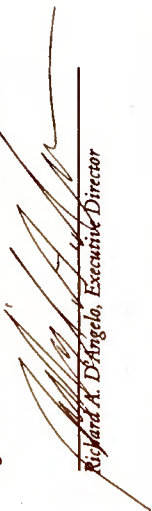


The North American Shortwave Association
2002 William P. Eddings Award
Member of the Year

Ed Mauger

*Presented this 9th day of March, 2002
at Kulpsville, Pennsylvania on the occasion
of the 15th Winter SWL Fest.*



Richard A. DeAngelo, Executive Director

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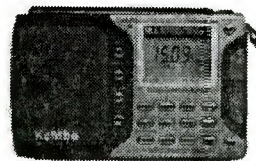
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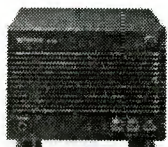


The Kchibo KK-E200 digital radio tunes AM from 520 to 1620 kHz (in 9 or 10 kHz steps). FM reception is from 87.5-108 MHz (stereo to earphone jack). Shortwave reception is from 2.3-7.3 and 9.5-26.5 MHz. Thirteen individual shortwave bands are selectable via the Meter Band function. The backlit LCD lets you view the frequency when tuning at night. You can tune this radio four ways: Up/Down manual tuning (5 kHz steps on SW), automatic search tuning, direct keypad frequency entry and 24 memories. You can store 6 AM stations, 6 FM stations and 6 stations each on SW1 and SW2 bands. There is also a 24 hour digital clock with 10-90 minute sleep function and auto-tun off. The left side of the radio features a Local-DX sensitivity switch. The right side has a dial lock button. The radio works well with its telescopic antenna, but there is an external antenna jack. Requires three AA cells (not supplied) or 5 VDC 250 mA (center -). Only 6x3.5x1.25 inches 12 oz. (150x90x35mm 280 g). The Kchibo KK-E200 includes: AC wall adapter, wrist strap, vinyl carry case, stereo ear buds and wire type antenna. Ninety Day limited warranty.

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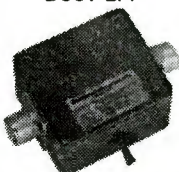


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The Par BCST-HPF is designed to help shortwave listeners cope with interference from AM stations. This 7 pole elliptic high pass filter passes 1.8 to 200 MHz and notches out 0-1.7 MHz. The housing has an SO-239 jack for input and output and also has a toggle type bypass switch.



BCST-HPF Order #4426 \$48.95

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NASWA Notes

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

Another good time was had by all at this year's NASWA sponsored Winter SWL Festival in beautiful Kulpsville, PA. As has become the custom over the years, the celebrations began early and ended late with about 200 hobbyists enjoying the weekend. Thanks to FESMEisters **Richard Cuff** and **John Figliozi** for another great show and a special thank you to all the volunteers that make this event work. It really is a special time. If you have never attended a Winter SWL Festival, now would be a good time to begin making your plans for the 7th and 8th of March 2003. It's only eleven months away so pencil it in on the calendar before something gets in your way later.

Congratulations to **Ed Mauger** who was selected by the Executive Council as the club's member of the year for 2002. At the Winter SWL Festival banquet, it was my pleasure to announce that Ed was the recipient of the 2002 *William P. Eddings Award* in recognition of all his "behind-the-scenes" contributions he has made to the betterment of the North American Shortwave Association. The selection of Ed Mauger by the Executive Council for this honor is well deserved.

Marie Lamb, representing the Association of North American Radio Clubs, announced the recipients of the 2002 *Don Jensen Distinguished Service Award* and special Certificates of Recognition at the Winter SWL Festival banquet. Our own **Ralph Brandi** was the recipient of the 2002 *Don Jensen Distinguished Service Award* for his talents in helping the hobby stay in pace with the information age and take advantage of the growth of the Internet. Ralph has been the backbone of both ANARC and NASWA, [and boy, is my back killing me, hi -RB] and has been giving unselfishly of his talents, knowledge and time. Congratulations are definitely in order... Way to go Ralph!

Also, ANARC presented a group *Certificate of Recognition* to the "Save the BBC Coalition" for their incredibly fast reaction to organize, and disseminate information regarding the British Broadcasting Corporation's decision to discontinue their Australasian and North American Services. On behalf of the coalition, that Brandi guy had to accept another award! Finally, ANARC presented a group *Certificate of Recognition* to the "RCI Action Committee" for over 10 years of tireless and ongoing efforts that have sought to restore full funding to Radio Canada International. Their efforts still continue today to help RCI, struggling to maintain its service, its integrity, meet its mandate, and to serve the shortwave listeners of the world as the voice of Canada abroad. **Sheldon Harvey** accepted the award on behalf of the committee.

The **Worldwide TV-FM DX Association** announced the release of the 2002 *WTFDA TV Station Guide*, which has proven to be a hit with both casual and hard-core television DXers and amateur radio hobbyists. The 2002 *Guide* contains over 400 pages of information such as location, call letters, radiated power, antenna height, direction, geographic co-ordinates, station status, programming source and a full array of useful maps. It was written and compiled by *WTFDA TV News* editor **Doug Smith**, W9WI. The price of the 2002 *WTFDA TV Station Guide* is \$23.00 for members of ANARC affiliated clubs; \$25.00 for all others. Please write the name of your club on your check or money order. All checks and money orders must be made payable to club treasurer **David Janowiak**. Send your check or money order to: **John Ebeling**, 9209 Vincent Avenue, South Bloomington, MN 55431-2157

Member **Bob Padula** of the *Electronic DX Press* informs us of the accessibility of issue number 13 of the A-02 print edition of the

OUR MOTTO IS - "UNITY AND FRIENDSHIP"


Australasian Shortwave Guide will be available for mailing worldwide by April 14. The guide contains over 1400 entries covering the summer (A-02) international shortwave transmission period commencing 31 March, and concluding on 26 October. It's 32 pages, in handy A5 format, and saddle stitched. It provides comprehensive information of English shortwave schedules to Australia, Asia, the Far East, the Indian sub-continent, and the Pacific and for broadcasts in all languages to Australia and the Pacific. The data is arranged in two sections, by studio country and starting time. Each entry shows broadcasting organization, frequency, starting time, finishing time, language, target area, transmitter site, transmitter country, studio country, and days of operation. The Guide will be mailed to Australian addresses for A\$10, which includes postage and packing. Airmail mailing, including postage and packing, to addresses outside of Australia is only US\$5.00. Payment can be by cash in any currency, Australian stamps, money order, postal order, check, or eight international reply coupons. Checks or orders must be in Australian currency and drawn on Australian banks, to yield ten Australian dollars. Checks in other currencies cannot be accepted. Orders and payment should be sent to Bob Padula, 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia.

Don't forget the **British DX Club** released a comprehensive country-by-country guide to domestic and external shortwave broadcasts from Africa, including opposition transmissions to the African continent. The guide

was compiled by **Tony Rogers** and can be obtained only through the club's website (<http://www.bdx.org.uk>). It is available in by country and by-frequency formats. It can be found under the Articles index page of the website. I have found the guide to be accurate and a valuable addition to a shortwave listeners reference source.

Remember, you can get the latest hot DX news and information from the club's electronic flash sheet newsletter edited by **Sheryl Paszkiewicz**, spaszkiwicz@yahoo.com (or P.O. Box 716 Manitowoc, WI 54221-0152 for non-electronic submissions). Each month more and more members sign up to participate. The electronic newsletter supplements the monthly *Journal* for the timely dissemination of DX loggings and breaking news. It is only available to members. Deadlines are posted in the *NASWA Flashsheet*. If you are a current member of the club and want to receive the electronic *NASWA Flashsheet* just drop Rich D'Angelo (rdangelo3@aol.com) a note with your e-mail address.

Bill Oliver has another new electronic address exclusively for club related business. Please don't forget that all communications for NASWA Headquarters should be directed to our Publisher/Business Manger Bill Oliver at the new electronic address, naswa@worldnet.att.net, or to the familiar 45 Wildflower Road, Levittown, PA 19057 address.

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

FRENDX: Twenty Five Years Ago....

John Moritz resigned as the mid-month *DX Hot Line* editor in a disagreement over the club's "Standards for Editors" document. Previous months saw Charlie Loudenboomer banished from the pages of *Frendx* while Glenn Hauser came close to resigning as *Listeners' Notebook* editor. In the *Shortwave Center*, James Inconato wrote about Frequency Interpolation for the DX-150, Forester Isen wrote about Useful Modifications to the R390 and R390A Receivers, and Ed Shaw wrote about Getting Reacquainted with the SX-190. In the *QSL Report*, Bill Oliver noted three veries from Benin and some rare South Americans. The club began a search for a replacement editor for the *DX Hot Line*. Distributing Editor Greg Ravenhorst reported 99 members contributed in April.

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.

Kenneth D. Sassadek <Scottie42@aol.com>

These are my thoughts on the letter from John Lyon in the February 2002 issue.

How can you possibly say that we are self-absorbed and insensitive to the rest of the world? When there is a disaster in the rest of the world, who is the first to give help and aid? THE U.S.A. We help the rest of the world even when they hate us and don't even say thanks. When we had our 9/11 disaster how many came to our aid? Not to many. Personally I think we are nuts for doing what we do when we have so much poverty and old people needing help and our Government does nothing but cut services to people who have lived here their whole lives and paid taxes to this country and now when they are old and need help our government says sorry we don't have the money. Of course they don't, they have given the tax dollars away to nations that don't even thank us. I don't mind helping people out but we should take care of our own people first and help others after our own. Maybe you don't need any help to live and that's fine, but there are plenty of seniors who have worked hard their whole lives and now need a little help from their government.

As for the rest of the world hating us because we are prosperous and live better than other parts of the world do whose fault is that theirs or ours? We give many countries millions of dollars in aid and a year later they are right back where they were before we gave them anything. You have to want to progress before you will progress. What would you have us to do, go back to living like they do so that they would not feel bad? Is it OK that because we are living better have worked hard for what we have and have things that they do not that it is OK for them to bomb us to get even because they have not progressed in their lives and living standards as this country has. It has taken a lot of sweat and hard work to get to where the USA is today. You should thank God that you live in this country and stop trying to run it down and make us responsible for the rest of the world.

Be thankful for what you have and where you live. Ken

[Thanks Ken for the lively "rebuttal" comments. As editor of Musings I will cut off further political debate on this subject as it has evolved well past the shortwave broadcast orientation of the club. It was my mistake to let John's original politically oriented comments, which was only a small portion of his overall musing about the BBC reducing its service, get printed in the first place. NASWA is about shortwave broadcast, not politics. We let others cover the political landscape. RAD]

Richard Duncan <rvideo@earthlink.net>

I have long been a ham radio operator involved in the dx cluster system. While my ham activity has subsided, I still enjoy working with the software.

If you are not familiar, the dx cluster network receives input from hams around the world when a station of interest is operating giving his callsign, frequency, etc. You can view my web version of this information at <http://sparkgap.net> among other items of interest.

I have long thought of providing this service designed for shortwave listening. They would be able to log on to the site, post and receive post of stations they have monitored or maybe are monitoring with information similar to your SWL database with updated screen every minute.

Please let me know if you believe the SWL community would be interested in this service.

Thanks, Richard WD5B {Member of the NASWA in 1969/1970}

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

Our club continues to play a prominent leadership role in many aspects of the hobby. The recent launching of the Flashsheet, edited by Sheryl Paszkiewicz, the recognition by ANARC of the work achieved by Ralph Brandi, the selection of a "behind-the-scenes" guy like Ed Mauger as member of the year, and the leadership provided by Rich Cuff and John Figliozzi (and before that Bob Brown, Harold Cones and Kris Field) help maintain the club as a key figure in the hobby community. I would like to extend my personal thanks to each these folks for their stellar contributions to the club and the hobby in general. NASWANS do make a difference!

The Winter SWL Festival was another good time for all those that could make it. Rich Cuff and John Figliozzi were excellent hosts and the endless crew of volunteers really makes this event a special time for all. I couldn't attend Friday's session but I did manage to make it to Kulpsville in time for an excellent pizza, salad and desert extravaganza for lunch. The luncheon speaker was Bob Zanotti who is retiring from Swiss Radio. The banquet and raffle were excellent. Kim Elliott was a great after dinner speaker. As usual, I was able to meet a number of new club members and, of course, old friends.

Rich and John have already begun the planning process for the 16th annual Winter SWL Festival with the selection of next year's dates, 7-8 March 2003. I hope to see many of you there once again.

73, Rich

Ralph Brandi <ralph@brandi.org>, P.O. Box 491, Lincroft, NJ 07738

I would just like to thank everyone who has offered their congratulations on my winning this year's Don Jensen Distinguished Service Award. I'm very aware of all the contributions Don has made to the hobby over the years, so I'm particularly honored to have been chosen. To the extent that the award was presented for the Save the BBC campaign, it really belongs to a number of people, not just me. At the core of that group, the people who took the message to the media, were Richard Cuff, John Figliozzi, and Sheldon Harvey. The four of us had a lot of fun talking to reporters and explaining why the BBC was making a mistake. We had two "media angels" who offered wise counsel, Kim Andrew Elliott and Andy Sennitt. Picking up the gauntlet in New Zealand were David Norrie and David Ricquish, who offered some backbone stiffening at critical moments. In the UK, Mike Barraclough provided an invaluable local perspective, as well as mobilizing UK-based SWLs who would be more likely to be listened to by vote-conscious MPs. Tom Sundstrom was invaluable in formulating strategy. Mark Meece and Alan Johnson were a couple of people who offered their help and participated in the conversations, and if they weren't as involved as they might have been, it was my fault for not taking advantage of their offers. The members of the *swprograms* list were what I half-jokingly refer to as the Revolutionary Vanguard of the whole campaign. And most of all, I appreciate the support of a lot of people I had never heard of and who didn't seem to be "hobbyists" who e-mailed me, commented on the web site, and let the BBC know what they thought. Together we accomplished more than I dreamed possible, except of course for the whole point of the exercise. I really believe this award belongs to everyone who fought the good fight.

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: RMonty3@worldnet.att.net.

Calendar Of Events

Apr 19 Meeting. Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcsckp@aol.com.

Apr 19 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 508-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>

May 3-5, 2002 Annual General Meeting. The Danish Shortwave Club International will hold its **Annual General Meeting and DX Camp** at the Scout Camp Vardeborg on the weekend of May 3-5, 2002. The possibilities for DXing are ideal in the sand dunes at the West coast of Jutland. Further details later on.

May 10 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 [<radioscan@siscom.net>](mailto:radioscan@siscom.net). For additional information about MONIX, check out their web site at [<http://www.siscom.net/~mmeece/monix.html>](http://www.siscom.net/~mmeece/monix.html)

Aug 16-18, 2002 Convention. The **European DX Council Conference** will be held from 16-18 August 2002 in the town of Pori, located on the west coast of Finland. Additional information about the conference will be made available through e-mail and newsgroups or can be obtained directly from Risto Hahakainu, chairman [<risto.vahakainu@helsinki.fi>](mailto:risto.vahakainu@helsinki.fi).

Oct '02 Radio Holiday Tour. David and Jocelyne Ricquish lead a **radio holiday tour of the great cities of Latin America** in October 2002. Plans include visits to many radio stations and meetings with local radio enthusiasts. The tour is designed for DXers, shortwave listeners and radio enthusiasts and all those that enjoy the music and culture of Latin America. The full itinerary and booking conditions can be found at the New Zealand Radio DX League website (<http://radiodx.com/spdxr/dxtour/htm>) or can be obtained from Latin American Radio Tour, P. O. Box 14339, Wellington, New Zealand (e-mail: ragusa@paradise.net.nz).

Mar 7-8, 2003 Convention. The **16th Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 7th and 8th March 2003. Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!

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).

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

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A Visit to Afghanistan

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Author: Martin Hadlow

It looked like it would be an impressive place to visit. At the front gate, two guards stood with their tripod-mounted machine gun placed strategically atop what looked to be a table. The weapon was wrapped in a long belt of live ammunition. Steel combat helmets sat on the table alongside the gun and the guards gave us a cheery salute as we entered the compound.

We were at the training centre of Radio-Television Afghanistan, a fine old building which had once been home to the first Radio Afghanistan station. Nestling in a back-lane in the old city of Kabul, just a stone's throw from the bustling money market and sellers of clothing and fruit, the building wears its age gracefully, albeit with countless scars of bullet holes dotted across its facade.

The Director and his team of trainers were on hand to greet us and provide a guided tour of the facility. Our party was there to view the complex prior to the arrival of a UNESCO-funded training group from the Asia-Pacific Institute for Broadcasting Development (AIBD) in Malaysia. The AIBD, an intergovernmental organization of which Afghanistan is a Member, has been contracted by UNESCO to put in place a phased series of training courses during the coming year and beyond. The initial course is due to start in February.

Our first stop was at the two training classrooms. Desks and chairs were in place. Blackboards too. In one room, where engineering training was previously held,

the desks were equipped with large steel boxes. These were feedback mechanisms where, no doubt, students could punch in the answers as training courses proceeded. The lecturer could monitor progress on a master control board. The equipment, apparently supplied from the former GDR, was impressively solid. The master control system, about the size of a small refrigerator, seemed to have more buttons, levers and lights than the navigation bridge on an aircraft carrier.

We next wound our way to the main studio complex. This, like the training rooms, was a little dusty inside and totally devoid of electricity. As we entered the large music studio, an impressive 40 square metres in size I was told, we stepped gingerly to avoid any potential hazards. The darkness was complete. A brave Engineer Yhya led the way, his plastic cigarette lighter coming in handy as we inched along the wall and peered ahead into the gloom. Was that really a drum kit and grand piano I saw in the flickering flame of the lighter? Fortunately, a torch soon appeared, its battery weak but certainly more potent than the cigarette lighter.

Yes, it really was a grand piano! And, nearby, stood an upright model. I couldn't resist the temptation to tickle the ivories. The strings were slightly out of tune, but after many years unused, hardly surprising. To one side of the room was a large drum-kit, dusty but complete. I can't say I'm musical, but I toddled the tom-toms anyway. The chance doesn't often occur. As our torch scanned the room, I saw ahead the broken shaft of an electric guitar leaning against the wall. The fretboard was there, but where was the rest of it? Perhaps the remnants of a concert by The Who?

As we left the studio, we passed beneath the antlers of a rather large deer nailed to the wall directly over the lintel. I haven't seen that before. Well, not in a music recording studio, anyway. Nearby was the rehearsal room. Its walls still told of sound-proofing and sopranos. Its concrete floor told of a repository for broken furniture. Next stop was the upstairs master-control studio, still equipped with Siemens consoles, a Revox tape-recorder and even a record turntable. But I doubt that it will ever turn again. And I feel sure that the Siemens Company would be delighted to see their old consoles in such good order, with slide mixers still functioning, despite the fact that the equipment must be close to 40 years of age. In a nearby room, a technician whipped off a dust-sheet to reveal two Studer tape-recorders, still in one piece but, sadly, with little life left in them.

All too soon, it was time to take our leave. We said our farewells to the intrepid and dedicated team of trainers and headed off to our next destination. This time, we were to visit the production house where UNESCO once operated an educational broadcasting radio and television production studio. The two-storey building, or what was left of it, is located close to the university in a street of houses and shops ravaged beyond belief by war. Hardly a single one is intact.

Again, led by the courageous Engineer Yhya, we entered the compound of what had once been UNESCO's pride and joy. The first thing I saw was the shell of a rusted motor vehicle lying in the garden, its body peppered with bullet holes. On the wall near the front door, a large hand-drawn piece of graffiti immediately caught the eye. Translated, its message was potent, its plea chilling. It read "War, don't kill us! We are teenagers."

I stepped into the building and was taken-aback by the devastation. Everything was gone. Doors stood idly, their glass panels stripped. Windows had long gone. Where once a radio studio had stood, former occupants had decided that it would better serve as a toilet. Faeces covered the concrete floor. To the right, the front office was a

scene of broken and twisted metal, an old table, covered with dust and debris but still in one piece, stood like a sentinel of better times long-gone. Propped up on the window-sill were two steel army helmets. Each was riddled by bullets. Hopefully, just target practice and not worn by combatants at the time.

We trod gingerly along the corridor, looking left and right at where radio and television studios had once stood. We didn't enter, always mindful that discarded ordinance and explosive booby-traps are common in this war-torn country. Finally, we reached the main television studio. Poised high above the studio floor, the gutted director's box looked down on us forlornly. The quiet was deafening. The destruction was complete. Everything of value in the building had gone, even the toilet receptacles. Only the sound-proofing on the walls of the main studio seemed to have survived, plus some tiles in one of the bathrooms.

That it has come to this, I heard myself saying. That it has come to this. I thought about the sign at the front door, its plea even more emotional now that I had seen what past wars had wrought- "War, don't kill us! We are teenagers." I thought about those young people. Where are they now? Did they survive this carnage? And I thought about the words of UNESCO's constitution: "It is in the minds of men that the defenses of peace must be constructed." Never a truer word written.

We stepped out into the daylight. I didn't know what to say. I just shook my head. Engineer Yhya spoke first. "Now, Mr. Martin, this all belongs to you." We all laughed together. "Please bring it back and make it UNESCO again," he said. I looked at the wall where the teenagers had written their brief but eloquent statement. I knew that we would do our best to see that the center was rebuilt and, when reconstructed, we would place a large perspex sheet over that wall to preserve the writing and the hundreds of bullet holes that now dotted it. A lasting memorial to a time hopefully now past in Afghanistan's history.

Engineer Yhya closed the steel outside door as we left the compound and went out onto the street. Around us, ruined buildings stood, their roofs torn from them, their walls pock-marked by shell fire. But in this scene of near desolation, I felt hope. Hope that, indeed, the UNESCO educational radio and television production center would again rise from the ashes of this part of Kabul and make a real contribution to education, peace and tolerance in a country that, for

too long, has only known conflict. A center where busy, happy and creative people put their minds to the defenses of peace and where, never again, young people would have to write on the wall: "War, don't kill us! We are teenagers."

Martin Hadlow, UNESCO Team Leader

Kabul, Afghanistan, 24th January, 2002

Digital Audio Broadcasting—An Australian Overview

By Bob Padula, February 2002

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1. Outline

The new year of 2002 has opened with a flurry of activity across the industry, associated with the introduction of Digital Audio Broadcasting (DAB).

Here in Australia, the Government has authorised experimental transmissions in the L-band (UHF), for assessing consumer reaction to this new delivery platform, and many other countries are also moving towards broad roll-out of DAB.

This paper is a general overview of the subject, from an Australian perspective, and if you are interested in this emerging technology, there are a range of Links given which you are invited to visit for detailed information.

2. What Is DAB?

Simply put, "DAB" is the replacement for existing VHF-FM audio broadcasting, and there has been acceptance of the "Eureka 147" technical standard in many countries as the preferred platform. The proposed replacement for LW, MW and SW is the Digital Radio Mondiale standard, ("DRM"), currently

undergoing technical development and compatibility trials in various regions.

Digital television is a third category, with consumer acceptance worldwide not being quite what its developers had anticipated at this stage! The Australian Government would like to introduce digital tv widely, as soon as possible, but is aware of negative perceptions from the UK, where 92% of respondents to a recent survey said they didn't believe they should have to pay for the conversion from analogue!

There are two main Web sites of particular interest, devoted to digital radio broadcasting:

<http://www.drm.org> (covering the DRM technology)

<http://www.worlddab.org/> (covering DAB technology)

The World DAB Forum issues a regular free on-line newsletter, available from its Web site, and archived editions may be viewed or downloaded.

As the technology is continuously evolving, there are very few printed references available on the subject, are very expensive, and useful mainly in academic/educational and design/development/research areas. My view would be that we should not hide our heads in the sand with these incoming technologies. World DAB reports that in

Canada, General Motors has announced that it will be delivering factory-installed DAB receivers in its Chevrolet Impalas and Monte Carlos from 2003 in their Canadian models.

There are 55 DAB stations serving a potential 10 million people in Vancouver, Toronto, Windsor and Montreal, with others due on line this year. Once this new technology is available, the term "DX" will cease to have any meaning, whether DRM or DAB. Put simply, digital signals are either "on" or "off" and there is no concept of "fading". Once the received signal level drops below a threshold level, there is no signal at all—rather like cell-phone technology.

The proposed shortwave version of DRM would mean a major intellectual adjustment to what we have grown up with: receivers will not have tuning "dials" as such, and will respond to digitally modulated signals from an array of transmitters globally, with a combined output, with the receiver continually "searching" for the desired program over a very wide frequency spectrum. You will not "tune" to "frequencies" but to "stations"! The same sort of thing may happen with long-wave and medium-wave. But that's a long way off still....

One thing that worries some of us in the industry is the progressive dismantling and closure of the HF transmitter infrastructure for international and domestic broadcasting, which is quite inconsistent with DRM's objectives of maintaining HF radio to deliver digital signals globally.

Information coming forward from the industry focuses heavily on the rapid commercial introduction of DAB for domestic purposes using VHF, but relatively little details are available for the DRM initiatives. Indeed, one could wonder if there is any future at all in HF broadcasting, whether AM or DRM, if the rate of termination of existing transmitters is maintained, with widespread migration to satellite, and VHF, supported by streaming Audio on the Internet. As many private HF international broadcast operators have realized, revenue streams from commercial advertising are

negligible, and many governments are no longer prepared to invest vast sums into HF broadcasting where the main audience is "technical monitors or hobbyists"!!!

3. Industry Information

3.1 What Digital Radio Systems Are Available?

A number of different digital radio systems are currently under consideration to become the preferred standard in Australia. Of the systems under consideration, only the European Eureka 147 system is sufficiently developed to allow for the commencement of initial planning for digital radio services in Australia. However this does not preclude other planning options and transmission standards being adopted to ensure the best possible outcomes for digital radio in Australia.

Other digital radio standards include in-band systems, digital systems that use satellites for delivery of services and a digital radio system intended to replicate the large coverage areas of current AM broadcasters and shortwave broadcasters.

The two main in-band systems under development in the USA are In-Band On Channel (IBOC) and In-Band Adjacent Channel (IBAC). The IBOC system transmits a digital signal simultaneously within an existing analog AM or FM signal. The IBAC system transmits a digital signal within unused spectrum adjacent to the spectrum used by existing FM signals.

In-Band Reserve Channel (IBRC), which is based on using "spare" spectrum not able to be used for other services, may also be used.

3.2 Eureka 147

Eureka 147 was developed in Europe by a consortium of broadcasters, Government research bodies and a segment of the electronic manufacturing industry. Eureka 147 is being adopted in Europe and Canada. Depending upon the particular technical

and spectrum arrangements adopted, the Eureka 147 system may offer:

- ¶ use of one receiver for both terrestrial and satellite reception;
- ¶ the commencement in early 1998 of markets for domestic receivers, and transmission and studio equipment;
- ¶ higher quality sound than AM or FM radio, providing an appropriate bit rate is used
- ¶ the capability to re-configure services for different programming requirements;
- ¶ greater flexibility in coverage than analog services;
- ¶ reception to fixed, portable and mobile receivers with fewer impairments (eg. noise or multi-path distortion) than current AM or FM radio;
- ¶ program-associated information and ancillary multimedia services;
- ¶ more effective use of spectrum than analog services;
- ¶ lower radiated power requirements for coverage of a given area than analog services;
- ¶ the ability to operate over a range of frequency bands; and
- ¶ generally lower or comparable capital and operating costs than AM or FM radio.

3.3 What Receivers Are Needed?

Reception of digital radio requires new receivers to separate and decode the transmitted signals. These receivers may incorporate a screen as well as the traditional speakers to allow for reception of the new multimedia applications.

Eureka 147 receivers are currently under manufacture for the European and Canadian markets. The first consumer receiver models were displayed at the World of Consumer Electronics fair (Internationale

Funkausstellung, IFA) in Berlin in August 1997.

Eureka 147 receivers have only been on the European market since summer 1998. Nevertheless, there now exists Eureka 147 car radios, hi-fi units, PC cards and software as well as portable receivers, and other exciting new developments and prototypes such as the Eureka 147 palm top receiver. (ABA).

4. Information For The Listener

Digital radio broadcasting (DRB) is a new method of assembling, broadcasting and receiving communications services using the same digital technology now common in many products and services such as computers, compact discs (CDs) and telecommunications.

4.1 Digital Radio Can:

- ¶ provide for better reception of radio services than current amplitude modulation (AM) and frequency modulation (FM) radio broadcasts;
- ¶ deliver higher quality sound than current AM and FM radio broadcasts to fixed, portable and mobile receivers; and
- ¶ carry ancillary services-in the form of audio, images, data and text-providing program information associated with the station and its audio programs (such as station name, song title, artist's name and record label),
- ¶ other information (e.g. Internet downloads, traffic information, news and weather), and
- ¶ other services (e.g. paging and global satellite positioning).

A fundamental difference between analog and digital broadcasting is that digital technology involves the delivery of digital bit streams that can be used not only for sound broadcasting but all manner of multimedia services.

4.2 How Does It Work?

Digital radio systems use advanced digital techniques to convert the audio signal from an analog waveform to a digital signal, sampling the amplitude of the wave and creating a stream of ones and zeros which accurately represent the original sound. The sampled information is digitally compressed before being transmitted. In some digital radio broadcasting systems, several audio channels are brought together and encoded into a single data stream by means of a multiplex. Data and other services are added. The whole digital stream is referred to as an ensemble. Receivers separate and decode the signals in the digital stream. (ABA)

5. Digital Broadcasting In Australia

5.1 Australian Broadcasting Corporation

A very useful and comprehensive paper by Margaret Cassidy, discussing the Australian Broadcasting Corporation's digital radio broadcasting plans, is available at: http://www.aba.gov.au/abanews/conf/1999/broad_sem99/Margaret_Cassidy.htm

5.2 Commercial Radio Australia (CRA)

In August 2001, Australia's commercial radio apex body CRA (Commercial Radio Australia) approved a plan to extend existing Eureka 147 technical trials in the L-band into a comprehensive consumer trial. These expanded trials are now in progress and include industry participation, along with the existing participants, and a continuing commitment from the Australian Broadcasting Corporation.

These trials will concentrate on measuring consumer response to a range of audio and PAD/PID content and receiver functions. The trials consortium is in discussion with technology providers to gain access to both receiver and transmission technology for the remainder of the project. Negotiations are also under way to access VHF spectrum in the Sydney metro area, to allow the

industry to conduct parallel trials in the L-band and VHF to assess transmission and receiver capabilities.

CRA is also looking to other countries for strategic partnerships, including France and the World DAB Forum. (Pacific-Asia Broadcasting Union, and WorldDAB Forum)

6. South Africa Recommends Eureka 147

After nearly a year of deliberation, the Southern African Digital Broadcasting Association (SADIBA) has recommended that Eureka 147 technology be adopted as the standard for Digital Radio in South Africa. SADIBA determined that "Digital Radio according to the Eureka 147 technology provides a low-cost information distribution system that delivers the multimedia radio of the future and will contribute to establishing a knowledge economy in South Africa."

The Association further recommended that Band III and L-Band frequency allocations be made for Digital Radio, that both existing and new services are accommodated, and that a commercial multiplex license be issued first. The Digital Broadcasting Advisory Body (DBAB) is expected to present final recommendations on digital broadcasting to the Minister of Communication in May 2002.

Last July, a team from WorldDAB attended a two-day workshop in Johannesburg to debate the various issues facing South Africa's broadcasters and regulators. The team was able to share its accumulated knowledge on such issues as policy, regulation, technology, and commercial and marketing strategies, which other countries around the world have identified as core to the successful implementation of digital broadcasting. For more information on the recommendations and DAB in South Africa, visit <http://www.sadiba.co.za/> (WorldDAB Forum)

(More of this interesting article on Digital Radio around the world, next month.-ye ed.)



Listener's Notebook

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

AFGHANISTAN SITE(?) 8700USB Presumed *Information Radio* still heard here today, 1645 local music, 1715 announcements by lady in vernacular mentioning Afghanistan, Pakistan and Al Qaeda, back to music, 1730 more announcements by man but my local noise level had increased so copy difficult, back to music 1735 and still on 1742 tune out. Barely audible at tune in, had faded up by tune out but still weak though easy copy when local noise level low. Just prior to the 1714 bulletin what I assume was another station came on the frequency with a man making two or three brief announcements in unknown language and then saying Over. (Barraclough Mar 25/Cumbre DX/Fleming)

ALBANIA Radio Tirana

0145-0200	English	6115 7160
0230-0300	English	6115 7160
0300-0800	Albanian	6100
0800-0900	Albanian	7110
1400-1700	Albanian	5985 7270
1700-1715	Turkish	6130 7140
1715-1730	Greek	6130 7135
1730-1800	German	9570
1800-1830	Italian	6100 7240
1845-1900	English	7210 9520
1900-1930	French	7210 9520
2030-2200	Albanian	7295 9575
2115-2130	Ser/Cro	6135 7110
2130-2200	English	7130 9540
2300-0330	Albanian	6090 7270

(Gupta via GRDXC Mar.16/Japan Premium/Iwata-JPN)

Trans World Radio, via Cerrik

0430-0445	Slovak	6235 7380S Mo-Fr
0515-0530	Polish	7380S 9885
0830-0845	Hungarian	7385S 9490 Tu-Sa
1030-1100	Slovak	7385S 9490 Sa
1344-1359	Russian	11635 Su
1344-1359	Ukrainian	11635 Tu
1344-1444	Russian	11635 Sa
1344-1459	Russian	11635 We-Fr
1359-1459	Russian	11635 Tu
1414-1459	Russian	11635 Mo
1500-1530	Polish	7355S 9410
1530-1545	Armenian	9945 12080 Sa/Su
1530-1545	Polish	7355S 9410 Su
1530-1600	Armenian	9945 12080 Mo-Fr
1615-1630	Czech	5945 7355S Mo/Tu/Th/Fr
1625-1725	Farsi	9960 12100 Su
1625-1740	Farsi	9960 12100 Mo-Sa
1630-1700	Hungarian	5945
1705-1735	Armenian	7365S 9445 Mo-Fr
1725-1741	Qashqai	9960 12100 Su
1800-1815	Russian	7125 Mo
1800-1815	Ukrainian	7125 9750 Tu
1800-1815	Russian	9750 Mo
1800-1845	Russian	7125 9750 We-Su
1815-1845	Belorussian	7125 Mo

1815-1845	Russian	9750 Tu
1815-1845	Belorussian	9750 Mo
1815-1845	Russian	7125 Tu
1930-2000	Finnish	9430 Mo-Fr
2000-2030	Swedish	9430 Mo-Fr
2030-2100	Norwegian	9430 Mo-Fr

all via Cerrik, except S=Shijak
(Gupta-IND/Hard-Core DX)

ANGOLA 7217 NF? *National Radio*, Luanda Good Reception at 2100 with program In English.
(Vaghjee-MAU/Hard-Core DX)

AUSTRIA Everest Radio discontinued via Moosbrunn since 5 Febr, due to lack of budget.
Radio Afrika International via Moosbrunn morning broadcasts 1100-1200 on 17815 ended Jan 31. Afternoon broadcasts 1500-1600 on 17895 continue, and will be kept during the summer schedule. So will the relays of AWR, TWR, RCI, and Voice of Vietnam. (Harranth via Bueschel BC-DX Feb 12/Cumbre DX/Fleming)

Trans World Radio, via Moosbrunn

1344-1359	Russian	9745 Su
1344-1359	Ukrainian	9745 Tu
1344-1444	Russian	9745 Sa
1344-1459	Russian	9745 We-Fr
1359-1459	Russian	9745 Tu
1414-1459	Russian	9745 Mo

(Gupta-IND/Hard-Core DX)

BRAZIL 2470 Radio Cacique, Sorocaba (SP). This is just to let you know that this station is back on the air operating 24/7 with 250 Watts. Until a few days ago there was a controversy among some Brazilian DX'ers if this station was really back on shortwave or not. I decided to call the station and spoke to a technician called "Toninho". He was very friendly and told me that the station is back to shortwave since about 2 months ago. The schedule is:
From 0730-0300 - in parallel with Medium Wave (1160 kHz).
From 0300-0730 - in parallel with FM (96,5 MHz) - only music
Reception reports should be sent to Toninho (Departamento Tecnico) at:
comercial@radiocacique.com.br . I suggest you to write your reception reports in Portuguese language. (Toniolo Mar 14/Cumbre DX/Johnson)

BULGARIA Summer A-02 schedule of *Radio Bulgaria*

0000-0100	Bulgarian	9400 9500 11600
0100-0200	Spanish	9500 9700 11600
0100-0200	French	9400
0200-0300	English	9400
0300-0400	Russian	7500 9500 11900
0400-0430	Greek	7300 Mo-Fr
0400-0500	Bulgarian	7300 7500 9400 9500 Sa/Su
0430-0500	Bulgarian	7300 7500 9400 9500 Mo-Fr
0430-0500	Turkish	6000 7400 Mo-Fr
0500-0545	German	9400
0500-0600	Greek	7300 Sa/Su
0500-0600	Turkish	6000 7400 Sa/Su
0530-0530	Albanian	7300 Mo-Fr
0530-0600	Serbian	7300 Mo-Fr
0600-0700	French	12000
0600-0700	Albanian	7300 Sa/Su
0700-0800	Serbian	7300 Sa/Su
1000-1030	Bulgarian	11700 12000 13600 15200
1000-1100	German	17500
1100-1200	English	17500
1200-1400	Bulgarian	12000
1400-1500	Russian	7500 9900 13800
1500-1545	Serbian	7300
1500-1600	Bulgarian	7500 9900 17500

1545-1630	Albanian	7300
1600-1700	Bulgarian	7500 9900
1600-1700	Spanish	15700 17500
1615-1700	German	9400
1630-1715	Greek	7300
1700-1800	French	9400
1700-1800	Russian	7500 9900
1715-1800	Turkish	7400
1800-1845	German	9400
1800-1900	Bulgarian	5900 7400 7500
1900-1945	Albanian	5900
1900-2000	Bulgarian	7400 7500
1900-2000	English	9400
1945-2030	Greek	5900
2000-2100	French	9400
2030-2115	Serbian	5900
2100-2200	English	9400
2100-2200	Spanish	11800 13800
2300-2400	English	9400
2300-2400	Russian	12100
2300-2400	Spanish	9500 11600

Radio Varna with program "Hello Sea"/"Zdravey more" in Bulgarian will be on air 2100-2400 Sun and 0000-0300 Mon on 9800 Varna. (Nedyalkov & Ivanov-BUL via Gupta-IND/Japan Premium/Iwata-JPN)

BURKINA FASO 5030 Radio Burkina (p) 1830 Slow careful spoken FF in African accent with musical interludes, "bon soir" and references to "canal plus" at 1845 and fading out as morning progressed (Norrie Mar 16/Cumbre DX/Fleming)

This whole Burkina thing has me wondering. I haven't heard them in a few years on 4815. Yet, they come in like gangbusters periodically on 5030. I don't think they have the money for a new transmitter let alone the money for the proper antenna to deliver that type of signal. Perhaps my surmise on the ODXA group is right, perhaps they are using Africa No. 1. After all, they have been known to put in a blow torch signal on 9580 in our afternoons. It would be interesting for someone visiting the country, or someone who has the shekels to call them, so that we can clear this up (Coady Mar 11 via Hauser DXLD/Cumbre DX/Johnson)

CANADA Radio Canada International, April - 27 October 2002

0000-0100	English	9640ki 11897xi
0030-0100	Spanish	9590 11895 13670 15170 15305
0100-0200	English	5960 13670 15170 15305
0200-0300	English	15260xi 17860xi
0230-0300	Arabic	5840hb 11835vi
0330-0400	Arabic	11945vi 13735we
1100-1200	French	5990 9515 11910 Mo-Fr
1100-1300	French	5990 9515 11910 Sa/Su
1200-1300	English	9660ya 15190ya
1200-1500	English	9515 15305 17820 Mo-Fr
1300-1330	Chinese	9810ki 9660ya 15190ya
1300-1600	English	9515 15305 17800 Sa/Su
1430-1500	Chinese	6075ki 9680ya 11890ya
1500-1530	Russian	9920ms 11935we 15325rm 17820wo
1500-1600	English	15455xi 17720xi
1530-1600	Ukrainian	11935sk 15325rm
1600-1630	Russian	11935 15325 17820
1600-1700	French	9515 13650 15305
1630-1700	Ukrainian	11935sk 15325rm
1900-2000	French	5995sk 7235sk 15245fl 15325 17570sk 17870
1915-1944	Arabic	15200vi 17820we 17630hb
2000-2100	English	5850hb 5995sk 11690sk 11965we 12015dh 15325 15470ar 17870
2100-2130	Arabic	11920we 17820
2100-2130	English	5850hb 7235sk 13690sk 15325 17870

2130-2200 French	5850hb 7235fl 9590 11920 13690fl 15325 17870 17880
2200-2230 English	6175 9590 11920 13670 15405 17695 17880
2200-2300 French	11810ki 17835ya
2230-2300 Spanish	11920 15305 17880
2230-2400 English	6175 9590 13670 17695
2300-2400 Chinese	13660ya 15360sn 17835ya 11810ki
2300-2400 French	5960 15305 17880

Relays:

ar - Armavir, Russia
dh - Dhabayya, UAE
hb - Hoerby, Sweden
ki - Kimjae, Korea
ms - Moscow, Russia
rm - Rampisham, England
sk - Skelton, England
sn - Singapore
vi - Vienna, Austria
wo - Wooferton, England
we - Wertachtal, Germany
xi - Xian, China
ya - Yamata, Japan

(Via Alan Roe, UK, DX LISTENING DIGEST 2040MIDXB/Gusev-RUS)

CHINA CRI - China Radio International A02 schedules of English broadcasts, beginning Mar 31, 2002.

0100-0200	9580B* 9790C
0300-0400	9690S
0400-0500	9560 9730G
0900-1000	15210 11730
1000-1100	15210 11730
1200-1300	9730 9760 11760 11980 15415
1300-1400	9570B* 11760 11900 11980 15125M 15180
1400-1500	7405 9700 11675 13685M 15110 15125M 17720B
1500-1600	7160 9785 13685M 17720B
1600-1700	9565 9870
1700-1800	9570 9695* 11920 15265
1900-2000	9440 13790
2000-2100	9440 11640M 11790 13630M 15110
2100-2130	11640M 11790 13630M 15110
2200-2300	9880R
2300-2400	5990B* 13680C

*Testing Freq

B - Relay from Cuba

C - Relay from Canada

G - Relay from Fr Guiana

M - Relay from Mali

R - Relay from Russia

S - Relay from Spain

(Lionel Carter, Mike Barraclough via WDXC via BC-DX #563, 2002 Feb 12/EDXP/Kubiak-GER)

Voice of Strait. According to the reply from the station, the transmitting schedule is as follows:

News & Politics Channel:

1000-1700	Chinese	6115 We
2225-1700	Chinese	6115 Th-Tu

Literary & Life Channel:

1000-1700	Chinese	7280 We
2225-1700	Chinese	7280 Th-Tu

Amoy Language Channel:

1000-1700	Amoy	4940 We
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2225-1700 Amoy 4940 Th-Tu
(via Ogino/Cumbre DX/Fleming)

As late as 1996, Dxers heard **Radio TV Hong Kong** weather reports broadcast on shortwave for participants in the China Sea Race. This is a sailing race between Hong Kong and the Philippines organized by the Royal Hong Kong Yacht Club. The Cape D'Aguilar HF station in Hong Kong provided the actual transmission facilities, operating on 3940 kHz with 10 kW. In 1997, Radio TV Hong Kong told Cumbre DX that the broadcasts would no longer be made due to trouble and expense. The broadcasts were forgotten about until late 2001 when Roland Schulze in the Philippines reported to Wolfgang Bueschel's BC-DX that he heard weather broadcasts during a race in November. The 2002 China Sea Race Series will be from March 28th until April 6th. According to the Royal Hong Kong Yacht Club the broadcasts will begin on March 28th starting at 0945 UTC (1745 local). There will also be a morning broadcast at 2345 UTC (0745 local). Both will be on 3940. The transmissions will stop on the morning on Tuesday 2nd April whereby most of the boats should have arrived. There will be a 2345 UTC transmission for the return journey from Sunday 7th April through to Friday 12th April. The website for the race is: <http://www.rhkyc.org.hk/chinasearace/home.htm> Those wishing to receive a QSL can contact: Cape D'Aguilar HF station, P.O.Box: 9896, GPO Hong Kong. Tel: +852 2888 1128. Fax: +825 2809 2434. Lam Chi Keung, Assistant Engineer, is the verification signer. (Lam and Johnson Cumbre DX Feb 26)

CLANDESTINE - AFRICA The transmission of *Voice of the People* via the RNW Madagascar relay station has been extended to 1700-1830 on 7120. This is one of the two independent SW stations being to Zimbabwe, in the run-up to next month's elections. (RNMN Newsletter 15 Feb via Terry BDXC/Cumbre DX/Fleming) There's also a morning transmission via Madagascar at 0330-0430 UTC. (Sennitt Mar 20 Cumbre DX/Toniolo)

An Arabic-language shortwave radio station identifying itself as "*Sawt al-Qarn*" is currently being heard daily at 1330-1430 gmst on 21550 kHz. The Arabic word qarn can mean either "horn" or "age" (or "era"), and so the radio's name may be translated as Voice of the Horn (of Africa) or Voice of the Age. It is possible that the station intends both meanings to be valid. The radio's opening and closing announcements include a brief identification in English as "This is Millennium Voice", indicating that Voice of the Age is a valid translation of the Arabic name. However, the radio's opening music is of Eritrean origin, suggesting that Voice of the Horn is an equally valid title. Furthermore, its time checks are three hours ahead of UTC, the time zone used in the Horn of Africa, east Africa and Sudan, suggesting that this is its target area. The daily programmes begin with a Koranic recitation and commentary. Programming is then largely devoted to human rights and other issues in the Arab world. Reports on Sudanese affairs feature particularly prominently. A bulletin of African news is carried at 1400 gmst. (BBCMS Feb 19-20 via Hauser DXLD/Cumbre DX/Fleming)

CLANDESTINE - ASIA

New Star Broadcasting Station Channels 2 and 5 respectively. Heard at 1010 and 1110 on 15388 and 13750. Numbers transmission at toh. After the transmission, there is a short pause before music start up and message in plain Mandarin by W annr "We thank you for listening to our program. To enable the latest news to be delivered to you, the sponsoring organisation has requested us to solicit entries on the manufacturing of mpeg systems. Fees will be given for articles used. Submit your articles to w2798@hotmail.com or by post to P.O. Box 12587, Taipei. Thank you for listening." Some popular theme music follows. There is of course, no mention of what the sponsoring organisation is. (Lam-SNG Mar 29/Cumbre DX/Johnson) First time I have ever seen any kind of contact information for this one. (Johnson/Cumbre DX)

CLANDESTINE - MIDEAST *Voice of Komala* began the transmissions of morning (in a local time) programmes; first time I heard it on Feb 16th. A station broadcasts now in Kurdish and Farsi*0325-0430* (some days until 0500*) UTC on 4615 (or 4610) and 6810 kHz, ; the evening (local) programmes- at usual time*1625-1800* UTC on 4615 (or 4610) and 6810 kHz. On the last frequency- strong interferences from anti Voice of Mojahed jumping jammer. Komala-Revolutionary Organization of the Toilers of Iranian Kurdistan. ID (Kurdish): "Eira dengi Komala, dengi azadi e sosyalizmu" (English translation: Voice of Komala, voice of freedom and socialism). ID (Farsi): "Radio Komali" also "In seda-ye Radio Payama, Radio Payam- seda-ye parezgaran-e azadi Kordestana, seda-ye amnestizi y irbayda ... , seda-ye azadi e sosyalizmu". Radio Azadi, which were mentioned in some reports of dxers, I think, is just a fragment of many

various indentifications of Voice of Komala. For e. g., earlier noted IDs (or fragments): Voice of Kudilara, Radio Payam, Radio Azadi. (R.Petratis-LTU Feb 22, 2002 for Clandestine Radio Watch/CRC/Cumbre DX/Fleming)

CONGO - DEMOCRATIC REPUBLIC A new station, *Radio Okapi*, reported beginning operations on February 22. Schedule:

0600-0830 9550
1700-1930 9550

This may have become 24 hours since this report.

Initially, Radio Okapi's programming will consist of news bulletins in the morning and evening, in French, Lingala, Swahili and Tshiluba, with contributions from Congolese correspondents throughout the country. The main sponsors for the project are the British and Swiss governments. Copyright UN Integrated Regional Information Networks. Distributed by All Africa Global Media(AllAfrica.com) (via Mike Cooper, DXLD/Cumbre DX/Fleming) [Station is being widely reported. -AQ]

CONGO (Kinshasa) 6210 *Radio Kahuzi* per GALCOM, the station that provided the transmitter for this station, this one is still active from Bukavu and is running about 30 watts. (Johnson Feb 26/Cumbre DX/Fleming)

DENMARK *Radio Denmark* March 31- October 26, 2002, all in Danish:

0030-0055 9930 9985 11635
0130-0155 9975 9985 11635
0230-0255 9975
0330-0355 7490 9960 13800
0430-0455 7465 7490 9475 13800
0530-0555 7465 11615 13800
0630-0655 7180 9590 13800
0730-0755 7180 9590 13800
0830-0855 11640 13800
0930-0955 13800 17505
1030-1055 13800 21745
1130-1155 13800 18950
1230-1255 15705 15735 18920 18950
1330-1355 9590 15735 17525 18920
1430-1455 15735 17525
1530-1555 13800 15735 17525
1630-1655 9595 13800 15735 17525
1730-1755 7490 13800 15705 17505
1830-1855 7490 11615 13800
1930-1955 7490 11615 13800 15705
2030-2055 7490 9510
2130-2155 9510
2230-2255 9925 11620
2330-2355 9920 9945 9985 13710
(Gupta via GRDXC/Japan Premium/Iwata-JPN)

FRANCE/LIBYA New A-02 schedule for relays of *Libyan Jamahiriyah Broadcasting* in Arabic:

1000-1100 21695
1100-1130 17695 21810 21675 21695
1130-1400 21675 21695
1400-1500 21675
1500-1600 17695 21810
1600-1700 15660 17695
1700-1800 15660 17635 17695 17880
1800-1900 15205 15660 17635 17695
1900-2000 15205 15315
2000-2030 11635 15315
2030-2130 11635
(Observer Mar 16/Cumbre DX/Toniolo)

GERMANY A02 schedule for DTK Juelich

0000-0100	LRT	9855
0100-0130	UNL	9435 Su
0100-0300	HRT	9925
0257-0500	RTB	9495 Mo-Fr
0300-0500	HRT	9925
0400-0500	AWR	9570
0400-0600	UMC	11645 13810
0427-0500	RTB	9495 Sa/Su
0457-0700	VRT	13685
0500-0559	ECC	15545
0500-0700	HRT	9470
0500-0712	RTB	17580 Mo-Fr
0500-0806	RTB	17580 Su
0500-1000	RTB	17580 Sa
0555-0800	SRI	15445 17685 21750
0600-0730	AWR	11610
0600-1555	DWL	6140
0600-2000	DRM	5850
0645-0750	TWR	6045 Sa
0645-0820	TWR	6045 Su
0655-0820	TWR	6045 Mo-Fr
0657-0730	VRT	5985
0700-0800	VOH	5975
0700-0900	HRT	13820
0700-1200	VOH	21590
0800-0900	RHM	13810 Sa
0825-1030	SRI	21770 (via Sottens)
0858-1000	EVR	6045 Su
0900-1000	AWR	11880 Sa/Su
0900-1000	CHW	5985 Su
0900-1700	DRM	6110
0957-1206	RTB	21565 Mo-Fr
1000-1117	RTB	21565 Sa
1027-1225	L(RNW)	6045
1057-1117	RTB	21565 Su
1200-1300	RHM	6110 Sa/Su
1200-1500	TOM	5975
1200-1700	VOH	15715
1230-1245	TWR	9490
1300-1600	TOM	13810
1330-1430	VOH	15775
1330-1635	VOH	17550
1455-1530	DVB	17805
1457-1716	RTB	17570 Su-Fr
1500-1600	TOM	6015 Sa
1555-1800	TOM	6015 Sa
1555-1900	DWL	6140
1557-1716	RTB	17570 Sa
1600-1645	TWR	7135 9690 Sa
1600-1700	UNL	15670 Su
1600-1700	VOH	13810
1600-1700	TIS	15530 We/Sa
1600-1700	AWR	13720 Sa
1600-1700	AWR	13720 Su-Fr
1600-1800	YFR	13855
1625-1815	SRI	15220 17735 21720 (via Sottens)
1630-1700	UNL	6015 Tu-Th
1645-1715	IBR	13840
1700-1800	SBO	15750 Su/We/Fr
1700-1800	AWR	15235
1700-1900	YFR	9695

1700-1900	UMC	13820	15265
1700-1900	VOH	9495	(via Biblis)
1700-2100	VOH	15715	
1729-1900	VRT	13710	
1730-1800	EVR	6015	We
1757-2000	VRT	5910	Sa
1800-1830	UNL	15750	Su
1800-1830	FEC	11895	Th/Fr
1800-1900	ECC	13810	Su-Fr
1800-2100	YFR	15775	
1800-2130	ECC	13810	Sa
1825-2130	SRI	13645	(via Sottens) 15220 17580
1830-1900	RRP	15750	Th
1900-1915	UNL	15565	Su
1900-1930	IBR	13710	
1900-2000	YFR	9495	
1900-2030	AWR	15485	
1900-2200	YFR	13855	
2000-2100	VOH	6175	
2000-2100	IBR	9655	
2155-2400	SRI	9885	(via Sottens)
2230-2330	IBR	9405	
2300-0100	HRT	9925	
2330-0030	DVB	9490	

AWR Adventist World Radio
 CHW Christliche Wissenschaft
 DTK Deutsche Telekom
 DVB Democratic Voice of Burma
 DWL Deutsche Welle
 DLF Deutschlandfunk
 DLR DeutschlandRadio
 ECC Radio Ecclesia
 EVR Evangeliums Radio Hamburg
 FEB Far East Broadcasting Company, Philippines
 HRT Hrvratska Radio Televizija
 HLR Hamburger Lokalradio
 IBB International Broadcast Bureau
 IBR IBRA Radio Sweden
 INF Inforadio
 LRT Radio Vilnius Lithuania
 MWH Missionswerk Heukelbach
 RHM Remnants Hope Ministry
 RNW Radio Netherlands World Service
 RRP Radio Reveil Paroles de Vie
 RSU Radio Sunshine
 RTB Radio Television Belge de la communaute Francaise
 SBO Sagalee Bilisummaa Oromoo
 SRI Swiss Radio International
 TBC Tamil Broadcasting Corporation
 TIS Tigrean International Solidarity for Justice and Democracy
 TOM The Overcomer Broadcast
 TWR Trans World Radio
 UMC The United Methodist Church
 UNL Universelles Leben
 VOH High Adventure Ministries - The Voice of Hope (ex HAM)
 VRT Vlaamse Radio en Televisie (ex RVI)
 YFR WYFR Family Radio
 (DTK Juelich, via WWDXC Germany, Mar 18/Bueschel-GER)

Trans World Radio, via Juelich
 0645-0750 English 6045 Sa

0645-0820	English	6045 Su
0655-0820	English	6045 Mo-Fr
1230-1245	Croatian	9490 Mo/Tu/We/Fr/Sa
1230-1245	Slovenian	9490 Th/Su
1600-1645	Rumanian	7135N 9660 Sa

all via Juelich except N=Nauen (Gupta-IND/Hard-Core DX)

GREECE *Voice of Greece* effective from 31/03/02 to 27/10/02

0000-0400	Greek	5865 7475 9420 15630
0400-0600	Greek	9420 15630 17520 21530
0600-0700	Greek/En	9420 15630
0600-0700	Greek	15190 17520 21530
0700-0800	Greek	15190 17520 21530
0700-0800	Greek/En	15630 17905
0800-1000	Greek	17520 21530
0800-1000	Greek/En	15630 17905
1100-1200	Greek	17905
1200-1300	Greek	9590 12105 17905
1200-1430	Greek/Ar	15650(via Tashkent to 1330)
1300-1400	Greek	9420 9590 15630
1330-1400	German	12105
1400-1430	Russian	12105
1400-1500	Greek	9420 9590 15630
1430-1500	English	12105
1500-1530	Romanian	12105
1500-1600	Greek	9420 15630
1530-1600	Turkish	12105
1600-1630	Bulgarian	12105
1600-1700	Greek	9420 15630 17705
1630-1657	Serbo-Croat	12105
1700-1730	Albanian	12105
1700-1800	Greek	9420 15630 17705
1730-1800	French	12105
1800-1830	BI	12105
1800-1900	Greek	9420 15630 17705
1830-1900	English	12105
1900-2000	Greek	9420 15630 17705
2000-2100	Greek	9420 15630 17565 17705
2100-2200	Greek	9375 9420 12110 17565 17705
2200-2300	Greek	9375 9420 12110
2300-2400	Greek	7475 9375 12110 15650

Macedonia station:

1100-1550	Greek	11595
1600-2250	Greek	9935

(ERA-5 Greece, via WWDXC Germany, Mar 20/Bueschel-GER)

GUAM A-02 Tentative Frequency Schedule for *KTWR/Trans World Radio*

0715-0900	English	15215
0815-0930	English	15330
0815-1000	English	15330
0900-0915	Balinese	15200
0900-0915	Torajanese	15200
0915-0930	Madurese	15200
0915-1100	Mandarin	9910
0915-1630	Mandarin	12130
0930-1100	Mandarin	9865
0930-1230	Indonesian	15200
1100-1145	Vietnamese	9430
1100-1200	Korean	11765
1100-1615	Mandarin	7455
1200-1300	Javanese	11850
1200-1300	Japanese	9465

1230-1300	Sndanese	11900
1300-1330	Mandarin	9870
1300-1330	Khmer	11720
1300-1400	Burmese	15330
1330-1400	Swatow	9870
1330-1400	Indian	15395
1400-1430	Cantonese	9870
1400-1445	Cantonese	9870
1400-1445	Vietnamese	9430
1400-1500	Cantonese	9870
1430-1600	English	15330
1500-1530	Korean	9430
2100-2200	Japanese	11690
2115-2200	Mandarin	12130
2200-2230	Cantonese	15445
2200-2230	Indonesian	15195
2200-2245	Cantonese	15445
2200-2300	Cantonese	15445
2200-2315	Mandarin	15585
2230-2300	Hakka	12105

(Gupta-IND/Hard-Core DX)

HUNGARY Radio Budapest - A02 schedule

0000-0100	Hungarian	9800
0100-0130	English	9560
0130-0230	Hungarian	9570
0230-0300	English	9570
0300-0330	Russian	3975 6025
0330-0345	Ukrainian	3975 6025
0345-0400	Romanian	6025
0400-0415	Croatian	6025
0415-0430	Slovak	6025
0430-0445	French	6025 7165
0445-0500	Italian	6025 7165
0500-1100	Hungarian	6025 Su
0500-1600	Hungarian	6025 Mo-Sa
1100-1200	Hungarian	21560
1100-1200	Hungarian	6025 Su
1200-1300	German	6025 7220 Su
1300-1400	Hungarian	6025 Su
1400-1500	German	6025 9850 Su
1500-1515	Romanian	6025 Su
1515-1530	Slovak	6025 Su
1530-1600	Russian	6025 9575 Su
1600-1615	Ukrainian	6025 9575
1615-1630	Romanian	6025
1630-1645	Slovak	6025
1645-1700	Serbian	6025
1700-1730	Russian	6025 9575 Mo-Sa
1700-1800	German	5970 6025 Su
1730-1800	German	3975 6025 Mo-Sa
1800-1900	Hungarian	3975 6025
1900-1930	English	6025 7130
1930-2000	Russian	6025 9575 Su
1930-2000	German	3975 6025 Mo-Sa
2000-2015	Croatian	6025
2000-2100	Hungarian	17690
2015-2030	French	6025 9755
2030-2045	Italian	6025 6170
2045-2100	Spanish	6025 6145
2100-2130	English	3975 6025
2100-2200	Hungarian	15195

2130-2145	Italian	6025 11885
2145-2200	Spanish	6025 11885
2200-2300	Hungarian	9730 15455
2200-2300	Hungarian	6025
2300-2400	Hungarian	9730 15455 Su

(Vok ADDX via Padula EDXP)

INDONESIA

4000 *RRI Kendari* 1430 Quite good with typical Indonesian musical programming at this time. (Cattermole Feb. 25/Cumbre DX/Fleming)

4753.4 *RRI Makassar* NOT heard today. We need to observe this. (Yamada Mar 24/Cumbre DX/Fleming)

4789.1 *RRI Fak Fak* 1305-1355* Heard at 1305 with Jakarta news relay, "Musik Tradisional". Signed off at 1355. Now the signal improved. Fair.(Yamada Mar 23/Cumbre DX/Fleming)

Stations heard in February:

2899.1 RPDT2 Ngada
 3100v RPDT2 Halmahera Tengah Heard in Philippines.
 3214.8 RRI Manado
 3264.7 RRI Gorontalo
 3325.0 RRI Palangkaraya
 3344.8 RRI Ternate
 3905.0 RRI Merauke
 3960.3 RRI Palu
 3976.1 RRI Pontianak
 4000.1 RRI Kendari
 4753.4 RRI Makassar
 4789.1 RRI Fak Fak
 4874.6 RRI Sorong
 x4925.0 RRI Jambi Inactive again in the end of February.
 6071.2 RRI Jayapura
 6153.8 RRI Biak
 7171.4 RRI Serui
 9525.0 V.O.Indonesia, Cimanggis
 9552.5 RRI Makassar, local daytime broadcast
 9680.0 RRI Jakarta, Pro5, Cimanggis Not confirmed due to heavy QRM.
 9741.8 RRI Sorong, local daytime broadcast
 x11785.0 V.O.Indonesia, Cimanggis Changed to 15150.1kHz.
 15125.1 RRI Jakarta, Pro3, Cimanggis
 15150.1 V.O.Indonesia, Cimanggis Changed from 11785kHz.
 (Yamada Jembatan DX Mar 3/Cumbre DX/Lam)

Indonesian observations from February 19: At 1300 UTC (2000 LT) I found the following stations in parallel with news from Jakarta:

3264.7	Gorontalo
3325.0	Palangkaraya, local ID at 1320, O=4-5
3344.9	Ternate
3960.3	Palu, weak modulation, O=3
3976.1	Pontianak, christian choir noted at 1328, 1424 local ID, O=5
4000.1	Kendari (tent; but to my knowledge, RRI Padang has not been reported here for several month)
4753.3	Makassar
4925.0	Jambi

At 1500 the following stations were in parallel for news:

3960.3	Palu
4000.1	Kendari
4753.3	Makassar

Pontianak had a music program of its own at this time.

The following s/off times were noted:

3264.7	Gorontalo at 1315
3344.9	Ternate at 1400
3325.0	Palangkaraya at 1448 after sweet sounding music
4000.1	Kendari at 1530
4925.0	Jambi at 1552
3976.1	Pontianak at 1557 after sweet sounding music
4753.3	Makassar at 1558 after sweet sounding music

I remember having heard **Radio KIP** on 4696.6 two years ago from the same location. This one seems to be inactive now. 5040 was covered by AIR Jeypore; English news at 1530. (Passmann-THA/Japan Premium/Iwata-JPN)

ISRAEL New schedule for *Kol Israel Reshet Dalet* in Hebrew from Mar 10:

0500-1900	15760
1900-0500	9345
2100-2215	15640

(Ivanov and Datzinov-BUL/BC-DX/Bueschel-GER)

JAPAN Radio Tampa has announced plans to substantially reduce its Second Network broadcast times. From April 1, this network will be on the air ONLY on Saturdays and Sundays local days in JPN - the weekday services will be abolished. New (UTC times) schedule will be 2300-0900 3945 and 6115, 2300-0800 9760. (Koji Yamata-JPN, BC-DX Mar 23 via Johnson/Cumbre DX/Fleming)

LAOS 4658.65 Houa Phan Mar02 1105 34443 in Laotian. Heard regional pops and talk by woman. Sometime RTTy was jammed. Until Feb24, they broadcast on 4660.60. // 6130 at 1200. (Mar 2/Iwata-JPN/Japan Premium/Iwata-JPN)

MADAGASCAR RTV Malagasy is back on 5010 kHz, but apparently with a different schedule. Heard just before 1700 with Malagasy music, and a brief announcement by male speaker in Malagasy. After 1700 the National Anthem was played. Then IS, a few test tones, and off at 1702 UTC. Nice signal. (Veldhuis, Mar 7/Cumbre DX/Lam)

It seems clear that Madagascar has two radio stations now (1) The official Station **RTM** which is on 5010, 6138 and 7155. 3287 was off and has been heard today. It signed on at 0300 and for the moment [due to the unrest] it went off at 1702 instead of 1900 after usual ID, NA and IS.

(2) The station backed by Marc Ravalomanana, the mayor of Antananarivo and self appointed president is on 9685 from 0300 to 2000 and 5000 which has moved to 4990 is from 1700 to 0300 (Vaghjee via Veldhuis Mar 11/Cumbre DX/Johnson)

MONACO Trans World Radio, via Monte Carlo

0645-0750	English	9870 Sa
0645-0820	English	9870 Su
0655-0820	English	9870 Mo-Fr
0830-0845	German	9795 Mo-Sa
0830-0915	German	7160 9795 Su
0830-0915	German	9795 Su
1230-1245	Slovenian	7280 Th/Su
1230-1245	Croatian	7280 Mo/Tu/We/Fr/Sa
1300-1330	German	7160 9795
1330-1400	German	7160 9795

(Gupta-IND/Hard-Core DX)

NEW ZEALAND Radio New Zealand International (RNZI) has launched new weekend programs for New Zealand's Defence Forces serving overseas.

1105-1305	Sa/Su
1905-2105	Sa
0705-0905	Su

(RNZI website/Ormandy/Cumbre DX/Fleming)

RNZI freq schedule From 31 March-5 May:

0500-0700 15340
 0700-1100 11675
 1105-1305 11675
 1650-1750 6095
 1750-1850 11725
 1850-2050 15160
 2050-0500 17675

(Rubin, swprogrs Mar 25 via DXLD/BC-DX/Bueschel-GER)

OMAN Radio Oman Final Schedule A02

0000-0200 Arabic 9760
 0200-0300 Arabic 6085 15355
 0300-0400 Arabic 6085
 0300-0400 English 15355
 0400-0600 Arabic 9515 9740 17590
 0600-1000 Arabic 13640 17630
 1000-1400 Arabic 13640
 1400-1500 English 15140
 1400-1500 Arabic 13725 15375
 1500-1800 Arabic 13725 15140 15375
 1800-2000 Arabic 6190 15355
 2000-2200 Arabic 6085 13640
 2200-2300 Arabic 13755
 2300-2400 Arabic 9760 13755

(Brar-IND via Padula/Japan Premium/Iwata-JPN)

PAPUA NEW GUINEA Bandscan 3/23/02 1054 UT

2410 Radio Enga not heard
 3205 Radio Sandaun strong with US pops 3/23
 3220 Radio Morobe faint-tentative 3/23
 3235 Radio West New Britain strong with PNG pop mx countdown
 3245 Radio Gulf good; old bluegrass tunes; ID @ 1100 "R. Gulf, Voice of the Seagull"
 3260 Radio Madang strong; childrens stories in Tok Pisin
 3275 Radio Southern Highlands strong in Tok Pisin
 3290 Radio Central not heard
 3305 Radio Western poor signal, but definitely them in Tok Pisin. Seemed to have transmitter problems with signal cutting in and out. At 1123, rapid increase in signal strength, old US R&B tune.
 3315 Radio Manus not heard
 3325 Radio Bougainville probably them, behind RRI Palangkaraya
 3325 Radio East Sepik not heard
 3345 Radio Northern not heard
 3355 Radio Simbu not heard
 3365 Radio Milne Bay not heard
 3375 Radio Western Highlands not heard
 3385 Radio East New Britain not heard
 3395 Radio Eastern Highlands not heard- ute only
 3905 Radio New Ireland strong in Tok Pisin
 4890 NBC Port Moresby excellent with US pops
 (Atkins-WA/DX Listening Digest/Hauser-OK)

PERU 5032 Radio LTC (Radio Leoncio Torres Collao), Juliaca 0235 Nonstop Latin music and no ID. At 1130 Peruvian and Bolivian music non stop. At 2325 Latin music and ID by woman "En transmisin Radio LTC". Before I would hear them on 6011 (Fontenele Mar 21)

5557.7 **Radio Comercial**(p) 0141 Peruvian music heard as I was surfing the 60-meter band. Male announcer spoke between songs. Much summer-like static and some rapid fading made reception difficult. Was on past 0510 but off on 0700 recheck. Hrd next night but suffers from Ute/ARO QRM. (Sgrulletta Mar 24)(Radio Lajas was last reported in 1999 by Mark Mohrmann in Cumbre DX 233-Ed.) 2350-0230 March 24. The new name of former Radio Lajas. Malm in SWB via DXLD reported operating on 6642.72, heard this station that was en the frequency of Radio Lajas Presenting tropical musicand techno-Cumbias and commercials in large blocks (Rodriguez

via Eramo ConDig Mar 26/Cumbre DX/Fleming)

5854.60v **Radio Americana**, Nueva Cajamarca, Regin San Martin (Peru). 0100 UTC. I reported this new station in SWB 1468. Began around Sept 20 last year, active only a few days, and like RD Comercial below been off air until this date. ID also as "Estreo Americana". Good signal and varies in frequency a few kHz. As a matter of fact no mentioning of provincia "Rioja" but only "Nueva Cajamarca, Regin San Martn". (Malm Mar 5 SWB via Nilsson/Cumbre DX/Johnson)

6324.35 **Radiodifusora Comercial "La Voz del Vecino"**, Nueva Cajamarca, la provincia de Rioja, el departamento de San Martn (Per). March 5 2002 -1055 UTC. Reported about this new station in SWB 1475. Started around Dec 25 last year and only active for a few weeks. Off air until this date when they told us they suffered from problems with the power distribution. Funny coincidence that two new Nueva Cajamarca-stationer are "reactivated " the same date, March 5! Annoying QRM from shipborn utility. (Ibid.)

SLOVAKIA Radio Slovakia International

0100-0130	English	5930 6190 9440
0130-0200	Slovak	5930 6190 9440
0200-0230	French	5930 6190 9440
0700-0730	English	9440 15460 17550
0730-0800	Slovak	9440 15460 17550
0800-0830	German	5915 6055 7345
1300-1330	Russian	9440 7345 5915
1330-1400	German	5915 6055 7345
1500-1530	Russian	13715 11715 9535
1530-1600	Slovak	5920 6055 7345
1600-1630	German	5920 6055 7345
1630-1700	English	5920 6055 7345
1700-1730	French	5920 6055 7345
1730-1800	Russian	5920 7345 9485
1800-1830	German	5920 6055 7345
1830-1900	English	5920 6055 7345
1900-1930	Slovak	5920 6055 7345
1930-2000	French	5920 6055 7345

(Gupta via GRDXC/Japan Premium/Iwata-JPN)

SOMALIA Broadcasts continue to be heard from **Radio Baydhabo** (alternative spelling: Baidoa), a station in southern Somalia operated by the Rahanwein Resistance Army (RRA) and hostile to the transitional government in Mogadishu. It continues to be heard on its usual shortwave frequency of 6810 kHz with a daily broadcast beginning at 1500 UTC. However, reception is currently severely impaired by what appears to be deliberate interference (jamming). This interference consists of a distinctive electronic noise sometimes described as a "wobble" and often associated with radio jamming. This electronic noise is transmitted on the same frequency as Radio Baydhabo. Radio Baydhabo is sometimes heard without this interference. However, recently it has always appeared by the time of the radio's main news bulletin at 1700 UTC. Because of this, BBC Monitoring East Africa Unit has been unable to monitor the radio for news of recent developments in the Baydhabo area. (BBCMS Feb 19-20 via Hauser DXLD) Sporadic jamming sounds like Iran going after Sedeye Mojahed transmitters and hitting this instead by mistake rather than a Somalia-based jammer. Iran uses what is referred to as a wobble or bubble jamming in going after Mojahed and they play a real cat and mouse game in this part of the spectrum. I have them go after several Somali stations while DXing Somalis in Hawaii. This happens because Mojahed operates in the same range and changes frequencies quite often. The fact the Somalis also shift over time only makes it worse. After a while, the Iranians realize their mistake and relent, but they always seem to jam first and ask questions later. (Johnson Feb 26/Cumbre DX/Fleming)

SOUTH AFRICA Radio Veritas Productions in South Africa announced on its website that it will begin broadcasts on shortwave starting May 1st. Initially airing four hours daily, no frequencies, times or transmitter sites have yet been announced. (Catholic Radio Update Feb 23 via DXLD via Johnson/Cumbre DX/Fleming)

SWEDEN Radio Sweden A-02 schedule

0000-0030	Swedish	9490S
0100-0130	Swedish	13640 9490S
0130-0200	English	13625
0200-0230	Swedish	9490S
0230-0300	English	9490S
0300-0330	Swedish	9490S
0330-0400	English	9490S
0400-0430	Swedish	9490S
0400-0600	Swedish	6065 17505 Mo-Fr
0430-0500	Swedish	9490 Mo-Fr
0500-0700	Swedish	9490 Mo-Fr
0600-0800	Swedish	9490 17505 Sa
0700-0900	Swedish	9490 17505 Su
1000-1010	Swedish	9490 21530 21810
1010-1030	Swedish	9490 21530 21810 Sa/Su
1030-1040	Swedish	18960 21530 21810
1040-1100	Swedish	18960 21530 21810 Sa/Su
1130-1200	English	17505 18960
1200-1215	Swedish	17505 18960
1200-1230	Russian	17810
1215-1230	Swedish	17505 18960 Sa/Su
1215-1230	Swedish	17505 18960 Mo-Fr
1230-1300	English	17505 18960 21530
1300-1315	Swedish	17505 18960
1300-1330	Russian	15245
1315-1330	Swedish	17505 18960 Mo-Fr
1315-1330	Swedish	17505 18960 Sa/Su
1330-1400	English	17505 18960
1400-1430	Russian	12075
1400-1430	Swedish	17505 18960
1430-1445	Estonian	6065
1445-1500	Swedish	18960
1445-1610	Swedish	6065
1500-1530	Swedish	13580
1545-1600	Swedish	13580 17485 Sa/Su
1545-1610	Swedish	13580 17485 Mo-Fr
1600-1615	Estonian	6065 Sa/Su
1615-1630	Latvian	6065
1630-1645	Estonian	6065
1645-1700	Latvian	6065
1700-1715	Estonian	6065
1715-1730	Latvian	6065
1730-1800	English	13580 Su
1730-1800	English	6065 Mo-Sa
1800-1830	Swedish	6065 11905 17505
1830-1900	Russian	5840
1830-1900	German	6065
1830-1930	German	6065 Su
1900-1930	Russian	5840 Mo-Sa
1900-1930	Swedish	6065 Mo-Sa
1930-2000	English	6065
2000-2100	Swedish	6065 13580
2100-2130	Swedish	6065 15255
2130-2200	English	6065 15255

S=Sackville (Volk-GER/BC-DX/Bueschel-GER)

SWITZERLAND Schedule A02 of Swiss Radio International - SRI

0600-0630	French	15445J 17685J 21750S
0630-0700	German	15445J 17685J 21750S
0700-0730	Italian	15445J 17685J 21750S
0730-0800	English	15445J 17685J 21750S

0830-0900	English	21770S
0900-0930	Italian	21770S
0930-1000	German	21770S
1000-1030	French	21770S
1630-1700	Italian	15220J 17735J 21720S 13645S
1700-1730	Arabic	15220J 17735J 21720S
1730-1800	English	15220J 17735J 21720S
1800-1815	French	15220J 17735J 21720S
1830-1900	Italian	13645S 15220J 17580J 17735M
1900-1930	Arabic	13645S 15220J 17580J 17735M
1930-2030	English	13645S 15220J 17580J 17735M
2030-2100	German	13645S 15220J 17580J 17735M
2100-2130	French	13645S 15220J 17580J 17735M
2200-2230	French	9885S 11905M
2230-2300	German	9885S 11905M
2300-2330	Italian	9885S 11905M J=Juelich
2330-2400	English	9885S 11905M

M=Montsinery

S=Sottens

(Andreas Volk - ADDX, via WB/EDXP/Kubiak-GER)

THAILAND *Radio Thailand*, World Service Broadcast Schedule

0000-0030	English	9690
0030-0100	English	15395
0100-0200	Thai	15395
0300-0330	English	15395
0330-0430	Thai	15395
0530-0600	English	21795
1000-1100	Thai	11805
1100-1115	Vietnamese	7260
1115-1130	Khmer	7260
1130-1145	Lao	6030
1145-1200	Burmese	6030
1200-1215	Malaysian	11805
1215-1230	Indonesian	11805
1230-1300	English	9885
1300-1315	Japanese	11850
1315-1330	Mandarin	11850
1330-1400	Thai	11955
1400-1430	English	9830
1800-1900	Thai	9690
1900-2000	English	7155
2000-2015	German	9680
2015-2030	French	9680
2030-2045	English	9680
2045-2115	Thai	9680

(Gupta via GRDXC/Japan Premium/Iwata-JPN)

TUNISIA New schedule for *RTTunisia*

0200-0400	9720 12005
0400-0500	7110 7275 9720 12005
0500-0700	7110 7275
0700-0800	7275
1200-1400	15450 17735
1400-1600	11655 11730 15450 17735
1600-1700	7225 9720 11655 12005
1700-2100	7110 7225 9720 12005
2100-2300	7110 7225 12005

(R BUL Observer, Ivo Ivanov and Angel Datzinov/BC-DX/Bueschel-GER)

UKRAINE *Radio Ukraine International*

0000-0100	Ukrainian	9640
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0000-0100	English	5905 7320 12040
0100-0200	Ukrainian	7320 9640 12040
0200-0300	Ukrainian	7150 7320 9640 12040
0300-0400	Ukrainian	9640 12040
0300-0400	English	7150 12040
0400-0500	Ukrainian	7150 7410 9620 11840
0500-0600	Ukrainian	7150 7410 9620 11705 11840
0600-0700	Ukrainian	7410 9620 11705 11840 13590
0700-0800	Ukrainian	7410 9620 11705 11840 13590
0800-0900	Ukrainian	9620 11705 11840 13590 15520
0900-1000	Ukrainian	11705 11840 13590 15520
1000-1100	Ukrainian	11705 11840 13590 15520
1100-1200	Ukrainian	12045 13590
1100-1200	English	11840 15520
1200-1300	Ukrainian	11840 12045 13590 15520
1300-1400	Ukrainian	12045 13590 15520
1400-1500	Ukrainian	9640 12045 13590
1500-1600	Ukrainian	9640 12045 13590
1600-1700	Ukrainian	5905 6020 7150 9640 12045
1700-1800	Ukrainian	7150 9640
1700-1800	German	5905 6020 11950
1800-1900	Ukrainian	5905 6020 7150 11950
1900-2000	Ukrainian	5905 6020 7150 11705 11950
2000-2100	Ukrainian	7150
2000-2100	German	5905 6020 9950 11950
2100-2200	Ukrainian	
2100-2200	English	5905 6020 9950 11705 11950
2200-2300	Ukrainian	5905 6020 9950 11705 11950
2300-2400	Ukrainian	12040
2300-2400	German	5905 7320 9950

(Gupta via GRDXC Mar23/Japan Premium/Iwata-JPN)

UNITED ARAB EMIRATES A-02 schedule for AWR via Dubai:

0000-0100	Hindi/En	6055
0000-0100	Hindi/En	6025
0230-0300	Dari	6145
0300-0330	Tigrina	11945
0300-0330	Amharic	11975
0300-0400	Russian/En	11775
0330-0400	Somali	11955
1100-1300	Mandarin Ch	17835
1300-1330	Bangla	15320
1300-1400	En/Russian	17740
1330-1400	English	15320
1330-1500	Tam/Tel/Kan	17860
1400-1430	Hindi	17710
1400-1500	Urdu	15320
1430-1500	Sinhala	17630
1500-1530	Nepali	17630
1500-1600	Punjabi/Hindi	13705
1530-1600	Malayalam	17630
1600-1700	Marathi/En	9600
1630-1800	Somi/Afar/Or	17665
1700-1800	Amharic/Tigr	15520

(Ivanov and Datzinov-BUL/BC-DX/Bueschel-GER)

UNITED STATES OF AMERICA Here is the frequency schedule for the summer 2002 season for *World Harvest Radio*:

WHRI ANGEL 1	
0000-1000	7315
1000-1300	9495

1300-1700 15105
1700-2400 9495

WHRI ANGEL 2

1000-1500 6040
1500-2000 13760
2000-1000 5745

KWHR ANGEL 3

0400-1000 17780
1000-1630 9930
2200-0400 17510

KWHR ANGEL 4

0700-1045 11565 Mo/Fr
0700-1300 11565 Sa/Su

WHRA ANGEL 5

0500-1000 11730
0500-2300 17650
2300-0500 7580

All UTC Times for programs move 1 Hour earlier UTC time on WHRI Angels 1 & 2 and on WHRA Angel 5. UTC times on KWHR Angels 3 & 4 will remain the same. (Joe Bashir, via Johnson/Cumbre DX/Toniolo) [*I presume you mean when DST begins? - AQ*]

VIETNAM 5733.8 RadioYen Bai, *1150-1200, reactivated on this new freq drifting from 5767.4 (x4930). ID and tribal mx. Jan 24 on 5733.5. (Schulze DSWCI DXW Jan 23 via Hauser DXLD) Interesting, when I wrote my article about this one for PWBR, the station had been inactive for quite some time so I made no mention of it. It had last been reported in 1999 and first came on the air in 1981. (Johnson Feb 26/Cumbre DX/Fleming)

6496.50v **Cao Bang** 1202 in Vietnamese Heard woman singing. Sometime CW was jammed. Good. (Iwata Mar 10/Cumbre DX/Johnson)

6724 **Lao Cai Broadcasting Station** out of Vietnam at about 2240 UTC, a timing not listed in PWBR. (Lam Mar 8/Cumbre DX/Johnson)

ZIMBABWE ZBC has reactivated its shortwave ops, per their website. (Smith and O'Shea via Hauser DXLD) They will be at full capacity. (Chirume Mar 6 ODXA via Hauser DXLD) Seems to be 24 hrs a day on both 6045 and 5975 (Korinek DXplorer Mar 10 via Hauser DXLD) Well, they were on 6045 when I was in South Africa in October, so ZBC has been on shortwave. 5975 is a reactivation, though. (Johnson Mar 14)

5975 ZBC in period 2000-2230 with relay of one of the domestic service programs, Vernaculars. The other 49 mb outlet 6045 noted in same time period with different network. At 2100, both networks enjoined for news, then split at 2110. 5975 one of the strongest signals on 49 mb, obliterating co-channel Voice of Russia. After 2200, separate programming on both channels, with religious feature on 6045. During our last winter, 6045 reained audible until eventual s/off at 0100, that's 11 am here, four hours after our sunrise! May send a report for 5975 as first time heard this outlet, and might even throw in my vote, if polling is still open...! (Padula EDXP Mar 13/Cumbre DX/Johnson) if polling is still open...! (Padula EDXP Mar 13/Cumbre DX/Johnson)

FOR SALE: AOR AR7030 0-32000 kHz receiver w/Retro Plus Upgrade; UPNB7030 option installed, adding the NB/Notch to the AR7030+; MF500, Collins 500 Hz mechanical CW filter; SM7030, service info package. All work performed by the engineers at AOR (UK) Ltd. Excellent condition. \$895.00 plus shipping. Christopher Downie - PO Box 205, White House, TN 37188. Phone (615) 672-7434 or E-mail <crd@acelink.net>.

Pirate Radio Report

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

Sorry about the missing column last month! The deadline crept up on me and I was not able to get it done. Anyway, welcome to the April issue. I enjoyed meeting a bunch of you at the Winterfest. It was a great time. Those of you that haven't made it yet, why not plan to come next year?

Pirate Radio Stations by Andy Yoder

While I was at the "Fest" I had a chance to stop and chat with Andy and bought a copy of his new book. The ISBN # is 0-07-137563-5 published by McGraw Hill and currently priced at Amazon.com for \$17.47 plus shipping.

This book is the fourth book Andy has written on pirate radio and the third in this series. His first being the hardcover Tab book published in 1990 *Pirate Radio Stations—Tuning In To Underground Broadcasts*. This was followed by another one in 1995, then a book written with Earl T. Gray and then this one. During the 1990's, Yoder and George Zeller also wrote the pirate radio annual directories published by Gerry Dexter's Tiare Publications. Unfortunately, they are a thing of the past.

Anyway, Andy's new book, The Third Edition, covers it all, including The History Of Pirate Radio, Pirate Radio Since 1983, Inside Pirate Radio, European Pirates, International Pirates, Political Pirates, Local and FM pirates, The FCC, QSLing, Computers and Radio and Pirate Equipment. It's a great book and I high recommend it to anyone interested in pirate radio.

Loggings...

Thanks to Ralph Brandi-NJ, Ross Comeau-MA, John Fisher-MA, Tom Hazeltine-WA, Lee Silvi-OH, and George Zeller-OH.

Psyco Radio. 6955 kHz USB from 0231-0328+ on March 17th. Mainly a free form program with some rock, but mainly a disjointed collection of sound clips, noises, and misc.

stuff. Multiple Psyco Radio station IDs and "we want Psyco" chants. Some country and instr mx mixed in here and there. No addr given during the prgm. Discussion of Radio Bob and Psyco Radio, sponsored by Radio Bob shortwave radio whorehouse. [Zeller-OH]


Radio Urantia, another new one? Heard on March 23rd from 0050-0122* on 6925 kHz AM mode. Many IDs and phonetic spellings. [Silvi-OH]

ROZ/Radio Omroep Zuid, the Dutch station was again heard March 16th on 21890 kHz playing rock from around 1970 from 1745-1845*. [Lobdell-MA]

Voice Of Seattle Free Radio is the name of a new West Coast pirate. Noted on March 28th at 0300 UTC on 6950 USB with a program of TV show audio, IDs in voice and cw. Web page given as <http://seattlefreeradio.tripod.com/> [Hazeltine-WA]



Voice Of The [K]Night was logged on 6925 kHz in the AM mode on March 23rd from 0120-0130*. They were giving IDs and announcing a Cornelia, GA maildrop. [Silvi-OH] Oh no, is Ladd back to haunt us, or is this a new station?

WHY? the most active pirate of late, noted here in Massachusetts with their *Post Winterfest 2002 Wrap-up Retrospective Show*. Very funny, with James Brownyard, Jay "Bozo" Smilkstein and the complete *Voice Of Pancho Villa* program played at the end. Noted on 17 March on 6925 kHz AM at 0005 UTC. [Lobdell-MA, Comeau-MA] Ralph Brandi even heard it on the 29th floor of a hotel in downtown Baltimore on his Sony SW100-s portable!

Wreckin' Radio International, the British pirate is seldom heard in North America due to low power, but good conditions on March 17th allowed reception on 12256 kHz at 0250 UTC with an oldies music show on 17th March by Ross Comeau and John Fisher, both of MA. Great going guys! 

QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

 <p>DIRECTORATE GENERAL, ALL INDIA RADIO, A.V. BHAWAN, SANSAD MARG, NEW DELHI-110001, INDIA.</p> <p>No. 3/1/2000EIII/181 Dated. 1.6.2000</p> <p>Dear Sir/Madam,</p> <p>We gratefully acknowledge and confirm your Reception Report.</p> <p>Date 29-8-99 Frequency 8290 kHz Time 1503 UTC Station GANGETK</p> <p>Yours Faithfully, <i>(Signature)</i> Director (Freq. Assignments) (A.K. BHATTNAGAR)</p>	<p>O.I.G.S.</p>  <p>MR. EDWARD L. TILBURY P.O. BOX 90814 ANCHORAGE, ALASKA 99509 USA</p>	<p>ABU DHABI: Adventist World Radio 11945 via Al Dhabayya f/d "Art Contest" cd. w/ ltr. in 5 wks. v/s Guisele Larmonie. Listener Services. (Barto-CT).</p> <p>AUSTRIA: Adventist World Radio 17635 via Moosbrunn f/d cd. w/ ltr. in 2 mo. (Barto-CT).</p> <p>ASIATIC RUSSIA: Kamchatka Rybatskaya 12065 via Petropavlovsk - Kamchatskiy f/d cd. in RS in 3 mo. (Barto) Voice of Russia 12010</p>
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via **Komsomolsk-on-Amur** f/d "A.V. Lentulov Churches" cd. in 2 mo. (Barto). 15595 via **Petropavlovsk** f/d cd. in 2½ mo. (Barto).

AUSTRALIA: Christian Voice International 21680.1 via **Darwin** f/d ltr. w/ schedule in 1½ mo. v/s Mrs. Lorna Manning, Site Administrator. (Barto-CT)

AUSTRIA: Radio Africa International 17815 via **Moosbrunn** f/d cd. in 5 wks. (Barto). **Adventist World Radio** 15195 via **Moosbrunn**

NOTES: Marlin Field in Michigan wishes to thank **Bill Wilkins** for the address of the Dallas - Fort Worth Airport radio station. Marlin requests the address of the TIS station based at the Cleveland International Airport which broadcasts on 1620. Any help?

f/d "AWR QSL Stamp #1" cd. w/ schedule in 1 mo. (Barto).

BONAIRE: Radio Vlaanderen International 11985 f/d "Bругge 2002" cd. w/ schedule and sticker in 41 ds. for 1 IRC. (Barbour-NH)....I received a printout of their Listeners Mail Program with the


transcript a week after the QSL. They had mentioned my ltr. and that of Glotzbach among others.

BRASIL: Radio Gaucha 11915 f/d prepared

cd. w/ station cd. and stickers in 22 ds. for a PT rpt., tape and \$1.00. (Klinck-NY) **Radio Paranaense** 6040 p/d ltr. in 61 ds. for a PT rpt., tape and \$1.00. (Klinck-NY). **ZYG810 Radio Roraima** 4875 and **Super Radio Roraima** 4875 p/d ltr. in 2½ mo. for a PT rpt. Sticker and schedule were rcvd. v/s - Galvao. Soares, Director. (Barto-CT).

BULGARIA: Radio Bulgaria 17500 via **Plovdiv** f/d "Old Bulgarian Architecture" cd. w/ schedule in 63 ds. for 1 IRC. (Barbour-NH).



NAME: George Maroti	Q · S · L
ADDRESS: 21 Prospect	
—MT— Kisco / New York 10549 U. S. A.	
	
P. O. BOX 3939 DOHA-QATAR	

Congratulations!
 Mr. SAMUEL BARTO
 On 16.../02/2002... At 12:37 UTC
 You have picked up our transmission from

Radio Happy Lagoon on 945kHz
 Transmitting atKw

Radio Temotu on 1386kHz
 Transmitting atKw

The National Service on
 1035KHz atKw
 5020KHz atKw ✓
 9545KHz atKw

Visit us on
 www.sibconline.com.sb
 Thank you for your report and wish you
 good DXing.

Signature.....
 02/02/2002

CANADA: CKZU 6160 f/d blue and white
 "CBC" cd. in 2½ mo. v/s Dave New-
 bury. (Barto). **Radio Canada Inter-
 national** 9770 via **Sackville** f/d
 "Marconi" cd. in 1 mo. w/ plastic
 station pennant and schedule. (Bar-
 to-CT). 13655 same cd. in 28 ds.
 v/s Bill Westenhaber. (Barbour-NH)
 Bill sent my \$1.00 back.

CHILE: Christian Voice f/d cd. in 6
 wks. (Lawrenson-RI).

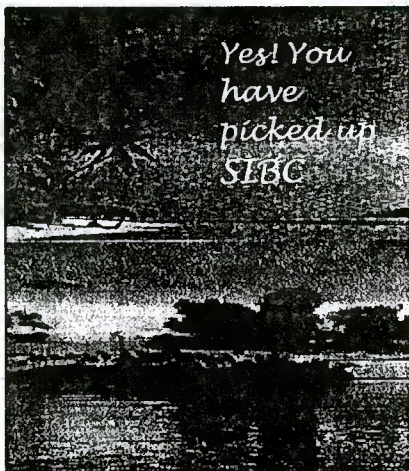
CHINA, PEOPLES REPUBLIC OF: China
Radio International 9690 QSL w/
 postcards in 17 ds. for \$1.00.
 (Smith)...This was probably their
 relay from Spain...Sam.
 15415 and 9760 via **Beijing** f/d cd.
 in 7 wks. w/ stickers. (Barto).
 15500 f/d "Chende Mountain Resort
 and Temples,
 Hebel" cd.
 in 6 wks. (Bar-
 to). 5010
 f/d cd. in 6



NOTES: Scott Barbour Jr. of P.O. Box 893, In-
 tervale, NH 03845 is looking for a valid
 WRNO address. The PWBR address is incorrect.
 Scott joined NASWA in October of 2001 and
 has been DXing for about 3 years. He uses
 a Sangean A7S 818 receiver...Sam. **Jerry Kl-
 inck** says the QSLs are arriving more expedi-
 tiously than expected. The worldwide radio
 community isn't afraid to open mail from
 the US. **Jill Dybka** sent along greetings to
 everyone with some nice contributions. **Paul**
Brouillette also says hello to everyone...Sam.

wks. w/ stickers. (Barto). 17605
 and 17550 f/d "CNR Building" cd
 in 6 wks. (Barto). 15260, 15340
 and 17785 via **Xian** f/d "Ancient
 Buildings of Wudang Mountain in
 Hubei" cd. in 7 wks. (Barto).
 11780 f/d "Wudang Mtn." cd. in
 6½ wks. (Barto). 9880 via **Baoji**
 f/d cd. in 6 wks. (Barto). 11980
 via **Kunming** f/d cd. in 7 wks.
 (Barto). 11875 cd. w/ stickers
 and schedule in 7½ wks. (Barto).
 9550 f/d "Chende Mtn." cd. in 2
 mo. (Barto). 9785 and 7405 via
Jinhua cd. in 9 wks. w/ schedule
 (Barto). 11945 via **Shijiazhuang**
 f/d "Resort and Temples" cd. in
 2½ mo. (Barto-CT). **China Natio-
 nal Radio** 9775, 5010, 7140, 7200
 9810 and 11670 via **Beijing** f/d
 cd. in EG/CH in 2½ mo. (Barto).
 9775 f/d "Gardens of Suzhou Ji-
 angsu" cd. w/ stickers in 6 wks
 (Barto). **CNR-5** 6790 n/d mini-
 ltr. indicating that I heard
 the Zhongyang-Taiwan 2 Service.
 which is a news channel. (D'Ang-
 elo-PA). **Radio Xizang** 11685 via

Yes! You
 have
 picked up
 SIBC



SIBC QSL CARD



TURKMEN RADIO
National Television & Radio
Broadcasting Company of
Turkmenistan



Q Dear *Jerry Klinck*

S Thank you for your reception report. We are pleased to verify your
L reception of Turkmen Radio:

Date of Reception: 1/11/2001
Time: 22:55 - 23:25 UTC
Frequency: 5.015 kHz
Transmitter Power: 20 kilowatts

Signature

Official Seal

Shijiazhuang p/d
ltr. in EG/CH di-
rect from station
in 3 mo. Postcards
were rcvd. (Barto).
Guangxi Foreign
Radio Station 9820
f/d "CNR" cd. in 5
wks. w/ stickers
(Barto-CT).

CLANDESTINE: Voice of
* Biafra Internatio-
nal 12125 QSLed via
Transmitter Docu-
mentation Project
Office in Belgium
w/ f/d cd. in 134
ds. v/s presumably

* Ludo Maes. (D'Angelo-PA). Voice of Freedom and Renewal 6965 p/d cd.
mailed from Eritrea in 3 mo. Use the following address: Mr. Amir
Babiker, Voice of Freedom and Renewal, Secretariat of Culture and
Information, Sudan National Alliance, P.O. Box 9257, Asamara, Eri-
trea....Sam. Rich...do you have a snail mail addr for Biafra?..Sam.

STATION INFO: BBC Eastern Relay Station - Oman v/s David Plater, Chief
Engineer. Addr: P.O. Box 6898, Ruwi, Oman. Radio Pakistan (External
Service) Addr: Pakistan Broadcasting Corporation, Frequency Manage-
ment Cell, National Broadcasting House, Constitution House, Islam-
abad, 44000, Pakistan. Radio Bouganville 3325 v/s Aloysius L. Rum-
ina. Addr: P.O. Box 35,
Bouganville, Papua New
Guinea...via PLAY DX.

RADIO LA HORA

OAX - 71 : 1400 Kcs.
OAZ - 7A : 4858 Kgs.

VOZ 4 IMAGEN DE LA REGION INKA
CUSCO - PERU

CARTA DE CONFIRMACION
-- DE SINTONIA --
EN ONDA CORTA "SW"
Q. S. L.
Radio La Hora Cosco - Peru

Cusco, 20 de Noviembre del 2001

Carta de Confirmación de Sintonía Internacional
Carta de mucha deferencia para el Sr:

JOHN SGRULLETTA

Designado por el Directorio de R. LA HORA CUSCO PERU
como el MEJOR MONITOR Y AMIGO DE LA ESTACION, por lo
que se confiere la presente en RECONOCIMIENTO A SU
VALIOSA COLABORACION CON RADIO LA HORA Y SU DEPARTAMENTO
DE FRECUENCIAS.

CUANDO DESEAMOS SINCERAMENTE TENERLO EN CUSCO PERU
PORQUE NOS ANIMA A JERUIR OPERANDO EN LA BANDA DE 60 METROS

Confiramos la Sintonía de R. La Hora de fecha 10 de Octubre del 2001
con nuestro nuevo transmisor marca Continental de 2Kw.
Hora de 04.52 a 05.35 Hora Nacional de Perú en 4, 8 5 5 KHz

JOHN TO ESPERAMOS CON LAS FUERZAS ABRENCAS EN CUSCO
RADIO LA HORA ES PARTE DE TI, ERES MIEMBRO EDITORIAL
DE LA ESTACION Y EN SU INTERESARIO, CUALQUIER DECISION
SOBRE EL FUTURO DE LA RADIO ES LO MAS BUENO SABER.

Carlos Gonzalez Norcés
Sr. Gerente - N° 411
Calle 14 - CUSCO
PERU

RADIO LA HORA
CUSCO - PERU
DEPTO. DE FRECUENCIAS

OFICINAS Y ESTUDIOS AV. GARCILASO 180 TELEFONOS: 231371 - 226618 APARTADO N° 540.

ECUADOR: HCJB1 3220 La Voz
de Los Andes f/d "Ecu-
dorian Fiestas" cd. w/
calendar, sticker and
schedule in 9 wks. (Bar-
to-CT).

ENGLAND: Radio Canada Inter-
national 6045 via Skel-
ton f/d "Nunavut" cd. in
5 wks. (Barto). f/d "Mar-
coni" cd. in 1 mo. (Barto)
Everest Radio 7235 f/d
"Top of the World" cd. in
1 mo. w/ station info.
sheet. Addr: 226 Green-
ford Ave., Hanwell, Lon-
don, UK W7 3QT. (Barto).

EUROPEAN RUSSIA: Adventist
World Radio 7215 via
Samara cd. w/ ltr. in 2
mo. (Barto).

EURO PIRATES: Radio Europe

* 7306 f/d e-mail in 6
ds. 500 watts. v/s Dar-
io Monferini who pro-
mised a QSL to follow.
(Sgrulletta-NY). Alfa
Lima International
15070 f/d ltr. w/ sta-
tion info. and cd. in

* 1 1/2 mo. (Barto). Radio
Border Hunter 15795 cd.
w/ personal ltr. and
info. sheet in 4 mo.
for \$1.00. 400 watts.

Station is in Baarle-Nassau. (Sgrulletta-NY).
Radio Nova International 6210.2 p/d e-mail
 in 3 hours for an e-mail rpt. 27 watts. v/s
 Terry Philips. QSL to follow. (Sgrulletta-NY).
Free Radio Service Holland 7450 f/d "Logo/
 Studio" cd. w/ personal ltr., sticker and a
 copy of the FRS news in 141 ds. for \$1.00. This
 station started broadcasting in 1980. (D'Angelo).
GABON: Radio Japan 17555 f/d "Winter in the Japanese
 Alps" cd. in 5 wks. w/ newsltr. (Barto-CT).

Radio Singapore International



St. Petersburg
 August 16, 2001

Dear Mr. Richard D'Angelo,

Thank you very much for your reception report!

You really heard our short wave transmission and this letter
 is our official confirmation of this fact:

August 1, 2001
 0200-0300 UTC
 9940 kHz

Radio Studio Doma Radio "Gardarika" started its regular
 short wave broadcasting on February 16, 2001 using a 200
 kW transmitter in the 49-meter band.

Dom Radio "Gardarika" (= Broadcasting House "Gardarika")
 also broadcasts on two FM frequencies here in St.
 Petersburg including 69.05 MHz (0300-2300 UTC) and
 102.4 MHz (24 hours a day).

We hope you will continue to listen in our programs in the
 coming time.

Best regards,

Dmitry Vasilyev
 Short wave project manager



GERMANY: Radio Rainbow
 5910 via Julich ltr.
 from DTK in 3 wks. (Barto).
Radio Huriyo 15715 via Julich
 ltr. from DTK in 3 1/2 wks. (Barto)
Voice of the Lord - Kol Adonai
Foundation 15750 via Julich f/d
 ltr. in 2 mo. from DTK. (Barto).
Hrvatska Radio - Voice of Croatia
 9925 via Julich f/d ltr.
 in 2 1/2 mo. (Barto). Croatian
RadioShortwave 6120 via Julich
 f/d ltr. via DTK in 1 mo. (Barto).
Sudwestrundfunk 7265 via
Rohrdorf f/d "Globe/Logo" cd.
 in 15 ds. v/s Mr. Deiter Langel
 (Barbour-NH). RTBF Internation-
al 9490 via Julich f/d "Target
 Area" cd. w/ FR schedule and
 rpt. forms in 12 ds. (Barbour).
Deutsche Welle 6045 via Wertac-
htal f/d "Stuttgart" cd. in 79
 ds. for \$1.00. (Barbour-NH).

STATION INFO: European Country Rad-
io 6270 Addr: P.F. 10 06 21, DE-
 45806 Gelsenkirchen, Germany.
Mistry Science Radio 6303.5 via
Alfa Lima International Addr: P.O. Box 69, Elkhorn, Nebraska 68022.
Radio Casanova 6200 Addr: P.O. Box 46, NL-7160 AA Neede, Netherlands.
Radio Heideroosje Amateu Zender 6260.6 Addr: P.B. 20, NL-7038 ZH
 Zeddam, Netherlands.....via PLAY DX.....Sam.

High Adventure Ministries - Voice of Hope 15715 via Julich p/d ltr. w/
 / station photo and schedule in 13 ds. for \$1.00. v/s Walter Brodow-
 sky. (Barbour). same in 3 wks. from DTK. (Barto). 21460 f/d ltr. in 1 1/2
 mo. (Barto). IBRA Radio 9405 via Julich f/d ltr. in 3 wks. (Barto).
Voice of Ethiopian Salvation - Ethiopian Mehedin Democratic Party 15670
 via Julich f/d ltr. in 2 mo. (Barto-CT).

GREECE: Voice of Greece 15630 f/d "Athens w/ Lycabettus" cd. w/ schedule
 and a New Year's cd. in 12 ds. for 1 IRC. (Barbour).

GUAM: KTRW 15330 via Merizo f/d "Antenna Farm" cd. w/ schedule and a per-
 sonal ltr.

Mid-West Radio, Ballyhaunis, Co. Mayo, Ireland.
 St. Patrick's Day, March 17th, 1996

We are pleased to confirm your reception report of our historic
 shortwave broadcast of March 17th/18th, 1996, on 11715/7325 kHz.

Thank you for writing to us. Good wishes from Ireland

Michael Commins
 MICHAEL COMMINS
 Programme Producer

MAYO: The Mayo coastline provides a succession of remark-
 able views of golden beaches, cliffs and farrowed headlands.
 Within its rugged borders, scenic charm, pleasant towns and wide
 rolling landscapes. The most distinctive feature of Mayo's
 striking landscape is Croagh Patrick, Ireland's holy mountain,
 which is climbed each year by bare-footed pilgrims in acts of
 religious devotion. Long listed renowned as a holy resort, Mayo
 has an abundance of natural amenities which attract climbing,
 fishing and sailing enthusiasts. Photographs on this card include:
 Slieve Donard, Ashford Castle, Bannagh Croagh Patrick and Croagh
 Patrick.

May
 1996

Printed and Published in Ireland by John Healy Ltd.



RICHARD A. D'ANGELO
2216 BURKEY DRIVE
WYOMING
PA 19610, U.S.A.

in 12 ds.
 for 1 IRC.
 v/s Martha
 Hollis, Aust-
 ralian Office
 (Barbour).
 Imagine, 12
 ds. to Guam/
 Australia. I
 can't get my
 credit cd.
 bill to NJ in
 12 ds. (Bar-
 bour-NH).



GUATEMALA: Radio Amistad 4700 n/d EG ltr. w/ my * signed and stamped prepared cd. in 48 ds. v/s David Daniell, Media Consultant. Also rcvd. a very attractive verification certificate.

HOLLAND: Radio Canada International 9805 via Flevo f/d "Nunavut" cd. in 5 wks. w/ pennant. (Barto). f/d "Marconi" cd. in 1 mo. w/ schedule. (Barto-CT).

HONDURAS: HRPC Radio Luz y Vida 3250 f/d cd. in 3 mo. for a SP rpt. (Barto-CT).

ISRAEL: IBA Reshet Dalet Network 9815 and 5915 n/d blue and white cd. w/ non-verie ltr. in 2 mo. (Barto). **IBA 6280** and 15640 same as above w/ beautiful blue and white cloth pennant in 2 1/2 mo. Same pennant I rcvd. 23 yrs. ago. (Barto). **IBA**

Reshet B Network 17545, 15760 and 11585 same as above in 2 mo. (Barto) 17545 ltr. from Sylvia Rapoport stating that QSLs will no longer be issued w/ schedule in 17 ds. for 1 IRC. (Barbour-NH).

KOREA, PEOPLE'S DEMOCRATIC REPUBLIC

Voice of Korea 9850, 9975, 11335 and 13650 f/d cd. in 2 1/2 mo. w/ brochures. (Barto).

LIBYA: Voice of Africa 15435 and 15415 f/d "Rainbow" cd. in 3 mo. (Barto).

LITHUANIA: Radio Vilnius 9875 f/d "Antenna Tower/Logo" cd. in 40 ds. for 1 IRC. (Brouillette-IL).



RADIO UKRAINE

broadcasts daily in Ukrainian, English, German, Romanian

on 16, 19, 25, 31, 41 and 49 meter bands.

For detailed schedule write to:

RADIO UKRAINE INTERNATIONAL, KYIV, UKRAINE.

STATION INFO: West Coast Radio 6280 Addr: Tulpstraat 10/a, NL-2223 HS Katwijk, The Netherlands. **Xenon Transmitting Company** 7440 Addr: 34B Driftroad, Clanfield, Hants, England PO8 0JL. **Salama Radio International** 15475 v/s Paul Gadzama, Coordinator. Addr: P.O. Box 126, Chessington, Surrey, England. KT9 2WJ.....via Play DX...Sam.

MOLDOVA: Voice of Russia 7180 via Kishinyov f/d "Peoples Friendship Fountain" cd. in 33 ds. for 1 IRC. v/s Elena Osipova, Letters Dept.

Societatea Română de Radiodifuziune

Radio România Internațional

București P.O. Box 111
60-62 G-ral Berthelot
E-Mail: rri@radio.ror.ro
Fax: 40-1-2232613
Tel: 40-1-6303055



August 10th, 2001

Dear Mr Glotzbach *Glotzbach*

Thank you very much for your July 2001 reception report which counts as number 12 towards your 1st year of club membership. Congratulations on completing your annual reception reports and we hope you will continue to send in regular reports throughout next year! Please find enclosed the One Year Diploma and the QSL card verifying your reception report.

We wish you all the best and look forward to further reports and comments on our broadcasts from you.

Very nice personal ltr. (Brouillette-IL). 7125 f/d "A.V. Lentulov" cd in 2 mo. (Barto).

MONGOLIA: Radio Mongolia f/d cd. w/ newspaper, personal ltr., fact sheet and schedule in 5 wks. via registered mail. (Lawrenson-RI).

OMAN (Sultanate of):

Radio Sultanate of Oman 15140 via **Thumrait** f/d folder cd. in 7 wks. (Barto). 15335 same in 1 mo. for \$1 v/s Salim Jamell Al-Nomani. (Sgrulletta).

PERU: Radio San Antonio

* 4940 n/d e-mail response from Gerardo A. Zerdin in 1 day for a f/up e-mail rpt. He said that he will be sending me a certificate but he has just been named Bishop.

Estación Educativa Evangélica "Radio Verdad"
4^a Ave. 2-24, zona 1, Apartado N° 5,
Chiquimula, Guatemala, C.A.
Tel/Fax, home: 502-9-420-362; Tel. office: 502-9-425-689

December the 20th year 2001.

Scott R. Barbour Jr.
P. O. Box 893
Intervale, New Hampshire 03845 EE. UU.

Dear Scott:

Thank you so very much for your report. I am adding your name for sending our new 2002 year calendar, which is being printed. Our station, "Radio Truth", has several million listeners already. It is wonderful that we got a large number of listeners from our first day on the air, and it is increasing daily. I've received reports already from 179 different towns, in 32 countries: Argentina, Australia, Belize, Brasil, Canada (4 different states), Colombia, Cuba, Chile, Dominican Republic, England, Finland, France, Germany, Greenland, Guatemala, Holland, Honduras, India, Italy, Japan, Mexico (3 states), Norway, Peru, Salvador, Sicily Island, South Africa, Spain, Sweden, Switzerland, Ukraine, United States of America (22 different states) and Venezuela, and many more are coming.

The QSL will come but it will take time. (Sgrulletta-NY).
Radio Maranon
4835 n/d personal ltr. via registered mail in 1 mo. after a f/up rpt.v/s Marco Rumiche Purizaca, Periodista. Rcvd a f/d "Logo" cd. w/ calendar. (Sgrulletta). reply

* via e-mail in 27 ds. w/ same v/s as above. (D'Angelo-PA). **Radio San Francisco Solano** 4750 registered ltr. in 1 mo. for ms(not used) w/ address label (used) for my registered ltr. and a tape. I rcvd. a f/d prepared cd. signed by Reverend Padre Isidro Chinchay Jacinto. Also rcvd. personal note from Sumner Mercedes Manchay Santos, the announcer at the time of my reception. The Padre sent 3 photos and a tape of beautiful Marineras and Huaynos music. (Sgrulletta-NY).

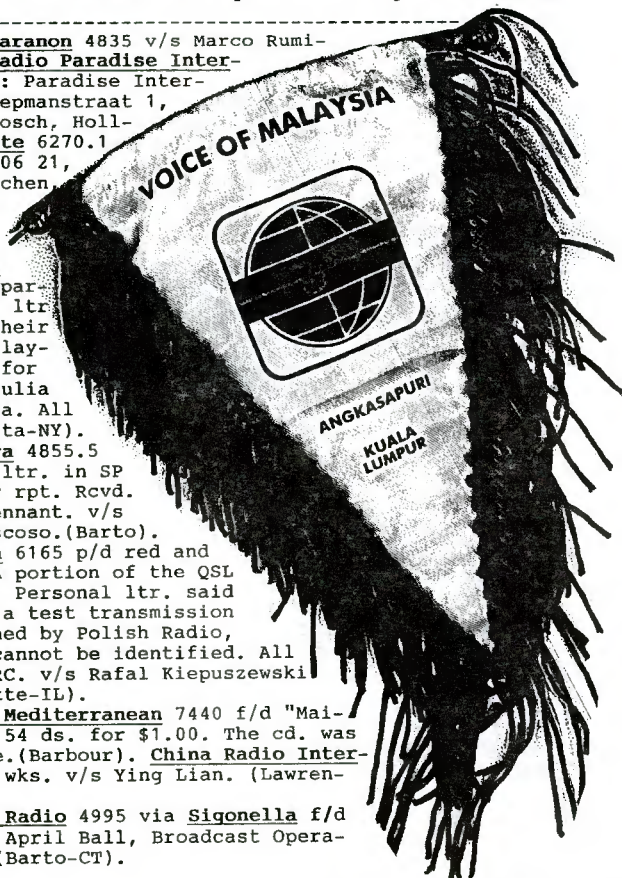
STATION INFO: Radio Maranon 4835 v/s Marco Rumiche, Periodista. **Radio Paradise International** 6315 Addr: Paradise International, Dr. Schaeplanstraat 1, NL-4731 JT Outdenbosch, Holland. **Station Schotte** 6270.1 Addr: ss, P.F. 10 06 21, DE-45806 Gelsenkirchen, Germany...via PLAY DX...Sam.

Radio La Voz de la Selva 4825 f/d prepared cd. w/ personal ltr for one rpt. and their own QSL cd. "Man Playing the Manguere" for another rpt. v/s Julia Jauregui, Directora. All in 2½ mo. (Sgrulletta-NY).
OAX7A Radio La Hora 4855.5 very friendly f/d ltr. in SP in 9 wks. for a SP rpt. Rcvd. beautiful cloth pennant. v/s Carlos Gamarra Moscoso. (Barto).

POLAND: Radio Polonia 6165 p/d red and white "Logo" cd. A portion of the QSL was marked sample. Personal ltr. said this was probably a test transmission but not commissioned by Polish Radio, hence the source cannot be identified. All in 71 ds. for 1 IRC. v/s Rafal Kiepuszewski Editor. (Brouillette-IL).

RUSSIA: Voice of the Mediterranean 7440 f/d "Maidolica Jar" cd. in 54 ds. for \$1.00. The cd. was mailed w/o postage. (Barbour). **China Radio International** cd. in 3 wks. v/s Ying Lian. (Lawrenson-RI).

SICILY: Armed Forces Radio 4995 via **Signonella** f/d ltr. in 2 mo. v/s April Ball, Broadcast Operations Specialist. (Barto-CT).



Estación Educativa Evangélica
"Radio Verdad"

Apartado 5 Chiquimula, Guatemala,
 Centro América 20901

via Klinck and others
 4.0525 Mhz., 74.03 Mts., Banda SW 1

Desde el Monte Horeb y el cerro de
 la Gloria, en San Esteban,
 Chiquimula, Guatemala,
 Centro América.



STATION INFO: Radio Zhejiang 15435 via **Radio Australia** v/s Ying Weilin, International Department. Addr: 111 Moganshan Road, Hangzhou 310005, Peoples Rep. of China. **La Cruz del Sur** 4875 v/s Padre Reyes Baltazar Quispe, Director. Addr: Casilla 1408, La Paz, Bolivia. **Radio Ayopaya** 3344 v/s Lic. Norma Estrada E., Coordinadora / Ing. Jorge Aquino A., Asesor. Addr: Casa de la Cultura, Calle Colon 5, Ayopaya, Independencia, Bolivia. **Radio Difusora Taubate** 4925 v/s Emilio Amaedi Beringhs Neto, Director Superintendente. Addr: Rua Dr. Souza Alves 960, CEP, Sao Paulo Brasil.....via PLAY DX.....Sam.

w/ plastic pennant and sticker. (Barto). f/d "Marconi" cd. in 1 mo. * w/ schedule. (Barto). **La Voz del Pueblo** 5925 via **TERACOM** p/d "Logo" cd. in 1 year (1 mo. after a f/up rpt) for \$2.00. v/s Padre Alfonso Ambrossi. (Sgrulletta-NY).

TAIWAN: Radio Taipei International 9610 via **Taipei** f/d "Decor Dish" cd. w/ schedule, postcards and newspaper in 31 ds. They also returned my \$1.00. (Barbour-NH).

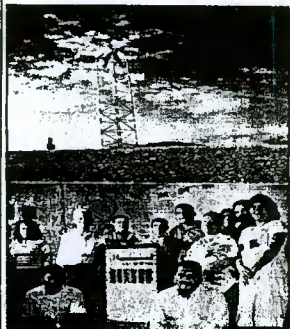
THAILAND: BBC Asia Relay Station 15360 via **Nakhon Sawan** f/d cd. in 47 ds. for 1 IRC. v/s Ms. Sukanya C. (Barbour). 17640 f/d cd. in 1 mo. (Barto). 15470 f/d cd. in 5 wks. (Barto). ltr. via Merlin Communications in London in 5 wks. v/s Michelle Franks, Internal Communica-



tions Assistant. (Lawrenson-RI). **Radio Thailand** 9810 via **Udon Thani** p/d "Thai way of Life" cd. w/ schedule in 68 ds. for \$1.00. (Barbour-NH).

TIBET: Radio Xizang 6200 via **Lhasa** p/d ltr direct from site w/ used CH stamps. (Barto). **Xizang Autonomous Region Broad-**

Q.S.L. CARD



Estación Educativa Evangélica
"RADIO VERDAD"

Apartado Postal 5
 Chiquimula, Guatemala, C.A.
 via Klinck and others
4 Mhz., Banda 75 Mts.

Desde el Monte Horeb
 y el cerro de La Gloria.

"Y conoceréis la Verdad,
 y la Verdad os hará libres"

-Juan 8:32.

Proverbs 4:20. God says: "Dear friend, listen well to my words; turn your ears to my Voice"

Dear Friend,

Thank you for letting us know that you received our transmission.

We confirm that you heard us on:

Date: AUGUST 17, 2001

Time: 11:36 - 11:51 local

Frequency: 98.55 KHz

Transmitter: Continental

418C

We really appreciate your interest and look forward to hearing from you again. More information about us can be found at

<http://www.christian-vision.org>

Postage Stamp

Mark A. Hlumenyk
26 Grearidge Hgts Rd
Weston, Ontario
Canada M9P 1A4

Radio Christian Voice (Zambia) Ltd

Private Bag 2606, Lusaka, Zambia

casting Station 4750 via Lhasa p/d ltr. direct from the station in 3 mo. (Barto-CT).

TURKEY: Voice of Turkey

6020 f/d "Turkish Souvenirs" cd. in 42 ds. for 1 IRC. Schedule was rcvd. (Brouillette-IL).

USA: WCNZ 1660 Marco Island

f/d ltr. in 1 mo. (Barto) WQSN 1660 f/d ltr. in 2 wks. (Barto). KCNZ 1650 ltr. w/ coverage map in 1 mo. (Barto). Radio Carline 7415 via WBCQ f/d "The Planet" cd. in 3 wk (Barto). WRNC/WNML 1670

HELP PLEASE: I have received a QSL from **LS4 Radio Continental S.A.** from 27/11/01 on 20276 khz. It was made out to a **Mr. Arild Skalmaraas**. Does anyone know the address of this DXer so I can forward his QSL....Sam.

p/d cd. in 7 wks. (Barto-CT). **KJES 7555** via **Vado, NM** f/d cd. w/ info on their station in 38 ds. for SASE. (Barbour-NH). **KNLS 11765** via **Anchor Point, Alaska** (where I should of listed it) ltr. in 14 ds. for SASE. v/s Kevin K. Chambers, Director of Engineering. (Barbour-NH). **WINB 12160** f/d cd. w/ schedule in 16 ds. for SASE. v/s Fred W. Wise. (Barbour)...Any indication that this transmission on 12160 comes from Ireland?...Sam. **KXOL 1660** p/d prepared cd. in 1 mo. after a f/up rpt. My SASE was used. v/s Bret Larsen. (Sgrulletta-NY)

VATICAN: Voice of Russia

* **sia 9675** f/d "Monument to Alexander Pushkin" cd. in 40 ds. (D'Angelo-PA).

VIETNAM: Voice of Vietnam

nam f/d cd. in 2 mo (Lawrenson-RI).

Well that just about sums up another QSL Column.

See you next month.

Sam



China Radio



Director: **Richard E. Adams**

Tel 886-22-598-1009
Fax 886-22-598-8348

Field Address
53 Min Chuan West Road 9th Fl
Taipei, Taiwan 10418
Email Address: readams@usa.net

George L. Glotzbach
5 Herrada Court
Sante Fe, NM 87508
USA

Dear George *Gl 11/28/01*

Your reception report on True Light Station, at 1226-1300 UTC on 9450 KHz has been checked and found correct and hereby verified. True Light Station transmitted from Petropavlovsk-Kamchatsky, Russia, with 200 KW of power, antenna type HR 4/4/1, azimuth degrees 263, and targeted towards China.

The station is a religious broadcast aimed at assisting those within China in their spiritual development.

Thank you for listening.

Richard E Adams

Richard E Adams
Director



Net Notes

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

The Winter SWL Festival was a lot of fun. If you didn't attend, you should have. We have pictures, and links to pictures on other Web sites, at swlfest.com. The countdown to 2003 has already begun. Check it out.

The SEC Geophysical Alert Message propagation notice format at H+18 on WWV changed last March 12. Details on the new format are at www.sec.noaa.gov/Data/info/WWVdoc.html

Some of us use instant messaging programs and participate in Internet Relay Chat rooms. For Windows users there is now a nifty one-program solution that "talks" to ICQ, AOL, Yahoo, MSN IM users plus IRC. Rather than run up to five separate programs that can severely drag down system resources, Trillian, from www.trillian.cc, is (in our opinion) a wonderful alternative solution. The program is free, but if you use it I urge you to send a small donation.

Glenn Hauser reported that Radio Ukraine had begun using streaming audio on its Web site, but the Web page link wouldn't work here. The code seems to be a problem with some Netscape browsers. If that's the case, open up the RealAudio player and enter this

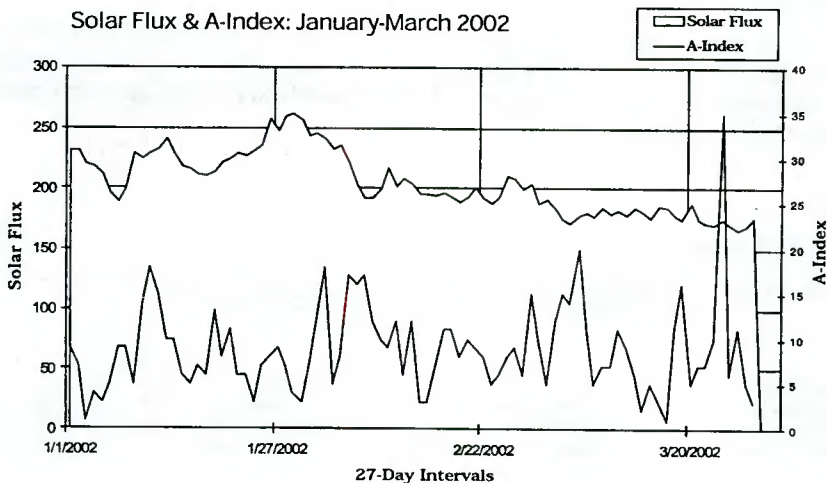
address: <rtsp://real.nrcu.gov.ua:7554/encoder/ru.rm>. Glenn has a lot of DX information, including a list of DX shows, at worldofradio.com. It is recommended reading.

Radio Republik Indonesia is now on the Web at www.rrionline.com. I haven't found any English-language pages yet, but there a streaming audio link to the Voice of Indonesia atop the home page.

If you have a ham radio license and are in the market for a new handheld transceiver and a SW portable, Yaesu has announced the 4-band VX-7. It replaces the 3-band VX-5, and the HF general coverage extends to 30 MHz. Read about it at groups.yahoo.com/group/YAESUVX7

On the home front, there has been a bit of a housecleaning at trsc.com as it was apparent that some older material was not being used. Some reference material was converted to links. The site should be easier to navigate. We continue to add to the modest collection of audio recordings, organized by continent, country and frequency. Perhaps one will help sort out an unidentified signal you are listening to. Your comments are invited.

Solar Flux & A-Index: January-March 2002



Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty3@worldnet.att.net

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	NRD-545 AOR AR-7030 100' LW
Sean BARBOUR, NH	ATS 818, RS antenna system
Jerry BERG, Lexington, MA	R8A 165' LW
Mike BEU, Austin, TX	Drake R8B, terminated delta loop
Ralph BRANDI, Tinton Falls, NJ	AOR7030, R8, 250' longwire
Paul BROUILLETTE, Geneva, IL	Drake R8, ICF2010, 60' long wire
Rich D'ANGELO, Wyomissing, PA	Drake R8B, Lowe HF-150, DX Sloper
Mark FINE, Remington, VA	Drake R8A, 150' longwire
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
Joe HANLON, Phila, PA	SW8, EMF ant., ICF-SW7600G w/active ant.
Mark HUMENYK, Weston, ONT	Magnavox D-2935 AN-60 DX SWL sloper
Fred KOHLBRENNER, Lansdowne, PA	Drake R8
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
Jack LINONIS, w. Middlesex, PA	DX375, DX160A, NCX20, 65' LW Sloper
George MAROTI, Mt. Kisco, NY	R8B, 2010, 30/45 m. dipoles
William McGUIRE, Cheverly, MD	DX-380
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, RX-320, HF150, SE3, active antenna
Ed NEWBURY, Kimball, NE	WJ-1000, R8, 60' sloper, 20' loop
Mike PACE, Tipton, IA	Drake SW2, MFJ1022
Tom WILLIAMSON, Peterborough, ONT	HF-225, R-1000, 60 m. Delta loop, 80' inverted V
Gerald WITHAM, Keaau, HI	R8, 185' split LW, ANC-4
Dan ZIOLKOWSKI, Franklin, WI	RX320, 100' wire antenna

Nice turn out this month. Great time at the Winter Fest. Rich and John did a fantastic job again this year. Lots of new faces at this past Winter Fest. Hope more of you can make it next year. One of few times any of us get to meet fellow DXers. Until next month, keep the logs coming!

73

Bob Montgomery



FOR SALE: "WRTH '97, \$10, 2000 \$18, 2001 \$20. Perry Ferrell's Guides: RTTY Freqs. 2nd Edit. \$5; Confidential Freq. Lists, 5th edit. \$6; 6th edit. \$11; 7th edit. \$13. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann 389 Laurel Heights Lane, Tryon, NC 28782-6643. E-mail aldreh@alltel.net Phone 828 894-3398. No collect calls, please


Tropical Band Loggings

Sheryl Paszkiewicz • 314 Riverview Drive, Apt 16 • Manitowoc, WI 54220 • spaszkiwicz@yahoo.com

- 2310 **AUSTRALIA ABC Alice Springs** 2/26 0935 In English, music program with blues and jazz, hosted by male announcer. Parallel to Tennant Creek on 2325 and Katherine on 2485. 1035-1015 EE broadcast with signal levels of S6 with audible level with male announcer giving the nx after IS. Playing a C&W tune and then male and female announcer with some comments and back to mx. @1019. ID hrd at 1030 by female announcer. (Montgomery-PA)
- 2325 **AUSTRALIA ABC Tennant Creek** 2/5 1014-1025 Mix of Country and pop vocals. Man and woman in EG. Poor, and // 2310, 2485 (Kohl-PA)
- 2410 **NEW GUINEA R. Enga** 2/16 1212 OM in Vern, poor (Lineback-KS)
- 3200 **SWAZILAND Trans World Radio** 3/1 0315 talk in presumed Ndebele, southern African harmony singing, ID and IS on hand bells @ 0331, then off (Brandi-NJ)
- 3205 **NEW GUINEA R. Saundaun** 2/15 1151 OM in Vern w/phone-ins, Fair (Lineback-KS) 2/22 1158 EG program notes, ID, good (Williamson-ON)
- 3215 **MADAGASCAR Adventist World Radio (presumed)** 3/1 0240 talk in presumed Malagasy, church music, IS and possible ID @ 0301; decent at 0240, fading as sunrise comes to Madagascar (Brandi-NJ)
- 3235 **NEW BRITAIN R. West** 2/15 1150 Vern pops poor under ute, (Line-KS)
- 3240 **SWAZILAND Trans World Radio** 2/20 0335 talk in language, ID at close containing phrases "Trans World Radio, Swaziland" and "90 meter band", brief IS, then off (Brandi-NJ)
- 3264.7 **SULAWESI RRI Gorontalo** 3/23 1141 Indo pops, poor (Lineback-KS)
- 3275 **PAPUA R. Southern Highlands** 2/15 1149 EG pops, fair-poor (Lineback-KS) 1202 announcements in lang (Will-ON)
- 3279.5 **ECUADOR LV del Napo** 1/31 0328, SP, Radio Maria px, w/ lots of songs about Mania and ID as R. Maria. Much stronger than usual. Xmtr beefed up by px provider? (Brouillette-IL)
- 3291.3 **GUYANA Voice of Guyana** 2/5 1005 Man and woman in EG, music. ID at 1009. Poor, muffled signal (Kohlbrenner-FCDX/PA) 0856-0916 Jan 31, man with English talk to 0900 when ID and News was heard. This was followed by program previews at 0910. (D'Angelo-PA)
- 3300 **GUATEMALA R Cultural** 1/9 0321 IDs, 50th anniv, religion (Barbour-NH)
- 3310 **BOLIVIA R. Mosoj Chaski** 2/17 0943 OM in lang, very poor (Lineback-KS) 0901-0923 Jan 31, flute music followed by a man with ID and long talk in Quechua language. Later more music and talk. Fair. (D'Angelo-PA)
- 3325 **BOUGAINVILLE R Bougainville** 2/22 1203 anthem similar to 3205 (Will)
- 3325 **KALIMANTAN RRI Palangkaraya** 3/23 1212 2 OM in Indo, fair over Guat, (Lineback-KS)
- 3326 **NIGERIA Radio Nigeria Lagos** 2/22 0525 music, occasional announcements in English, canned ID with music just before TOH, time pips, ID, into national network news (Brandi-NJ)
- 3360 **GUATEMALA La Voz de Nahualá** 3/15 0244-0420* a man announcer with Spanish talk followed by marimba music. Retune at 0400 and going strong with reception much improved from fair with lot's of noise to good. (D'Angelo-PA)
- 3365 **BRAZIL R. Cultura** 2/17 0031-0100 First noted with carrier only at 0000 but recheck at 0031 and audio hrd. Fairly weak but building as time passes. Mostly that of music. S7 carrier level at 0031. Continuous mx with no announcements between tunes. ID tentative. (Montgomery-PA)

- 3366 **GHANA Ghana BC 2** 3/3 2300-2340 ID in EE at toh with nx in EE by female announcer. Fairly nice reception with some fades but crystal clear. Male announcer with comments about the program hoping we will enjoy it. Then to mx prg. S10 level. ID as Radio 2 at 2309 by male announcer and back to more mx. Still audible at 2345 but weaker and static crashes making for a rough copy. News in progress at 2345 in EE. (Mont-PA)
- 3375 **NEW GUINEA R. W. Highlanes** 2/15 1148 EG pops, poor (Line-KS)
- 3380 **MALAWI MBC** 2/7 0342 Talk by YL in lang, Fair (Brandi-NJ)
- 3903U **USA AFN** 2/24 0550 // (and very slightly behind) 10320. Poor signal. Thought by Euro DXers (who hrd it first) to possibly be Sigonella. (Berg-MA) 0045-0110, Mar 3, ID in EE and NA at 0058 usb. Much QRM from hams but let up by 0055 with clear copy at about S5 level. Talks of the space shuttle hrd at 0102 in EE but hams causing much interference. (Montgomery-PA)
- 3905 **NEW IRELAND RNI** 2/22 1134-1203* vern talk, vern pops, off w/NA, poor under AROs, (Lineback-KS)
- 4005 **VATICAN CITY Vatican Radio** 2/22 0617 talk by YL and OM in English, e-mail address, web site address, interval signal, "Laudetur Jesus Christus" into next language program at 0620; lots of RTTY QRM, but still understandable. This transmitter from the grounds of the Vatican itself rather than Sta. Maria de Galleria, using 10 kW according to mail received by Victor Goonetilake from VR's chief engineer (Brandi-NJ)
- 4120.43 **NORTH KOREA V of Nat Salvation** (p) 3/17 1230 very weak, in the clear. Could barely make out audio, sounds like vocal music. (Ziolkowski-WI)
- 4220 **CHINA Qinghai PBS** 2/6, 1240 beautiful flute mx, talk //5990 (Will-ON)
- 4330 **CHINA Xinjiang PBS** 2/6 1152 announcements, Oriental songs 5+1 TP, nx (Will-ON)
- 4450.03 **NORTH KOREA Voice of National Salvation** 3/2 1045 Korean music, occasional talk by YL; // 4120.57 (Brandi-NJ)
- 4525 **CHINA Nei Menggu** 2/1 0032 talk in lang (Will-ON)
- 4755.18 **BRAZIL R.Educaco Rural** 3/3 0000-0030 Mx prg at tune in. ID given at 0015 after long adverts. Portuguese language. Fast talking announcer. Then to short tune and then long talks. Fairly nice signal but with some fading. (Montgomery-PA)
- 4760 **ANDAMAN AIR Pt. Blair** 3/1 1154 talk in lang, Oriental songs (Will-ON)
- 4760 **LIBERIA ELWA** 1/11 2145-2201* EG rel pgming. Choral mx. S/off with NA. Poor-fair. (Alexander-PA) 1/12 0619 EG rel, good morning to Africa (Barbour-NH)
- 4770 **NIGERIA R. Nigeria Kaduna** 3/2 2230, EG, Waf pop music. Weak and noisy. Had been missing from this freq for a long time. (Brouillette-IL) 1/12 0558 EG ID, politics, news (Barbour-NH)
- 4775 **INDIA AIR Imphal** 2/22 1317 subcont vocals, poor (Lineback-KS)
- 4774.96 **SWAZILAND Trans World Radio** 3/5 0345 talk in vernacular, ID and IS @ 0354, then ID "This is Trans World Radio, Swaziland" in English @ 0355, IS back @ 0359, truncated ID and into program in German (Brandi-NJ)
- 4781 **ECUADOR R Oriental** 2/11 1057 long talk abt Napo, Tena, events, IDs & LV del Tena (Will-ON)
- 4810 **ARMENIA V of Armenia** 1/27 0325-0435+ Talk in lang. Lcl pop mx. Lcl choral mx at 0400-0430. NA at 0430 followed by talk in lang & lcl Mx. Fair. 9965 only at *0400-0430* (Alexander-PA)
- 4815 **BRAZIL Radio Difusora Londrina** 1/19 0016-0034 man with Portuguese talk and ID with lively Brazilian pop vocals. Fair but swisher QRM. (D'Angelo-PA)
- 4820 **BOTSWANA Radio Botswana** 1/22 *0254-0313 familiar barnyard IS to choral anthem ay 0259 followed by a man with ID and opening announcements at 0301 and News. (Poor to fair with swisher QRM. (D'An)

- 4820 **INDIA AIR Kolkata** 2/16 1323 subcontinental mx, poor (Lineback-KS) 3/1 0023 tone, IS (Will)
- 4830 **HONDURAS R. Litoral** 2/10 2338, SP, Catholic Mass, fair w/ Codar QRM (Brouillette-IL)
- 4832 **HONDURAS Radio Litoral** 3/15 0225-0241 continuous vocals until excited man gave ID and brief Spanish talk followed choir vocals and more talks mentioning the station. Fair. (D'Angelo-PA)
- 4834.9 **PERU Radio Maranon** 1/22 1055-1104 lively Peruvian vocals until 1059 ID and talk by a man in Spanish. At 1100, TC and a woman with another ID followed by a man and a woman with news. Fair. (D'Angelo-PA)
- 4835 **MALI RTV Maliene** 3/2 2245, lang, local folk mx px. 5995 much better. (Brouillette-IL) 2335-0002* Mar 16, Man with French talk and a program of highlife music until brief ID and sign off followed by marching band national anthem. Fair and on //5995 but //4783 was poor. (D'Angelo-PA) 2331-2400, Feb 16 In FF language with lots of great mx. Awesome signal level and clearly heard at this time while //5995 just about there with much splatter from adjacent channel. 10/s9 levels with peaks near 15 over. Continuous mx thru toh. Male announcer with brief intro to next tune at 2348 in FF. More announcements at 2354 with mx playing in background. NA at 0000 and off 0001. (Montgomery-PA)
- 4840 **INDIA AIR Mumbai** 2/22 1313 subcont vocals, poor (Lineback-KS) 3/1 0014 tone, IS, Vande Mataram, anmnts (Will-ON)
- 4845 **MAURITANIA R. Mauritania** 2/10 2345, AR, two OM's playing local guitar mx and apparently discussing technique, phrasing, etc. Local quality signal!! (Brouillette-IL)
- 4860 **INDIA AIR Delhi** 2/16 1327 OM in EG w/px anmts, Fair //3365 poor, (Lineback-KS)
- 4865, **BRAZIL UNID** 1/19 0034, PT, M&W leading group 'in Catholic prayers w/ people phoning their prayer requests. Lots of Hall Mary's. Ments of Brazil. At 0100 launching into an evening devotional called Boa Noite Brasil. No ID hrd. (Brouillette-IL)
- 4874.6 **IRIAN JAYA RRI Sorong** 2/11 1133-1221+ Indo pops and western instrumentals, poor-rising to fair, RRI nx @1200, (Lineback-KS)
- 4880 **INDIA AIR Lucknow** 3/1 0017 tone, IS, Vande Mataram (Will-ON)
- 4890 **PAPUA National R.** 2/15 1153 OM in EG, good (Lineback-KS)
- 4915 **GHANA GBC** 2/10 2355, EG, W w/ nx, ID. Would've been a great signal but for strong Codar QRM and CCI Brazil, (Brouillette-IL)
- 4920 **INDIA AIR Chennai** 1/20 0047 Regional mx, Fair (Brandi-NJ)
- 4925 **BRAZIL Rdf Taubate** 2/12 2257 ID, talk abt carnival (Will-ON)
- 4935 **BRAZIL R Capixaba** 2/8 0030 rel pgm, ID, slogan, garbled audio (Will-ON)
- 4950 **ANGOLA Radio Nacional** 3/18 0335-0408 pop and rap music hosted by a woman announcer with Portuguese talks, ID followed by 5 time pips at 0400 and news. Fair. (D'Angelo-PA)
- 4965 **ZAMBIA Radio Christian Voice** 2/5 2146-2205 Religious vocals, woman in EG. ID at 2202 (Kohlbrenner-FCDX/PA)
- 4970 **INDIA AIR Shillong** 2/16 1323 subcontinental mx, poor (Lineback-KS)
- 4970 **SAUDI ARABIA BSKSA** 2/12 0345 Arabic talk by OM and YL, Arabic music; // 9580, ½ subharmonic; surprising to hear subharmonic peaking at S7, but there you go.... (Brandi-NJ)
- 4975 **UNID** 1/17 0042 SP Beatles mx, BBC nx, ment Pacifico & Colombia (Barbour-NH) Must be Radio del Pacifico—sp
- 4980 **CHINA Qinghai PBS** 2/23 1213 talks, fair (Will-ON)
- 4980, **VENEZUELA Ecos del Torbes** 2/11 0000, SP, old romantic LArn tunes. Weak but very clear sig. (Brouillette-IL)

- 4990 **INDIA AIR Itanagar** 2/16 1324 subcontinental mx, poor (Lineback-KS)
- 4991 **SURINAME Radio Apintie** 3/3 0432-0450 romantic vocal followed by a man with ID and presumed ads followed by pop music. Poor to fair. (D'Angelo-PA)
- 5005 **NEPAL Radio Nepal** 2/28 2313 possible IS heard in splash from 5009.8, then ID popping out of the noise @ 2315 "Yo Nepal"; very poor, little heard but the IS and ID (Brandi-NJ)
- 5009.8 **DOMINICAN REP R. Cristal Int.** 2/11 0005, SP, mix of 60's and 70's US and LAM pop tunes. M announcer ment R.Cristal several times in passing. (Brouillette-II.)
- 5019.9 **SOLOMON ISL SIBC** 2/10 1400 BBC nx //15190 w/slight delay, Fair (Lineback-KS) fair at early 0850 Feb 17, local pops, talk in apparent Pidgin 0856 thru ToH, EG 0901, seeming religious vocals 0902; improving. (Berg-MA)
- 5025 **BENIN Radio Parakou** 2/28 2158 music, in clear after Tashkent s/off @ 2158, brief pause at 2200, ID "Radio Parakou" and some talk by OM in French at 2201, more music, national anthem @ 2300 (Brandi-NJ)
- 5025 **UZBEKISTAN Radio Tashkent** 2/28 2130 ID, news in English, music, another ID, feature about theater, music alternating with talk, more IDs, carrier off @ 2158; mixing with Parakou in French, but dominant (Brandi-NJ)
- 5030 **BURKINA FASO RTV Burkina** 3/16 2315 upbeat mx prgm, talk by man, occasional ments. of Ougadougou, sounded very professional. Very strong, like Mauritania but with better audio. However, ended prgm at 2359 and followed with a couple of minutes of their very interesting IS (with what sounds like birds in the background), same IS as on the Dave Kernick IS website, then off with no ID or NA. (Berg-MA) 2334-, Mar 11 A number of tunes and male announcer with intros in FF at tune in. ID hrd at 2357 then to a few comments and NA then off at 0000. Excellent signal at 10/s9 with some fades. Male announcer in French. (Montgomery-PA)
- 5035.1 **BRAZIL R.Aparecida** 3/3 0010-0025+ PT talk by M/W. Brief mx breaks. 6135, 9630.17 - all good. (Alexander-PA)
- 5035 **VIETNAM Voice of Vietnam** 2/5 1220-1240 man and woman in presumed Hmong, asian vocals. // 6165 (Kohlbrenner-FCDX/PA)
- 5500 **ERITREA Voice of Peace and Democracy of Eritrea** (presumed) 1/22 *0312-0351 instrumental music opening followed by opening announcements by a man and apparent news. Program consisting mainly of talks with short musical segments. Man with apparent sign off announcement at 0351. At 0354 familiar Voice of Tigray Revolution IS heard with station opening at 0359:30. Good signal //6350 fair with some UTE QRM. (D'Angelo-PA)
- 5678 **PERU R.Iluca** 3/3 0030-0115+ OA folk mx, SP anmts, talk. ID. Fair. (Alexander-PA) 2355-2345, Mar 3 Nice mx played in SS. Weak but audilble at this time. (Montgomery-PA)
- 5770 **NICARAGUA R.Miskut** 1/4 2340-2400* reduced carrier USB. Irr - not hd every nite. Tune-in to SP VOA nx pgm with VOA IDS & VOA theme mx. S/off with call letters, R.Miskut ID & NA. Fair. (Alexander-PA) 

We are changing the e-mail address at NASWA Headquarters. The new address is naswa@worldnet.att.net. The old Earthlink address will remain open for a few more months, but you will probably get faster replies with the new Worldnet address.

International Band Loggings


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- 5970 **BELARUS R Minsk** in EG *0259-0336, s/on w/IS & multi-lingual ID's, sked, nx, lcl mx, adjacent channel splatter, //7210 better (Alexander PA 3/2, D'Angelo PA 3/16)
- 59752 **COLOMBIA R Autentica** in SP 0925-1005, relig tlk, choir vcls, ID, sked, nx, f (D'Angelo PA 2/17)
- 5990 **CUBA R China Int** relay in EG 2325, feature on Spring festival, g (Fraser MA 2/12)
- 5995 **MALI RTV Malienne** in AR/FR 2245, lcl folk mx, pop mx, ID, vg, //4835, f (Brouillette IL 3/2)
- 6020 **MADAGASCAR R Nederlands** relay in DT 1705, nx, rpts, ment Africa, ID, QRM (Witham HI 2/1)
- 6115 **JAPAN R Tampa NSB Tokyo 2** in JP 0845, continuous instrm'l mx, ID, tlk pgms, f (D'Angelo 2/27)
- 6150 **NORTHERN CYPRUS R Bayrak** in TK 2157, audible after China s/off, group songs, trumpet fanfare classical orch mx, ancmt, NA to 2202*, f (Berg MA 3/1) ED: Excellent catch, only 12 1/2 kw.)
- 62494 **EQUATORIAL GUINEA R Nacional** in SP 2202-2227+, apparently running late with tlks and hilife vocals, p-f (D'Angelo PA) ED: Apologies for mis-typing fqy for this one as 61494 last month.
- 6399 **NORTH KOREA Pyongyang BS Kanggye** in KR 1132, march mx, tlks, opera, f (Ziolkowski WI 3/3)
- 6520 **NORTH KOREA V of Korea** in JP 1150, tlk, mx w/tlk over, opera song, weak (Ziolkowski WI 3/3)
- 6536 **PERU R Dif Huancabamba** in SP 2357-0058*, exc'd anc'r w/ID, OA folk mx, promos, many ments of Huancabamba, abrupt s/off, no NA, good but over-modulated (Alexander 3/3, Montgomery 3/3)
- 67975 **PERU R Ondas del Rio Mayo** in SP 0105-0158*, rustic OA folk mx, many ID's, f (Alexander 1/5)
- 6940 **ETHIOPIA R Fana** Addis Ababa in Amheric 0358, Horn of Africa mx, ID 0400, nx, indigenous vcls from 0410, p-f but RTTY made lsb a must, //6210 stronger & no QRM (D'Angelo PA 1/21)
- 69567v **PERU L Voz del Campesino** Huarmaca in SP 0030, OA folk mx, ancmts, ID, s/off with NA, not on the air every nite and irregular s/off times (Alexander PA, Beu TX)
- 6973 **ISRAEL Galei Zahal** Jerusalem in HB 0215, classic rock format, f (Beu TX 1/13) ED: listed as 5 kw
- 7115 **INDIA AIR Panaji** in Farsi 1725, indigenous mx, tlk, off at 1730 as VOIRI, Iran signs on with their NA and ID, Panaji signal and //9910 Aligarh both poor (Witham HI 2/1)
- 72103 **BENIN R Benin** Cotonou in FR 2155, ment'g many FR overseas territories and former colonies, ID at 2210, into Afro pop mx, occasionally hemmed in by ham QRM, mostly good (Brandi NJ 2/18)
- 7250 **RUSSIA V of Russia** via Armavir relay in EG *0200, pips, NA, ID, national nx, rpt on railroad crash in Egypt, g (McGuire MD 2/21)
- 7325 **AUSTRIA RAI** in EG 0230, waltz mx, ID, rpt on Euro currency, g (McGuire MD 3/3)
- 7340 **RUSSIA V of Russia** Moscow in EG 1915, "Commonwealth Update" abt the Russian economy and promoting free market reforms, tlk re Afghanistan, ID, //7335, both poor (Witham HI 2/14)
- 7400 **BULGARIA R Bulgaria** in EG/BG 0055, ending EG xmsn 0100 after pgm on BG underground, QTH IS, ID, into BG programming 0100, g (McGuire MD 2/20)
- 7475 **GREECE V of Greece** Avlis in GK 0340, GK mx, tone 0345, pause, back at 0355 w/ID's, another pause and tone, NA, nx, g, //5865 p (Witham HI 2/14)
- 9280v nf **MEXICO R Mexico Int** in SP 0045-0310+, still hrd around this fqy w/xmtr problems, hrd since early Jan, LA mx, tlks, strong, very distorted wideband signal, better on // 11770 (Alexander PA 2-16)
- 9460 **TURKEY V of Turkey** in TK *2200, pips, ID, fqy, sked, national nx, g (McGuire MD 3/3)
- 9535 **THAILAND R Thailand** in FR 2015, nx, cmntry, into EG 2015, nx, ID's, f (Alexander PA 2/16)
- 9615 **ALASKA KNLS** Anchor Point in EG/CH 1042, message on spring festival in both langs, into CH pgmg at 1043, tlks, ID 1100 and into RS language & exceptional mx (Montgomery PA 2/14)
- 9620 **THAILAND R Liberty** relay in RS 2055, tlk, "Svabota" ID, more tlks, web site, p (Witham HI 2/9)
- 9650 **SOUTH AFRICA Adventist World R** relay in EG 0420, hymns, tlk by African-accented OM and YL, ID 0426, mx, s/off 0427 (Brandi NJ 2/12)
- 9690 **GREECE VOA** relay Kavala in EG 2013, rpt on oil prices in Africa, nx re E Bola virus in the Congo, //6095, p-f (Humenyk ONT)
- 9700 **ANTIGUA Deut Welle** relay in EG 0125, tlk re Belgian energy systems, exc (Pace IA 3/1)
- 9710 **GERMANY Deut Welle** Wertachtel in SH *0300, IS, ID, nx, ment Saudi Arabia, g (McGuire 2/27)

- 9765 **VATICAN CITY V of Russia** relay in EG 0228, tlk re rifles/guns, VOR hit parade (Humenyk ONT)
- 9770 **SRI LANKA SLBC** Colombo in EG 0050-0120+, lite instrum'ts, ID's, TC's, relig pgm 0115, //15425
9770 weak but in the clear until 0100 wipe out by D Welle relay s/on 9765 (Alexander PA 2-17)
- 9805 **IRAN VOIRI** Sirjan in RS 1940, nx, ID's, pop mx, tlks, g, //7205 p (Witham HI 2/9)
- 9835 **HUNGARY R Budapest** in EG 0330, tlk re Hungary's relationships with European Union, efforts by Hungary to clean up corruption (Linonis PA 2/27, Newbury NE 2/18)
- 9850 **GREECE VOA** relay Kavala in EG *0100, IS, ID, "News Now", rpt on Mideast (McGuire MD 3/5)
- 9855 **KUWAIT R Kuwait** in AR 2310, phone-in show, National Day special pgm (Brouillette IL 2/24)
- 9870 **RWANDA D Welle** Kigali in GM 0315, nx, ment Geo Bush, tlks, g, //15205 exc(Witham HI 2/11)
- 9925 **GERMANY Croatian R** relay Juelich in EG *0330, nx abt Croatia's differences with European Policies (Linonis PA 2/24)
- 9960 **ARMENIA R Intercontinental** Yerevan in GM *1858, IS, mx, ID, choir vcls, long relig tlk, s/off with closing ancmts including ID and fqy, f, QRN (D'Angelo PA 2/9)
- 10330 **INDIA AIR New Delhi** VB in HD 0108, ID in EG 0112, into HD w/local mx, strong signal w/QRN from occasional rtyy (Montgomery PA 2/20)
- 11335 **NORTH KOREA V of Korea** Kujang in SP 2200, IS, ID, fanfare, pgm preview?, martial hymn 2204, then more tlk from YL at 2207, f (Hanlon PA 2/16)
- 11650 **AUSTRALIA R Australia** in EG 1150, tlk about Australian economy, ID (Linonis PA 2/24)
- 11785 **INDONESIA V of Indonesia** Jakarta in EG 2000-2057*, nx, ID's, local pop mx, probably replacing 15150 no longer hrd, g (Alexander PA 2/16)
- 11787 **IRAQ R Baghdad** in EG 2007, nx, Mideast mx, ID 2012, tlks abt U.N., cmntry on weapons of mass destruction, strong signal but low audio, poor modulation (Montgomery PA 3/10)
- 11795 **PHILIPPINES R Veritas Asia** in Tamil 0050, nx? ment India, America, Geo Bush, IS, ID in EG, brief program schedule, p (Witham HI 2/1)
- 11815 **BRAZIL R Brasil Central** Goiania in PT 2250, cmntry, long tlks, songs, nx, ID, f-p (Humenyk ONT)
- 11890 **IRAN VOIRI** Kamalabad in IT 1935, prayers, tlk, fqys, sked, ment Italia, //9615 (Witham HI 2/9)
- 11970 **JAPAN R Japan** Tokyo in RS 1845, tlks, NHK ID, ment Moscow, QTH, g (Witham HI 2/1)
- 11990 **KUWAIT R Kuwait** in EG 2031, US/Brit pop rock/rap mx, ID 2050, nx (Newbury NE 2/2)
- 13605 **GERMANY D Welle** Nauen in EG 1640, "Spectrum" pgm abt the use of morphineto reduce pain, its advantages and disadvantages, ID, off at 1645, p, //11695, f (Witham HI 2/16)
- 13640 **CANADA R Telefis Eirann** relay Sackville in EG 1847, Irish political nx, promos for credit card and boat show, nx: traffic piled up, exc (Newbury NE 2/27)
- 13675 **BOTSWANA VOA** relay in Oromo 1850, nx, rpt w/EG translation, ment of E. Africa, IS, ID, heard over U.A.E. on same fqy, g, //17640 Thailand, p (Witham HI 2/1)
- 13695 **THAILAND R Thailand** in EG *0030, nx, feature on lcl culture, ID's, sports nx, g (Alexander 2/17)
- 13710 **GERMANY R Vlaanderen** relay Juelich in EG 1835, phone interview abt mobile fones and short-wave radios, f (Humenyk ONT)
- 13765 **VATICAN CITY Vatican R** in EG 2000, IS, ID, religious nx, //9645,9660, 11625, f (Humenyk ONT)
- 13800 **NORWAY R Denmark** relay in DN 1745, tlk, discussions until 1755*, p, //13800, f (Witham HI 2/1)
- 15110 **KUWAIT R Kuwait** in EG 0615, pgm abt Sheik Mohammed Wahab and Islam (Linonis PA 2/18)
- 15120 **NIGERIA V of Nigeria** Ikorodu in EG *1859-1932+, pgm abt the local animal kingdom, hi-life mx., good signal (Alexander PA) in EG *0500, IS, ID, nx, Afro-pop mx, discussion on "Who Are the Nigerians" (Linonis PA 2/26)
- 151846 **EQUATORIAL GUINEA R Africa** in EG 2110-2257*, US produced relig pgm, relig mx, fire and brimstone preacher, abrupt s/off, fair level but distorted audio (Alexander PA)
- 15190 **PHILIPPINES R Pilipinas** Tinang in Filipino 1730-1929*, ID's in EG, pgming in Filipino, local mx, s/off ancmts in EG, f, no //s heard (Alexander PA 2/16)
- 15215 **SOUTH AFRICA Channel Africa** in EG 0506, feature on health people checking Angolian children for polio virus, g (Newbury NE 2/2)
- 15235 **VATICAN CITY Vatican R** in CH 1230, carillon bells IS, ID, into Mass in CH (Linonis PA 2/18)
- 15240 **MOROCCO VOA** relay in EG 1859, "News Now", promo for "Kaleidascope", f (Humenyk ONT)
- 15270 **ARMENIA V of Armenia** in GM 0850, nx, features, into EG 0910, Suns only xmsns (Hanlon PA 3/3)
- 15295 **SOUTH AFRICA Adventist World R** relay in EG 2045, "Wavescan" pgm at tune in, strong signal w/slight fades, ID hrd at 2045 (Montgomery PA 3/10)

- 154355 **LIBYA V of Africa** Sabrata in EG 1819, ID's, nx, //17750. Station carries nx in EG from 1819-1821, 1920-1922, 2032-2039, 2117-2119, and 0026-0028 (Alexander PA 2/16-17)
- 15465 **PHILIPPINES FEBC** in Burmese*2330, IS, EG ID, Christian pgm in Burmese, g (Brouillette IL 2/11)
- 15515 **AUSTRALIA R Australia** in EG 0528, folk mx: vocals w/guitar, piano concerto, f (Newbury 2/17)
- 15550 **CHINA CNR Beijing 1** in CH 2328, tlk, dramatized pub svce ancmnt, CH mx (Brouillette IL 2/11)
- 15820 lsb **ARGENTINA R Continental** in SP 2354, live soccer match, ID, ad string, tango mx, pips, noticias, nx (D'Angelo PA 2/17, Brandi NJ 2/23)
- 174949 **USA WBCQ** Kennebunk, ME in EG 0115, Allan Weiner Worldwide, talking abt old console radios including ancient Scott superheterodyne receiver, //7415 (Brandi NJ 3/2)
- 17645 **AUSTRALIA Christian Voice** relay Darwin in EG 0445, pgm abt evolution and New Age movement, interview with reformed New Age priest, relig mx, into CH 0505, p (Witham HI 2/11)
- 17660 **FRENCH GUIANA Swiss R Int** relay in AR 1905, nx, rpts., mentions of Saddam, Iraq, & Saudia, march mx, Swiss mx, exc, //15485 poor from Germany relay (Witham HI 2/9)
- 17850 **AUSTRALIA R Australia** in EG 0745, rpt on Winter Olympic Games, g, //15240 (Fraser MA 2/20)
- 21680 **AUSTRALIA Christian Voice Int** Darwin in EG 0123, contemporary Christian mx, relig messages, ID's, //17645 after s/on at 0130, both fqys weak (Alexander PA 1/27)
- 21840 **GERMANY Deut Welle** Wertachtel in EG 1619, cmntry abt forestry matters, wood infestations etc. exc (Humenyk ONT)

Clandestine, Tentative, Presumed, or Unknown

- 6005 **UNIDENTIFIED** in JP? 2305-2335+, drama? sounded like a teen daughter screaming endlessly at her mother who was trying to calm her, occasional bits of rock mx, never strong enough to ID language (Brouillette IL 3/3) ED: Possibility is home service at Sapporo, Japan with 625 watts. Keep trying!
- 6150 **SINGAPORE(p) R Singapore?** in EG? 1232, nx? by YL, very weak signal (Ziolkowski WI 3/3)
- 6300 **TAIWAN(p) WYFR** relay(p) in CH? 1119, OM in slow tlk, lang lesson?, vp (Ziolkowski WI 3/3)
- 6350nf **ETHIOPIA V of the Tigray Revolution** in Tigrinya *0354, ex-6315, s/on w/IS, then into tlk, local mx, best in usb due to ute QRM (Alexander PA 1/19, Beu TX 1/24)
- 66738 **PERU(p) R Super Nueva Sensacion(p)** in SP 0030-0115+, OA folk mx, anmts, weak (Alexander 3/3) ED: Small wonder reception was weak with 200 watts xmtr (output equal to two reading lamps!)
- 6715 **UNIDENTIFIED** in KR? 2203-2327*, Christian church service w/hallelujah's and amens, moderately animated preacher w/piano mx in background, occasional relig mx, "How Great Thou Art" at 2324, seemingly not a daily pgm, good signal w/some light ute QRM (Berg MA 3/1)
- 6900 **TURKEY(p) Turkish Meteorology Radio** (p) in TK? 0528-0603, non-stop vcls, p-f (D'Angelo 2/10)
- 6937 **CHINA(t) R Yunnan** Kunming(t) in CH 2320-0045, flute mx, brief ancmnts, sudden fade to noise floor at 2335 and back at much reduced level at 2348, no ID possible (Montgomery PA 3/2)
- 7100 **IRAN V of the Islamic Revolution** at Ahwaz in AR *0330-0400+, Koran, Mideast mx, strong signal, //11660 also strong and 9790 fair, mixing w/France (Alexander PA 1/19)
- 8700 **AFGHANISTAN PysOps Information Radio** in Pashto 0207, being received nightly in Texas, pgms broadcast from US aircraft flying above Afghanistan with feeds from xmtr in Turkmenistan, regional music and ancmnts (Beu TX 2/9)
- 11530 **RUSSIA Denge Mesopotamia** relay Samara in Kurdish 1655, regional vcls, numerous ID's over mx, abruptly off at 1700, f (Witham HI 2/9) ED: Clandestine listed daily from 0500-1700.
- 11695nf **FRANCE(site presumed) R Tripoli** Libya relay in AR 1815, Mideast mx, prayers, tlk, mention of Jamahiriyyah, //15615 France relay, //15660 France relay and best of three (Witham HI 2/14)
- 12110nf **RUSSIA V of Tigrrians** via Samara in Tigrinya? 1830, tlk, ment Iran, Talibans, G. Bush, pop vcl, clandestine w/programming hostile to Ethiopian govt., g (Witham HI 2/16) ED: Believe this one is now listed as Dejen Radio on 12120 bcsting on Sats only.
- 15485 **PAKISTAN(t) R Pakistan** Islamabad(t) in Urdu 0120-0200, mx sounded like AR-type, long tlks, ment of Pakistan hrd twice around 0200 (Montgomery PA 2/12) 

NOTICE, PLEASE: Last month's cover featuring Bayrak Radio International came from George Maroti of Mt. Kisco, NY. A very nice catch, George.

WORLD OF RADIO, CONTINENT OF MEDIA, MUNDO RADIAL
ANTICIPATED BROADCAST SCHEDULE EFFECTIVE APRIL 7, 2002

It always pays to check all RFPI frequencies beyond their scheduled hours.
Schedule shown is nominal, but it is not unusual for one transmitter to be
down. 7445 may be on AM or USB.

For latest updates see our Anomaly Alert page:
<http://www.worldofradio.com/anomaly.html>

Days and times here are strictly UT.

Wed 2330 WOR WBCQ 7415 [first airing of each edition]
Thu 0500 WOR WBCQ 7415
Thu 2030 WOR WWCR 15685
Fri 1900 COM RFPI 21815-USB
Fri 1930 WOR RFPI 21815-USB
Fri 2115 MR WWCR 15685
Fri 2230 WOR Studio X, Momigno, Italy 1584 87.35 96.55 105.55
Sat 0100 COM RFPI 15039 7445
Sat 0130 WOR RFPI 15039 7445
Sat 0500 WOR R. LavaLamp, Osaka, Japan, internet:
<http://www.rinku.zaq.ne.jp/bkaec205/index.html> [may run late]
Sat 0500 WOR WWCR 5070
Sat 0700 COM RFPI 7445-USB
Sat 0730 WOR RFPI 7445-USB
Sat 0800 WOR WRN1 to Europe, Australia, NZ, WorldSpace AfriStar, AsiaStar
Sat 0855 WOR WNQM Nashville TN 1300
Sat 1300 COM RFPI 21815-USB
Sat 1330 WOR RFPI 21815-USB
Sat 1400 WOR WRN to North America, also WLIO-TV Lima OH SAP [or Sun]
Sat 1700 WOR R. LavaLamp, Osaka, Japan, internet:
<http://www.rinku.zaq.ne.jp/bkaec205/index.html> [may run late]
Sat 1730 COM RFPI 21815-USB
Sat 1800 WOR RFPI 21815-USB
Sat 1828 WOR WPKN Bridgeport CT 89.5 [week delay]
Sat 2330 COM RFPI 21815-USB 15039
Sun 0000 WOR RFPI 21815-USB 15039
Sun 0230 WOR WWCR 5070
Sun 0500 WOR R. LavaLamp, Osaka, Japan, internet:
<http://www.rinku.zaq.ne.jp/bkaec205/index.html> [may run late]
Sun 0530 COM RFPI 15039 7445-USB
Sun 0600 WOR RFPI 7445-USB
Sun 0628 WOR WWCR 3210
Sun 1130 COM RFPI 7445-USB
Sun 1200 WOR RFPI 21815-USB
Sun 1400 WOR WRN to North America, also WLIO-TV Lima OH SAP [or Sat]
Sun 1700 WOR R. LavaLamp, Osaka, Japan, internet:
<http://www.rinku.zaq.ne.jp/bkaec205/index.html> [may run late]
Sun 1730 WOR Studio X, Momigno, Italy 1584 87.35 96.55 105.55
Sun 1730 COM RFPI 21815-USB [sometimes as substitute]
Sun 1830 WOR RFPI 21815-USB [often as substitute; or 1800]
Sun 2330 COM RFPI 21815-USB 15039 [sometimes as substitute]
Mon 0000 WOR WWCR 3210
Mon 0030 WOR RFPI 21815-USB 15039 [often as substitute; or 0000]
Mon 0330 WOR WSUI Iowa City IA 910 [week delay]
Mon 0500 WOR WWCR 3210
Mon 0530 COM RFPI 15039 7445-USB [sometimes as substitute]
Mon 0630 WOR RFPI 7445-USB [often as substitute; or 0600]
Mon 1230 WOR RFPI 21815-USB [often as substitute; or 1200]
Tue 1900 WOR RFPI 21815-USB
Tue 2000 COM RFPI 21815-USB 15039
Wed 0100 WOR RFPI 21815-USB 15039
Wed 0200 COM RFPI 15039 7445
Wed 0700 WOR RFPI 7445-USB
Wed 0800 COM RFPI 7445-USB [or try webcast]
Wed 0930 WOR WWCR 9475
Wed 1300 WOR RFPI 21815-USB
Wed 1400 COM RFPI 21815-USB

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All s/h charges for the following items are included unless otherwise noted. Please note the new proprietor and address.

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The Vacuum Tube Era Reviews the golden years of vacuum tube receivers, 1932-1981. If you feel real radios glow in the dark, this is for you! 141 pages.	\$17.00 +1.50 s/h worldwide
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The NASWA Reprint List and Propagation Predictor are no longer available.

Make checks payable in U.S. funds to "The NASWA Company Store."



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