXC organized by our own **Harold Cones**. Dr. DX promises another terrific opportunity for members to lose sleep and perform anti-social behaviors for the good of the short-wave listening hobby. Check prior issues of the *Journal* for complete contest rules and information. Let's try to boost the number of NASWA members that participate in this event.

From **Jon L. Williams** we learn of a new group of DXers forming in Indiana: "A new DXers group has been formed in Indianapolis, Indiana. The name is CIRCL (Central Indiana Radio Communications League) and we would like to welcome participation by anyone interested in the various aspects of DXing. Our next meeting is at 5:30 p.m. on Tuesday, March 21, 2000, at the Cozy Restaurant, 20 N. Pennsylvania Street, Indianapolis, Indiana. If interested, please contact Scott Newman (317) 327-5662."

Harold Cones has replaced **Kris Field** as the club's representative to the Association of North American Radio Clubs ("ANARC"). As

many of you know, Harold is a member of ANARC's Executive Board. Since he is already immersed in ANARC business, we thought a little more responsibility would help him fill up those idle moments. Thanks to **Kris Field** who filled this important slot for many years.

Congratulations to **Bill Cantrell** of the Longwave Club of America ("LWCA") who is the winner of the "H. John Clements Memorial Award" for 1999 for the fine work he has done for the LWCA over the years.

DX Clube Paulista ("DXCP"), a DX club founded on October 17, 1981, announced that it is changed its name, effective February 1, 2000 to **DX Clube do Brasil** ("DXCB"). Despite the name "Paulista" (from the State of São Paulo), DXCP has always been a national club, with members and editors from all over Brazil. After 18 years of non-stop activities, the club has a monthly publication, a Web site, effective support to radio programs and meetings, and a high number of members making DXCP the most representative club of DXers in Brazil. The club's profile will not be changed, but DXCB plans to increase its presence by means of a wider strategy within the national and international DX scene. The club can be contacted at **DX Clube do Brasil**, Caixa Postal 592, 13560-970 Sao Carlos SP, Brazil. The above information came direct from **Samuel C. Martins Santos**, **Marcio R. F. Bertoldi** and **Carlos Felipe da Silva**—DXCB Coordinators.

Just another reminder that the club's *Country List and Awards Program* booklet is still available from The Company Store (**Dan Cashin**, 1335 Harrington Rd., Havertown, PA 19083) or headquarters. The price is US\$3.00 on North American and US\$5.00 worldwide.

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



Calendar Of Events

- Mar 10-12, 2000 Convention.** The 13th Annual Winter SWL Festival will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 10-12 March 2000. Richard Cuff and John Figliozzi co-chair the organizational committee.
- Mar 11-13 Contest. 2000 North American DX Championships.** For further information you can send a self-addressed stamped envelope to 2000 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Rules will also be posted eventually at <<http://www.anarc.org/>>, and are published in this month's Awards column in the Journal.
- Mar 17 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.
- Mar 17 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.
- Mar 21 Meeting. The Central Indiana Radio Communications League** will meet at 5:30 PM at the Cozy Restaurant, 20 N. Pennsylvania Street, Indianapolis, Indiana. If interested, please contact Scott Newman (317) 327-5662.
- Apr 14 Meeting. The Tidewater SWL's** meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net
- Apr 14 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <mmeece@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- May'00 Annual General Meeting.** The Danish Shortwave Club International will hold its AGM and DX Camp at Vejers Beach, Western Jutland, Denmark from May 12-14, 2000. Contact Bent Nielsen (Egekrogen 14, DK-3500 Vaerloese, Denmark) for further details.
- Aug'00 DX Meeting.** The 6th National Mexican DX Meeting will be held in Oaxaca, Mexico from August 4-6, 2000. For details contact the organizers at Miraizos@gnp.com.mx.
- Sep'00 Contest. AWR Contest.** Number of different QSL stamps in the listener's collection. More details to follow.
- Oct'00 Conference.** The annual EDXC Conference will be held in Barcelona, Spain from October 12-15, 2000 (temporary date until further notice). Details to follow.
- 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).
-

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Fred Kohlbrenner** (2641 South Shields Street, Philadelphia, PA 19142). He will forward them to the appropriate editor. Remember, Fred has now expanded his business to include QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: fkohl@ix.netcom.com.

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.

Jerry Klinck, 11943 Big Tree Road, East Auroar, NY 14052

Just thought I'd let you all know how much I enjoyed the series on ANARC. It certainly brought back some interesting memories of my early years as a DXer. When it looked as if the ASWLC was going to fold, in the early '60's, I was only 19 years old. The mainstay of the club at the time was C.M. Stanbury. His severe case of M.D. did not lend itself to his editing and publishing the bulletin but my admiration for and proximity to him made me the natural choice. So, with encouragement and support from some wonderful member DXers, I did what I could. I still have a few of those old ASWLC bulletins, but not much about the early ANARC years. And, until I read your material, I had almost forgotten that I ran for the office of Executive Secretary.

I do remember, however, scraping together what few funds the club had to purchase a new Sears mimeograph machine. That would be the one with a one-year warranty that lasted, you guessed it, 13 months! It literally came apart at the seams... ink everywhere! I remember Mr. August Balbi, a great supporter and contributor. He taught me how important a few kind words of encouragement can be. Solid gold! "Chuck" Stanbury, DXing and typing with his toes better and faster than I could with my hands. Bill Sparks—Mr. DX. His loggings never ceased to amaze me. Stewart MacKenzie—Hats off to him for all the years he kept ASWLC afloat.

I guess, having the insight of one who has been an Editor/Publisher of a DX club bulletin, I can truly appreciate all that is involved and the fine job that all the folks at NASWA have done over the years. Bill Oliver, Bill Eddings—simply amazing! The entire editorial staff: Rich, Sheryl, Fred, Jerry, etc. Sam Barto—simply the best, most complete comprehensive QSL column anywhere, ever. I just hope that our general membership realize what a fine organization NASWA really is. If you were to belong to just one DX/SWL club, it would have to be NASWA.

Thanks again for the ANARC series. As you can see, it cleared some cobwebs and jarred some nostalgic memories loose from the clutches of father time. Jerry

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

Our third and final DXpedition of the season, and sixth overall, to French Creek State Park is now history. This DXpedition was another traditional Thursday through Sunday affair. Fred Kohlbrenner, Bob "Mr. Coffee" Montgomery, Ed Mauger and George Zeller rounded out the group. We were treated to about two inches of fresh snow while we erected antennas and unloaded equipment on Thursday. Combined with over a foot of leftover snow, running long wire antennas was an adventure. Hiking up antenna ridge in knee high snow was a challenge. I returned to the cabin tired and wet from the new and the old snow. Later, George Zeller and Ed Mauger made similar snowy antenna treks up the hill.

The snow covered roads made entering and exiting the park interesting. After George strung his antenna, he adventured to the nearest grocery store. Unfortunately, while backing out

the long winding driveway, he got caught in a snow bank. Mr. Coffee was able to free him and George was able to go along his merry way. We thought Ed Mauger was a "goner" when he set out to unravel his 300-meter long wire up snow covered antenna ridge. A real game day player to the end, Ed returned snow crusted, perspiration drenched, and tired. This was probably the most difficult set-up day I can recall after all these many DXpeditions. We were treated to small amounts of additional snow on Friday but things began to warm up a little by Saturday.

We did get some time to DX. For a while it seemed all we would do on Thursday would be to set-up the cabin for the weekend. Slowly, we managed to get to the dials and do some listening. Conditions appeared pretty good with a monster signal from RRI Jambi around 2230 until it faded sharply just after the Song of the Coconut Islands at 2258. However, as time marched on it became clear we would be struggling with propagation conditions the entire weekend. Sometimes conditions would be good and sometimes conditions were far from good. A mixed bag but there were some nice Europirate openings and I logged a new Indonesian so things were too bad.

The food department constantly improves. This trip Fred was busy serving shrimp cocktail prior to the traditional Friday evening pasta meal. The meal included meatballs and a nice French loaf courtesy of Ed Mauger. Things keep changing for the better although early Sunday morning Fred found a cheesecake buried in the freezer, which went uneaten.

From the interesting insights department are the adventures of Uncle Fred Kohlbrenner. It seems ol'uncle Fred had to go into work to do the payroll Thursday evening. Because of the weather, he departed almost as soon as he had his listening post set-up complete. It took over three hours for him to make it home as the snow made the roads and traffic conditions awful. After a long night shift, Fred returned late the following morning after another hazardous drive to the cabin. At this point he was functioning with little or no sleep for 48 hours. Last seen, Fred was resting comfortably. Unfortunately, I'm not sure he had an opportunity to DX at all on this DXpedition.

The final highlight belongs to a confused, bewildered George Zeller. Because of his long drive back to Ohio, George decided to get a jump on the trip home by being the first to tackle dismantling his antenna. Keep in mind that George slept for about 10 hours prior to his adventure. He waltzed out of the cabin to return about 20-25 minutes later with a huge pile of yellow wire rolled into a ball. George couldn't believe someone stole his reel for the antenna, which he left at the end of his 500-foot installation. As he shared his adventure, he began to realize that he might have torn down the wrong antenna. Sure enough, our buddy George dragged in Ed Mauger's 984-foot monster antenna, which also happen to be yellow. As George was heard saying, all yellow antennas and trees look alike to me. Incidentally, Ed managed a nice log of Nepal while George was doing the damage. Last seen, a confused and bewildered George was driving down the highway on his way back to Ohio quite proud that he was the first DXer to tear down the wrong antenna.

73 -RAD

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One week to the 'Fest!

I look forward to meeting many NASWA members at the 13th Annual Winter SWL Fest, just a handful of days away! Please let me know of any suggestions, ideas, criticisms, etc. for the column, subjects, etc. Your input makes a difference!

BBC World Service Schedule: Here we go again!

I figured I should put this in the March *Journal* so I can't be accused of pulling an April Fools' prank on you. As of April 2nd, the BBC will be switching from 3½ regional program streams to 8 streams based on a listener's time zone. This is to eliminate the twice-annual shuffling of program times, and to keep all programs of a given type at the same time day-to-day. This consistent timing is done already to some degree—0030 UTC is normally a science program; 0530 is a music program. The promise to keep from shuffling program times will be interesting to watch; that hasn't happened yet, and I know John Figliozzi rues the amount of work that's been needed every six months to update his database of programs.

In the *swprograms* mailing list, it was observed that the Americas stream has been shuffled much more often the past few years than has the African service; there, program times have stayed consistent. Perhaps that's the reason the African service has a more stable and loyal listenership.

The reasons for this switch to 8 streams? The BBC claims that most listeners want to listen to specific types of programs at a specific time of day. For example, most people want news magazines in the morning, as they're sipping coffee or tea.

The current editions of *The World Today* are timed, with the exception of North America, at the breakfast hour in Europe, South Asia, and East Asia. Here in North America, we have *World Update*, which airs only for one hour at 0900 or 1000 UTC, depending on the status of daylight time. All this is fine, but I'm concerned that listening patterns in North America might be different than, say, Nairobi, London, or Singapore. Only time will tell; full details are promised for release in the April issue of *BBC On Air*; I might be able to obtain an early indication with the advance press information, typically available about 10 days before *BBC On Air* arrives.

Other changes will be the amalgamation of programs with common themes into more of a magazine style program. For example, *The Farming World* will disappear as a separate program, with farming issues to be incorporated into the science program *One Planet*. The stated intention is to widen program appeal; perhaps that's a euphemism for seeking a younger audience.

Meanwhile, the BBC has generally been talking about providing two World Service streams via satellite and the Internet;

I will believe all this when I see it. Frankly, my personal needs would be better met if the BBC put all of its non-news programs on the Internet for on-demand download, the same way *Deutsche Welle* organizes their website.

More on the BBC World Service highlights for March later in the column.

Radio Netherlands Changes

Jonathan Marks briefly mentioned in the March 17th *Media Network* that **Radio**

Netherlands would be making some significant changes effective with the spring schedule, specifically that *Newsline* was becoming a half-hour program, doubling in length. As Andy Sennitt later detailed in *swprograms*, here's how the new schedule will look, with all times relative to the start of a particular transmission (e.g. 2330 UTC):

:00--:30 **Newsline** including *Press Review*
:30--:60 Feature Program #1
:60--:85 **Newsline**
:85-1:25 Feature Program #2

I'd guess that *Newsline* will probably begin with a short live newscast, as does Deutsche Welle's *Newslink*.

Upcoming Radio Netherlands documentaries include:

March 9/10: *Invisible Scars* takes a look at the psychological scars of the 9-year Sierra Leone civil war. According to Sierra Leone's only psychiatrist, "anybody who was in the country over the past decade has suffered some form of trauma". A recent survey carried out by the Dutch branch of Doctors without Borders shows very high levels of trauma among the general population. There is mounting evidence that trauma must be addressed to ensure lasting peace.

March 16/17: *The Jews in Poland* (no additional information available)

March 23/24: *The Jews in Berlin* (again, no additional information available)

March 30/31: in Part One of *Afrikaners*, Marijke van der Meer and Helene Michaud look at the Afrikaners Today, their culture and identity in post-apartheid South Africa.

Documentaries air, for now, at 0052 and 0452 Thursdays, and 2352 Fridays.

Swiss Radio International—No More Rendezvous

Without much warning, **Swiss Radio International** has eliminated *Rendezvous With Switzerland*, the half-hour features program that aired at 0430 following the current affairs program *World Radio Switzerland*. Instead, the 0430 program is now just a repeat of the 0400 program. While I found the number of musical breaks within *Rendezvous* to be excessive to my personal taste, the program put a more human face on Swiss culture and life than the more sterile *World Radio Switzerland* program afforded.

The reason offered for this cutback: More resources needed for Internet development. Interestingly, a couple months back, SRI had mentioned in their web site that a review of SRI broadcast resources would be conducted in 2002, with the likely outcome that Internet resources would require additional funds, perhaps at the expense of shortwave. This seemed to suggest that no cuts would be needed before 2002, but reality appears to have dictated otherwise. John Figliozzi contacted SRI staff to register his disappointment, but it appears a higher level management decision was responsible.

Program Reviews

First, Peter Bowen posted this review of **Radio Sweden's Money Matters** in the *swprograms* list:

"For a small station, Radio Sweden puts out some very good programming. This show is a good example of that quality programming.

"*Money Matters* is a ten-minute program broadcast each Wednesday, as part of the larger general magazine feature *Sixty Degrees North*. The program is devoted to economic and business affairs, especially as they relate to Sweden, and is hosted by Nidia Hagstrom.

"The stories featured on the program seem to focus on new business ventures. No time is devoted to news of the capital markets, however. This is a wise decision on the part of the show's producer, as not only is the program too short for this, but there are other shows that provide this type of information (primarily *World Business Report* on the BBC World Service).

"Two to three stories are featured in each edition. It seems that almost all of the stories are phone-out interviews on the topic under discussion, frequently to those who are actually involved in the story. Although this is a good format, I would like to see more "out-and-about" features on the program, always adhering of course to the show's theme. The station's reporters do a good job of these on-location reports in other segments of *Sixty Degrees North*.

"Although both the presenter and the interviewees have slight accents, none that I have heard are in any way troubling, and in fact sound rather pleasant to my ears. In addition, Nidia Hagstrom comes across as being both quite professional and competent, though perhaps a tad wooden at times.

"*Money Matters* is a good example of a program that, although focusing on one topic, presents stories in such a way that they frequently have much wider appeal.

"And therein lies the key to success for the small, 'nationalistic' stations: Present stories related to the host country in such a way that they appeal to those listeners who may not have a strong interest in the host country."

Along the same lines, Joe Buch added his thoughts about a business program on CFRX:

"The best source of Canadian business news that I have found on shortwave is *Morning Business Hour* airing at 0900 UTC on CFRX 6170 kHz. I stumbled across it one morning in a moment of insomnia. The

program consists of stock market reports for the various Canadian exchanges plus in depth stories on various Canadian companies. So if you are into such things as penny mining stocks you may want to give a listen."

BBC World Service—March Highlights

Here are some of the highlights for the World Service in March.

Drama and the Arts

Mondays from March 13th, 0130 and 1430: *Songs of the Earth*—Songs of love and loss, of longing for ancestral land, and birth and death are interwoven with the stories of ordinary people whose lives are mirrored in the lyrics of their music, in this new three-part series of ballads from around the world.

Tuesdays—Saturdays, March 7th-25th, 0445: *Off the Shelf* features Salman Rushdie's *The Ground Beneath Her Feet*, read by Art Malik.

Saturdays, 2230: *Play of the Week* features include:

March 11—*What Now, Now That We Are Dead?* satirises the state of a nation and political corruption, and is adapted from the successful stage play by Pakistani writer and journalist, Mohammed Hanif.

March 18—*What You Get and What You Expect* is a drama involving the European Union bureaucracy, a French love triangle, and outer space. Originally a stage play by one of France's major new young writers, Jean Marie Besset.

March 25—*Taking Sides* is a play based on John Graham Davies' volunteer work delivering aid to Tuzla in Bosnia in 1993. Listeners, like Davies' convoy, meet peacekeepers, dissidents, and townspeople of every ethnicity, and are confronted by their complex, disturbing, and sometimes absurd stories.

April 1—*The Diving Bell and the Butterfly* tells the story of Jean Dominique Bauby, the 42 year-old editor-in-chief of *Elle* magazine in Paris, who slipped into a coma and emerged three weeks later, discovering he was suffering from locked-in syndrome—a condition whereby the sufferer is paralyzed and unable to speak, but retains all his intellectual faculties. The one movement Bauby could make was to blink his left eyelid. By doing this he devised a code for each letter of the alphabet and began to “dictate” a book—a book that has become a worldwide best seller. It is an immensely moving personal story, written with great poignancy and surprising flashes of humor. The author died four days after the book’s publication.

Classical Music

Sundays, March 19th and 26th, 1601: The rich tradition of Russian music is celebrated in this month’s *Millennium Concert*, which comes from the historic Great Hall of the Moscow Conservatory, opened by Tchaikovsky in 1866. Yuri Bashmet leads The Moscow Soloists, Russia’s leading chamber orchestra.

General Features

Sundays, beginning March 12th, 0530, and Tuesdays, 0230: *Oiling The Wheels* is a three-part, 30-minute series looking at the culture of corruption and shady dealing. Annette MacKensie examines the effects of such secretive practices on the world of politics, business and everyday life.

Sundays, beginning March 5th, 0030; Tuesdays, 0645: *Talking Peace* is a four-part 15-minute series exploring the role of language in peacekeeping activities.

Current Affairs

Monday, March 13th, 1030: Queen Elizabeth will deliver her annual *Commonwealth Day* message; at 1515, the BBC will air the *Commonwealth Day Observance* from Westminster Abbey.

Thursdays, 1130: *Assignment* will mark the one-year anniversary of NATO’s Kosovo air strikes (March 23rd) and new water projects in the Nile Valley in Egypt (March 30th).

Saturdays, 0230: If you’d like to take a break from the political campaigns in the US, and find out what’s happening in the British political scene, tune in to *People and Politics*. It’s one of the few World Service programs that focus on news from the UK, now that *Network UK* is long gone from the schedule.

Religion

Wednesday, March 22nd, 0430; Friday, 1515: Icons, sacred pictures normally painted using egg tempura, and their importance in the Orthodox Christian tradition of spirituality and worship is explored by Tabitha Morgan in *Windows to God*.

Internet Programming Resources

Don’t forget that NASWeb, <http://www.anarc.org/naswa>, hosts John Figliozzi’s *WWW Shortwave Listening Guide*, the best reference available for comprehensive programming schedules aside from John’s book, *The Worldwide Shortwave Listening Guide*, available from Radio Shack and Tandy stores.

Also, don’t forget our E-mail based discussion group (“reflector”) on shortwave and international broadcast programming; to subscribe send an E-mail message to swprograms-subscribe@topica.com.

Until next month, good listening, and see you at the Fest!

73 DE Richard



Shortwave Center

Jerry Lineback • 506 South Lawrence Avenue • Scranton, KS 66537 • jalinebk@satelephone.com

Help!!

Your editor needs contributions for SWC from You!

Material for Shortwave Center is getting a little thin and dated. I need more contributions from you. Original articles are especially needed, long or short, on any acceptable subject of interest to readers of the *Journal*. So indulge yourself by becoming an author.

I hope the shortwave bands have not been as bad for you as they have been here this winter. On February 14 and 15, geomagnetic activity was exceptionally high and most P/NG, Indonesian, and Indian stations could not be heard on 60 to 120 meters. Prior to that, the P/NG stations had reappeared weakly from their absence around the winter solstice; I had even heard 2410 near fair levels in early February when conditions were quiet. They have been largely unheard this week (through February 20).

Reception to Indonesia has been up and down, but my general impression is that conditions are less favorable than last year from the same location. Likewise, the Indian stations are often heard at low levels, peaking about 1300. But on no day that I have been listening this entire winter, have I heard what I would consider an exceptionally good, or even fairly good, opening to SE Asia. Signal strengths tend to drop sharply shortly after local sunrise, eventhough some stations, like Pt. Moresby and Ujung Pandang continue to hold in past 1400 to nearly 1500.

Amateur Radio Operators have also reported generally poor conditions for DX, eventhough the solar flux has risen to near 200 at some times. The general opinion is that the current solar cycle has not lived up to the pre-cycle hype (Does Anything?). Also, the cycle may peak at a lower than expected level. Chaos rules!

Speaking of Amateur Radio, and many of our faithful shortwave DXers are also hams, including ye editor, the FCC announced a restructuring of the amateur licensing system to simplify it to three license classes, Technician, General, and Extra. The code requirement has been reduced to one speed, 5 words a minute, for all classes. Many Technician hams who qualified for 5 WPM never upgraded because of the former higher speed code requirements. Now they can move up to General and Extra licenses by passing an examination on rules, regulations, and radio electronics. Likewise, hams who were general or advanced licensees, but could not raise their code speed to 20 WPM, can now advance to Extra by passing the examination. Hopefully, this restructuring will increase interest in Amateur Radio by younger persons. There was the expected outcry from the WWII generation of ham operators who loved the code and could copy code in their head at unbelievable speeds. However, they are quickly passing into history and the FCC came to see that the former code requirements were archaic and inhibiting the progress of amateur radio.

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Therefore, I invite all who are interested in yacking on the radio as well as listening to contact your local Amateur Radio Club for information on test sessions and availability of study materials. The new question pools are on the Internet at <<http://www.arrl.org>> and become effective on April 15, 2000.

I read with interest the comments of Bob Padula in the February 2000 *Journal*. Bob is a person whose strong opinions in regard to the radio listening and DXing hobby have made him an international legend in his own time. In any case, his comments apply equally well to the Amateur Radio community. Radio is a hobby for those of us whose entertainment as children was to listen to the radio. Radio has less attraction to those who grew up in front of the TV or now, in front of the computer. Nevertheless, "wireless communications" (the old term resurfaces dressed in new garb for the New Age of Man) are becoming ever more important in the life of every earthling. Hey, your cell-phone is a

two-way radio after all and your satellite dish is receiving weak radio signals from outer space.

NASWA is exceedingly lucky in having a significant number of long-time radio hobbyist who work together to keep the *Journal* going and interest in the hobby alive in North America. Many of these people are actually younger than I am. Nevertheless, most are in their 50s now and a few in their 40s. Where have all the eager 20 somethings gone? Off to cyber space, I guess. But I appreciate Bob's perseverance. We will keep it going as long as we have breath, mate.

A Central Asian DX Trip

by Maarten van Delft, The Netherlands

(This article first appeared in the Danish Shortwave Club International Shortwave News in January, 1999.)

One thing usually leads to another... In 1993, a trip through the 3 Baltic states was much enjoyed, not in the least for the DX aspects of it: several radio stations were visited and some QSLs were obtained on the spot. Last year we enjoyed visiting Turkmenistan, another former Soviet state, and popping in at Turkmen Radio not only resulted in a much wanted QSL, but our visit was even featured in an Ashgabat newspaper.

I have always been a keen fan of combining holiday trips with visits to radio stations. Over the past 37 years I have visited over 200 stations in some 85 countries around the world. This year my girl-friend and I decided to explore some more former Soviet states and chose to go to Uzbekistan, Kyrgyzstan and Kazakstan. I could fill many pages about our experiences on this journey, but I will confine myself to the DX part of it. Let me just say that it was a rough trip, often under rather primitive conditions: it is not for everyone...

In Uzbekistan, we were quite impressed seeing the ancient cities of Khiva, Buchara, and Smarkand with their numerous samples

of Islamic art and architecture. Samarkand Airport was on my list as a target for a DX visit. I had heard them early in 1998 on 3467 kHz in contact with Lahore Airport, but a reception report had remained unanswered. Our visit was short and sweet: the female air navigation officer understood my hobby, as her husband used to be a radio amateur. So the first 5 years of her marriage had been a bit of hell: they had to live in only one room with him highly radio active! We chatted a little more over some green tea and then I got my QSL.

In 1962, I got my first letter and QSL-card from Radio Tashkent and during our visit to the English Section, I showed photo-copies of what I had received back then. The veriesigner is still alive and well, now working in the hotel business... Very close to Radio Tashkent is the chimes tower, featured in the sixties on their common blue QSL card. It was quite fascinating to see (and hear!) this tower after all these years. We were interviewed for the English language programs, and after a nice lunch in the canteen, it was time to say goodbye to these friendly people.

While most of Uzbekistan is a desert country (except for the Ferguana Valley in the east), Kyrgyzstan is a mountainous country of incredible beauty. Because of its proximity to China and the fact that the Soviet Navy used some huge lakes there for testing weapons, Kyrgyzstan was formerly always

closed to foreigners who traveled in the USSR on Intourist tours. But also non-resident Soviet citizens needed special permission to go there. And now you can just go there and enjoy its fabulous scenic beauty and the great hospitality of the people who are mostly nomads. After trekking in the Pamir Mountain Range, we started heading towards Bishkek. It is a much more modern and developed city than we had expected. It is very green too, and in fact has more trees per inhabitant than any other Asian capital. We found the people friendly and helpful, usually with a ready smile.

Of course, Kyrgyz Radio was a target for a visit, as not many QSLs are received from them... For me, Kyrgyzstan would be EDXC country 255 confirmed, so off we went... I spoke to the very first person we saw at the main entrance. He proved to be the right man indeed; the technical director of radio & TV. A minute later we were in his spacious office, after going through what seemed to be a dark labyrinth.

I brought a recording I had sent with a report 4 years ago. He pressed a button on his desk and in came a secretary whom he ordered to bring a cassette recorder. He listened intently and recognized a program about politics and economy. He mentioned the presenter's name and said: "I can confirm your reception of Kyrgyz Radio!" I asked him to sign and stamp the QSL I had prepared. After doing so, he again pressed the button to call his secretary from an adjacent room. He asked her to stamp my QSL and she soon returned with my precious little document. I then inquired about their news bulletins in English and German. He again pressed the little button and his secretary instantly reappeared with a radio & TV guide showing the times of these news bulletins. Leaving the building only 30 minutes after entering it, I told my girl-friend: "Mission completed!"

It is only 4.5 hours by bus from Bishkek to Almaty: another DX target. Although I already had a Radio Nederland QSL for their Kazakstan relay, I surely wanted to see that rarely verifying Radio Almaty. But there was

also Almaty Airport which had not QSLed my report regarding a radio contact with Ashgabat Airport on 4669. (By the way, Almaty—formerly Alma Ata—is no longer the Kazak capital city. The capital is now more centrally located Astana, which was for a while known as Aqmola.)

I first reported Radio Alma Ata's German-language Home Service Program 35 years ago. They were then easily heard on the out-of-band frequency of 10530 kHz. These programs were intended for descendants of the so-called Volga Germans, early settlers of the Volga region who were deported further east by Stalin who feared that they would collaborate with the invading Nazis.

I had another go at Radio Alma Ata 13 years ago, but again without any result to my report. After Kazakstan's independence, Radio Almaty International was formed and 4 years ago I reported a program in English on 5260 kHz, but again no QSL. It seems, however, that their present German Section sometimes does QSL with a nice kind of certificate...

We first visited Radio Almaty on a Saturday afternoon. Nobody of the English and German Section was in, but nice team members of "FM 101" (the commercial home service) received us very friendly in the aging building. We were given a nice calendar and a CD and cassette with traditional Kazak music.

We decided to return to the station Monday afternoon and found some members of the English Section in a small room, decorated with post cards from many countries... On a desk was an envelope containing more post cards still, as well as several IRCs... On the desk I also spotted a letter from Lars Ryden, a former co-editor of "Sweden Calling DXers." I met him in Stockholm 31 years ago and was pleased to see that he is obviously still active.

I produced a copy of the letter I had sent in 1994 and said that I regretted never to have received a confirmation of my reported reception. They said literally: "Why do people

from around the world actually write to us? What do they want? Some also enclose dollar notes..." Well, they are clearly beginners in the field of international broadcasting and I explained our hobby as well as I could. They told me that I was the first foreign listener ever to visit them and was interviewed as such. Maybe my visit has clarified a few things and will motivate them to deal with listeners' mail properly.

Almaty Airport was my last challenge, but it soon appeared to be the toughest! Along with us came a young, female Kazak dentist who had done post-graduate work in Holland. I first explained this strange DX hobby to her and then stressing on what I call "The Four P's," i.e. Patience, Persistence & Powerful Persuasion. She appeared to be willing to fight like a lioness and indeed she did!

Much to my surprise we were—within minutes and without any security checks—in the very nerve centre of the airport. About 10 Russian women, all wearing white blouses and big old spectacles, were in a large room behind computers and communications equipment. Our Kazak friend told them: "This is a radio hobbyist from Holland and he badly wants a confirmation from this airport. Please help him!" One of them replied: "Yes, we will help!" Friendly, but somewhat puzzled, the lady pointed to a microphone and asked: "Does he want to speak on the radio here?" Our local friend turned down this kind offer and asked them to check my reception, the details of which I showed them. They were indeed friendly and helpful and started to look into their computers and printed logs. But putting something on paper? No, only

the Director of Civil Aviation was authorized to do so!

We were given his name and directions as to where to find him: in a building at some distance from the actual terminal. Our friend first went in and left us waiting in the hall for 20 minutes. What was going on? This didn't seem right. Then finally she reappeared and said: "This man is very straight, but you may come in now." We found two gentlemen in the office, the (Russian) director and the (Kazak) assistant director. The assistant director translated my prepared

QSL in Russian for the director. He then picked up the phone to check my reception, after which he signed the QSL and ordered a secretary to put two nice stamps on it.

When we were outside again, our friend told us what had happened while she was inside the office of this old "Sovietski burocratski." She had been rather insistent as to my QSL request. But the director had replied that he was not going to sign any-

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**After all,
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.....
thing. After all, I surely was a spy! He asked her who had given her his name and had told her where to find him. After she repeated my request, he ordered her to leave his office. He was not going to have any of this and he had to continue with his duties. But she stayed... After receiving a phone call, he told her again to leave. Then the assistant director came in and asked what was going on. She explained her presence and repeated my request. The assistant director understood radio as a hobby and convinced the director that there was really no harm in giving me what I wanted. And so I got my QSL. After thanking and complimenting our lioness, I signed happily: "MISSION COMPLETED!"

Voice of the Mediterranean (Valletta, Malta)

(Extracted from official information from the station by Volker Willschrey and first published in the World Wide DX Club's DX Magazine in February 1999)

The original agreement in 1984 setting up the Voice of the Mediterranean provided for transmission of programs dealing with classical Mediterranean issues. Still, the station only became operational in September 1988.

With the changes that transformed the political scene in Europe and the Mediterranean, new programs were introduced in the early 1990s. It was felt that the station had to become relevant with the times and, in this respect, advantage was taken of the facilities available, in order to promote Malta in a general manner. We also looked around for something original for the station to be identified with. 1995 heralded a new approach giving prominence to Euro-Mediterranean cooperation. The concept was based on a new form of partnership that was inspired by the historic Euro-Med Ministerial Conference.

Voice of the Mediterranean is a non-profit organisation. It endeavours to present light, creative, and informative programs in keeping with the wishes of its vast listenership. The station has its own vocation and its mission statement covers three particular tasks of relevance to Malta, its nationals, and the geographic and political environment in which they live.

Therefore VOM aims to:

- Report and promote activities within the Euro-Med area as well as Malta's related regional and international policies.
- Present the listenership with information on current affairs through features covering the many opportunities that the island offers through its development in

commerce and industry, financial services, the maritime sector, tourism, blended with the rich cultural heritage and the unique history of the country and its people.

- Establishing and maintaining on a continuous basis, contacts with Maltese communities abroad through programs designed to bring to the successive generations of Maltese the characteristics and values of their country of origin.

In the end, the whole concept is based on the awareness that whatever we produce reflects Malta's image abroad. Listenership was widened through the introduction of original programs in French and German. Letters reached VOM from all over the world, with the majority coming from Europe and the Mediterranean region.

On September 1, 1988, the Voice of the Mediterranean took to the air. The programs were transmitted on the Deutsche Welle facilities to the south of Malta. Two hours of English and Arabic were broadcast using short and medium wave frequencies simultaneously. The program was repeated on shortwave in the evening. We were pleased with listeners response to the signal and programs.

In 1995, two additional hours were added for a special program called "Valletta Calling" a magazine type program in English followed by a French half hour. A German language program was added later. Our newsletter was restructured and thousands of copies were mailed every month to listeners.

All too suddenly, however, as the station was moving steadily forward, strong signals came of the probable closure of the transmitting station. Deutsche Welle operations in Malta ceased in January 1996. VOM went silent.

As council members struggled with closure, listeners from all over the world wrote or called to find out what had happened. Closure of the DW facility brought home the message that, in a few short years, VOM had established a network of listeners covering a large number of countries. It was a very critical moment and the Maltese Councilors of the station felt that they should seek, and eventually succeeded in obtaining, the necessary authorization to keep the station going. As months passed, the fear of definite closure loomed heavily on all the people connected with the station. After a lot of hard work, the location of new transmitting facilities was welcomed with a sigh of relief. In June 1996, VOM programs were back on the airwaves. The restart was a modest two-hour program, from eight to ten in the evening, in English and Arabic. A few weeks following start-up, "Valletta Calling" found its place in the Sunday program as well.

Other possibilities that could carry VOM programs to Maltese communities in foreign lands were also examined. The island history is replete with instances of Maltese nationals traveling to distant lands. Given the strategic location of Malta in the centre of the Mediterranean, the sea had a particular appeal to its people. They fished and traveled to look for jobs, learning, and adventure. Some settled in countries far away. With this background, it is no surprise that, for a long time, the station was eager to reach Maltese communities abroad. Maltese nationals or people of Maltese origin are found in sizable numbers in such places as Australia, Canada, the USA, UK, New Zealand and South Africa. Older communities were formed in countries along the Mediterranean littoral while others settled in former British colonies. The station had started programs to Australia and New Zealand in English and Maltese in 1995. Radio Melita programs were restarted to Australia in Maltese and English in July 1996.

Besides direct transmissions, VOM started to produce special programs for Maltese ethnic radio stations in Australia. In 1997, daily programs were resumed on the MW frequency

of 711 kHz. This was intended to reach listeners in North Africa and the Mediterranean. Later, a daily program for central Europe was added to the schedule. This enabled the station to introduce "Qui Malta!", a daily program in Italian. In a short while the program had a positive response with listenership regularly on the increase.

As transmissions to Australia were being received very strongly in Japan, a half-hour program designed specifically for Japanese listeners was added to the Asian transmissions. The response was so strong that it was decided to have the program in Japanese and increased to one hour. On December 1, 1997, a daily mid-day program consisting of three segments of one half hour each in Italian, English, and Arabic was added. It is beamed to Europe and the Mediterranean region. Since March 29, 1998, this program has been transmitted in the morning.

The current shortwave schedule for VOM shows English to North America 0100-0200 Sundays on 13605; 0200-0330 Saturdays to Asia/Pacific of 15550 and 17570; and 1900-2000 daily except Thursday, to Eu/Med/Af on 9765 and 12060.

French to North America is 0300-0330 on Sunday on 13605 and 2100-2130 on Saturday on 9810; German to North America at 0330-0400 Sunday on 13605 and 2130-2200 on Saturday on 9810; Japanese to North America 0400-0430 Sunday on 13605 and Saturday 2200-2230 on 9810; and Maltese to North America at 0200-0300 on Sunday on 13605 and 2000-2100 Saturdays on 9810.

Those of us that have been working on this project are convinced that the overall performance of the station will serve Malta's interests through programs conceived to create an awareness of Malta's characteristics, potential, and interest. The station address is Voice of the Mediterranean, St. Francis Ravelin, Floriana, Malta. E-mail to <vomradio@dream.vol.net.mt> and the Web site is <www.woden.com/~falcon/schedule.html>



Listener's Library

T. J. "Skip" Arey N2EI • P. O. Box 236 • Beverly, NJ 08010 • tjarey@home.com

As most of you have figured out by now, many of the new high performance receivers have computer interface capabilities. The key to a successful interface between these two types of technology is the software. Since much of this software is written to the needs of specific receivers, the best way to get a good review is to hear from somebody that has pushed the software's limits with the right rig. This month fellow NASWAite Robert Montgomery has stepped forward with just such a review. In this case, of a piece of software from another fellow NASWAite Mark Fine.

Smart NRD Control 32

Review by Robert E. Montgomery

In many radio shacks, the computer has found a place for many purposes. Some think that it causes many noise problems and have delayed in using one. But I have found using a laptop to be very handy, and it produces noise only from the charging unit and not the computer. By keeping the laptop fully charged, and with proper placement of the charging unit, good ground connections prevent most of the noise from entering good table top receivers.

After sending my NRD535db receiver to Kiwa for some modification and upgrade work for improvements, I was very much impressed with the improvements and decided to give a control program a try. I downloaded a number of control systems from the Internet but finally settled on one, Smart NRD Control 32 written by Mark Fine. The shareware version had such a well thought out help format, I decided to purchase the registered version. I am not a computer guru and the instructions were very helpful to understand the operation of the program. Complete instructions on the interface cable are also supplied. If you are handy with a solder iron you may choose to make your own or

purchase a standard cable and add a null modem to interface with the serial port of the laptop.

My description of the program will be only a basic view as the Smart NRD Control 32 program has so many features that it will not be possible to list them all. After installing the program and starting from the desktop Icon, a graphic receiver loads to the screen. Complete with frequency display and all non-knob related receiver controls. Both computer control and operator control of receiver are possible at the same time. S meter, clock which can be set to local or UTC time, key pad, plus a tool bar are also displayed.

The graphic receiver appears to be close to the front panel of the NRD535. Operation of receiver can be accomplished by clicking on the various portions of the display panel. Direct frequency input to the receiver can be achieved by entry from computer key board or by clicking on the keypad provided on the graphic receiver panel. Loading of receiver memory or viewing and changing memory can also be accomplished via the keyboard. There are a number of databases included with the program and have found myself rarely using the receiver memory system. If you click on the frequency display, a list of what other stations use this frequency will be displayed.

The NRD535 contains 200 memories while the Drake R8B contains 1000 alpha numeric memories. The Smart NRD Control program makes memory manipulation easy for both receivers. In fact a maximum of 10 banks of memories can be stored in the program, complete with IDs for each of the memories. A real plus to the JRC user and also a much easier way for the Drake user to add the IDs without using the receiver key pad. The memories of both receivers can be scanned

by the program. Each bank must loaded before scanning but only take a couple of key strokes and a second to load. I personally rarely use the memories as the databases supplied with the program saves the steps of loading and dumping memories. If you are a utility DXer, however, the memories would be of great use and worth the price of the program.

The control program consists of a number of program features. Propagation predictor, where you enter your location, current Solar Flux and A index information and the station you want to listen to. Produces a multi-colored chart with LUF, MUF, and OWF. Another program of great use if you receive data from Cumbre is a Cumbre Lite parser. This imports the data from Cumbre Lite to a log format where you can view and double click on a frequency listed which will automatically tune the receiver to that frequency. A spectrum display which permits scanning at different frequency ranges and produces a display that can be saved for later inspection. Basically a poor man's spectrum analyzer. By moving the mouse in the panned display and clicking to the peaks, the receiver will automatically tune to that frequency. I find it very handy when dxing as it aids in digging out the weak ones. There are a number of databases with listings for just about any interest in shortwave. Utility stations, mediumwave, shortwave broadcast stations, English and non-English, and even RTTY and CB frequencies. The real plus is the program permits modification of the databases for your own special needs. The program also provides a second VFO setting which the NRD535 receiver does not originally provide. Very handy. From the tool bar it is possible to print out a complete listing of English broadcasts or for a single radio station. The print out can be done to paper or to the screen.

The control program has the ability to import the weekly English language and DX show listing provided by Mark Fine on an annual subscription basis. The program is supplied with the latest version at time of shipment.

A recent upgrade has been added with several new additions but one neat feature I like. The program now tracks all frequencies entered. A scratch pad of sorts which when checking parallel frequencies makes it a snap. Just by clicking on an up-down arrow, it the receiver tunes back to previous frequencies. No more entering digits to change frequency.

The program also can produce logging reports to your favorite group. There are four format templates supplied but is possible to create your own format for that special group. Each category, such as country, time, frequency, etc. can be manipulated to any order to fit the needs of that special group. A list of DX shows or shortwave programs with times and frequency listing can be produced by clicking on the tool bar. Say for example you want to listen to a BBC program, from the SWBC list, a complete list of frequencies is produced for that time block and by clicking on one will tune the receiver to that frequency. If that frequency produces poor reception, select another one and so on. As you go through the list you can highlight the frequencies with the best reception for future reference. Say you are not interested in that program but another, paging through the list will show all times and program titles. The program even has the ability to turn on a tape deck if installed properly to the receiver by a timer for that special program you want to record while away from the radio. The time and frequency are set in the timer and the program will tune to the set frequency and turn the tape deck on. There are a total of 30 timers that can be set for any day of the week or in a daily format.

Conclusion

I have been using the program for over a year now and can tell you I rarely consider not using the program when DXing. I have used the program on a number of dxpeditions and it has saved me much time in looking up information. I have found the help screens to be very easy to understand and written in plain English. I had a couple of questions

about the database and received a fast reply via email with good answers. No sitting on the phone line for hours waiting for a response or sending an email and 4 weeks later getting an answer that does not really help, as with other software I have purchased in the past. My hat is off to Mark Fine who has done a great job producing this program. He also has control program for the Lowe receiver. I have not seen it work on the Lowe but would guess the same features would be provided. The program is affordable at \$60.00. My shack has a shelf with junk I have bought over the years that really

does not work. This program is not one of them. I personally am very happy with the receiver and control program. If you are thinking of a trying a computer control program for your receiver, I suggest checking Mark's website at <<http://www.erols.com/fineware/>>. Also the complete English broadcast listing updated weekly is available from the same website. Check it out.

Thanks Robert. Assuming this makes print before Kulpville, I am sure folks can get a chance to see Mark Fine's "Fineware" at the annual gathering. 

FRENDX: Twenty Five Years Ago....

Dan Ferguson announced that the dues were increased from \$10 to \$12. Fergie also announced that Larry Yamron would be taking over editing Log Report B beginning in June and Mac Leonhardt would be assuming responsibilities for coordinating the Frendx editorial staff. Due to a problem with USPS, there was no QSL Report this month. The center section of the bulletin was devoted to the latest edition of the country list. In the Shortwave Center, Dan Henderson writes about "Shortwave Stations of Indonesia" while Neal Perdue reviews the Drake 2-c communications receiver. Listeners Notebook editor Dan Jamison was making available to members standard Chinese reception report forms.

Membership Questions?

If you have any questions concerning your membership, renewals, change of address, etc please contact Bill Oliver by postal mail (45 Wildflower Road, Levittown, PA 19057) or e-mail (boliver@bboard.com).

New Members

Mr. Rene E. Auvray, Henderson, NV
Michael Lower Jr., Edgewood, MD
Jean F. Miller, Live Oak, FL
Mike Pace, Tipton, IA
Lawrence Paola, Mooers, NY

Juan V. Salinas, San Antonio, TX
Doris Sassadeck, Toms River, NJ
James Tobola KC5LDO, Hewitt, TX
Jon L. Williams, Indianapolis, IN

**This month's cover was originally used for the
September 1987 FRENDX.**

Technical Topics

Joe Buch N2JB • P.O. Box 1552 • Ocean View, DE 19970-1552 • joseph.buch@dol.net

Beware, Solar Max Is Coming

"Who is Solar Max anyway?" you ask. Is he a retired, sun-tanned wrestler running for political office? Is he the alien head of a race of beings riding a comet tail around the sun? Is he the new honcho of ANARC? No! Solar Max stands for a peak in the solar sunspot cycle, an event predicted to happen in just a few months.

In case you are new to this hobby or have been in a coma for the past decade, you need to know that short-wave radio propagation is a function of an eleven-year sunspot activity cycle. More sunspots mean higher levels of ionization of the atoms in the ionosphere. With higher sunspot activity, the higher SW frequencies become more useful for both day and night signal propagation. Frequencies above 15 MHz, once dead after sunset, now support clear reception in North America from Australia and New Zealand well into the night.

But cycle 23 is running well behind the predictions. As Gilda Radner would have said, "Never mind." See Figure 1.

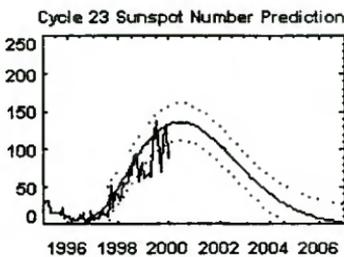


Figure 1 Solar Cycle 23 is not measuring up to previous predictions.

Solar physicist David Hathaway of NASA's Marshall Space Flight Center and other researchers predicted back in 1996 that the

coming peak would be among the strongest in recent times. Predictions warned of calamities ranging from power grid melt down, and satellites prematurely falling back to earth, to the zapping of astronauts trying to build the International Space Station.

A number of techniques are used to predict the amplitude of a cycle during the previous sunspot minimum. Relationships have been found between the size of the next cycle maximum and the length of the previous cycle, the level of activity at sunspot minimum, and the size of the previous cycle.

Among the most reliable techniques are those that use the measurements of changes in the Earth's magnetic field at, and before, sunspot minimum. These changes in the Earth's magnetic field are caused by solar storms but the precise connections between them and future solar activity levels are still uncertain.

Forecasting Using "Hindcasting"

Hindcasting is the applying of old data to current models and the examination of the resulting predictions compared to the actual historical experience. The researcher then decides which models work best in given situations.

Since 1996, Hathaway has been honing his forecasts by testing methods proposed by others using hindcasting.

Hathaway narrowed the list to three models. The combined ability of the resulting "supermodel" paints a more accurate picture of space weather to come.

Of course models are only good predictors of future events if the models take into account all of the pertinent factors. The mod-

els that predicted stock market corrections in 1929 and 1987 using hindcasting have also predicted 5 of the last 2 recessions. Why? Likely there is some factor the models have not accounted for. Is it the aging of the baby boom generation? Is it the influence of the computer and the Internet on productivity?

For our purposes, it is enough to recognize that models are all flawed to some degree. I once worked with a physicist who firmly believed there was no such thing as reality. There was only our model of reality limited by our understanding of the world around us and how it really works. And so it is with solar cycle predictions.

The model developed by Hathaway, is more accurate during the months leading up to the maximum. Two models produced by other researchers were found best at predicting several years in advance.

So Hathaway decided to combine the methods. The result is a supermodel that can be fine-tuned on the fly as the solar cycle progresses. He is transitioning to give more weight to his model, which more heavily weights current activity, and less weight to two models that made their best predictions back in 1996. Hathaway predicts the peak will occur in June. High activity will continue thereafter for two or three years. The peak smoothed sunspot number will be about 136 roughly equal to the 1989 maximum.

The expectation, based on the 1996 estimates, had been a sunspot peak of 160. January had several days with more than 200 sunspots and the average for the month is about 130. December averaged just 86, but in November there was an average of 132 per day.

The View From Down Under

One of the models Hathaway used comes from Richard Thompson of IPS Radio and Space Services, a part of the Australian

Government's Department of Industry, Science and Resources. He found a relationship between the number of days during a sunspot cycle in which the geomagnetic field was "disturbed" and the amplitude of the next sunspot maximum. His method has the advantage of giving a prediction for the size of the next maximum well before the previous minimum. Thompson sees the peak coming in late 2000 or early 2001. He expects the sunspot average to exceed 140.

Because the cause and effect relationships are not well understood, only a statistical inference can be made based upon hindsight. But there are plenty of examples where such apparent relationships are simply coincidence. The "super bowl" rule, which predicts stock market performance based upon the outcome of the NFL super bowl football game, comes to mind. It just seems to work in hindsight.

If you would like to read additional material about the science of predicting solar cycles check out the following at your neighborhood research library:

Hathaway, Wilson, and Reichmann *J. Geophys. Res.* **104**, 22,375-22,388 (1999)

Hathaway, Wilson, and Reichmann *Solar Physics* **151**, 177 (1994)

Thompson *Solar Physics* **148**, 383 (1993)

Ohl and Ohl *Solar-Terrestrial Predictions Proceedings*, Vol. II. 258 (1979)

If you have Internet capability you can check out the NASA Marshall Space Flight Center web page at <<http://science.nasa.gov/ssl/pad/solar/predict.htm>>

Links from this page will take you to additional reference material.

See you in Kulpsville. Until next time, stay tuned.



Listener's Notebook

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AL IN A TUX? Regular *LN* Editor Al Quaglieri wasn't able to do *LN* this month; he was busy during publication week attending the Grammy Awards, where he was nominated for an award for Best Historical Album. He didn't win, but he did wear a tuxedo. There was a nice profile of Al in the *Albany Times Union* the previous Sunday; you may still be able to read it at <http://www.timesunion.com/AspStories/story.asp?storyKey=28062&BCCode=HOME&newsdate=2/21/00> or by going to <http://www.anarc.org/naswa/weblog/> and searching for "Quaglieri".

As a result, this edition of *LN* was prepared by Ralph Brandi. I apologize if any credits were muffed or regular etiquette missed; Al will be back next month.

AFGHANISTAN 7002 *Kabul National Radio* [ex *Voice of Shariah*]? Heard at 14.05 with Religious song then talk by man probably in Dari then a song after every long religious talk, 14.30 News 14.35 continued with talk and songs until 15.02 [All the Songs was without any Instrumental Music] then program in English with a song "Taliban Taliban..." after that ID as "This is *Kabul National Radio, English program*" and immediately followed with News by man in good English then religious prog. 15.23 Prog in Urdu for 20 minutes and followed with other languages until went off at 16.32 fair reception but distorted audio. (Vaghjee 17 Feb Mauritius/HCDX)

Maybe it's obvious for most of us, but the recent move of Kabul based *Voice of Sharia* to v7002 kHz might be connected to the activities of opposition voice *Radio Takhar* on v7000 kHz. So, take care when trying to identify which of the Afghan voices you actually hear ;-). As it seems, Kabul authorities take *Radio Takhar* quite serious. (Kuhl-GER 19 Feb/HCDX)

Radio Kabul have changed frequency from 7002 to 7073 and its programmes too. heard 14.35 and was still on the air at 17.50 no English and Urdu program has been heard at that time but it would be interesting to note that there was less religious talk and songs instead there was talk on Islamic Conference and half an hour talk on Kashmir. Time pips every half hour then ID as Afghanistan...Kabul just before Nx bulletin in its different programmes and at no moment the word Shariah has been mentioned also from time to time the station has been jammed (by whom?). (Vaghjee 19 Feb Mauritius/HCDX)

ALASKA KNLS Anchor Point changed freq, 0900-1000 Ru 9930. (Takeshi Hashimoto-JPN, WWDXC Feb 19/via WWDXC 453)

ANTARCTICA 15475.6 *LRA36*, 2004-2020, songs with accordion and guitars, Sp talk by male, tenta-

tive ID, easy song with male vocals. 34333. (Mark Veldhuis-HOL, Feb 16/WWDXC 453)

15475.7 *LRA36, R. Nacional Arcangel San Gabriel* has changed its schedule due to equipment problems, currently: Mon-Fri 1630-2045. Programming: From 1630 opening and ARG mx with nx every 30 mins; from 1800, comments and talks about ARG provinces, their inhabitants, tourist locations, etc, until closing at 2045. (Gabriel Ivan Barrera-ARG, ConDig, via DX LD, Feb 15/WWDXC 453)

ARGENTINA 15820 LSB, *R Rivadavia* Buenos Aires, 2031-2040, male and female in Sp, adverts, canned ID: "Via satellite ... transmite ... Radio Rivadavia ... Kiloherzt". Then more talk and interview with someone on the phone. Very nice reception; 34444 at best. (Mark Veldhuis-HOL, Feb 16/WWDXC 453)

BANGLADESH 4880 *R. Bangladesh*, 1428 local music, 1429 ID (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

BELARUS 7275 1630 - "*Novoe Radio*" Mogilev, in Ru 43444. (Dmitriy Kutuzov, Ryazan-RUS, RUS Dx, Jan 20/WWDXC 453)

BENIN 7210.2, *Radiodiffusion et Television du Benin*; Cotonou, Feb. 5, 2201-2212, African (pop)music, male DJ in French, mention of Cotonou, time check, ID. 34444 (Veldhuis-NL Feb 5)

BELGIUM 9970 I note that the Fr progr from BEL has moved up to 9970 (x9965) in parallel MW 621 and giving equally good reception the last couple of days. I have't checked, but I assume it goes off before NOR starts on there at 1700. (Noel R. Green-UK, Feb 18/WWDXC 453)

BRTF Brussels seems to be testing 9970 (x9965) during daytime via Wavre, Mon-Fri. (Erik Koie-DEN, Feb 20/WWDXC 453)

Result of HFCC Dubrovnik conference negotiations to protect 9965 user KHBN 0700-1900 ? Still Mon-Fri 0800-1700 towards SoEUR 163 degrees. Will start regularly [daily?] from March 26th. (Büschel-GER, WWDXC 453)

BHUTAN 1410 Country song, 1417 ann by YL in Vn, Samba, 1421 "My Delilah", 1426 "Help me make it through the night", 1448 "When a man loves a woman", 1458 NA (Chorus), 1500 s/off no px in EN at 1430; 54333. (Passmann, Ko Tao-Thailand, Feb 17/HCDX) Frequency?

BRAZIL 4975.13 *Super Radio Tupi* 0455 music, talk in Portuguese, commercials, ID at TOH (Brandi Feb 9)

CAMBODIA Station identification in Cambodian: "Vitthyu Cheat Kampuchea" (National Radio of Cambodia). The radio identifies in English as "National Voice of Cambodia". The schedule for *National Voice of Cambodia*:

0015-0015	English	11940-v
0015-0030	French	11940-v
0030-0045	Thai	11940-v
0045-0100	Lao	11940-v
0100-0115	Vietnamese	11940-v
1200-1215	English	11940-v
1215-1230	French	11940-v
1230-1245	Thai	11940-v
1245-1300	Lao	11940-v

(BBCMS)

CHINA 4035 *Xizang PBS*, Lhasa, 1540 mx, 1544 ann by YL, mx, ID by OM, 1545 s/off, 44333. None of the various listed // -frequencies could be heard. (Passmann, Ko Tao-Thailand, Feb 15/HCDX)

5090 *CNR Taiwan Service 2*, 1545 Ch mx, 45333 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

5163 *CPBS 2*, 1540 Ch mx, 44333 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

5860 *Vo Jingling* 1350 short instrumental version of "I am sailing", spoken word px by YL/OM, 1358 instr. mx, 1400 5+1 Time pips, ID; 45433. Ex 5860.3; no // found on 4875, obviously inactive there. (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

6750, 6689.2 *CPBS 1* 1227 heard on these new frequencies, in // with 4460, 5955, 6125. (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

6937 *Yunnan PBS*, 1045 March in progress, 1047 Ch mx; so s/on before listed 1055; 55444 (Passmann, Ko Tao-Thailand, Feb 17/HCDX) *1045 is the exact s/on time (referring to log from Feb 17), March - not a military style, 1047-1059 nonstop instrumental Chinese orchestra mx. The same short breaks in the second song, obviously due to an error

on their tape, as 2 days ago, at 1057 and 1059, caused me to check my recordings - they play the same music every day! No announcement before 1100, fanfare, patriotic song, ID by OM and YL at 1100. (Passmann, Ko Tao-Thailand, Feb 19/HCDX)

Xinjiang PBS, Urumqi, 1623 local mx, 1646 ID, 10 seconds measure-tone, s/off before 1647, 44434, // 4980 carrier until 1650, 45434 (Passmann, Ko Pha Ngan-Thailand, Feb 12/HCDX)

11590 *China Huayui B.C.* *0854-0810 45444 in Ch. IS and ID in Ch and En, En ID as "This is CHBC, CHN Huayui Bc Corpor", opening annt, TS, local pops mx px, new freq, in parallel 6185. (Nishiguchi-JPN, Feb 5, Premium via Iwata Feb 17, Cumbre/via WWDXC 453)

CLANDESTINE-AFRICA Voice of the Democratic Path of Ethiopian Unity (Amharic: *Finote Demokrasi Ye-Ethiopia Andinet Dimts*) was first observed by BBC Monitoring in December 1999. It reportedly uses a hired Deutsche Telekom transmitter in Germany.

Several similar Ethiopian opposition radio stations, which have also broadcast only on Sundays and Wednesdays, have been heard over the past few years: Voice of Ethiopian Patriotism (heard in 1992); Free Radio Voice of Ethiopian Unity (heard in 1993-94); Radio Voice of United and Free Ethiopia/Voice of One Free Ethiopia (heard in 1997-99).

0800-0900	Amharic	21.550 Su
1600-1700	Amharic	15.105 W

(BBCMS)

Voice of Oromo Liberation is sometimes referred to as "SBO" after its title in the Oromo-language, "Sagalee Bilisumma Oromoo". It currently hires airtime via Deutsche Telekom facilities in Jülich, Germany.

1700-1800	Oromo	15105 SuThF
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(BBCMS)

8000.73 & 9517.29, presumed *VoSDN*, 0440 Feb 20, vocal mx which was much stronger at the beginning on the 9 MHz freq, then gave way to the 8 MHz freq later. Did not catch an ID at ToH. There was some unusual tempo African mx at 0500, giving way to a man who seemed to be reading out freqs. The 9517 freq also seemed to be drifting slightly lower with time; at 0500 it was at 9517.27. (Tony Germanotta-VA, NU Feb 20/via WWDXC 453)

7099.98, presumed *Voice of the Free Masses*, 0422 Feb 20, man in an African lang, but difficult to make out because the signal was being buried by utes and CW. Mx at 0429 that contd. through BoH, no ID caught at 0500. But this was a nice night for signals from this part of the world. (Tony Germanotta-VA, NU Feb 20/via WWDXC 453)

CLANDESTINE-ASIA 3912 *Voice of the People*, 1530 Korean songs, // 3881, both 45333 (Passmann, Ko Tao-Thailand, Feb 15/HCDX)

Voice of the People is believed to broadcast from transmitters in South Korea although it claims in its announcements to broadcast from Pyongyang. Station identification: "This is the Voice of the People coming to you from Pyongyang" (Korean: "Yoginun Pyongyang-eso ponaedurinun inminuisoribang-innida").

0300-0600 Korean 6518 6600
0900-2100 Korean 3880-v 3912
(BBCMS)

Echo of Hope, which claims to be operated by Koreans living overseas, has broadcast to North Korea from transmitters in South Korea since 1973. ID in Korean is "shimang-e meiri pangsong innida"

0300-0700 Korean 6348
1100-1600 Korean 3985 6003
1600-2300 Korean 3985
(BBCMS)

CLANDESTINE-MIDDLE EAST Two Iraqi clandestines are observed regularly (here in Europe) with their morning and evening programmes. *Radio Kurdistan*, *Voice of the Kurdistan Socialist Democratic Party* can be heard signing-on around 0300 and 1600 on 4130 kHz, and *Voice of Independence*, *Radio of the Conservative Party of Kurdistan* can be heard at the same times on, or near, 4175 kHz - this one drifts down in frequency at the rate of about 1 kHz every 15 minutes. You can hear recently-recorded clips with ID texts of both these stations in the Clandestine Services section of the Interval Signals Archive at <<http://home.clara.net/dkernick>>. (Kernick-UK/HCDX)

5610 alt 5630 alt 5640 alt 5650 *V.o. Mojahed* 1520 jumping to avoid Jammers, 3 of them were in operation at the same time, 22332 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

COLOMBIA 4955 Febr 3 *Radiodif Nac de CLM*, 2140- 444, con Estampas Vallenatas.

4975 Febr 3 *Ondas del Orteguaza*, Florencia, 2145- 454, Atardecer Campesino progr.

5019 Jan 31 *Caracol Quibdo*, 1140- 322, nx relay of Caracol CLM (810), QRM de Peru stn. Also on Feb 3 2147- 343, local ID Ecos del Atrato de Caracol, Vallenata mx.

5955 Jan 31 *Caracol Villavicencio*, 1158- 554, nx "Panorama de Caracol."

6035 Jan 31 *LV del Guaviare*, SJ del Guavire, 1135- 232, nx relay of RCN Bogota, splash of R Marti 6030.

6115 Febr 3 *LV del Llano*, 2155- 454, "Arpa y Bandola" mx progr.

6261 Febr 9 [Clandestine stn] *Voz de la Resistencia*, 2205- 222, jamming by "La Voz del Pueblo". (all Yimber Gaviria-CLM, also via ConDig Feb 12/via WWDXC 452)

GABON 7270 *RTV Gabonaise*, Libreville, 0501-0518, French current affairs progr with male speaker, taped reports / interviews. Many mentions of GAB and Libreville. Some jingles were played. At 0510 African (pop)mx. Thanks to Noel Green for the tip. Booming in, SINPO 54444. Slightly overmodulated. (Mark Veldhuis-NL, Feb 12/via WWDXC 452)

19160 *Africa No. 1* 1902 Afro-pop music, announcements in French, ID in French; signal S3, definitely // 9580 fundamental; tnx Rich McVicar in #swl (Brandi Feb 19)

GUATEMALA 3360, *Voz de Nahuala*, Feb. 4, 0239-0301, Male announcer in Spanish, LA music (mostly Marimba), including one very long song. At 0256 ID, followed by male and female talk with music bridges. 23343. Also heard Feb. 6 at 0310 UTC, with a slightly stronger signal and less QRM. (Veldhuis-NL, Feb 6)

4845.02 R. *K'ekchi*, 1115-1149, Nonstop middle-of-the-road LA mx till about 1128, man announcer in K'ekchi lang, more mx, then long talk by same man 1133-1149+ with IDs at 1135 and 1137, and mentions of "radio", and "Christo", so obviously a relig progr. Good clear signal throughout the listening period. Heard last week too, but not on prior to 1130 most days. (Dave Valko-USA, Feb 7/via WWDXC 452) Across the Pacific, 4854, R *Kekchi* 1130-1255, heard with S=2. (Roland Schulze-PHL, Feb 8/via WWDXC 452)

GUINEA 7125 R *Conakry*, 0656, booming in with mx until 0705, then R *Conakry* ID by man followed by Fr nx. Best signal in months. (Don Nelson-OR, NU Feb 19/via WWDXC 453)

INDIA 3390 *AIR Gangtok* is active before listed s/ on 1130. Heard at 1110 already in Vn. Also heard at 1553 in English with O=5, // 3365 Delhi. Due to a Chinese language programme on the second listed Gangtok QRG 6085 could not be verified. (Passmann, Ko Pha Ngan-Thailand, Feb 8/HCDX)

3945 *AIR Gorakhpur* 1532-1534 interruption in programming, nx in EN "News at nine", more short interruptions for few seconds each, 55544 (Passmann, Ko Tao-Thailand, Feb 15/HCDX)

4760 *AIR Port Blair* 1320 Indian songs, O=5 (distance only 826 km/HCDX) (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4775 **AIR Imphal** 1321 Talk in Vn, Bill Gates mentioned, 1323 Imphal mentioned by woman, 1400 local ID, 0=4 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4800 **AIR Hyderabad** - 1341 News in Vn about companies Infotec and Telecom in Bombay, 1342 about Jammu and Kashmir, 1343 Cricket results, 0=5 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4820 **AIR Calcutta**, 1347 Spoken word px in Vn, 55434 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4840 **AIR Mumbai**, 1350 Spoken word px in Vn, 43443; Interference by powerhouse RTM Kajang 5 kHz up strongest signal on 60 m at this time. (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4860 **AIR Delhi** 1406 Indian songs, 55433 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4895 **AIR Kurseong** 1433 instrumental music, under Malaysia 32432 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

INDONESIA 2695 **RDPT2 Ende** inactive these days. (Roland Schulze-PHL, Feb 8/via WWDXC 452)

3905.0 **RRI Banda Aceh** (Reactivation?), 1215 ID, nx, 1230 Soft local pop songs, 1300 RRI-ID, nx, 45232; off at recheck 1523. (Passmann, Ko Tao-Thailand, Feb 15/HCDX)

3976 **RRI Pontianak** 1208 international nx in BI read by a woman, 1213 Sports nx, 1214 time announcement, choral, IDs, 0=4-5 (Passmann, Ko Pha Ngan-Thailand, Feb 10/HCDX)

4003.1 **RRI Padang** 1526 Rap, 1530 IS, ID, nx, 1539 ID, Quran, 0=4 (Passmann, Ko Pha Ngan-Thailand, Feb 10/HCDX)

3355.3 **RRI Jambi** - 1607 Non stop mx, 1628 ann, 3x IS, ID, local nx 45333; qrg was listed as tent. inactive; 0=4 (Passmann, Ko Pha Ngan-Thailand, Feb 10/HCDX)

4606.4 **RRI Serui** - 1207-1215 Jakarta-Nx, Reports from different reporters, international news, ID, 1215 NA (Chorus), local ID, 44434 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4696.6 **R. KIP** - 1249 Discussion, 1253 Gamelan mx, 32422 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

4753.3 **RRI Makassar**, 1314 NA (Chorus), ID giving the new city name, frequency announcements, 0=4 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX) **RRI Makassar**, 2203-2235, Jakarta nx relay by man and woman, usual theme to 2210, Jakarta nx relay ID, then poss. local nx by man. Canned intro by woman with siren whooping-like SFX and ment of **RRI Makassar** at 2212, woman interviewing man

with mentions of INS, and outro similar to the intro. Brief annt by man, pause, ID at 2222, and ment of Warta Berita, then into mx. 8 (possibly 9) note chime IS at 2228, 5+1 time ticks, and man announcer. Fading quickly by 2230 and barely there at 2235. (Dave Valko-USA, Feb 6/via WWDXC 452)

RRI Yogyakarta, now reacted on 5046.4, ID then nx from Jakarta relay 1330 time pips and local nx progr. ID as "Inilah Radio Republik Indonesia Yogyakarta warta berita". Yogyakarta heard as "Jog-jakarta". (Nobuo Takeno-JPN, Jembatan DX, Feb 10/via WWDXC 452). This freq is not heard daily, and is irregular. (J.Yamada-JPN, in Jembatan DX, Feb 13/via WWDXC 452)

6995 UNID location, 1055 RRI ID, nx in BI, 34323 (Passmann, Ko Tao-Thailand, Feb 16/HCDX)

9552.58, presumed **RRI-Makassar**, 0819, mx, 0824 telephobe talk by M&W, 0830* suddenly, no ID given. (Kanai-JPN via JA-DXing, Feb 3/via WWDXC 453)

9525 **V.O.Indonesia**, Cimanggis. Ge progr at 1827. INS pops, ID, Gamelan mx, nx and closing annt with Love Ambon. Good. This freq was heard on this day only. The next day was heard back on usual v11785. (Juichi Yamada-JPN, Jembatan Feb 4) Starts on 11785 with Sp at 1730. (via WWDXC 452)

15149.8 **VoINS**, 2030-2040, in En with Listeners Letters, followed by a postal addr, 2038 local pop mx, poor reception due to some interference on USB. (John Kecskes-AUS, Cumbre Feb 13/via WWDXC 453)

KENYA 1800-1850 [UNID] 4935 possibly Iraqi ... anyone any ideas ... I'm sure there's been one reported here before. (Dean Willis-UK HCDX Feb 10) Dean, your UNID is Kenya. Compare your recording to the one at <<http://www.albany.net/~alcue/KBC-ID.ra>>; same anthem, same time pips, ID just sounds like it's in a different language. (Ralph Brandi, HCDX Feb 10)

KOREA (NORTH) Korean Central Broadcasting System (KCBS):

0000-1800	Korean	2350	2850	3220	3350	3940
		3960	3970	6100	9665	11680
2000-2359	Korean	2350	2850	3220	3350	3940
		3960	3970	6100	9665	11680

(BBCMS)

LAOS 4658.7 **Houa Phan** 1140 local songs, 1142 ID by YL, local mx, 1158 ID by OM, 1159 7x Gong, 1200 National Nx by YL, 1229 s/off without NA, 54333 (Passmann, Ko Tao-Thailand, Feb 20/HCDX)

The following frequencies ± 10 kHz were checked several times without any result:

5398.7 **Xieng Khouang Regional Stn.**

6356.9 Pakse Regional Stn.

6971 Luang Prabang Regional Stn.

(Passmann, Ko Tao-Thailand, Feb 17/HCDX)

LIBERIA Big signal on 4760, 1915-2025, seemingly **ELWA** Monrovia started bcng. Lang is En. No ID heard. Stn played African pop mx. Wavered signal 0=2 to 0=4. (Enzio Gehrig-E, A-DX Feb 10/via WWDXC 452)

4760 **ELWA**, Heard as early as 2120, weakly with mx. Returned at 2154 and heard "Alleluia" chorus, 2159 En s-off annt ... "The time is 1 minute till 10 o'clock. You've been listening to Radio ELWA transmitting from Monrovia Liberia. Radio ELWA is broadcasting ?? and ?? and ?? on our first transmission on the 10th of February ?? on 768(?) kilohertz. ?? write to us, our address ... of Radio ELWA. Thank you all for listening. ?? join us tomorrow from ?? tomorrow Friday morning at 8 o'clock for more inspirational programming. Until then its bye bye for now. On behalf of the entire staff of Radio ELWA ... good-night and goodbye, may God bless you. This is a transmission on ?? national ?? of Liberia ??, good-night".

Then instrumental NatAnth 2200-2201, and prog end, however the carrier remained on at least a few more minutes, but gone at 2213 recheck. Fair signal and clear. Nice to hear this one back ! (Dave Valko-PA, Feb 10/via WWDXC 452)

4760 **ELWA** 2130 choral mx, ID "... of Radio ELWA", possibly a URL (guess not after re-listening to the tape-RB), too, Liberian Nat Anth, progr ended 2200:38, carrier off at 2204:40; first day back on the air? Thanks Mark Veldhuis-HOL, who translated Enzio Gehrig's German-lang report in A-DX. (Ralph Brandi, HCDX Feb 10)

Addr:

URL <http://www.sim.org>
webmaster@sim.org

SIM organizes ELWA and R. Mosoj Chasqui.
(Martin Elbe-D, A-DX Feb 11/via WWDXC 452)

Radio **ELWA's** current mailing address (via Abidjan). I'm Ron Sonius, former director of the SIM mission in Liberia that ran ELWA Radio before 1996. Your e-mail was forwarded to me to answer.

Because of the 8 year civil war in Liberia which destroyed the original radio station the post office in Liberia is not operating at it's full capacity therefore the post offices around the world cannot send mail into Liberia. You may send your QSL card to Radio ELWA, c/o SIM Liberia, 08 BP 886, Abidjan 08, Cote d'Ivoire, West Africa. The SIM mission in Abidjan sends the mail to ELWA in a bulk package once a week by air.

You will note that I copied this e-mail to lsonius. He is our son, Lee Sonius, who is Regional Di-

rector for HCJB for Sub Sahara Africa and had a big hand in getting the ELWA transmitter set up. He is the former director of Radio ELWA.

Thank you for sending your e-mail to us. The operators of ELWA will be thrilled to get your QSL Card.

I was a "Ham Operator" in Liberia from 1972-1996 with the call EL2DN. (Ron Sonius, via Enzio Gehrig-Spain, A-DX Feb 12/via WWDXC 452)

Ronald J and Pauline Sonius, SIM USA, P. O. Box 7900, Charlotte NC 28241, USA
Off Phone # 1-704-588-4300.

Home, 505 Crescent Leaf Lane, Rock Hill SC 29730, U.S.A.

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E-mail: <rsonius@juno.com> or <ron_s@simusa.sim.org>

Lee Sonius <lsonius@africaonline.co.ci>

Shirley Fehl <shirley_f@simusa.sim.org>

4760 **ELWA**, 0620 Feb 11, weak relig mx came up to audible level by 0630, man ancr in En with "This is Radio E-L-W-A" plus ments. of "forty seven sixty kilocycles" (need to recheck the recording but 99% certain it was cycles not Hertz), then ment. of "Back to the Bible" followed by relig mx, discussion of "where was Lazarus." Edge of SR was just hitting Monrovia at 0640.

Long preaching on family as a shelter; at 0653 they suggested that you write to "Back to the Bible" c/o the stn you are listening to (difficult, as the USPS is not taking mail to Liberia at this point). Another ID and TC (for 6:55) at 0655, into relig mx across ToH, various hymns. Very strong after sun up in Liberia at approx 0701. (Don Nelson-OR, NU Feb 11/via WWDXC 452)

ELWA on 4760 has fair signal near Dallas at 0600. Sunrise at ELWA today is 0712. (Bill Smith-USA, W5USM, HCDX Feb 13/via WWDXC 452)

Acc to a report via Mission Network News on Feb 15, **ELWA** is back on the air. "For the first time in nearly four years, SIM radio stn ELWA in Monrovia-LBR, is sending out progs via SW. The good news is the stn is up and growing, adding a new tx, after having been destroyed during Liberia's civil war in 1996. SIM's Ron Frazee says it has been an answer to prayer.

"Because the country itself is devastated, not much money is available in the country. So, they have one studio operating, bcng six hrs a day in En and this new tx will simulcast those same six hrs of En bcs. Now, those progs are going to be able to be heard all over LBR."

So keep an ear open for them. They used to use 4760. I don't know what power is being used, but probably 10 kW. (Colin Miller-CAN VE3CMT, Feb 15/via WWDXC 452)

MALAWI 3380, *MBC*; Blantyre, Feb. 6, 0323-0330, Beautiful choral songs with short announcements by male in Vernacular. Some words were in English, e.g. the time check at 0326 UTC. ID as "MBC Radio 1". 43444 (Veldhuis-NL Feb 6)

MALAYSIA 4895 *RTM Kuching* 1433 YL speaking in Vn, echo effect, 1436 popular Malaysian song, 1456 ID; 1458 frequency announcements for Penang; NA, 1500 s/off, 54434; // 6050 Sib, 45434 carrier until 1502 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

5965 *RTM Kuala Lumpur*, Kajang 1925 Talk in Malay by man then ID as R Satu then followed by mx progr 1959 annt by woman then ID by man as radio satu time pips ID again and nx my man. Good reception. (Mahendra Vaghjee-MAU, Feb 9/via WWDXC 452)

5979.5 *RTM Kota Kinabalu*, Sabah, 1320 nx in Malay about Indonesia and Malaysia, 1326 NA (March/Chorus), 1329 instrumental music, s/off in the middle of the song (so no listed relay of R. 4 in EN) 54444 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

6025 *RTM* in Malay noted with s/off at 1115 already. 0=4 (Passmann, Ko Pha Ngan-Thailand, Feb 9/HCDX)

MYANMAR 4725 *BBS* Rangoon 1310 Military March, ann in Vn by YL, Burmese songs, 1330 Educational px in EE, back to Vn at recheck 1356; 1358 short ann by woman, carrier without modulation, off 1359, 0=5 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

5985.9 *R. Myanmar* 1430 Start of px in EN, ID, breakfast styles in Myanmar, 1439 Tourist programme, 1442 "You are tuned to Yangoon", Military March, "You are listening to Myanmar Radio, Yangoon", 1444 Health programme "Excellent way to prevent travel sickness", "Headache", off at 1501 recheck, 54444 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

6570 *Defence Forces Bc Unit* not heard at listed s/on 1030, nor at other times. (Passmann, Ko Tao-Thailand, Feb 19/HCDX)

NEPAL 5005 *R. Nepal* 1556 local music 0=4, // 3229.7 0= 2-3 (Passmann, Ko Pha Ngan-Thailand, Feb 10/HCDX)

NIGERIA BBCMS lists *Radio Nigeria, Lagos*, from 0425-2305 in English on 3326. (BBCMS)

Radio Nigeria, Enugu, broadcasts from 0400-2305 in English, Pidgin English, Igbo, Izon, Tiv and Efik on 6025. (BBCMS)

Radio Nigeria, Ibadan, broadcasts from 0430-2305 in English, Yoruba, Edo and Ushbo on 6050. (BBCMS)

4769.96 *Radio Nigeria Kaduna* 2220 reggae music, DJ telling his listeners to stop fighting (there are currently riots in Kaduna over the imposition of Sharia law), IS and s/off (Brandi Feb 23)

PAPUA NEW GUINEA 2410 *R. Enga*, Wabaq (t) 1140-1302 songs, announcement after every music, but too weak to understand words. Prolonged px, NA 1300, s/off 1302, 0=2. (Passmann, Ko Pha Ngan-Thailand, Feb 13/HCDX)

3205 *R. Sandaun* (t), prolonged px in EN, international pop songs, 1214 "You don't have to go", 1224 abrupt off in the middle of a song, tx-fault? (Passmann, Ko Tao-Thailand, Feb 20/HCDX)

3220 *R. Morobe*, Lae (t) 1141-1200* Oldies, "Listen to the music", "You're no good", NA sung by a chorus, 1200 s/off, 0=2 (Passmann, Ko Pha Ngan-Thailand, Feb 12/HCDX)

3235 *R. West New Britain*, Kimbe, 1900 s/off with orchestra-NA (Passmann, Ko Tao-Thailand, Feb 14/HCDX)

3235 *R. East Sepik*, under heavy interference of CBS Taipei. S/off with orchestra-NA 1200, 32322. (Passmann, Ko Tao-Thailand, Feb 15/HCDX)

3315 *R. Manus*, Lorengau (t) 1159-1200* NA sung by a chorus, 1200 s/off. No positive ID though, due to sudden fade/in of AIR Bhopal at 1159. (Passmann, Ko Pha Ngan-Thailand, Feb 9/HCDX)

3260 *R. Madang*, Madang (t) 1140-1201*, soft Pacific mx and pop songs, some anns by a man, barely readable. 1900 NA (instrumental), 1901 s/off 24322 (Passmann, Ko Pha Ngan-Thailand, Feb 10/HCDX)

3365 *R. Milne Bay*, Alotau (t), 1158 Pacific soft song, 1202 anns, 1203 NA (instrumental) S1-2. BTW: AIR Delhi fades in later here, sunset at 1236. These Papuas are giving me a hard time because of the low signal level, and they are fading in later every day. In a few days the s/off time will be earlier than theoretical fade in. Anyway, it is great to listen to the evening broadcast which is impossible to copy in Central Europe. So I try one every day... :- (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

3365 *R. Milne Bay*, Pop songs, 1204 off after orchestra-NA (Passmann, Ko Tao-Thailand, Feb 19/HCDX)

3385 *R. East New Britain*, Rabaul (t), 1237 Soft Pacific songs, 1238 ann by YL too weak to identify the language; I followed the px until 1309, when I had to leave. This log is very tentative did anybody log this one after 1300? (Passmann, Ko Tao-Thailand, Feb 20/HCDX)

4890 **NBC** Port Moresby 1152 Pop songs, 1200 ID, EN nx, 35322 (bad condx, nearly no other PNG signals today) (Passmann, Ko Tao-Thailand, Feb 16/HCDX)

Despite good condx to PNG on Feb. 15, no signals were received on:

3205 **R. Sandaun**, Vanimo
3290 **R. Central**, Pt. Moresby (ex-qth Boroko)
3305 **R. Western**, Daru
3345 **R. Northern**, Popondetta
3385 **R. East New Britain**, Rabaul
3395 cannot be checked due to the powerhouse Bandar Lampung.
3905 is covered by **RRJ Banda Aceh**

Regarding Don Nelson's question, 5985 is covered by Myanmar on 5985.9, S=4; heard with a LL in EN at 1215 on Feb 16. No chance to check for PNG. You asked for R. Western on 3205 to my list, R. Western from Daru is on 3305; on 3205 is R. Sandaun from Vanimo (called R. West Sepik by WRTH). (Passmann, Thailand/HCDX)

Re: 3205 **R. Sandaun**, Vanimo: This one with good signals 2000-2030 here 19 FEB with continuous choir songs and short fm announcements. (Joachim Stiller/HCDX)

Contrary to some speculative observations appearing recently, there are no current operations from the **Kundu (Provincial) Network** of PNG on 6 or 11 MHz frequencies. Those services were originally intended for local daytime services and were phased out many years ago and antennas dismantled. Transmissions generally carried Schools' Programming weekdays (2230-0700 UTC) and on weekends the Sporting Service (from Port Moresby). Listings in the WRTH-2000 are quite misleading, and other "authoritative" references also persist in publishing inactive 6 and 11 MHz data. In recent years, daytime services have been augmented by additional VHF outlets in key centres for the Kundu and Karai networks. The high powered (100 kW) transmitter at Port Moresby provides adequate coverage of the Karai (National) network on 9675 during local daylight hours, and on 4890 during morning and evening. NBC plans to introduce national daytime coverage of the Kundu Network on 9 MHz at some stage when funding permits, using a converted transmitter at Port Moresby, as there are still many areas not adequately served during local daytime by the existing VHF and MW services.

Radio Australia's Tok-Pisin service uses 6020 from Shepparton 0900-1100 and is frequently misidentified as the long-silent Kieta PNG station.

Similarly, the long-dead 5985 outlet for Rabaul is often incorrectly reported during local evening hours in Asia, when in fact it is Yangon, on 5986,

which gives a strong and steady signal right across the Asian region during from s/on at 1000.

All **NBC** HF services are subject to irregular operations, due not only to under-capacity of maintenance and support resources, but also to funding constraints and lack of spare parts. (Padula 2/21-HCDX)

PERU 4746.8, **Radio Huanta 2000**; Huanta, Feb. 4, 2336-2344, Andean music, male talk and clear ID in Spanish. Best in LSB. 23342 (Veldhuis-NL Feb 6)

RUSSIA Radiostantsiya Tikhii Okean (Radio Pacific Ocean). Some frequencies (eg 810 kHz) are relayed via Pacific Ocean radio station GTRK Vladivostok which transmits its own programmes at other times. Tikhii Okean broadcasts may also be relayed via domestic-service transmitters at Khabarovsk, Magadan and Yuzhno-Sakhalinsk.

0130-0215	Russian	21750
0815-0900	Russian	7175 7210 7490 10344-usb 12045 17675
1900-1945	Russian	7345 9885 9900

(BBCMS)

21750 0130-0215 **Radiostantsiya Tikhii Okean** has been inactive in Febr. I can't find it on another freq. No see now for this time ? (OGUMA Hironao-JPN, WWDXC Feb 20/via WWDXC 453 IN)

Radio Tatarstan's external service, Voice of Tatarstan (Tatar: *Tatarstan Awazy*), started on 1st Aug 1997. The shortwave frequencies are relayed from a high power transmitter at Samara. Programming is mainly in the Tatar language. News bulletins in Russian are carried in most broadcasts on weekdays. Full broadcasts in Russian are carried on Wednesdays during the 3rd transmission and on Thursdays during the 1st and 2nd transmissions.

0500-0600	Tatar, Russian	15105
0700-0800	Tatar, Russian	15105
0900-1000	Tatar, Russian	11915

(BBCMS)

RWANDA 6055 **Radiodiffusion de la Rep. Rwandaise** - Kigali. 1915 end of Fr nx, then followed by ID and nx in En until 1925. Prog in local lang just after that. Good and clear reception. (Mahendra Vaghjee-MAU, Feb 9/via WWDXC 452) [Maintenance by DW personnel, ed.] (Büschel, via WWDXC 452)

SOMALIA 6900, presumed Hargeisa, arnd 1700, Somali songs were hrd and went off after Koran recital at 1730. It was on again Feb 15 from *1600 with Koran recital followed by Somali singing by man, 1630 a few lines of an En song, then talk mentioning SOM, songs after that until 1730* after Koran. Poor rcpn. Holy Koran Radio was usually here, but it has not been hrd for almost a year. (Mahendra Vaghjee-MAU, NU Feb 14/15/via WWDXC 453)

SOUTH AFRICA 3320, *Radio Sonder Grense*; Meijerton, Feb. 6, 0340-0350, Booming in with classical music and male announcer in Afrikaans. Time check, promo for other program. 53444 (Veldhuis-NL Feb 6)

SRI LANKA 4870 *SLBC* Colombo was heard with 0-3-4 around 1415 in Vn on 4870, 4901.9, 4940, 5020 (558, 6185 indicated as // to 5020 could not be heard; 6185 pres. inactive) (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

15425 *Sri Lanka Broadcasting Corporation* 0136 ELO "Hold on Tight to Your Dreams", long break by DJ, then the same song again, "wishing you the very best of happiness", other oldies, time pips, time check "7:30, Colombo time"; fading out by 0200; //9730; trx Rich McVicar in #swl (Brandi Feb 19)

SWAZILAND *Trans World Radio* Swaziland sked:

0300-0330	Ndebele	3200
0300-0345	Shona	3240
0300-0330	Swahili	9440
0330-0400	MTu Tigrignya	7215-(Meyerton)
0330-0400	WThF Oromo	7215-(Meyerton)
0330-0400	SuSa Amharic	7215-(Meyerton)
0345-0400	Lomwe	4775
0400-0430	TuF Tumbuka	6040
0400-0430	SuMWTh Chewa	6040
	Sa	
0400-0430	German	3200 4775
0430-0500	Chewa	6040
0430-0500	English	3200 4775
0500-0735	English	4775 6100 9500
0600-0615	English	11650-(Meyerton)
1400-1415	Urdu	15330
1435-1440	MTuWTh Portuguese	7315
	F	
1440-1510	Portuguese	7315
1510-1525	Makua	7315
1510-1555	Malagasy	9585
1525-1555	Lomwe	7315
1527-1542	Yao	7265-(Meyerton) (FEBA Prog)
1542-1557	Sena	7265-(Meyerton) (FEBA Prog)
1600-1630	Su Shangaan	4760
1600-1630	Tu Tumbuka	6135
1600-1630	MTuWTh Tshwa	4760
	F	
1600-1700	Sa Portuguese	4760
1600-1630	SuMWTh Chewa	6135
	FSa	
1600-1830	English	9500
1600-1630	Kirundi	9670-(Meyerton)
1600-1630	Siswati	1170
1630-1700	M Borana	9670-(Meyerton)
1630-1645	MTuWTh Portuguese	4760
1630-1645	SuF Shangaan	4760
1630-1700	SuTuWT Oromo	9670-(Meyerton)
	hFSa	

1630-1658	Chewa	6135
1630-1700	Tigrignya	11705-(Meyerton)
1630-1700	Zulu	1170
1640-1655	Somali	9650-(Meyerton)
1657-1727	Su Arabic	9650-(Meyerton)
1657-1712	MTuW Shuwa	9650-(Meyerton)
1657-1712	ThFSa Juba	9650-(Meyerton)
1700-1715	MTuWTh Tswana	3200
	Sa	
1700-1715	Su Pedi	3200
1700-1715	F Sotho	3200
1700-1745	Swahili	7440
1715-2200	English	3200
1730-1830	Amharic	9665-(Meyerton)
1745-1800	SuSa Swahili	9440
1745-1800	MF Kimwani	9440
1800-2045	English	1170
1800-1830	Ndebele	3240
1830-1900	Fulfulde	9510-(Meyerton)
1830-1900	Hausa	9490-(Meyerton)
1830-1900	Shona	3240
1830-1845	Chokwe	6130
1835-1905	Bambara	9700-(Meyerton)
1845-1900	Umbundu	6130
1900-1930	Su Portuguese	6130
1900-1915	MTu Portuguese	6130
1900-1915	WThF Kikongo	6130
1900-1915	Sa Lunyaneka	6130
1900-1930	Kanuri	9490-(Meyerton)
1900-1930	Lingala	9525
1900-1915	Nda	3240
1900-1930	Yoruba	9510-(Meyerton)
1905-1935	Baoule	9700-(Meyerton)
1915-1930	Sa Luchazi	6130
1915-1945	Portuguese	6130
1930-1945	SuSa Chokwe	6130
1930-1945	French	9525
1930-2000	Nupe	9510-(Meyerton)
1935-2020	French	9700-(Meyerton)
1945-2000	SuSa French	9525
1945-2000	Kimbundu	6130
2000-2005	MTuWTh Portuguese	6130
	F	
2000-2030	Twi	9510-(Meyerton)
2030-2045	Sa Ewe	9510-(Meyerton)

All frequencies via Manzini, Swaziland, except those marked (Meyerton) via Meyerton, South Africa (BBCMS)

TADJIKISTAN 5800 *Tadjik R.* 1504 Home Service in Tadjik 55444, not // 4635 35433 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

THAILAND 6149.5 *Dusit Palace Station*, 0329 mx in progress, 0331 ID, frequency announcement and address in Thai; as "?MHz" was understood, I looked for a // at FM it is transmitted on 104 MHz also. Happy to get this after several attempts. Px continued with children's songs. 54554 (Passmann, Bangkok-Thailand, Feb. 22/HCDX)

TOGO 5047, *Radiodiffusion Togolaise*; Togblekope, Feb. 21, 0455-0507, IS, NA, Time check, Opening announcement in French with ID as "Radiodiffusion Togolaise, chaine Internationale" and mention of frequencies. Then choir with "What a friend we have in Jezus" in vernacular, followed by religious talk, ending with "amen". Then the same song again, followed by the news, read by male speaker. 44444 (Veldhuis-NL Feb 22)

TURKEY I'm now reasonably sure that 7371 is *Turkish Police Radio*, and it's audible daily at varying levels. (Noel R. Green-UK, Feb 12/via WWDXC 452) 7371 - I acknowledge the report that this is a new freq for Turkish Meteo (x6900). Reception in BUL should be better than it is here so enabling a clearer ID. So, I wonder if the Polis Radio has gone QRT? (Noel R. Green-UK, Feb 16/via WWDXC 453)

UNITED ARAB EMIRATES 15255 *VoUAE Abu Dhabi* new freq in Ar at 1550 tune-in. Ar tlks and songs with musical accompaniment. Relay of Home Sce scheduled 1000-1800. Time pips at 1600 with presumed ID. (Wally Treibel-USA, Cumbre Feb 11/via WWDXC 453)

UNITED STATES *KTBN*, Salt Lake City, Utah:

0000-1600 English 7510
1600-2359 English 15590
(BBCMS)

WINB, Red Lion, Pennsylvania:

0000-0600 English 11950
1700-2000 English 13800
2000-2300 English 13790
2300-2359 English 13790
(BBCMS)

VANUATU 4960 *Radio Vanuatu* 0758 music, possible ID in what sounded like English, national anthem at s/off, matches NA on Nobuyuki Kawamura's site at <http://www.asahi-net.or.jp/~RP4N-KWMR/bcl/sound2/vanuatu.ram>; carrier still there at 1011. Heard again following day going past 1000 (1000 s/off listed as Sundays only) (Brandt Feb 6)

VENEZUELA 4939.4, *Radio Amazonas*; Puerto Ayacucho, Feb. 6, 0159-0207, LA music, jingles/canned IDs in Spanish. 24433 (Veldhuis-NL Feb 6)

VIETNAM 4211.9 *Lai Chau BS*, Lai Chau, noted as UNID the day before, 1203 Translation from an En-

glish speech about ethical leadership and trade liberalization, news Singapore and Vietnam mentioned often, 1226 Libanon-Israel conflict, 1228-1233 definitely ads; much stronger than the day before, 44333, ex-4214.2 Not in // with 6382.9 (Passmann, Ko Pha Ngan-Thailand, Feb 12/HCDX)

6382.9 *Lai Chau BS*, Lai Chau, 1241 Spoken word px, 1247 instrumental Vietnamese music, 1253 Lai Chau mentioned, 44423. No signal at 1313 on: 6391 (Yen Bai), 6451 (Bac Thai). (Passmann, Ko Pha Ngan-Thailand, Feb 12/HCDX)

6500.8 *R. Cao Bang*, 1256 local mx, 1259 good ID despite heavy CW by station HOG, spoken word px by YL, 22332 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

Regarding a request from Hans Johnson: 7154 and 6451 were checked on Feb. 19, 20, 21 at 0000, 1130, 1530 without having got any signal. (Passmann, Ko Tao and Bangkok-Thailand/HCDX)

ZIMBABWE *Zimbabwe Broadcasting Corporation* (ZBC) *Radio 2*

0300-2200 Shona/Ndebele 6045

ZBC Radio 4 in English, Shona, Ndebele, Chewa, Kalanga, Shangaani, Tsongan and Venda:

0300-0530 4828
0530-1630 5975
1630-2200 4828

(BBCMS)

UNID 3355, 1816 Reggae, 1816 short ann in Vn by OM, 1819 Reggae, abrupt end of transmission at 1824; S4 (Passmann, Ko Tao-Thailand, Feb 17/HCDX)

4211.9 1108 YL in Vn (not BI or Ch) and not // 4960 Hanoi, 1113 short piece of song "J'taime", 1118 obviously ads, 44333 (Passmann, Ko Pha Ngan-Thailand, Feb 11/HCDX)

9745 Audible the instant AWR via Meyerton signs off at 2059 in what sounds like possible Arabic or similar language. Alternating Male and female announcers with occasional music. Mention of "Amen, Hallelulia" at the end of what sounded like a prayer at 2148. At 2159 it sounded like the announcer said "... transmitté Africa" & gave what sounded like an address (?). Still on at 2200+. (Silvi Feb 20/HCDX)

Pirate Radio Report

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

Hi and welcome to the March "*Winterfest*" **2000 Edition of the Pirate Radio Report!** The *Fest* is just a few days away and your editor should be there! Just look for me across the street at the Kulpville Kitchen devouring a large plate of chicken croquettes!

There is always a large group of pirate fans in attendance. Be sure to check out the forum on pirate radio hosted by George Zeller and Andy Yoder. Don't forget the midnite ride of Pancho Villa as heard on a secret transmitter hidden somewhere in the bowels of the Holiday Inn.

South American Activity

Two pirates from Latin America continue to be active most weekends. Look for *Radio Cochiquaz* in the 6950 kHz area, usually in LSB between 2200 Saturday UTC and 0400 Sunday UTC. They often relay Europirates. If you hear them, their mailing address is Box 159, Santiago 14, Chile. Better yet, email them at radio.cochiquaz@usa.net to get their latest schedule.

The other active South American pirate is *Radio Blandengue*. Lately they have been operating throughout the daylight hours of Saturday and into early Sunday UTC on 14565 kHz in the USB mode.

All correct reception reports sent via mail with 2 IRCs will receive a QSL card. You can write to them at: Box 293, Merlin, Ontario NOP 1W0 Canada.

Most of Radio Blandengue's programming tends to be relays of Latin pirates. Their email address is: radio.blandengue@usa.net.

As always, if you hear one of these, be sure to send in your logs to us here at the **Pirate Radio Report!**

Loggings!

Lots of logs this month thanks to: Ralph Brandi-NJ, Ross Comeau-MA, Bill Finn-PA,

Fred Kohlbrenner-PA and at the French Creek-PA DXpedition, Chuck Rippel also at French Creek State Park-PA and Lee Silvi-OH

Alpha Lima International, a Europirate was logged on February 20th at 0205 UTC on 6289 kHz featuring pop/dance mx. Poor/fair with RTTY QRM. [Kohlbrenner-PA] Also heard in Massachusetts with armchair copy. [Comeau-MA]

Laser Hot Hits, another Europirate with tentative reception was making it to the USA on 6219 kHz at 0201 UTC on February 20th playing pop music. [Comeau-MA]

KRMI/Radio Michigan International was logged on Feb. 6th on 6955.5 kHz playing music and giving Ids. [Silvi-OH]

Radio Azteca, The Station That Bram Built[™] was heard on Feb. 20th at 0139 UTC with program #36 on the usual 6955 kHz USB. [Comeau-MA]

Radio Bingo was heard on Feb. 6th at 0132 on 6955 kHz playing "Number 9" over and over. [Silvi-OH]

Radio Free London, a Europirate making it across the pond, was heard at 1155-1213 UTC on 15060.2 kHz playing US pop music on Feb. 6th. [Rippel-DXpedition in PA] *RFL* was also logged at the same DXpedition on 5805 kHz at 0106 UTC with weak signals. [Kohlbrenner-DXpedition-PA]

WHYP, was noted at 0131 UTC on 6950 kHz in the AM mode on Feb. 12th with music and James Brownyard comments. [Finn-PA]

WMFQ was logged by Ralph on January 17th at 0107 UTC with bad music from the 70s/80s signing off after a Pink Floyd tune announcing the RI maildrop. [Brandi-NJ]

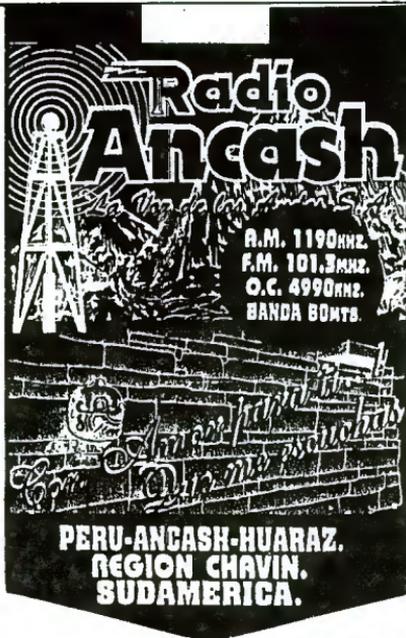
That's it for this month. Be sure to send those logs of The Voice Of Pancho Villa into us for the next column!

Happy Pirate DX!



QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010



ARGENTINA: Radio Nacional 15345 f/d "RAE" cd. w/ New Year's greeting, personal note, report form and a new schedule in 43 ds. (Glotzbach-NM).

ASCENSION ISLAND: Radio Telefis Eireann 21630 f/d cd. in 3 wks. (Field-MI).

ASIATIC RUSSIA: Radio Nederlands 7260 f/d cd. in 40 ds. for \$1.00 which was returned. (Raymond-NH).
* **Radio Vatican** 6205 via **Irkutsk** f/d cd. w/ site in 3 wks. (Craig-head-KS).
* **Radio Vlaanderen International** 9865 via **Petropavlovsk-Kamchatskiy** p/d cd. in 2 wks. (Craighead-KS).

AUSTRALIA: Radio Australia 21740 via **Shepparton** f/d "Shepparton Pacific Aerial Group" cd. in 48 ds. for 2 IRCs. Also rcvd. schedule, stickers and an ARDXC pamphlet. v/s John Wright. (Brouillette-IL). 9580 f/d "Station Photo" cd. w/ schedule in 51 ds. (Klinck-NY).

BONAIRE: Radio Vlaanderen International 13670 f/d "Food" cd. in 46 ds. (Borokowski-NY).

CANADA: Radio Austria International 17870 f/d

"100th Anniversary of Johann Strauss Death" cd. in 28 ds. (Humenyk).

CHU 3330 p/d "Sir Sanford Fleming" cd. w/ station info. in 24 ds. (Clement-GA). **Radio Telefis Eireann** 13640 cd. in 3 wks. (Field-MI).

Radio Canada International 17820 f/d "Canada's Voice to the World" cd. in 24 ds. for 1 IRC. Also rcvd. personal note and schedule. v/s Bill Westenhover and Marc Montgomery. (Brouillette-IL).

CHINA, PEOPLE'S REPUBLIC OF: China Hua'yi Broadcasting Company 4940
* f/d ltr. in 39 ds. direct from the station. Addr: P.O. Box 251, Fuzhou, Fujian 350001, China. (Glotzbach-NM)....Copy of QSL will appear in a future QSL Column....Sam.

ECUADOR: HCJB 9745 f/d "Musicians" cd. in 54 ds. for 2 IRCs. Also rcvd. station calendar, schedule and report forms. v/s John E. Beck, Station Manager. (Brouillette).

COSTA RICA: Radio For Peace International 6975 f/d ltr. in 144 ds. for \$1.00. v/s James Latham. (Raymond-NH).

CZECH REPUBLIC: Radio Prague 7345 f/d "Radio Bus" cd. in 18 ds. w/ station pennant, stickers and schedule. (Borokowski).



GUATEMALA: Radio Buenas

Nuevas 4799.8 f/d cd.
w/ ltr. in 37 ds. for
a SP rpt. and \$1.00.
(Raymond-NH).

HAWAII: Que Huyong Radio

* 17510 via **KWHR** f/d E-
mail ltr. in 2 ds. for
an E-mail rpt. to:
ghradio@aol.com . v/s
Nguyen Khoi, Station
Manager. Addr: 2670 So.
White Rd., Suite 165,
San Jose, CA 95148.
(D'Angelo-PA).

HONDURAS: HRMI 5890 f/d

form ltr. w/ station
brochure in my SASE.
(Glotzbach-NM).

ISRAEL: Galei Zahal 6898

p/d cd. in 31 ds. (D'Angelo-PA)...Looks like the same cd. they used
many years ago...Sam.

KOREA, REPUBLIC OF: Radio Korea International 15575 via **Kimje** f/d "Seoul

World Cup Main Stadium" cd. in 70 ds. w/ newsltr. and station sched-
ule. (Humenyk-ONT).

LIBYA: Radio Jamahiriya 15415 f/d cd. in 43 ds. via the Malta address.

Radio 5264

confirmamos su reporte
de recepcion :

Fecha: 25- 03- 1996
Hora : 18.54 a 19.07
Frecuencia: 5264.7 Khs

Firma: *[Signature]*

RADIO 5264 KC E.R.I.
JR. RICARDO PALMA Sin
CHIRIACO-IMAZA

Samuel L. Barto
47 Prospect Place
Bristol, Connecticut
U.S.A. 06010



after a f/up rpt. (Glotzbach-NM).

MOLDOVA (Pridnestrovie Republic): Voice of Russia 7125 via

Grigoriopol f/d "Night View of the Kremlin" cd. in 62 ds.
The cd. says that **Kishinev** is the site but there are no
more SWBC transmitters there. (Buer-FL).

MOROCCO (French): Voice of America 15240 f/d "Mount Rushmore" cd. in 63
ds. (Raymond).

NIGERIA: Federal

Radio Corpora-

tion of Nigeria

Radio Nigeria

4770 via **Kaduna**
f/d ltr. in 160
ds. for \$1.00.
v/s Shemu Moh-
amman. (Boro-
kowski-NY).

PAKISTAN: Radio

Pakistan 15465
personal ltr.
w/ brochure &
schedule in 193
ds. (Glotzbach-
NM).

PALAU: KHBN Voice

of Hope 9965
f/d cd. in 28
ds. (Glotzbach-
NM). f/d "Map"



[Handwritten signature]

**ADVENTISTICKI SEMINAR DVORAC
MARUSEVEC**

The Seventh-day Adventist Church operates more than
5,000 schools around the globe making it the largest
Protestant school system in the world. Adventisticki
Seminar Dvorac Marusevec is located near Maruse-
vec, Yugoslavia and provides higher education to
Yugoslavian and other international students.

To **Mr. Richard A. D'Angelo**

We are pleased to verify your reception of our station.

Date **25-5-92** Time **16:57-1725 UTC**

Frequency **15125** kHz **20** meters

Transmitter location **Samara, Russia**

MALAGASY REPUBLIC: Radio Madagas-

ikara my report of 011099 was
returned by the USPO 12 months
later...can't tell why as the
stamp is not clear. (Field-MI).
Radio Nederlands 9855 f/d "Lim-
ited Edition - Nature in Our
Own Backyard" cd. in 21 ds.



National Democratic Alliance NDA
Voice of Sudan Reception Verification Certificate
Transmitting from: Liberated Areas (Sudan)



Awarded to

Mr. Edward Kusalik

Frequency: 7999.52 kHz: 37.50 meters / 12008 kHz: 24.98 meters
Time: 15:53 UTC
Date: 8th February 1998

We confirm with pleasure your listening report, which conforms to the programs we broadcast.

Friday, April 24, 1998

[Signature]

On behalf of Sudan Voice team
Abdullahi F. ElMahdi
NDA SG Office Director

FEBE RADIO

via Helms

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 FEBE Radio.

QSL Secretary

41 H3aa

DATE 2nd January 91

TIME 1500-1600 UTC

FREQUENCY 9590 kHz

METRE-BAND mb

FEBE RADIO, P.O. BOX 234, SEYCHELLES, INDIAN OCEAN.

Santa Cruz (via Chiclayo), Peru. This was my 100th QSL from Peru. (Field-MI). Radio Victoria 9721 E-mail reply was rcvd. from v/s Patricia Arbizu Sanchez. (D'Angelo-PA). Radio Comas Television 3251

finally QSLed after 571 ds. w/ a 2 page personal ltr. for \$1.00. v/s Gamaniel Francisco Chahua, Productor y Programador General, Jefe y Editor de Presna Voz Oficial. (D'Angelo-PA).

PHILIPPINES: Voice of America

9769 and 15425 f/d "Mount Rushmore" and "Sunrise at Greenville" cds. in 34 ds. for an E-mail rpts. (D'Angelo-PA).

POLAND: Radio Polonia

9525 f/d "Warsaw Airport" cd. in 77 ds. w/ report form and schedule. v/s Rafal Kiepuszewski. (Borokowski-NY).

RUSSIA: Radio Nederlands

5835 f/d "Limited Edition" cd.

in 1 mo. w/o site...I've seen Moscow and Kaliningrad. (Field-MI). SAIPAN: Voice of America 9355 f/d "Mount Rushmore" cd. in 30 ds. for an E-mail rpt. (Rigas-IL). f/d "Sunset at Greenville" cd. in 52 ds.

(Davis-NM). Herald Broadcasting 9355 f/d "Multi-Cultural" cd. in 1 yr. for a Do-It-Yourself cd. and ms. v/s Cindy Riehm. (Moats-OH).

SAUDI ARABIA: Broadcasting Service of the

* Kingdom of Saudi Arabia 15275 verified in 169 ds. via DXer Ray Prestridge who was nice enough to forward my QSL after it was mailed to him. I had previously received his QSL and forwarded it to him. The trials and tribulations of a DXer! (D'Angelo-PA).

SINGAPORE: Radio Canada International

13735 f/d cd. w/ plastic pennant in 24 ds. (Neal-TX). Swiss Radio International 12010 f/d cd. w/ site in 2 mo. after a f/up rpt. for 2 IRCs. (Kusalik-ALB). Radio Japan 11740 via Kranji f/d "Paper string art" cd. w/ report form and a schedule. (Field-MI). Radio Telefis Eireann 11740 via Kranji cd. in 3 wks. (Field-MI).

SOUTH AFRICA: Adventist World Radio

6015 via SENTECH / Meyerton f/d "Indiana" postcard w/ AWR stamp in 54 ds. for ms.

Q.S.L.



Dear Mr. [redacted]

This is to acknowledge your reception report of 9/4/85
198... and to confirm that the programme you heard on 2/25
9/2/1985 came from our Broadcasting Station in Belize.

TRANSMISSION PERIODS G.M.T. (Local Time-G.M.T.-4 hrs.)
930 KHZ Medium Wave 30 K.W. 0500
and 1100 hrs to 0900 hrs.
0285 MHz Short Wave 1 K.W.

Address of Listener

Tom Polvina
628 Greenwood Dr.
700 J Hwy
Birmingham
38652 USA

Cheng
Chief Broadcasting Officer
Belize City/Belize, C.A.





DIRECTORATE GENERAL,
ALL INDIA RADIO,
A.V. BHAWAN, SANSAID MARG,
NEW DELHI-110001, INDIA.

O.I.G.S.



No. 3/1/79 E/III Dated. 3.8.79

Dear Sir/Madam,

We gratefully acknowledge and confirm your Reception Report.

Date 31.12.78 Frequency 4970 kHz

Time 15:24 UTC Station SHILLONG

Yours Faithfully,

(Signature)
Director (Freq. Assignments)
(A.K. BHATNAGAR)

ARCHAEOLOGICAL SURVEY OF INDIA

MR. JEFF. MOLANDER

6808 STORIA WAY

ELK GROVE, CA 95758

USA

v/s Adrian Peterson.
* (Kusalik-ALB). World Amateur Radio Day - 98 15205 via SENTECH Meyerton f/d "Radio and Television" cd. from the South African Amateur Radio Club in 31 ds. v/s Kathy Otto. (Kusalik-ALB). Channel Africa 15215 via SENTECH / Meyerton f/d "Tygerberg Transmitter" cd w/ schedule in 46 ds. Also rcvd. schedule and sticker. v/s Kathy Otto. (Borokowski-NY).

SRI LANKA: Voice of America 11895 via Iranawila f/d "Mount Rushmore" cd. in 50 ds. (Davis-NM).

SWEDEN: Radio Sweden 9495 f/d "Vasa Ship" cd. in 12 ds. for 1 IRC. (returned). Also rcvd. schedule. v/s C. Adler. (Brouillette-IL).

TAIWAN: Radio Portugal International - Special Broadcast to Timor

11550 rcvd. 2 f/d cds. w/ site and a personal ltr. confirming the special transmission. Also rcvd. baseball cap, decals and schedule. v/s Isabel Sarativa. This was in 21 ds. for 2 IRCs. (Kusalik-ALB).

TAJIKISTAN: Voice of Russia 11500 f/d cd. in 60 ds. for 1 IRC. (Raymond-NH).

UKRAINE REPUBLIC: Radio Ukraine International 5905, 9560, 11840 and 13590 from Lvov - Brovary and on 7410 and 9945 from the Lvov - Krasne site. All in 6 mo. w/ postcard, schedule and a sticker map of the Ukraine. (Field-MI).

USA: WTDY 1670 ltr. in 12 ds. v/s Roy Simmons III, Chief Engineer. (Kusalik-ALB) WTJC 9370 f/d "Lighthouse with Bible Verses" cd. in 7 ds. for SASE(used). v/s A. Robinson. (Buer-FL). same in 2 wks. w/ schedule, pocket calendar and religious info. This is my first SWBC QSL since July. Grad school is keeping me very busy. (Wilkins-MO). WRMI 7465

**VOICE OF INDONESIA
VERIFICATION CARD**

This is Mr. Jeff A. Molander

on our English language broadcast

on a frequency of 9525 kHz.

Thanks for listening.

LANGUAGE	GMT/UTC	W.I.T.	FREQUENCY (kHz)
ENGLISH I	01.00-02.00	08.00-09.00	9525 -
ENGLISH II	08.00-09.00	15.00-16.00	9525 - 11785
ENGLISH III	20.00-21.00	03.00-04.00	9525 - 15150
INDONESIAN I	02.00-03.00	09.00-10.00	9525 - 11785
INDONESIAN II	12.00-13.00	19.00-20.00	9525 - 11785
ARABIC	03.00-04.00	10.00-11.00	9525 - 11785
MALAYSIAN	09.00-10.00	16.00-17.00	9525 - 11785
MANDARIN	10.00-11.00	17.00-18.00	9525 - 11785
THAI	11.00-11.30	18.00-18.30	9525 - 11785
JAPANESE	11.30-12.00	18.30-19.00	9525 - 11785
SPANISH I	17.30-18.00	00.30-01.00	9525 - 15150
SPANISH II	00.30-01.00	07.30-08.00	9525 -
GERMAN	18.00-19.00	01.00-02.00	9525 - 15150
FRENCH	19.00-20.00	02.00-03.00	9525 - 15150

W.I.T.: Western Indonesian Standard Time

f/d "Aerial View of the Miami Beach Causeway" cd. in 128 ds. w/ schedule and sticker. v/s Jeff White. (Humeny-ONT). KAIJ 5835 personal ltr. in 7 ds. for SASE(used). v/s Fred. Bithell, Station Manager. (Glottzbach-NM).

VIETNAM: Radio Television

* Lai Chau 6382.5 n/d ltr. in 6 mo. direct from the site. Addr: Dai phat thanh truyen hinh Lai Chau, Dien Bien Phu, Lai Chau, Vietnam. (Nishikawa-JP)



DIRECTORATE GENERAL,
ALL INDIA RADIO
A.V. Bhawan, Sansad Marg,
New Delhi-110001, INDIA.

O.I.G.S.

No. 3/1/79 E/III 169

Dear Sir/Madam,

We gratefully acknowledge and confirm your Reception Report.

Date 31.12.78 Frequency 8850 kHz

Time 15:31 Station KOHIMA

Yours faithfully,

(Signature)
Director (Freq. Assignments)
(A.K. BHATNAGAR)

ARCHAEOLOGICAL SURVEY OF INDIA



MR. JEFF MOLANDER

6808 STORIA WAY

EIK GROVE, CA 95758

USA

The February 18 snow-storm is forcing me to cut this Column a bit short. Biggie next month!

(Signature)

Net Notes

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

Continuing last month's quest for "real radios that glow in the dark" we have more data for you. There are firms selling tube radio kits, honest! The products and pictures are intriguing. First, Ralph Brandi found a nifty site in the UK at <http://www.vikingsw.demon.co.uk/>. It seems to be in the design phase, but there is a 40m direct conversion receiver available now. And later we discovered a California firm that sells "Atomic-era" tube radio kits at <http://www.ghostmoon.bigstep.com/>. These products appear to be in final form.

Nils Jakobsson's "Eldorado for LA DXers" Web site, a resource of information — addresses, verification signers and more — for those chasing DX in Central and South America, has moved again. The new URL is <http://members.chello.se/mwm/eldorado/>.

Two African broadcasters have recently surfaced on the Web. The Zimbabwe Broadcasting Corporation is at <http://www.africaonline.co.zw/zbc/>. No streaming audio (yet), but there is a full program guide for the several services here. It is a nicely done set of pages. And Radio Madagascar has a French language page set at <http://>

takelaka.dts.mg/radmad/.

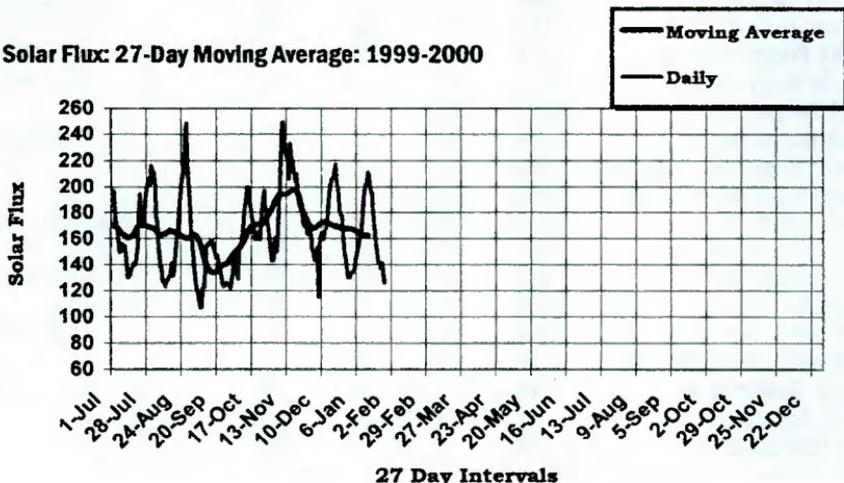
Remember the Russian Woodpecker and the US Navy HF OTH (over the horizon) radar systems? Now the HF spectrum is under attack again by Raytheon and the government of Canada. A new HF radar system will affect the low and mid-frequency spectrum. Read the press release at <http://www.raytheon.com/press/1999/dec/hfswr.html>.

Are you doing some computer programming of your radio? Radio amateur OK1RR has "Radio control RS-232 interfacing" information on his Web site. Go to <http://www.qsl.net/ok1rr/>, then click on the "Tech Stuff" menu button and look half-way down the page.

Three-dimensional maps of the world may be found on the "MapMachine" piece of the National Geographic Web site at <http://plasma.nationalgeographic.com/mapmachine/>.

A new movie called "Frequency" ties in amateur radio as a father and son talk across 30 years in the mother of all solar cycle peaks. Check out the Heathkit radio gear at <http://www.frequencymovie.com/>. If you don't already have the Macromedia Flash plug-in, get it. The movie is out now.

Solar Flux: 27-Day Moving Average: 1999-2000



Scoreboard

Fred S. Kohlbrenner • 2641 S. Shields St. • Philadelphia, PA 19142 • fkohl@ix.netcom.com

Hello, and welcome once again to the NASWA SCOREBOARD. This month we highlight our members European totals. The next deadline is May 15th for the June issue of the *Journal*. The spotlight then will be on North America. Please update your totals at least once a year to remain on the SCOREBOARD, and remember to use the NASWA Country List for counting totals. Thanks to all of our regular contributors, and welcome to those joining the SCOREBOARD for the first time.

Name, State	Total		Europe		Best Europe QSL
	C/H	C/V	C/H	C/V	
James Young, CA	251	233			
Dan Henderson, MD	242	234	47	46	WMR Scotland
Marlin Field, MI	241	240	46	46	EMR 6235
William Flynn, OR	241	227	45	43	R. Dublin Int.
Jerry Berg, MA	240	238	47	46	Polish Pathfinders
Gerry Bishop, FL	238	223	47	44	N. Ireland Relay Sve.
John Sgrulletta, NY	236	236	47	47	R. Andorra
Harold Cones, VA	234	232	44	44	
Don Hosmer, MI	227	195			
Nobuaki Takahashi, Japan	226	201	39	36	R. Andorra
Richard A. D'Angelo, PA	222	216	46	45	Karelian Radio
Sheryl Paszkiewicz, WI	221	214	40	40	WMR Scotland
Richard Davis, NM	220	212	40	40	RIAS Berlin
Paul Buer, FL	218	206	44	43	R. Dublin Ltd.
Rick Krzemien, CA	217	212			
Christos Rigas, IL	217	197	44	44	Petrozavodsk
Jerry Klinck, NY	218	196	40	39	R. Fax
Fred Kohlbrenner, PA	217	193	44	42	WMR Andorra
Jerry Lineback, KS	214	109	42	29	R. Andorra
George Maroti, NY	194	161	44	43	WMR Scotland
Stephen Price, PA	193	172	40	40	RIAS
Jim Renfrew, NY	187	153	42	40	RAI Sicily
Bob Fleck, TX	184	161	39	38	R. Andorra
Ross Comeau, MA	184	155	42	41	WMR Scotland
Allan R. Loudell, DE	184	155	40	37	R. Minsk
Gary Froemming, AZ	181	44	39	14	RID Russia
Andy Rugg, Quebec	177	157	43	41	NIRS 6273
Bill Bergadano, NJ	177	117			
Bob Raymond, NH	174	144	41	37	R. Mayak, Moscow
Mark Humenyk, Ontario	169	137	38	37	R. Kiev
Robert E. Gearing II, FL	155	122			
Darren White, MS	154	110	36	33	R. Peace and Progress
Norm Constanti, MO	142	107	32	29	Iceland
Jill Dybka, TN	129	99	34	32	R. Luxembourg
Gary R. Neal, TX	123	114	35	35	IRRS
George L. Glotzbach, NM	111	80	33	28	R. Tatarstan
Ronald J. Hunsicker, PA	108	96	33	33	Malta
Gene Borowski, NY	92	81	35	33	Iceland
Bret Pollack, MD	82	54	31	25	
Ed Krucenski, FL	59	27	22	14	

Contributors' Page

Fred S. Kohlbrenner • 2641 S. Shields St. • Philadelphia, PA 19142 • fkohl@ix.netcom.com

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
Gene BOROWSKI, Staten Island, NY	
Ralph BRANDI, Tinton Falls, NJ	R8 PR150 Dressler ARA60, 250' LW
Paul BROUILLETTE, Geneva, IL	R8 60' LW
Paul BUER, Miami, FL	
Anthony A. CAPOBIANCO, Staten Is., NY	FRG-100 AD Sloper
Ross COMEAU, Andover, MA	R8 325' LW
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Rich A. D'ANGELO, Wyomissing, PA	R8 HF150 FL-3 AD Sloper LW
Walt FAIR, Maracaibo, VENEZUELA	Sangean ATS-909 Realistic ant. and LW
Jeff FINDLATER, Los Angeles, CA	
Mark FINE, Remington, VA	
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
George GLOTZBACH, Santa Fe, NM	R8B ARA-60
Hugh O. GRIFFIN, Jr., Portsmouth, VA	
Bob HILL, Littleton, MA	Sony 2010 120' dipole at 35'
Ron HUNSICKER, Wyomissing, PA	
Jerry KLINCK, East Aurora, NY	R8 HQ-180AX 80' LW 60m dipole
Fred KOHLBRENNER, Philadelphia, PA	R8 NRD-525 Datong FL-3 ANC-4 Sloper
Harold LEVISON, Philadelphia, PA	R8 R70 YB400
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
Jack LINONIS, West Middlesex, PA	DX-375 DX160A NCX-20 65' LW Sloper
George MAROTI, Mt. Kisco, NY	R8B 2010 T2FD 30/45m dipoles
William McGUIRE, Cheverly, MD	DX-380
Jim MOATS, Ravenna, OH	FRG-7700 LW
Bob MONTGOMERY, Levittown, PA	R388 DX Pro active antenna
Gary NEAL, Sugarland, TX	Grundig YB-400
Ed NEWBURY, Kimball, NE	WJ-1000 R8 60'Sloper 20' loop
Scott NEWMAN, Indianapolis, IN	Sony 2010 Eavesdropper 42' dipole
Junichi NISHIKAWA, Tokyo, JAPAN	
Takayuki Inoue NOZAKI, Tokyo, JAPAN	NRD515 NRD535 FRG7000
Sheryl PASZKIEWICZ, Manitowoc, WI	R8 NRD-525 60' LW Eavesdropper
Bob RAYMOND, Nashua, NH	R8B 20m 5/8 wave vertical
Chris RIGAS, Wood Dale, IL	R-2000 Sony 2010 AD Sloper LW
Chuck RIPPEL, Cornland, VA	WJ-HF1000A R8B R390A/SE-3 51s-1 LW's
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
Arnaldo L. SLAEN, ARGENTINA	
John SGRULLETTA, Mahopac, NY	NRD-515 DX Sloper Mosley SWL-7
Fred TRESCHER, Philadelphia, PA	Sony 2010 FRG-7700
Jennifer WEINBRUM, Denver, CO	AOR-7030
Gerald WITHAM, Keauau, HI	R8 ANC-4 135' LW

Editor Wallace Treibel has an early deadline for March. Please try to get your International Band logs to me by March 7th, if possible so I can get them to him in time. Any logs arriving here past that date will be held here until the next mailing to Wallace next month. Hope this doesn't cause any inconvenience. (More after Tropical Loggings.)



Tropical Band Loggings

Sheryl Paszkiewicz • 314 Riverview Drive, Apt 16 • Manitowoc, WI 54220 • spasz@dataplusnet.com

- 2310 AUSTRALIA CAAMA R 2/4 1156 EG pops, EG W (Line-KS) 1/25 1145 pop mx, ID, Buffalo Springfield (Bran-NJ)
- 2325 AUSTRALIA CAAMA R 2/4 1156 EG pops, EG W (Line-KS)
- 2410 NEW GUINEA R *Enga* 1/22 1150 lang talk, pops (Line-KS) 2/6 1130 talk, island mx (Ripp-VA)
- 2485 AUSTRALIA CAAMA R 2/4 1156 EG pops, EG W (Line-KS)
- 2490 BRAZIL R *Oito de Setembro* 2/4 2345 poss ID, noisy, 0001* (Mont)
- 3172.8 PERU R *Municipal* 2/4 1036 tent ID, OA mx, fady but building (Mont-PA)
- 3205.6 GHANA GBC spur 2/23 2224, f-g (Maro-NY)
- 3215 SULAWESI RRI *Manado* 1/27 1122 Indo talk, mx (Line-KS)
- 3245 INDIA AIR *Lucknow* 2/7 0052 talk, SC mx (Maro-NY)
- 3245 NEW GUINEA R *Gulf* 2/4 1202* C&W, talk, anthem (Maro-NY)
- 3250 HONDURAS *Luz y Vida* 2/4 0220 SP rel pgm, theme, Great is Thy Faithfulness (Newm-IN)
- 3250.8 PERU R *Comas* 2/5 1002 Andean vocals, ID, brief anmts (Kohl-FC) 2/5 1053 rustic vocals, ID, ads (D'An-FCDX)
- 3260 NEW GUINEA R *Madang* 1/17 1154 local mx (Line-KS)
- 3265 SULAWESI RRI *Gorontalo* 1/17 1200 RRI nx by W (Line-KS)
- 3280 ECUADOR *LV del Napo* 2/6 1017 rel pgm & mx, ID (Raym-NH) 2/5 1058 SP talk (TIN-JP)
- 3285.7 GHANA GBC 2/5 2209 previously unid. //3366. Spur of 3366, also found on 3446.3 (Hill-MA)
- 3289.9 ECUADOR R *Centro* 2/5 1028 pol or econ discuss, TC, ID 1045 fair (Kohl-FCDX) 2/5 1032 ad string, TC, econ talk, ID, TC (D'An-FCDX)
- 3310 BOLIVIA R *Mosoj Chaski* 2/6 *0800 opening ID, NA, anmts (D'An)
- 3315 INDIA AIR *Bhopal* 2/7 0048 SC mx, talk, required notch (Maro-NY)
- 3315 ADM ISL R *Manus* 1/17 1155 lang anmts, local mx (Line-KS)
- 3316 SIERRA LEONE *SLBS* 2/4 2226 EG nx, nice copy. Talk abt advertising, ID, into lang mx (Mont-PA) 1/27 2140 cmtry, anncd freqs, drums, ID, natl nx (Maro-NY)
- 3320 S AFRICA R *Sonder Grense* 2/3 2350 US pops, ID (Mont-PA)
- 3324 GUATEMALA R *Maya* 1/16 1134 clear ID, SP mx, Onward Christian Soldiers on a Sunday (Raym-NH)
- 3335 NEW GUINEA R *E Sepik* 1/17 1158 local mx (Line-KS)
- 3345 MOLUCCAS RRI *Ternate* 1/17 1158 local anmts, SCI (Line-KS)
- 3355 NEW GUINEA R *Simbu* 1/17 1158 local pops (Line-KS)
- 3365 INDIA AIR *Delhi* 2/6 1250 //4860, poor under ute (Line-KS)
- 3366 GHANA GBC 2/4 2235 EG reggae mx, nice sig, rap mx 2239 (Mont)
- 3375 NEW GUINEA R *W Highlands* 2/4 1200 ID, s/off routine (Maro-NY)
- 3380 GUATEMALA R *Chortis* 1/22 1122 Ids, orchestral mx (Raym-NH) 1/26 1131 local mx, great ID (Klin-NY)
- 3385 NEW BRITAIN *RENB* 1/25 1148 lang talk (Line-KS)
- 3395 NEW GUINEA R *E Highlands* 2/4 1144 lang talk, local mx (Line-KS)
- 3905 IRIAN JAYA RRI *Merauke* 2/5 1154 EG pops, ID, nx (D'An-FCDX) 2/6 1230 Indo pops, good (Line-KS)

- *3959.8 **N KOREA KCBS** 2/6 2212 KR W, chorus, narrating over orch mx, // 2850,
1st time this season (Hill-MA)
- 3976 **KALIMANTAN RRI Pontianak** 2/4 1159 SCI, RRI mx, poor (Line-KS)
- 4000.1 **SULAWESI RRI Kendari** 2/2 1148 Indo vocals (Line-KS)
- 4060.5 **CLAND Vo People Kurdistan** 1/31 1625 talk, ID, mx break (Serr) 4060.7 2/5
0404 nx, mx break, ID, talk (D'An-FCDX)
- 4062.4 **CLAND Vo People Kurdistan** 1/30 0410 lang talk, mx, drifting (Alex-PA)
- 4072.4 **CLAND Vo People Kurdistan** 2/4 0347 patriotic march, Kurdish ID "Aira dangi
gelli kurdistana", annc website!, Koran (Hill-MA)
- 4085 **CLAND Vo Iraqi Kurdistan** 1/31 1631 ment Kurdistan, mx breaks, ID
1637 (Serr-IT)
- 4463.7 **PERU R Norandina** 2/5 1055 vocals, roosters, cows, ID (Kohl-FC) 2/5 1108
rustic vocals, talk, ID, TC (D'An-FCDX)
- 4515.7 **PERU R Amistad** 2/6 0005 huaynos, flutes, ID 0020 (Kohl-FCDX) 2/6 0009 rustic
vocals, nice ID 0020, poor but clear (D'An-FC)
- 4606 **IRIAN JAYA RRI Serui** 2/3 1153 Indo vocals, SCI (Line-KS)
- 4725 **MYANMAR R Myanmar** 2/6 1152 talk, short mx, ID, nx (D'An-FCDX) 2/4
1317 female vocals (Line-KS)
- 4753.6 **SULAWESI RRI U-P** 2150 regional mx, SCI, nx (Sgru-NY) 2/4 2152 Indo pops,
animated talk, SCI, ID, nx, poor (Kohl-FCDX) 2/4 2212 group vocals, talk, IS, TP, nx
(D'An-FCDX) 2/4 1152 Indo vocals, PSAs or ads, SCI, RRI nx (Line-KS) 12/19 2148
discuss, ment Jakarta (Klin-NY) Tnx for the neat shack photo!! Sp
- 4760 **KASHMIR AIR Leh** 2/6 1248 lang talk, very poor (Line-KS)
- 4760rf **LIBERIA ELWA** 2/10 2130 chorus, ID, NA, tnx Veldhuis & Gehrig (Bran-NJ)
- 4765 **UNID** 12/19 0350 pres SP, lots of static, singing (Lino-PA)
- 4770 **NIGERIA R Nigeria** 2/9 *0433 IS, ID, lang talk, EG rel talk (Bran-NJ)
- 4775 **BRAZIL R Liberal** 1/12 0308 Braz mx, echo anmts, ID, ment Belem, TC (Brou-IL)
1/19 0310 Madrugada Liberal pgm, IDs (Newm-IN)
- 4775 **INDIA AIR Imphal** 2/6 1319 lang talk (Line-KS)
- 4775 **PERU R Tarma** 2/4 1055 lively vocals, OM ID, TC (D'An-FCDX)
- 4789 **IRIAN JAYA RRI Fak-Fak** 2/4 1152 Indo pops, SCI (Line-KS)
- 4790 **INDIA AIR Chennai** 2/7 0027 Hindi film mx, S6 sig (Maro-NY) 2/3 0027
poor in lang, SC mx (Line-KS)
- 4799.9 **GUATEMALA R Buenas Nuevas** 1/10 1159 ID, poss rel pgm (Capo-NY)
- 4800 **INDIA AIR Hyderabad** 2/7 0024 Vande Mataram but didn't stick around because
conditions good for other AIR stns (Maro-NY) 2/6 1318 SC mx (Line-KS)
- 4800 **LESOTHO R Lesotho** 1/9 0259 ID, freqs, talk, mx (Klin-NY)
- 4815 **BURKINA FASO R Burkina** 2/5 2206 FR nx, ID, fair (Kohl-FCDX)
- 4820 **HONDURAS HRVC** 12/18 0420 SP rel pgm (Lino-PA)
- 4820 **INDIA AIR Calcutta** 2/6 1319 SC mx (Line-KS)
- 4824.5 **PERU R LV de la Selva** 2/4 1049 ID, flute mx (Mont-PA) 1/29 1100 said
power would B cut off, ID (TIN-JP)
- 4825 **BRAZIL R Cancão Nova** 2/3 0855 rel cmtry (Stae-ARG)
- 4826.3 **PERU R Sicuani** 2/4 1022 long talk, ID, Tcs, rustic vocals (D'An FCDX)
- 4830 **VENEZUELA R Tachira** 12/18 0400 pol speech (Lino-PA)
- 4835 **GUATEMALA R Tezulutlan** 2/4 0308 Mayan dialect, msgs, marimba (Brou-IL)
- 4835 **MALI R Malienne** 2/6 2103 strings & drum mx, ID (Serr-IT)
- 4840 **INDIA AIR Mumbai** 1/31 1557 chant, poss ID, anmts (Serr-IT) 2/6 1316
lang talk (Line-KS)
- 4845 **BRAZIL R Cultura** 2/3 0847 ID, wx rpt, TC (Stae-ARG)
- 4845 **GUATEMALA R Kekchi** 2/4 0150 Ids, rel pgm (Newm-IN)

- 4845 **MALAYSIA R Malaysia** 1/29 1200 lang talk, SC mx, Tamil svc, no Guatemala (Line-KS)
- 4845 **MAURITANIA ORTM** 1/22 0100* Koran, anmts (Alex-PA)
- 4850 **CAMEROON CRTV** 1/6 0055 closing anmts, NA 0100* (Sgru-NY) 2/4 0011 FR interview, fair (Mont-PA) 1/15 2126 One Light pgm, Afr mx, IDs in EG, TC, FR nx (Bran-NJ) 1/22 2140 EG to 2154, Afr vocals, FR addr, Ids, pgm sked (Kohl-PA) 1/30 2135 EG discuss on physical/spiritual wellness (Klin-NY)
- 4850 **CHINA CNR** 1/2 2236 EG lesson //5010, exc (Sgru-NY)
- 4850 **INDIA AIR Kohima** 1/31 1210 anmts, kids choir, ID, 6 TP 1230, ID, EG nx (Sgru-NY) 1/31 1215 choral mx, TP, EG nx hrd over usual China & Tashkent mess (Maro-NY) 2/6 1316 lang talk under CH talk (Line-KS)
- 4860 **INDIA AIR Delhi** 1/31 1606 vocals, p-f (Serr-IT) 2/6 1247 SC mx, fair (Line-KS)
- 4865 **BRAZIL R Verdes Florestas** 2/5 1047 instl, full ID, ment freqs (TIN-JP)
- 4865 **COLOMBIA LV del Cinaruco** 12/19 0415 pop LA mx, rapid talk (Lin)
- 4870 **ECUADOR LV del Upano** 12/8 0248 local mx, clear ID (Klin-NY)
- 4875 **IRIAN JAYA RRI Sorong** 2/2 1158* IN anmts, vocals (Line-KS)
- 4880 **INDIA AIR Lucknow** 2/6 1317 lang talk (Line-KS)
- 4885 **BRAZIL R Clube** 2/5 2217 ID, speech, Braz pop mx (Kohl-FCDX) 1/23 0320 American soul & pop, ID (Bran-NJ) 12/19 0415 ID, Braz mx (Lino-PA) 1/12 0341 lots of echo, US pops, TC (Brou-IL) 1/24 0241 full ID, ballads (Newm-IN)
- 4890 **PAPUA Karai Natl R** 2/5 1250 pop mx, ID, TC for 11 o'clock (Kohl FCDX) 2/4 1149 EG pops (Line-KS) 1/25 1308 nx, ment Karai svc, bad pop mx (Bran-NJ) 1/22 1210 Late Nite Radio pgm, C&W, pop mx, TCs (Newm-IN)
- 4895 **SARAWAK R Malaysia** 1/29 1300 lang talk (Line-KS)
- 4900 **CHINA Vo Strait** 2/5 2216 CH opera, talks (D'An-FCDX)
- 4910 **INDIA AIR Jaipur** 2/6 1322 SC mx (Line-KS)
- 4915 **BRAZIL R Anhanguera** 2338 phone rpts, pol tlk, ID (Brou-IL)
- 4915 **PERU R Cora** 12/19 0430 SP fading (Lino-PA)
- 4919 **ECUADOR R Quito** 2/5 1151 nx by YL (TIN-JP) 2/7 0615 LA mx (Tres-PA)
- 4920 **INDIA AIR Chennai** 1/31 1611 chant & instl mx (Serr-IT) 2/6 1248 lang talk (Line-KS)
- 4925 **SUMATRA RRI Jambi** 2158 SCI and into nx (Sgru-NY) 2/3 2257 prayer, SCI, anmts (Mont-PA) 2/3 2241 talk, Koran, SCI, more talk (D'An-FCDX)
- 4930 **UNID** 12/19 0430 AR w/poss Koran (Lino-PA)
- 4930.6 **HONDURAS R Costena** 1/17 0102 discussion (Klin-NY)
- 4950 **ANGOLA R Nacional** 1/9 0255 pops, ballads, TP, anmt (Alex-PA)
- 4950 **ECUADOR R Bahai** 2/5 1102 pasacalles, ID (TIN-JP)
- 4950 **KASHMIR R Kashmir** 1/31 1654 chant, anmts, instl mx (Serr-IT)
- 4955 **COLOMBIA R Nacional** 1/15 0058 full ID, mx (Bran-NJ) 12/19 0430 slow LA mx (Lino-PA)
- 4955 **PERU R Cultural** 2/6 *1052 classic mx, canned ID, folklore & Bible in Quechua (TIN-JP)
- 4960 **DOM REP R Villa** 12/17 0515, LA mx, canned IDs (Capo-NY)
- 4960 **INDIA AIR Ranchi** 1/15 1150 talk, ID, brief mx (Klin-NY)
- 4960 **VANUATU R Vanuatu** 2/6 0758 mx, poss ID, NA matches Kawamura's website (Bran-NJ)
- 4975.1 **CHINA Fujian PBS** 2/6 2223 CH ads, theme, ID (Hill-MA)
- 4975.3 **BRAZIL Super R Tupi** 2/9 0455 mx, PT talk, ads, ID (Bran-NJ)
- 4976 **UGANDA R Uganda** 1/23 0408 ads, msg from Uganda Police, another from dept.of consumer protection, TC, ID, bank ad, Fisheries Dept in Entebbe, anmts, death notices (Bran-NJ) 1/13 0403 EG nx, cmtry, IDs (Klin-NY) 1/31 0405 ID, nx, anmts (Newm-IN)

- 4990 **INDIA AIR Itanagar** 2/6 1318 SC mx (Line-KS)
- 4990.7 **SURINAM R Apintie** 1/28 0515 Elton John, "Radio Apintie will always be Number 1." (Sgru-NY)
- 5009.7 **MADAGASCAR RM** 2/6 0318 long sermon, choir, prayer, rel pgm, ID, talk, gongs (D'An-FCDX) 1/23 0253 IS, NA, talk, ID, rel pgm, hymns, Amens, sermon (Kohl-PA) 1/23 0332 FR/lang local mx, anmts, ID (Klin-NY)
- 5010 **CHINA CNR** 2/8 2219 CH talk, EG lesson (Raym-NH) 2328 CH nx, pop mx, ID, ads, choral mx (Brou-IL)
- 5010 **INDIA AIR Thiru.** 1/25 0038 lang talk, flutes, fading (Wein-CO) 0015 tone, IS, Vande Mataram 0020, EG nx 0036 recheck (Sgru) 2/7 0023 EG nx 0035, S6 sig (Maro-NY) 2/3 0020 SC mx (Line-KS) 1/23 0034 ID in EG, nx "and that's the nx from India." (Bran-NJ) 12/30 0056 local mx, ID, nx (Klin-NY)
- 5015 **BRAZIL R Pioneira** 2/4 0028 US pop tunes, anmts (Mont-PA)
- 5015 **TURKMENISTAN R Asgabat** 12/24 0102 nx in poss RS (Klin-NY)
- 5025 **BENIN R Parakou** 2/4 2145 US pops, FR anmts, tent ID (Mont-PA) 12/19 0500 lang nx & chanting (Lino-PA) 1/30 2145 FR local mx, ID & anmts (Klin-NY)
- 5025 **CUBA R Rebelde** 2/4 0615 SP ads (Tres-PA)
- 5030 **CHINA** 2/6 2053 CH mx, anmt, TP, ID, mx (Serr-IT)
- 5030.1 **COSTA RICA Dr. Gene Scott** 1/29 0110 lite mx //sev others (Alex)
- 5035 **CENT AFR REP R Centafricaine** 2/3 2223 ID, rap mx, hilife mx, great sig (Mont-PA) 2/3 2207 hilife & rap mx, IDs (D'An-FC)
- 5039.2 **PERU R Libertad** 2/5 1040 huaynos, Ids, TCs (D'An-FCDX) 2/5 1112 huayno, ID, msgs to listeners in Huanuco (TIN-JP)
- 5040 **SUMATRA RRI Pekanbaru** 2/4 2301 IS, talk, back to mx (Mont-PA) 2/4 2238 brief mx, SCI, ID, nx, poor (D'An-FCDX)
- 5047 **TOGO R Lome** 2/3 W in FR, mx (Line-KS) 1/30 2150 FR local mx, ID, anmts (Klin-NY)
- 5050 **TANZANIA R Tanzania** 1/1 0238 SH anmts, mx, ID (Klin-NY)
- 5055 **COSTA RICA Faro del Caribe** 2/2 0710 SP cmtry (Tres-PA)
- 5070 **USA WWCR** 2/4 0620 EG rel pgm (Tres-PA)
- 5130.9 **PERU R Uno** 2/5 1157 NA, canned ID, Despertar Andino. Tnx Arrunategui & Yamada (TIN-JP)
- 5339.7 **PERU Ondas del Pacifico** 2/6 1120 Quechua rel pgm, hymn (TIN-JP)
- 5460.3 **PERU R Sudimar** 2/5 1106 huaynos, OM talk (TIN-JP)
- 5522.2 **PERU R Sudamerica** 1/13 1122 local mx, anmts, IDs (Klin-NY)
- 5678 **PERU R Ilucan** 2/6 1146 Canto a Cutervo pgm, greeting to Ondas del Rio Mayo (TIN-JP) 1/22 1056 mx, anmts, ID (Klin-NY)
- 5745 **USA WHRI** 1/12 1005 EG nx, cmtry (Levi-PA)
- 5788.5 **PIRATE R Ozone Intl** 2/6 0823* rock, ID, ment "smash hits." (D'An-FCDX)
- 5805 **PIRATE R Free London** 2/6 0114 rock, Ids, jingles (D'An-FCDX)
- 5810 **USA WYFR** 2/9 2255 EG rel pgm, ID to 2300* (Fair-VEN)
- 5858.1 **PERU R Nueva Cajamarca** 2/5 1118 carnavalito cajaraquino (TIN)



Contributors' Page (continued) by Fred Kohlbrenner

Member George Glotzbach is looking to contact other NASWA members living in the New Mexico area. If you are interested in contacting George send your name and address to me and I'll forward them on to George.

Finally, I look forward to seeing many of our contributors at the Winter SWL Festival scheduled for March 10th-12th. Stop by the NASWA table and say hello.



International Band Loggings

Wallace C. Treibel • 357 N.E. 149th Street • Seattle, WA 98155 • nwhikers@gte.net

- 5955 **COLOMBIA Caracol Villavicencio** in SP 0940, LA mx, ID 0947, g (Kohlbrenner FCDX-PA 2/6)
- 5975 **ITALY RAI Int Rome** in EG 0425, IS, ID, nx, under BBC Antigua relay (Brandi NJ 1/22)
- 5975 **ZIMBABWE ZBCS** in Shona 1625, lively recorded mx, ID, QTH, BBC QRM, p (Witham HI 1/16)
- 5985 **TANZANIA RT Dar es Salaam** in SH 1650, Afro mx, tlks, drums, Tanzania ID, p (Witham HI 1/6)
- 5985 **CONGO RTV Congolaise Brazzaville** in FR/SP 2050-2137, Hi-life mx, ID's in FR & SP, nx in SP, resumption of FR pgming at 2114 with a drama or play (Maroti NY 1/3)
- 5990 **CUBA China R Int** relay in EG 2330, story of Chow, Ting dynasty reformer, g (Newbury NE 1/7)
- 5990mf **ETHIOPIA R Ethiopia** in Tigrinya(p) 0326, uptempo vcl with Macarena beat, sig weak and splattered, also faintly audible on //7110 way under RFE/RL in Arabic (Hill MA 2/4)
- 6005 **GERMANY Deut R Berlin** in GM 0730, pips, ID, nx, class & jazz mx, QRM (Sgrulletta NY 1/26)
- 6010 **ITALY RAI Rome** in EG 0055, visit by Cubans to attain closer ties with Italy, g (Fraser MA 1/19)
- 6010 **MEXICO R Mil Mexico City** in SP 0952, L Am vcls, jingles, ID's, QTH (Kohlbrenner FCDX-PA 2/6)
- 60248 **MALAYSIA Radio 5 Kajang** on past listed 1600 s/off in ML 1650-1659*, NA, p (Treibel WA 2/9)
- 6030 **CANADA CFVP Calgary** relay of MW in EG 1430, tlk re growth hormones, f (Newbury NE 1/9)
- 60454 **PERU R Santa Rosa Lima** in SP 0911, dull tlk by 2 YL's but many ID's, f (D'Angelo FCDX-PA 2/6)
- 6045 **GERMANY D Welle Wertachtel** in EG 0300, nx, sports, unemployment concerns, f (Newbury 1/9)
- 6075 **ANTIGUA D Welle** relay in GM *0300, IS, ID, national nx, ment of Chechnya, g (McGuire MD 1/10)
- 6085 **GERMANY Bayerischer Rundfunk** in GM 0515, nx from Wiesbaden, political tlk (Paszkiwicz 1/17) in GM 0229, nx, cmntry, occasional "MDR-Info", 3 pips at 0300 (Sgrulletta NY 1/25)
- 6090 **CHILE R Esperanza Temuco** in SP 0902, relig mx, ID, QRM from R Bandeirantes, f (Slaen ARG 2/3)
- 6105 **NEW ZEALAND RNZI** in EG 1316, classical mx, fqy used only occasionally (Brandi NJ 1/24)
- 6105 **COSTA RICA R Universidad San Jose** in SP 0442, Beethoven's Pastoral Symphony (Newbury 1/26)
- 6110 **ASCENSION ISLAND BBC** relay in SP 0000, Big Ben, ID, "The World Today" (McGuire MD 1/19)
- 6120 **GERMANY R Vilnius** relay Jülich in EG 0030, Lithuania hit by widespread flu, g (Pasquale PA 1/24)
- 6130 **CANADA CHNX Halifax** relay of MW in EG 0505, ID, oldies recordings (Paszkiwicz WI 1/31) in EG 2240, "Good Time Oldies" format, ad for trip to Dominican Republic (Newman IN 1/9)
- 6135 **TURKEY V of Turkey Ankara** in EG 2315, editorials re TK in the foreign media, g (Fraser MA 1/12)
- 6165 **CHAD RN Tchadienne** in FR 2204*, vocals, tlks, closed w/orch NA, f (D'Angelo FCDX-PA 2/4)
- 6165 **VIETNAM Dia Tieng Noi** in Hmong 1207, local mx, ancmt, //50349 (Brandi NJ 1/25) Tnx to J Novello.
- 6170 **BRAZIL R Cultura São Paulo** in PT 0835, variety pgm "Raices do Brasil", mail (Slaen ARGEN 2/3)
- 6175 **IRAN VOIRI Sirjan** in Urdu 1715, Mideast mx, ment Iran, abruptly off 1725, p (Witham HI 1/20)
- 6265 **ZAMBIA ZNBC** in Vern/EG *0246, Call of the Fisheagle IS, choral vocal mx opening, drums, ID in EG "This is Radio 2", inspirational tlk in lang, f-g (D'Angelo FCDX-PA 2/4, Capobianco NY 1/6)
- 64797 **PERU R Altura Huarmaca** in SP 1130, feature w/huaynos, ID, weak signal (Nozaki JAPAN 1/14)
- 6522 **PERU Ondas del Rio Maranon** in SP 1118, huaynos, chichas, pasillos, ID, f-p (Nozaki JAPAN 2/6)
- 65358 **PERU R Dif Huancabamba** in SP 1130, OM tlks, huaynos, ID, p (Nozaki JAPAN 1/22)
- 7115 **MOROCCO R Liberty** relay in Serbo-Croat 2300, IS, ID "R Svoboda", g (McGuire MD 1/23)
- 7120usb **ITALY Radio 510 Int1** via IRRS Milan in EG 0206-0300*, ID's, usual pop mx, QRM from VOR on 7125, f (Maroti NY 1/15) in EG 0755, relig pgm, ID, fair signal but in the clear (Alexander PA 1/22)

- 7195 **ROMANIA RRI** Bucharest in EG 2300, IS, ID, pgm sked, political nx, g (McGuire MD 1/19)
- 7210nf **ALBANIA R Tirana** in FR 1655, YL ment Kosovo & Pakistan, no ID, //9520 (Witham HI 1/20)
- 72103nf **BENIN R Dif du Benin** Cotonou in FR 2313, hyper DJ hosting call-in show, bridge hi-life vocals, sign off abruptly in mid-sentence 2334 (Hill MA 2/5) in FR 2205, tlk, hlilife mx, ID's, f-g (D'Angelo 2/3)
- 7230 **ITALY AWR Europe** Forli in EG 0958*, DX pgm, tlk, ID 0958 and s/off, f (Serra ITALY 2/6)
- 7285 **GERMANY Croatian R** relay Jülich in EG 0405, rpt on Croatian parliament, EU union (McGuire 1/20)
- 7295 **MALAYSIA RTM** Kuala Lumpur in EG 1123, speech re Islam, cmntry, ID, mx reqs, f (D'Angelo 2/6)
- 7300nf **IRAN VOIRI** Sirjan in RS 1745, YL w/ments Iran and Republic of Iran, mx, //7205, p (Witham 1/18)
- 7305 **VATICAN STATE VR** in EG 0250, ID, Pope's denouncement of terrorism in Spain (McGuire 1/25)
- 7440 **RUSSIA V of Vietnam** relay Moscow in EG 1805, nx, ID, local mx, feature, f/p (Serra ITALY 2/6)
- 7475nf **ISRAEL Kol Israel** Tel Aviv in EG 0511, nx, //9435 (Paszkievicz WI 1/17) ED: Daily 15 min xmsn.
- 7545 **BULGARIA R Bulgaria** Sofia in FR 1820, dance mx, YL tlk, vocals, //7535, p (Witham HI 1/9)
- 7550 **SOUTH KOREA R Korea Int** in KR 1730, dialogue, musical ID, into AR 1900, //5975 (Witham 1/22)
- 7935nf **CHINA CNR-1** Beijing in Mandarin 1640, ID's, pop mx & songs, ancmts, f-g (Serra ITALY 1/31)
- 9335 **NORTH KOREA R Pyongyang** in SP 2113, ID, anti-USA tlk, songs, //7505, 6575 (Serra ITALY 2/6)
- 9400 **BULGARIA R Bulgaria** Sofia in EG 0000, rpt on Bulgarian Jews living in Israel (Pasquale PA 1/19)
- 94051 **PHILIPPINES FEBC** Iba Internal Svce in Mandarin 1245, not // to 94148 but similar prgmg, 100 kw xmsn listed 0900-1600 daily to C Asia, poor sig under RTTY (Treibel WA 2/14)
- 94148nf **PHILIPPINES FEBC** Bocaue Internal Svce in Mandarin 1240, mostly tlk, some choral singing, 50 kw xmsn listed 1230-1600 daily to C Asia, fair signal (Treibel WA 2/14)
- 9435 **ISRAEL Kol Israel** in EG 0500, Syria-Israel peace tlks, referendum on issue, f (Newbury NE 1/11)
- 9440 **SLOVAKIA R Slovakia Int** in EG 0110, pgm on national parks, film festival, //5930 (Newman IN 1/23)
- 94898 **GEORGIA Abkhazia R** Sukhumi in Abkhaz/RS 0650, IS, mx, different IS, possible ID, not clear if these different IS'es belong to Abkhaz R or also to R Rosii which they relay (Brandi NJ 1/23)
- 9495 **SWEDEN R Sweden** in EG 0250, ID, organization to help people w/Internet concerns (Newbury 1/28)
- 9500 **SWAZILAND TWR Africa** in EG 1755, sermon, relig song, ancmts, QTH, nx?, p (Serra ITALY 2/6)
- 9505 **BRAZIL R Record** São Paulo in PT 0828, canned ID, Saturday entertainment show (Nozaki JP 2/5)
- 9525 **POLAND R Polonia** Warsaw in EG 2020, political tlk, ID (Klinck NY 1/8)
- 9540 **VENEZUELA R Nacional** Caracas in SP 1356, ancmts, ID, fqy, Latin jazz/pops (Fair VENEZ 2/12)
- 9558 **ETHIOPIA V of Peace** Gedja in Somali 1925-2000*, YL tlk, Mideast mx, p (Witham HI 1/22)
- 9565 **BRAZIL R Tupi** Curitiba in PT 0832, regular relig pgm "La Voz da Liberacio", f (Nozaki JAPAN 2/5)
- 9570 **CUBA China R Int** relay in EG 0102, ID, nx, rpt on CH cities, cultural nx, g (McGuire MD 1/10)
- 9580 **GABON Africa #1** in FR 0502, nx, TC (Paszkievicz WI 1/17) in FR 2100, cmntry (Trescher PA 2/3)
- 9590 **SINGAPORE RSI** in EG 1120, "Reflections", "Snapshot" pgm with dialog on CH millenium dragons, ID, TC, nx at 1130, f (Kohlbrener FCDX-PA 2/6)
- 96301 **BRAZIL R Aparecida** in PT 0840, playing nice musica sertaneja, f (Nozaki JAPAN 2/5)
- 9645 **SRI LANKA VOA** relay in EG 1755, rpt on Kosovo, ID, web QTH, hrd over CRI, f (Witham HI 1/22)
- 9665 **CZECH REPUBLIC R Prague** in EG 0101, nx, rpt on prisons, ID, "Czechs in History (McGuire 1/20)
- 9675 **ITALY RAI Rome** in IT 2310, two OM's in interview pgm, //6010, 11880, f (Newbury NE 1/11)
- 9675 **PHILIPPINES R Veritas Asia** in EG/HD 1327, IS, ID, fqy, blocked by RAI IS 1331 (Serra ITALY 2/3)
- 9690 **GERMANY D Welle** Wertachtel in EG 2120, IS, pgm on GM photography, g (McGuire MD 1/23)
- 9705 **MEXICO R Mexico Int** in EG 2303, tlk w/US mx prof studying marimba in Mexico (Brouillette 1/22)

- 9715 **UZBEKISTAN R Tashkent** in HD 1328, IS, ID in EG, into nx pgm (Brandi NJ 2/3)
- 9735 **OMAN R Oman** in AR 2020-2133, nx, many ments of Oman, mx, tlks, exc (Capobianco NY 1/1)
- 97798v **YEMEN Rep of Yemen R Sana'a** in AR 2200, AR mx, tlk by YL, ID?, recognized NA at 2210* (Brandi NJ 1/15) in AR 0504, pop AR vocals (Paszkievicz WI 1/17)
- 9840 **HUNGARY R Budapest** in HG 2158*, mostly nat'l nx, speech by Pope John Paul, ID (McGuire 1/23)
- 9870 **SAUDI ARABIA BSKSA** Riyadh in AR 2100, long tlk, ID's, some AR mx, exc (Raymond NH 2/8)
- 9870 **MONACO TWR Europe** in EG 0900, relig pgm re abortion, //12070 (Albania), g (Alexander PA 1/16)
- 9900 **EGYPT R Cairo** in EG 2358, surfing championship set for Egyptian Red Sea resort (Pasquale PA 1/8)
- 9950 **EGYPT R Cairo** in AL 1650, mostly tlk/nx, chants, ID "R Kahira", fqys at 1759* (Treibel WA 2/12)
- 9988 **EGYPT R Cairo** in IT 1815, nx, ID, political cmntry re war in Chechnya, feature (Serra ITALY 2/6)
- 11402 **ICELAND Ríkisutvarpid** Reykjavik in IC 2305, nx, brief mx, //9273, f (Kohlbrener FCDX-PA 2/4)
- 11515 **LEBANON V of Hope** in AR 0738, relig songs, tlks, ID?, trumpets, ID in EG 0800 (Serra ITALY 2/6)
- 11550 **TAIWAN R Taipei Int** with relay of *Rdif Portuguesa* in PT/Tetum 2204-2252, Brazilian-like mx, many rpts on East Timor situation, f-g (Brouillette IL 12/12)
- 11585 **ISRAEL Kol Israel** Tel Aviv in HB 0250, mx, phone tlk, ads, ID?, p, //9385 (Witham HI 1/18)
- 11600 **SEYCHELLES FEBA** in Farsi 0305, ethnic mx, gospel songs, IS "Friend in Jesus" (Newbury NE 1/27)
- 11605 **ISRAEL Kol Israel** Tel Aviv in EG 2010, Israel military corps to be reorganized, g (Fraser MA 1/18)
- 11615 **FRANCE RFI** Issoudon in EG *1600, African tour, ID, Syria/Israel peace tlks, //11995 (Newbury 1/11)
- 11655 **QATAR QBCS** Al-Dona in AR 1913, AR mx, fone tlk, ID "Huna Qatar, Al-Dona" (Capobianco NY)
- 11665 **FINLAND YLE Radio Finland** in EG 0305, regional nx, financial rpt, wx fcst, ID, cultural nx, fqys, sked, mx, s/off 0330 (McGuire MD 1/20, Witham HI 1/12)
- 11715 **INDIA AIR Panaji** Goa in EG 2145, nx, cmntry on Pakistan, lcl mx ID's (Klinck NY, Newbury NE)
- 11734v **BRAZIL R Trans Mundial** via xmtr of R Nova Visao in PT 0703, relig pgm, QTH (Nozaki JP 2/6)
- 11734 **TANZANIA RT Zanzibar** in SH 1901, nx in lang, ID's, African mx, f (Raymond NH 1/30)
- 11735 **INDIA AIR** Bangalore in Pashto 0228, nx, clear ID, exotic mx, g but fluttery (Brouillette IL 2/2)
- 11740 **IRAN VOIRI** Teheran in EG 2135, nx re terrorist attacks on Iran!! (Newman IN 1/9)
- 11750 **ALGERIA RTV Algérienne** in EG/FR 2000, nx in EG, mixed mx, DJ in FR (Klinck NY 1/30)
- 11800 **ITALY RAI Rome** in EG 0055, rpt on the death of Bettino Craxi, g (Pasquale PA 1/19)
- 118048 **BRAZIL R Globo** in PT 0803, nx "Jornal da R Globo", into entertainment pgmg, f (Nozaki JP 1/22)
- 118149 **BRAZIL R Brasil Central** Goiânia in PT 0430, full ID, pop mx, ads (Newman IN 1/9, Nozaki JP 2/6)
- 11830 **BRAZIL Radio CBN Anhanguera** Goiânia in PT 0805, "Noticias da CBN", ID (Nozaki JAPAN 2/6)
- 118703 **COSTA RICA University Network** in EG 1408, Dr Gene Scott's banter, //13750 (Alexander PA 1/29)
- 11890 **PHILIPPINES R Pilipinas** in Filipino 1733, tlk, mx, jingle, abrupt off 1738, //15190 (Serra ITALY 2/6)
- 11890 **SRI LANKA R Japan** relay in Bengali 0200, nx, ID, weak but audible (Findlater CA 1/28)
- 11895 **INDIA AIR** Delhi in Pashtu 0225-0300*, HD mx, ID garbled except for "...India", g (Witham HI 1/22)
- 11915 **BRAZIL R Gaucha** Porto Alegre in PT 2128, sports pgm with results, f (Kohlbrener FCDX-PA 2/4)
- 11920nf **NORTHERN MARIANAS VOA** relay Saipan in EG *1300, ID, nx bulletin, cmntry on Mideast peace tlks, Austria's new govt, "News Now" w/rpts on Indonesian conflict, sports feature, f (Moats OH 2/3)
- 11925 **BRAZIL R Bandeirantes** São Paulo in PT 0300, ezl ballads, US pops, ads, many ID's (Newman 1/24)
- 11935 **UNITED KINGDOM R Canada Int** relay in Ukranian 1710, tlk, mx, p, //13650 (Witham HI 1/16)
- 119404 **CAMBODIA Nat'l Voice of Cambodia** in VT 0100-0113*, mixed lcl & Western mx (Klinck NY 1/10)
- 119548 **ANGOLA R Nacional** Luanda in PT 1919, nx, current affairs pgm, ID's 1919 and 1930, great signal until massive splash from 11950 at 1926 (Brandi NJ 1/14) Thanks to Mark Veldhuis for tip

- 11960 **CHINA CNR-1** Beijing in Mandarin 0245, YL in long tlc, ID 0300, into nx, p (Brouillette IL 1/12)
- 11965 **RWANDA Deut Welle** relay Kigali in EG 0359, IS, ID, "Newslink", f-p, //9565, 9765 (Moats OH 2/4)
- 11965 **SRI LANKA Deut Welle** relay in EG 0245*, "Living in Germany" feature, f (Brouillette IL 1/12)
- 11980 **UNITED KINGDOM R Canada** relay in EG 1430, pop song, nx, wx rpt, sports, g, //17820 (Serra 2/3)
- 12015 **ECUADOR HCJB** Quito in EG 0120, "DX Party Line", tlc on SWL and gear, exc (Levison PA 1/9)
- 120195 **VIETNAM Voice of Vietnam** Hanoi in Thai 1500, nx, cmntry by YL, f (Klinck NY 1/22)
- 12020 **RUSSIA V of Russia** relay Petropavlovsk in EG 0335, "Kaleidoscope" a rpt on Russia's future, ID, g (Witham HI 1/3) in EG 0425, "Russian Personalities", "Audio Book Club", //7125 (Newbury NE 1/10)
- 13600 **GERMANY R Vlaanderen Int** relay Jülich in EG 1830, mx of the 1600's, ID, //17695 (Witham 1/22)
- 13630 **IRAN VOIRI** Sirjan in SH 0330, mx, ID, prayers, fqy sked, nx, //15125, 15595 (Witham HI 1/12)
- 13640 **CANADA RTE Ireland** relay Sackville in EG 1840, sports, nx, Mercedes ad, f, //21630 (Witham 1/16)
- 13670 **NETHERLAND ANTILLES R Vlaanderen** relay in EG 2135, "Press Review", rpt on flu epidemic in Belgium, p (Witham HI 1/12)
- 13695 **THAILAND Thailand NBS** Udorn Thani in EG 0046, world/regional nx, ID, golf tournament results, reception muffled and muddy but cleared up during pgm (Costello NJ 1/31, Levison PA 1/10)
- 13710 **BOTSWANA VOA** relay in EG 1953, promo, jazz, "Africa World Tonight", fqy, //15580 (Moats 1/26)
- 13730 **AUSTRIA RAI** Vienna in EG 1330, political nx, few Austrians have flu shots, f (Newbury NE 1/12)
- 13820 **GERMANY Croatian R** relay Jülich in CR 0905, lcl nx & pops, tlc, no EG, f-g (Serra ITALY 2/2)
- 15020 **INDIA AIR** Delhi in Sinhala 1500*, just caught the end of the xmsn to S Asia, g (Sgrulletta NY 1/16)
- 15049 **COSTA RICA RFPI** in EG 0254, "Radio Nation" on econ rights, health care, & child labor, web site, fqy, "World of Radio" 0312, sked update, //6975, f-p (Moats OH 2/3)
- 151848 **EQUATORIAL GUINEA R Africa** in EG 2250-2303*, relig pgm from Washington DC, ID, several worldwide QTH's, NA, g (Alexander PA 1/29) in EG 1800, relig pgm, ID (Klinck NY 1/23)
- 15190 **PHILIPPINES R Pilipinas** in Filipino/EG 1902-1930*, tlc by OM, short group vcls, ID, fqy ancmts, also ID in EG, gave sked for 0230-0330 on 1885, 15120, and 15270, f (D'Angelo PA 2/4)
- 15200 **GUAM KTWB** Agana in EG 0746, ancmts, relig sermon, prayers, QTH, ID, p (Serra ITALY 2/2)
- 15255nf **UNITED ARAB EMIRATES Abu Dhabi** in AR 1550, tlcs and AR songs w/musical accompaniment, relay of Home Service scheduled 1000-1800, pips 1600, presumed ID (Treibel WA 2/11)
- 15265nf **SRI LANKA VOA** relay Irana Wila in Bengali 1650, all tlc, ID in EG 1659*, f (Treibel WA 2/5)
- 15275 **SRI LANKA Deut Welle** relay Trincomalee in GM 1900, ID, IS, nx, weak but clear (Findlater CA 2/3)
- 15315 **UNITED KINGDOM RTE Ireland** relay in EG 1810, rpt on riot in cabinet meeting, ID, p (Witham HI)
- 15325 **CANADA RCI** Sackville in RS/UK, tlcs, IS, ID, into UK 1900, //11915 (Witham HI, McGuire MD)
- 15400 **ASCENSION ISLAND BBC** relay in EG 2000, ID, pips, rpt on GM scandal, g (McGuire MD 1/23)
- 15405 **ROMANIA RRI** Bucharest in IT 1359, IS, classical mx, ID's, lcl nx, econ cmntry (Serra ITALY 2/3)
- 15435 **LIBYA R Jamahiriya Voice of Africa** in AR 2000, nx(p), ment Clinton, Mubarak, Benghazi, f signal (Findlater CA 2/3) in EG 2030, OPEC ministers happy with production quotas & prices (Pasquale 1/22)
- 15820 lsb **ARGENTINA Buenos Aires feeder** for AM 910 in SP 1428, xmsn of first grand prix of Top Race competition cars from Mar del Plata, ads, f-g (Slaen ARGENTINA 2/6)
- 17510 **HAWAII KWHR** Naalehu in Mandarin 2110, long tlc, weak sig w/echo (Brouillette IL 1/8) in VT 2344 w/relay of Que Huang R, tlc, VT vcls, string mx, off 2359 in mid-song, f (D'Angelo FCDX-PA 2/3) in EG 0025, DX pgm, full ID, into "Call to Worship" pgm (Newman IN 1/23)
- 17515 **VATICAN STATE VR** in PT 1805, speech by the Pope/analysis of speech, //15570, f-g (Witham 1/19)

- 17560 **SRI LANKA** *Deut Welle* relay Trincomalee in EG 2110, Asian svce, "Feature of the Month" jointly produced by the V of Vietnam & Deut Welle, p (Witham HI 1/112)
- 17565 **USA** *Voice of Greece* relay Greenville, NC in EG/SP 1810; Greek history, into SP 1815, g, //17705 from Delano, CA w/armchair copy (Newbury NE 1/26)
- 17605 **NETHERLAND ANTILLES** *R Nederland* relay Bonaire in EG 1925, "Dutch Press Review", fqy, pips, ID, nx bulletin, story on holocaust conf, "News Line", f, //13700, 11655 (Moats OH 1/26) in EG 2015 "Media Network", cmntry on new miniature DVD's to view movies on TV screens (Fraser MA 1/13)
- 17630 **FRENCH GUIANA** *R France Int* relay in SP 2113, tlk on Arts & lcl exhibits, exc (Brouillette IL 1/8)
- 17690nf **NEW ZEALAND** *RNZI* in EG 0645, "Sunday Supplement" rpt abt the economy & benefits to the Maori, exc (Witham HI 1/15) in EG 0811, interview abt public bcstrs, TC, ID, p-f (Serra ITALY 2/2)
- 17760 **UNITED ARAB EMIRATES** *Abu Dhabi* in AR 2140, orch AR mx, crowd noises (Brouillette IL 1/8)
- 17820 **PHILIPPINES** *VOA* relay Tinang in EG 2357, tlk abt indigenous people & Mars Polar Lander, fqy, TC ID, pgm preview, nx bulleti ns, rpts on African AIDS crisis, f (Moats OH 1/26)
- 17835 **GUAM** *KSDA* Agat in Cantonese *2300-0055*, relig tlk, hymns, f (Findlater CA 1/30)
- 17835 **JAPAN** *R Japan NHK* Tokyo in EG *0100, ID, into JP 0200, nx, book review, g (Findlater CA 1/28)
- 17880 **GUAM** *Adv World Radio—the V of Hope* in Mandarin *2300-0155*, relig tlk, hymns (Findlater 1/28)
- 18950 **NORWAY** *RNI* in NO 1305, xmsn to WCNA, OM w/nx, tlks, ID, f (Newbury NE 1/12)
- 18960 **SWEDEN** *R Sweden* Horby in EG 1250, SW pops, C&W, and rap mx, ID, f (Newbury NE 1/25) in EG 1433, cmntry on Swedish & Russian joint naval exercises, g (Fraser MA 1/17)
- 21455usb **ECUADOR** *HCBJ* Quito in EG 1935, "Ham Radio Today" - new FCC rules, f (Fraser MA 1/12)
- 21550 **CHILE** *Voz Cristiana* in SP 1410, contemp SP Christian mx, ID, exc, //176801 (Aalexander PA 1/29)
- 21580 **FRANCE** *RFI* in FR 1400, FR mx, cmntry, ID 1400, fqys, g (Fair VENEZUELA 2/13)
- 21610 **SPAIN** *REE* Noblejas in SP 1410, nx, cmntry on arms sales, g (Fair VENEZUELA 2/13)
- 21655 **PORTUGAL** *RDPI* in PT 1415, PT pop mx, ID 1423, g (Fair VENEZUELA 2/13)
- 21700 **GABON** *R Japan* relay in IT 1028, IS, ID, ancmt, into lcl nx, QRM, f-p (Serra ITALY2/6)
- 21700 **SPAIN** *REE* Noblejas in SP 1428, nx rre alliance between UNICEF & soccer, exc (Fair VENEZ 2/13)
- 21735 **UNITED ARAB EMIRATES** *Abu Dhabi* in AR 0305, ME mx, phone tlk, f, //11770 (Witham HI 1/22)
- 21740 **AUSTRALIA** *RA* in EG *2059, IS, ID, nx, tennis rpt, cmntry (Moats OH 1/26, Levison PA 1/10)
- 21800 **PORTUGAL** *RDPI* Lisbon in PT 1645, rock and roll live concert rx, ID 1651 (Brandi NJ 2/5)
- 21810 **SWEDEN** *R Sweden* Horby in EG *1230, ID, fqy, sked, "Sixty Degrees North", g (McGuire MD 1/14)

Clandestine, Tentatives, Presumed, or Unknown

- 59859 **MYANMAR** *R Myanmar*(t) in Burmese 1215, Asian mx, tlk by YL, no ID hrd (Brandi NJ 2/25)
- 6261 **COLOMBIA** *LV de la Resistencia* in SP 2224*, tlk, L Am mx, vocal anthem, p w/rtty QRM and weak stn in SP underneath (Alexander PA 1/25) in SP *1132, NA, ID's, into nx, f (D'Angelo FCDX-PA 2/5)
- 68954 **PERU** *R San Miguel del Faique*(t) in SP 0053, OA vcls, ID?, vp w/UTE problems and a constant growl in the background (D'Angelo FCDX-PA 2/5) ED: Only SP stn listed on 6895 (only 100 watts xmtr!)
- 7520nf **TAJIKISTAN** *R Antena Nac* Dushanbe in Persian 1735, tlk, ID's, off suddenly 1800, f (Witham 1/18)
- 95173nf **ERITREA** *V of Sudan* in AR *0359, anthem, tlk, lcl mx, p, better on // 80007 (Alexander PA 1/30)
- 95685 **SAUDI ARABIA** *VO Iraqi People* Jeddah in AR 2324, AR mx, tlks, g with some QRM (Fine VA 2/7)
- 9900 **CENTRAL AFRICAN REPUBLIC** *R Minurca*(t) in FR 1920, discussion, Afro mx (Klünck NY 1/8)
- 11635 **RUSSIA** *R Free Checknya* via St Petersburg in RS 0705, tlk, dance & jazz mx, p //9470 (Witham 1/15)
- 21735 **UNIDENTIFIED** ID in lang(?) 0305, Hawaiian song in lang, tlk, YL w/rx mx, hrd over UAE but gradually sinking under it, f (Witham HI 1/22) ED: Only UAE is listed on updated ILGradio database)

**WORLD OF RADIO AND CONTINENT OF MEDIA
SHORTWAVE-ONLY SCHEDULE AS OF JANUARY 28, 2000**

You are cordially invited to listen to our weekly program **WORLD OF RADIO**, primarily but not exclusively about shortwave; and our monthly **CONTINENT OF MEDIA**, covering primarily non-SW media in the Americas. We have some new times on **WWCR**, and the **WBCQ** time has shifted. **RFPI** may revise its frequency schedule Feb 1.

Days and times strictly UT

Wed 1730 COM RFPI 25930-USB
Wed 2230 WOR WBCQ 7415 [ex-2200]
Thu 0930 COM RFPI 6975
Thu 2130 WOR WWCR 9475 [March: 15685]
Fri 1030 WOR WWCR 7435 [NEW from Jan 21]
Fri 1900 COM RFPI 25930-USB
Fri 1930 WOR RFPI 25930-USB
Sat 0300 COM RFPI 15049 6975
Sat 0330 WOR RFPI 15049 6975
Sat 0400 WOR WWCR 3215 [NEW from Jan 29]
Sat 1100 COM RFPI 6975
Sat 1130 WOR RFPI 6975
Sat 1230 WOR WWCR 15685
Sat 1730 COM RFPI 25930-USB
Sat 1800 WOR RFPI 25930-USB
Sat 2030 WOR WWCR 12160
Sun 0130 COM RFPI 25930-USB 15049 6975
Sun 0200 WOR RFPI 25930-USB 15049 6975
Sun 0330 WOR WWCR 5070
Sun 0730 WOR WWCR 5070
Sun 0930 COM RFPI 6975
Sun 1000 WOR RFPI 6975
Sun 2300 WOR RFPI 25930-USB 15049 6975
Mon 0131 WOR WWCR 3215
Mon 0601 WOR WWCR 3210
Mon 0700 WOR RFPI 6975
Mon 1500 WOR RFPI 25930-USB [repeat default]
Tue 1200 WOR WWCR 15685 [ex-1330 from Jan 25]
Tue 1900 WOR RFPI 25930-USB
Tue 2000 COM RFPI 25930-USB
Wed 0300 WOR RFPI 15049 6975
Wed 0400 COM RFPI 15049 6975
Wed 1100 WOR RFPI 6975
Wed 1200 COM RFPI 25930-USB 6975

FOR SALE: Radio Stuff Sale! Radio hobby and related books, station pamphlets and memorabilia, magazines, WRTHs and much more. Sent a two-stamp SASE or \$1.00 for the ten-page list. Gerry Dexter, 213 Forest Street, Lake Geneva, WI 53147.

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WANTED: Speaker enclosure with or without speaker for National NC46 SW receiver. I will pay cash or I have receivers to trade. Tom Mooningham, N3LWJ, P.O. Box 487, Maugansville, MD 21767-0487. E-mail <Lunarpig@aol.com>.

FOR SALE: Individual equipment racks made for holding one R-390A or one R-391. These racks are made out of welded painted steel and can be placed on a desk. The price is \$110.00 which includes shipping. Call John W. Davis at (740) 967-6420 for further information. No collect calls and money orders only, please.

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