

NASA

the
JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXIV, Number 10

October, 1994



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THE WORLD PRESS SERVICES FREQUENCIES

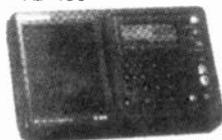
By Thomas Harrington. Lists RTTY press stations. Three different master frequency lists: by time, by frequency and by country and press service. Chapters also review antennas, receivers and RTTY equipment. The original world press services book. Fifth Edition ©1991 *Universal Electronics* 84 p.
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NASWA Notes

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

Listening conditions continue to improve as we move into the DX season. From some early personal observations, this should be a great season behind the dials. It's time for the Gifford Pinchot DXpedition gang to spring into action. Last season, we had a number of reports from various DXpeditions during the course of the season. Please keep the *Journal* in mind as you undertake your DXpedition. Remember to keep some notes for that report you have been meaning to write for the *Journal*. Either a Musing or a separate article will do. Articles can go either to Shortwave Center editor Hans Johnson or to Bob Brown for the DXers Forum. By sharing our DX experiences with others we will be encouraging more activity!

Country List Committee Chairman Don Jensen (5204 70th Street, Kenosha, WI 53142) informs me that his committee is back in session considering the latest developments in the world for possible updates to the club's country list. The committee meets on a periodic, as needed, basis but at least once a year to review the ever changing political situation as it unfolds. Don seeks

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Net Controls Bob Brown KW3F, Hausie WB4JSP, and Tom Sundstrom W2XQ, host an always lively gang of DX monitors. (Best heard in the eastern half of NAm)

member input into the process and will be providing semi-annual reports of the committee's deliberations. Look for the first report in December with subsequent reports every six months. Besides Don, the following club members serve on the Country List Committee: Jerry Berg, John Bryant, David Clark, Harold Cones, Gerry Dexter, and John Herkimer. These gents put a lot of scholarly thought into the task of developing and maintaining the standard list which is recognized worldwide.

Welcome to the following new NASWA members -

Mark Connelly, Billerica, MA
Dan Dankert N6PEQ, Tustin, CA
Charles Devaux, Torrington, CT
Jill Dybka, Nashville, TN
Donna G. Ellis, Spicewood, TX
Dr. Michael Friedman, Fort Lee, NJ
Amanda Glockner, Allentown, PA
Scott I. Jerris, Morgantown, WV
Kevin W. Johnson, Milwaukee, WI
Manfred Klapp, El Paso, TX

Richard Kowalczyk, Toronto, ON
CANADA
Rolland Lindblade, Omaha, NE
Terry Loewenberg, Idaho Falls, ID
Gary R. Rose, Springdale, AR
J. Villarreal, Mandeville, LA
Tim Worthington, Mahone Bay, NS
CANADA
William E. Young, Newark, DE
Kevin Zynda, Depew, NY

Our Motto is - "Unity and Friendship"

I hope you have been enjoying some of the recent covers of the *Journal*. Thanks to member Fred Kohlbrenner, publisher Bill Oliver has a generous supply of interesting radio station pennants from around the world to display on the cover. I was inspired by Fred's efforts to dig out one or two radio station pennants to send Bill too! If any member comes across an interesting item that would make a good cover for the *Journal*, send a black and white copy to our publisher. If the copy will reproduce and space permits, your contribution could be on the cover of your favorite DX publication!!

From member Mark Meece, who also happens to be a member of ANARC's Executive Council, comes the following update on the Voice of America situation. The possibility of VOA Bethany being closed down, and Greenville being reduced to 50% is very real. Consequently, Mark has started an extensive letter writing campaign to the local Congressman and Senators in Ohio. Although Mark is not sure what effect it will have, he reasons we might be able to save it with some effort. The addresses of the local politicians to write to are as follows:

John A. Boehner
Ohio 8th District Representative
1020 Longworth, House Office Building,
Washington, D.C. 20515

Senator John H. Glenn Jr. and
Senator Howard Metzenbaum
Senate Office Building
Washington, D.C. 20510

Your own congressman can be reach at that address as well!

Just as we were going to press, I received a last minute telephone call from club member, and VOA employee, John Vodenik about the VOA situation. John indicates there is plenty of sympathy in Congress for keeping the VOA's stateside capability strong. Now, more than ever, your support is needed. Don't forget to write today.

Finally, the 1994 Monitoring Times Convention will be held in just a few short weeks. This is the fifth edition of southern hospitality which will be held October 21-23, 1994 at the Atlanta Airport Hilton, Atlanta, GA. Registration is US\$50.00 plus US\$21.95 additional for the banquet. Contact Monitoring Times at P. O. Box 98, Brasstown, NC 28902 or 800-438-8155 for more information or to register.

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

Calendar Of Events

- Oct 15 - The Miami Valley DX Club (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC (614) 471-9973 Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Oct 18 - Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. For info send SASE to: NE Ohio SWLs, c/o Donald J. Weber, P.O. Box 652, Westlake, OH 44145-0652
- Oct 21 - Meeting, Philadelphia Area NASWA Chapter. Kulpville Holiday Inn, Kulpville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Oct 21 - Meeting, The Boston Area NASWA Chapter, 7:30 P.M. Friday, October 21, 1994; Our new meeting location is The Lexington Club, Route 4/225, Lexington, Mass. The new location is 1/4 mile West of Route 128 exit 31. For more information contact: Paul Graveline - Telephone: (508) 470-1971 or Internet: 74007.3434@Compuserve.com. You may also use the Boston Area SWL section on Tom's BBS at (617) 356-3538.
- Nov 6 - The Tidewater SWLs meet on the first Sunday of each month at 6:30 PM. For info, call Joe Buch, (804) 721-2782.

Members are invited to submit items to be included in this calendar to Bob Brown.

Musings

This column provides a forum wheras 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 soley those of the submitters.

Bruce Lindner, 10603 SE Home Ave., Milwaukie, OR 97222

Back in 1988, I decided that it was time to replace my trusty old Sony ICF 6800 as my primary receiver. It was a great sounding radio, but wasn't quite as good at flushing out the micro stations as some of the newer radios of the day. The one prerequisite for my new radio would be that it be "basic". Not in the sense that it be without the usual bells and whistles, such as PBT, or keypad entry, but I really didn't want things like remote control, built in reading lights, or portability. I wanted a good reliable DX machine. So, after carefully comparing the ICOM R71A with the Kenwood R5000, I finally chose the Kenwood. (I have never had such a tough choice.) Well, a year later I got into this RTTY jazz that was so prevalent in the HF bands back then. TASS, the Iraqi News Agency, Cuba, China, everyone was transmitting their propaganda to us by teletype! I could print it out, and read it at my leisure, just like the Sunday papers. Next I read about radio FAX. Wow, the thought of printing out pictures from other countries and weather maps sounded too cool, so that was my next gadget. It was fun for a while, but most of the traffic has since left for higher frequencies. You know, the ones out of the R5000's range? Anyway, I can still use it for the occasional NOAA weather report. Then I discovered Radio/Computer Interface. So once again I was spending my hard earned shekels on another toy for my "simple" radio. I have to admit though, that one was worth every bit! (see Musings Feb.'94) Then came an outboard spectrum display analyzer. A pretty slick device that allows you to view on a small screen all the nearby stations to your tuned frequency with an adjustable range of 100 Khz to as broad as 10 Mhz. And just recently I ordered an outboard Sherwood SE3 synchronous detector. It hasn't arrived yet, but I can assure you that when it does, I will be firmly planted in my DX chair for a long time while I get acquainted with it.

So, as you can imagine, my "shack" looks like...well, just that. Lots of wires and cables, three CRT's and little black boxes strewn around the room. I think the local power company officials wring their hands and start planning their retirement whenever I start a DX session. I mean when I boot up the computer and turn everything on, I get the feeling my neighbors suffer brownouts. Hey! What's more important, logging Bhutan or watching Bryant Gumble?!

So, you might be asking what's the moral of all this? Well, I'm not too sure. My "simple" radio is itself virtually unchanged. But all of the peripheral equipment has added such a new dimension to my once svelte little receiver, that it's now bloated into a whole new device. Don't get me wrong, I've spent hundreds of hours listening, reading, printing, viewing, and soon...synching to my radio. But it's kind of like the innocence of my initial purchase is gone. You know, the way you felt a little bit guilty when you gave up your old tube radio for a solid state. Sort of a right of passing, it'll never be the same. And you know what? I don't hear any stations now that I couldn't hear before. Whaddya know?

James Snow, 100 Fox Meadows Dr. E-20, Murray, KY 42071-2880

Enclosed is my check, 25 dollars, to renew my subscription, at my age, 79, one can look forward only for a short while. I guess not too many listeners remember the Gene Tunney, Jack Dempsey fight heard on a borrowed crystal set.

This new "Information Line" so avidly promoted by the Clinton Administration and by Murdoch, the Publisher, seems like a suckers dream. The idea of "Big Brother" looking down the stars directly in my home is repulsive, and is frightening as well. A few years ago someone wrote that a single ballistic missile, fired in the atmosphere of the USA, would

cause every computer to quit operation. The late model cars give more ignition and electrical problems than ever experienced in 13 years, and 130,000 miles on a '39 Chevy. The "features" so bragged on cars and radios are a bunch of "hype". Your Bulletin and the one in Canada, which I also belong, and M/T are my main sources of information. I have given up QSL trying, but record any interesting stations, the QSL card is so uncertain, I will not send a follow-up. The latest issue of the Canadian station has a reprint from a South Africa Club, about the DX possibilities of reception on portables, I predict that the mail will warm from owners of these portables. Anyway, thanks to all the writers and contributors to an A-one publication.

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

In June's NASWA Portraits column there was a profile of a club member from New Orleans, Chris. As luck would have the D'Angelo's had a trip to New Orleans booked when the JOURNAL arrived in Wyomissing. Unfortunately, Chris was out of town... in fact, out of the country, hi! I did manage to hear the remainder of the Silver Leaf Jazz Band which was excellent. Oh yeah, I almost forgot. Chris is Chris Tyle. Catch you next time Chris!

FRENDX: Twenty Five Years Ago....

Bill Eddings welcomes two new editors: Bill Matthews is the new Shortwave Center-Features editor and Bob Hagerman is the new NewsRoom editor. Bill informs members that Log Report may be co-edited in the future. Among the new members was James Young of Wrightwood, CA. Renewing members included: Gordon Nelson (3rd year), Bob Padula and Andy Rugg (4th year), Marlin Field (5th year) and August Balbi (6th year). Awards Chairman Warren Nordgren informed the members that Robert Hagerman earned the 100 countries Worldwide DXer award and Stanley Mayo the 75 countries Worldwide DX award and the Europe, 28 countries award. A special 4 page feature by Bill Murray and Price Kagey reviewed the Heatkit SB-310 receiver. In the Shortwave Center, Gregg Calkin presented the first part of The Art of Verifying. Mike Macken wrote about 40 years of shortwave broadcasting in Germany while Art Palmer talked about Radio Station Peace and Progress. Radio Canada's failed expansion plans was the big story in the NewsRoom column. Fifty-four reporters contributed to QSL Report with David Alpert, Craig Calkin, Gerry Dexter, Bob Estand, Dr. Earle Hall, Ed Insinger, Mike Macken, Bob Padula, George Schnabel, Bob Shepard, Alvin Sizer, and William Sparks among the notables. The featured QSL OF THE MONTH was the Voice of Hope; a Korean army station operating on 6,170 kHz from the collection of Bill Sparks. Dan Ferguson's Log Report saw contributions from 49 reporters which included: Ernest Behr, Gregg Calkin, Gerry Dexter, Bob Estand, Dan Ferguson, Marlin Field, Del Hirst, Mike Macken, Henry Michalenska, Al Niblack, David Potter, Sam Rowell, Al Sizer, Bill Sparks, John Tuchscherer, Bob Wilkner, and Dr. Tom Williamson. In Al Niblack's Flashsheet, 24 reporters provided the latest in hot DX with Ernie Behr reporting a new station, Radio Mexico on 11,719 kHz.

Easy Listening

Richard D. Cuff
213 Parkview Avenue
Allentown, PA 18104-5323
GENie R.CUFF
MCI Mail 375-4854
Prodigy NCH70A

Deutsche Welle

It's election season in Germany, and the Bundestag election this year will be a bellwether for the future of Germany's various political parties. *Insight* on October 11th (1500 and 1900 UTC African releases) and 12th (0300 North American release, 0900 Pacific release, 1600 South Asian Release, 2100 West African release) will preview the elections. Current affairs programs on October 16th (election day) and the following days will also cover election developments.

The world's biggest book fair will be in Frankfurt from October 5th to 10th, and *Backdrop* will feature coverage on October 11th (0100 and 0500 North American releases).

Many listeners were expecting *German Why Not?* to begin course number 4 this autumn, but Deutsche Welle has chosen to repeat the advanced course Number 3. The fourth series will follow in 1995, but Deutsche Welle's program schedule doesn't say when in '95. If you already participate and have received course materials for course Number 3, you will automatically receive the fourth book. If you haven't participated before, write Deutsche Welle to get on the mailing list. You'll need to specifically request the course material – just getting on Deutsche Welle's general mailing list doesn't get you the course information.

While Hartz Mountain may be a pet supplies company in the USA, the Harz Mountains in north central Germany offer peaks more than 3,000 feet high. The resort town of Bad Harzburg is profiled on *Living In Germany* October 10th (North American releases).

HCJB Today

I recently sampled *HCJB Today*, a program of news and features about HCJB and its

various ministries. HCJB is more than just a shortwave radio station, and *HCJB Today*, airing to North America 0230 UTC Mondays, 0700 to Europe, and 0830 to the South Pacific, is a good way to get a feel for HCJB's various activities.

BBC World Service

My October *BBC Worldwide* arrived Thursday, September 22nd, barely in time for October program highlights to make it into this month's column. Thanks to Ralph Brandi for giving me an extra day to finish the column!

Turkey Season

No, not the bird, the country. Turkey and Turkish culture are featured in October on the World Service.

Sundays, beginning October 2nd, 2330: *Turkey Today* is a three-part 30-minute series taking the pulse of Turkey today, talking to politicians, academics, and businessmen about the key issues affecting the country. First airing Sundays 1401; also repeated Mondays 0630 and 1001.

Tuesdays, 2215: *Megamix* joins in the Turkish Season with a series on popular music in Turkey and how it contends with the powerful influences of traditional Islamic fundamentalism. First airing Tuesdays 1130; also repeated Tuesdays 1615 and Wednesdays 0830.

Sunday, October 9th, 0230: *Atatürk: The Man And The Myth* is a single 30-minute program examining the legacy of the man who built modern Turkey. Was he a hero for promoting women's equality and secularizing the Turkish state, or a villain for banning the traditional fez and abolishing the Arabic script? Repeated Sunday 1615, Monday 0730.

Monday through Friday, October 10th through 21st, 1430: *Off The Shelf* features *Portrait of Turkey 1717*, written by Lady Mary Wortley Montagu in 1717 when she accompanied her husband on a peacemaking mission to Turkey. The book is a series of letters home, and the letters are chatty, stylish, sometimes flirtatious and always informative. The ten-part series first airs weekdays at 0430; also repeated weekdays at 0715.

Fridays, beginning October 14th, 1215: *Heritage* returns as a six-part 30-minute series exploring the archaeology of Turkey and the middle eastern region. The 'lost' wall of Constantinople, the world's oldest known shipwreck, and the ancient Jordanian city of Petra are also featured. First airing Fridays 0730; also repeated Fridays 1930.

Sundays, October 16th and 23rd, 0101: *Play Of The Week* has two entries in honor of the Turkish season. *The Mikado Game*, by Melih Cevdet Anday, airing the 16th, takes its title from a children's game in which one has to lift brightly colored sticks from a pile without disturbing the others. *Human Landscapes* is the crowning achievement of Turkey's greatest 20th-century poet Nazim Hikmet. The storyteller sets himself up as the objective observer of a wide cross-section of Turkish society fanning out from Haydar Pasha train station in Istanbul. *Play Of The Week* is repeated Sundays at 1201 and 1901.

Sundays, beginning October 16th, 0230: *Creeds, Councils and Controversies* is a four-part 30-minute series exploring four significant aspects of Turkey's religious past and present. The conversion of Constantinople, the later church councils, and the Turkish Islamic empire are profiled. Repeated Sundays 1615, Mondays 0730.

Wednesdays, beginning October 19th, 0130: *Turkey: An Ethnic Mosaic* is a five-part 15-minute series looking at the more than 40 ethnic groups inhabiting Turkey. Each contributes to the general picture, yet each also has a distinct color. Also repeated Wednesdays 0930 and 1715.

Sunday, October 23rd, 1401: A Turkish Season Phone-In is scheduled; details weren't available at *BBC Worldwide* presstime; listen to the World Service for promotional announcements. For the two most recent Phone-ins prior to this, one could phone in a question after 1200 on the day of the broadcast; for those two Phone-Ins, the number was the international access code plus 44-71-379-7444. You might also try the BBC's Internet mailing address, iac@bbc-ibar.demon.co.uk.

Sunday, October 30th, 2330: *The Turkish Diaspora* is a single 30-minute program looking at the two million-strong Turkish community in Germany. Violent attacks on Turkish homes in Germany have underscored the fact that Turks are regarded as outsiders, yet they don't fit in when they go "home" for a visit, either. First airing Sunday 1401; also repeated Monday 0630 and 1001.

Other News and Features

Mondays, beginning October 3rd, 0101: *The Path To Power* is a four-part 30-minute series looks at the way to the top in Britain, the USA, and South Africa. The right schools, the right clubs, the right political party all are signposts on the path. Paradoxically, John Major didn't take the normal path through Eton, Oxford, and Cambridge; while Bill Clinton did go to Yale, his family didn't have the wealth normally associated with the landed gentry attending those schools. The route to power in South Africa was dramatically altered with the abolition of apartheid. First airing Saturdays 1901; also repeated Mondays 1515.

Mondays, beginning October 3rd, 0130: *A Letter From Nikolina Gora* is a four-part 15-minute series reporting from the extraordinary Russian village of Nikolina Gora, 40 miles from Moscow, where the Russian elite live. Current residents include Boris Yeltsin, legendary pianist Sviatoslav Richter, and chess champion Anatoly Karpov. Stalin, Gorbachev, and Yekolev have all lived there. First airing Saturdays 1930; also repeated Mondays 1545.

Music

Saturdays, beginning October 1st, 2330: *Cole Porter* is a three-part 30-minute series of documentaries tracing his career from its earliest days to his final works in the late '50s, featuring a rich mixture of interviews, anecdotes, and music. Also repeated Tuesdays 1030 and Fridays 1715.

Mondays, beginning October 3rd, 2215: *The Motown Legacy* is a four-part 30-minute series chronicling the discovery of more than one thousand tape boxes in the company's Hollywood archive. Repeated Tuesdays 0630, Wednesdays 1615, and Fridays 1030.

Monday, October 31st, 0101: *Peter Warlock* is a single 45-minute program profiling the English composer born 100 years ago in October. His most popular composition is the *Capriol Suite*, arrangements of 16th-century French dance tunes. First airing Saturday 1901; also repeated Monday 1515.

Light Entertainment

Thursdays, beginning October 7th, 2330: What makes a March hare mad? Why don't baby sea horses know whether to say 'Mommy' or 'Daddy'? *The Litmus Test* is a returning four-part 30-minute quiz show on science, with questions posed to the Pink and Blue teams. First airing Wednesdays 1530; also repeated Thursdays 1030.

Continuing from September

Here are some of the special programs that began in September that are continuing in October:

Wednesdays, 1235: *Among My Souvenirs* is a 10-minute program continuing in October that looks at the key inanimate items one would rescue if their house were on fire and they had only two minutes to collect things. Among the personalities interviewed are political leader Neil Kinnock and *Outlook* presenter John Tidmarsh. First airing Mondays 1635; also repeated Tuesdays 0750.

Tuesdays, 0230: *Counterpoint* is the 30-minute quiz series taking over the *Brain of Britain* time slot. The subject matter is

popular music. First airing Sundays 2030; repeated Mondays 1215.

Mondays, 0445: *Blues World* is a 15-minute program looking at 75 years of recorded blues music, from Robert Johnson to Robert Cray, from Bessie Smith to Bonnie Raitt. Writer and broadcaster Tony Russell hosts. First airing Sundays 2015; also repeated Mondays 0915.

Other Regular Features

Other regularly scheduled BBC features include the following:

People And Politics, Fridays 2215, Saturdays 0230 and 0730, is a 30-minute weekly look at background stories to Britain's political scene. I enjoy comparing the structure and function of British political institutions to those in the USA.

From Our Own Correspondent, Saturdays 1830, Sundays 0330 and 0730; second weekly program Wednesdays 1515 repeated Thursdays 1615, 2215, provides BBC correspondents to delve into current affairs in more detail than their normal sound "bites" found in *Newsdesk* or other current affairs programs. The correspondents themselves enjoy having the opportunity to report in greater detail.

Please Help

I tend to be a "mainstream" shortwave listener, so I rarely tune in to the politically conservative programming on WWCW, nor the politically liberal programming on Radio For Peace International. I'd like to report on programs from both stations here, but I need your help to do so. If you have favorite programs on these stations, or other shortwave stations, for that matter, please drop me a line. I'll be happy to share your recommendations and observations in the column.

Until next month,

73 DE Richard

Shortwave Center

Hans Johnson
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Columbia, MD 21046
CompuServe: 73042.3644
Internet: 73042.3644@compuserve.com

Hello fellow Shortwavers—We have a good lineup this month. Keep in mind that the length and quality of this column are up to you so keep those contributions rolling in.

73

Hans

First this month, Carl Mann checks in with a visit he made to KNLS in Alaska—

KNLS: A modern station in the Wilds of Alaska

by Carl Mann

Alaska is a difficult catch for many shortwave listeners. At least until 1983 when KNLS came on with some "northern exposure" for dial twisters. KNLS stands for New Life Station. It's owned and operated by World Christian Broadcasting, though the religious message in its programming is kept very low-key. Programming is produced near Nashville (no connection with WWCN), then sent to the transmitter site near Anchor Point, located on the Kenai Peninsula, about 120 miles S.E. of Anchorage. The station comes to life nightly (local time) for 9 hours of Russian and Chinese, plus an hour of English. The signal is directed to the Far East and former Soviet Union, an easy reach from here. Japan once was on the program schedule, but was dropped for economic reasons despite its popularity.

The highway follows the west coast of the Kenai, and just 5 miles beyond Anchor Point at mile marker 160 is the gravel road that goes up and inland towards KNLS. Winding around, the two towers supporting the curtain array quickly come into view among the trees. Then a clearing is reached and the KNLS single story building appears just as on their QSL, with the twin 365-foot towers directly behind it. Also on the site are two modules that served as living quarters for the staff when a larger crew was required for

operation. Now they are used for guests. Visitors are likely to be welcomed by Kevin Chambers, who has been with KNLS since the station first signed on. Kevin moved to Alaska from Oregon and started part time in helping build and test the site. He's now the Chief Engineer. The building is modern, with once busy offices and lounge. In today's digital world, only one person is needed to run the entire station. The control room still has open-reel tape decks and cart machines, but the console is unmanned, running programs from a computer.

KNLS has developed a 350 thousand dollar leap forward in programming automation during the past 5 years. Programs are produced in studios near Nashville in Franklin, Tennessee, and the studio-to-transmitter link is UPS. A week's worth of programs, 7 DAT cassettes, fit nicely into the weekly envelope shipped from Tennessee. Where once the overnight engineer manually played tapes and ID/IS carts over a ten hour shift, the entire 10 hours is now on one digital cassette. It contains the programs in sequence along with airing instructions. The computer screen (with a small radio tower emanating waves as a cursor) shows the schedule, what's playing, and the times of items already aired. Once the cassette for the day is loaded up and the computer booted, the programming just watches the WWV-tuned clock, and starts

each show right on time while saving the running program log on disk. At the Tennessee studios, each 10-hour cassette takes only about an hour to produce as digital technology can compress dubbing times of the library programs.

Nice, but what about attending the transmitter, with frequency changes and antenna skewing? Operators can sleep through that too, with a second computer. It controls the 100 kW Harris transmitter that hums in its huge bay (big enough for a second transmitter some day) which controls room overlooks. Watching the same WWV-tuned clock as programming, Computer Two can sign on, switch frequencies, re-tune, and even adjust beam headings right on schedule. It keeps the transmitter readings fine-tuned using servos, all while displaying these functions and readings in real time on its own computer screen. A hard copy printer runs off readings every half hour. With the computer up and loaded for the full broadcast day, the engineer can turn to other things, then later turn in for the night in an adjoining private room, responding to alarms if problems arise.

Outside, the perfectly square curtain array is directed at 300 degrees, with skewing capability of 15 and 30 degrees in either direction. The 4 tons of wiring making up dipoles and reflectors in the array have counterweights on each side to adjust for icing and wind loads. The array, accepting delivery of 12 thousand volts at 8 amps from the Harris transmitter finals, gives it an additional kick at 22 db forward gain to its targets.

During construction, nobody really knew how shortwave signals would behave originating from the polar region. Turns out, no problem at all. A small log periodic antenna on the north side of the building has a zero-degree heading straight over the North Pole. Though no longer used, it once generated good reports from Scandinavia and Northern Europe, with fair reports on the signal's second bounce toward the Mediterranean.

The success of KNLS can be seen with the stack of mail received each day sporting exotic stamps from everywhere, mostly from the Far East and Russia. For a while KNLS volunteers assisted the Anchor Point post office with the new problem of being swamped with letters addressed in Russian.

Kevin is also the Frequency Coordinator for KNLS, and does his own computations using reports from a set of regular monitors to make frequency decisions as the sunspots go thru their 11 year cycle. The monitors are trained in checking all potential frequencies in any given band, and Kevin insists on a sampling of 7 consecutive days before making a reliable decision. As a result, KNLS is well respected on 7355, 9615, and 11580 khz, but admittedly may have problems on any other selected channels.

While many bemoan the future of shortwave going the way of satellites and FM networks, Kevin champions the band, believing that digital broadcast technology will revive shortwave one day giving it parity with AM and even FM. As Kevin notes, reaching their target on FM would be cost-prohibitive, though World Christian Broadcasting does buy air time on some Russian outlets. In his travels visiting station monitors, he's been surprised by locals who react to his mention of KNLS. Though he notes more recognition of KNLS in rural areas than in the more competitive urban areas, it's enough to convince him, once a skeptic about shortwave, that this is the way to reach millions.

KNLS is a good QSLers. Write Kevin Chambers at P.O. Box 473, Anchor Point, AK 99556, or Mike Osborne at the Operations Center, 605 Bradley Court, Franklin, TN 37064-8200. (This story is based on the author's May, 1994 tour of KNLS, Anchor Point, Alaska)

Next this month is a fun item sent in by Karl Forth of Chicago. Thanks Karl!

How to Log Ogasawara and Lakshadweep

Hearing and verifying 200 shortwave countries is a difficult task, but imagine the challenge in visiting that many places! Recently, I read a newspaper article about a member of the Traveler's Century Club who had visited her 225th country, good old Albania.

The requirements for club membership are simple. You must have visited at least 100 countries, as defined by their own country list. As a longtime shortwave country counter, I wrote to the Traveler's Century Club (send SASE to 8033 Sunset Blvd. #9, Los Angeles, CA 90046) for a look at their country list. It's similar to the NASWA list, except there are many more countries, 311 as of July 1992. Moldova, Tristan da Cunha, and Yemen, Southern Republic (Aden), all count, as they do on NASWA's list.

Most of the countries would be familiar to an active shortwave listener, but I've never heard a shortwave signal from such places as Lord Howe Island, Niue, Ogasawara (look it up!),

Ras Al Khaima, Zil Elwanyen Sesel (hint: it's in the Indian Ocean), and Lakshadweep, Union Terr. of. Antarctica is a potential bonanza for the well-traveled club member, with nine countries to visit. But if you had hoped to visit South Africa to log Bophuthatswana and Ciskei, forget it. Even though they were listed on the 1992 list, the club doesn't agree with NASWA's "once a country, always a country" philosophy.

There appears to have been some debate on what counts as a visit. "After consideration as to how long one must have stayed in a country or island group to qualify," their brochure explains, "it was decided that even the shortest visits would suffice—even if only a port-of-call, or plane fuel stop." By last count, I'm 85 countries short of full membership, but maybe my Radio Moscow QSL cards with transmitter sites will count for something.

Our final two articles this month are courtesy of Harold Sellers and the ODXA.

Propagation Forecasting Can Make Life Easier for DXers

...an interview with Jacques d'Avignon

Originally published in DX Ontario, the journal of the Ontario DX Association, Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada

by Russel Biggar

When Bernie Oushea and I, the Ottawa-area organizers for ODXA, invited ODXA member Jacques d'Avignon to give us a talk on shortwave propagation last spring, neither of us had any idea that he was one of the world's leading experts in shortwave propagation forecasting. Nor did we know that he had recently published a 48-page book evaluating personal computer software programs which can forecast shortwave conditions.

So to take advantage of such a substantial in-house resource, I drove down to Cornwall later to interview him for DX Ontario. "I have been doing propagation forecasting since the mid-1960s when I was stationed in the

Middle East and needed reliable communications, he said.

You had to do it manually. I used graphs supplied monthly by the U. S. Bureau of Standards and it was very tedious. A forecast for one circuit would take about three hours. A circuit is the path taken by radio waves going from a transmitter to a receiver. Large distances mean the waves must "bounce" between the ionosphere and earth, often several times.

The personal computer (PC) has brought propagation forecasting to the forefront, because everything was done on a mainframe before, and people cannot afford mainframes. Now I can calculate 25 circuits in about 30 seconds on my 386. You still have to do the proper interpretation before issuing the final forecast.

Anyone who has a computer can do the calculation. You just have to get the program, which is no problem.

For many years, the only program was IONCAP developed in the mid-1950s by the U. S. military for mainframe use. Rose wrote one for PCs and the BBC wrote a program for PCs which uses a slightly different algorithm from Rose. And then everything went from there.

The programs for PCs are based on algorithms, which are a combination of assumptions and mathematical formulae. These are transferred into a computer program.

There are not that many equations, but they are repetitive and so you have to continuously re-solve. You may have three F bounces between Cornwall in Ontario and Dakar in Africa. Or four bounces or five bounces. The algorithm considers them all and then calculates the best frequency for the chosen day.

Algorithms also have to consider losses when the radio waves hit the earth. They have to take into account whether the bounce is on water, on ground, or on ice. The computer programs also store vast amounts of data on the ionosphere, based on past observation.

In propagation forecasts, there are not many variables. The first is the year - then what month, then what day and then what time of day.

As important as the sunspot number, which varies widely, is the month and the time of day. In summer, if the signal is over the North Pole you have sunlight all the time, but in winter, you have darkness all the time. The sun determines what propagation conditions will be. The sunspot cycle is 11-years long, and the sun rotates on its axis every 28 days.

You can do nowcasting and forecasting. In forecasting you are looking at two or three months ahead of time and you are assuming the sun cycle will follow its normal path which it normally does.

In nowcasting you use the flux number announced by WWV. But if all you do is use that one number in your calculations you will be way out.

What you do is take the last five days or more and take the mean.

His book doesn't say which program is the best with five stars and other hoopla, a la Larry Magne.

I was in many ways comparing apples and oranges. IONCAP, the big US program is the standard and we know there are some inaccuracies in the algorithm. It might be better to say they are not inaccuracies, but some refinements could be done and are being done.

ASAPS is the other standard. And if you do predictions with both, you find they come in within five per cent of each other. So the results are essentially the same.

In addition, over the years some smaller programs have been modified substantially with no reasons given for the modifications.

Also, in making comparisons between programs, people do not use the terms in the same way. The Optimum Frequency for some programs is 85 per cent of the Maximum Usable Frequency, while others say it's 77 per cent. In some programs I was able to go in and see what figures they were using, but in others I was not.

Most authors were happy to let me know what assumptions they were using, but some refused to co-operate.

(Author's note: To keep this article within reasonable length, an extended discussion and explanation of propagation phenomena could not be included.)

The programs are accurate for forecasting. We have to assume the sun will cooperate. We use a statistical curve to say the flux will be such and such in July or September in 1994 [for example]. Most of the time we can predict that and we have been able to do that for some decades.

But on a day to day basis, the flux could be 25 units and the next day it could be 50 units off the prediction. One of Jacques' clients wanted a forecast which would allow trans-Atlantic radio communication all the time. So I gave them seven frequencies to choose from between 8 megs to 23 megs. The seven frequencies were scattered throughout the spectrum.

And then they wanted nowcasting—four times a day. Nowcasting would tell them to go one frequency higher or one frequency lower to reflect immediate conditions.

The results were phenomenal in the week-long tests. A 300 watt transmitter in England using a non-directional antenna on SSB on frequency shift got through, not only to Central America, but was also monitored in Cornwall, Ontario.

One thing that is fascinating in the last couple of months is that High Frequency (HF), which everybody thought was dead, has attracted a great deal more interest from commercial users.

People are finding that by using the proper equipment, the proper techniques and the proper circuits, at times HF is more reliable than satellites. And HF is cheaper.

With the penny-pinching in industry and government, lower costs are very attractive for passing traffic. Also satellites have a problem with scintillation (fading in HF terms) which, although not as bad, is still there.

People say we can transmit data at very high speeds via satellites, but they are running into problems. At HF you have a lower rate of data transmission, but you can get higher overall reliability. It's back to a technique used in the 1930s - diversity reception, which had been largely forgotten.

You can have, for example, two antennas, more than five wavelengths from each other. You can have horizontally polarized antennas and vertically polarized antennas. You can

use two frequencies simultaneously and take the best signal.

HF is fairly reliable and it costs much less. Ironically, the resurgence of interest in HF comes at a time when the sunspot cycle is in decline which will mean poorer conditions for the next few years.

We are looking at new techniques in HF work to overcome fading, static and other problems. His book is a teaser and he intends to write another. It will consider both HF and VHF.

The morning I visited him he had been listening to weather radio on 162.475.

Why can I hear Watertown in New York before 8:00 a.m. and get Kingston from the other direction in the afternoon?

Why can I pick up Montreal on 162.400 in the morning and Burlington, Vermont in the afternoon on the same frequency? Or why can I pick up weather radio from Three Rivers which is far more than line-of-sight? He says he knows the answers, but wants more data. Needless to say, we will be looking forward to his next book.

The 10 programs he reviews (with U. S. prices) are ASAPS (\$275), Bandaid 2 (\$75), Mapper (Free), Ionsound (\$35), Watson (Free), MiniProp Plus (\$60), DX4cast (\$30), Micropredic (\$75-3,000), Minifitz4 (not available) and IONCAP (\$150).

The book is available from the ODXA for \$10.00 (Cdn) and is published by Grove Enterprises Inc., P. O. Box 98, Brasstown, North Carolina, U. S. A.

United Arab Emirates

by Colin Miller

Originally published in DX Ontario, the monthly magazine of the Ontario DX Association, Box 161, Station, Willowdale, Ontario M2N 5S8, Canada

The United Arab Emirates (UAE) is located on the northern coast of the Arabian Gulf stretching deeper through the Gulf of Oman. It is bordered by the Arabian Gulf to the north west, Qatar and the kingdom of Saudi Arabia to the south, and the Sultanate of Oman and

the Gulf of Oman to the east. It lies between latitude 22 to 28.5 North and Longitude 51 to 56.5 East. The UAE was proclaimed independent on December 2, 1971, as a union of seven emirates: Abu Dhabi, Dubai, Sharjah, Ras al Khaimah, Umm al Quwain, Ajman and Fujairah, with Abu Dhabi City as its capital.

The words Abu Dhabi literally mean in Arabic father of the gazelle and, according to legend, the site was chosen by ancestors

when a hunting party found a gazelle grazing on the island. Today, the city is a graceful blend of modern skyscrapers and well-laid gardens criss-crossed by overhead bridges and highways.

Small as it may be in area, (91,700 sq. km.), the UAE is multifaceted. It is a land in sights and traditions and interesting contrasts. The landscape changes from impenetrable desert bordering the famed Empty Quarter to fertile oases heavily laden with date palm trees in Al Ain city to mountains in the northern emirates. UAE's climate is moderate from October to April, when it starts to heat up gradually until it becomes very hot and humid in July and August.

Because of its sub-tropical climate, the UAE is considered as one of the best winter resorts in the world and it has tremendous potential in tourism not least because the blue shallow water of its 900 km of clean and sandy beaches which are ideal for sunbathing, swimming, fishing and sailing. The population of the UAE is over 1.5 million according to the 1986 census. Most of them are engaged in oil industries, trade and fishing. Visitors to the UAE are immediately struck by the cosmopolitan atmosphere that prevails all over the country, and this is evident from the presence of people from virtually every part of the world.

Islam is the religion of the country and the government has taken special interest in propagating the Islamic principles of love, tolerance, co-operation and modesty. At present, the UAE has more than 2,000 mosques, capable of accommodating 300,000 worshippers.

Arabic is the official language of the country but English is widely used. Oil constitutes the backbone of the UAE's national economy and represents 95% of the GNP. Despite lower oil revenues, the UAE recorded the world's highest per capita income (\$19,000) in 1986 according to the World Bank. The official currency in the UAE is the Dirham which is equivalent to US\$0.27.

The UAE Radio from Abu Dhabi was set up on February 25, 1969, under the name Abu Dhabi Radio with six hours transmission in Arabic only. With the formation of the seven

Trucial Emirates into a federation of United Arab Emirates on December 2, 1971, Abu Dhabi Radio assumed its present name. During the last 20 years it has developed in such a way to match the overall development experienced by this country. The transmission covers wide areas, ranging from Pakistan and India in the east, to Morocco and some parts of Europe in the west, while shortwave transmissions reach as far as places like Australia and South America.

Because of the presence of large expatriate communities, mainly from South East Asia, Europe and North America, Abu Dhabi Radio transmits a 24-hour service daily for non-Arab residents inside the country on medium-wave and FM. This includes Capital Radio on 93.5 MHz FM, and English, French, Urdu, Filipino and Bengali programs on 810 kHz medium wave with 50 kW. The task of the foreign language service, which also includes a 2-hour daily shortwave program in English, is to convey a comprehensive and realistic picture of the political, economic and cultural life in the UAE, as well as UAE's viewpoint on current affairs and matters of international significance.

Now that you have read that-here are the UAE's stations latest English schedules, courtesy of Tom Sundstrom and his PC Software by W2XQ.

Station: Radio Dubai

UTC: 0330-0400 Target: NAm
kHz: 21485.0 15400.0 13675.0 11945.0

UTC: 0530-0600 Target: seAs/Aus
kHz: 21700.0 17830.0 15435.0

UTC: 1030-1055 Target: Eu/nAf
kHz: 21605.0 15395.0 15320.0 13675.0

UTC: 1330-1355 Target: Eu/nAf
kHz: 21605.0 15395.0 15320.0 13675.0

UTC: 1600-1640 Target: Eu/nAf
kHz: 21605.0 15395.0 15320.0 13675.0
Language: English Notes: #1 anncd as 11795

Station: Voice of the UAE

UTC: 2200-2400 Target: NAm
kHz: 11885.0 9770.0 9605.0

Listener's Library

T. J. "Skip" Arey W82GHA
P.O. Box 644
Waterford Works, NJ 08089
America Online: TJAREY
Internet: TJAREY@AOL.COM

Shortwave hobby receivers have come a long way since I became hooked on our hobby. It was not all that long ago that frequency discrimination on your average receiver was essentially an exercise in guesswork. But analog tuning gave way to digital readouts and most of us now dial up and punch in frequencies with little thought to the process. The next step came when rigs started appearing with a jack on the back to let you wire in to a personal computer. Now things are really interesting. Now our computers can run our radios in ways we could hardly imagine even ten years ago. Did you ever wonder how that little jack on the back of your receiver accomplishes this miracle? I've got a book that might help you get some understanding in this area of electronics.

BUILD YOUR OWN LOW COST DATA ACQUISITION AND DISPLAY DEVICES

by Jeffrey Hirst Johnson

305 pages

\$19.95

Tab Books

Blue Ridge Summit, PA 17294

ISBN 0-8306-4348-6

All a computer is is a bunch of switches turning on and off very quickly. If you turn the switches on and off in particular mathematical patterns, information can be stored and exchanged. It is just this sort of information that runs up and down the cable that connects a modern receiver to a personal computer. As computer technology advanced, standard ways of making devices talk to one another developed. I'm having a hard time imagining what life was like before devices came with RS232 ports. I look forward to the day when I can have a bio-electrical port installed in my brain (yes, I confess, The Borg are my favorite Star Trek folks). Meanwhile Jeffrey Hirst Johnson has written a book that will help you understand how data ports work. He also will teach you how to develop your own applications. Believe it or not, those serial and parallel ports on the back of your computer are

designed to be played with. Johnson gives the reader a crash course in data acquisition and how a combination of hardware and software combine to let your computer reach out and touch the world through your shortwave receiver or any other device you may want to hook up. Along the way, you will even learn how to construct a digital voltmeter and write a simple data acquisition program. While not absolutely necessary, some background in computers is helpful when reading through this book. Also, if you are not knowledgeable in the computer language PASCAL, you will need to order the optional \$24.95 disk of programs if you intend to conduct any of the software experiments listed in this book. All this aside, this remains a great book for anyone who is curious about where computers are now and where they are headed. Now if they would just supply a couple of chapters on basic neurophysiology I could have the most realistic Borg costume at the next Star Trek convention.

Several years ago I ran across a circuit for a neat little receiver. I perused the schematic and felt it would be up to the task I had intended (at that time I was hot for operating 20 meter mobile as a "county hunter") I was all set to start chasing down the parts when I ran across something I did not understand. The receiver had several inductors in its design that the author said need to be "Pie Wound." Since I had no idea what that meant at the time, I turned the page and went after another design. Things would have been different if I had.

THE ILLUSTRATED DICTIONARY OF ELECTRONICS SIXTH EDITION

by Stan Gibilisco

760 pages

\$28.95

Tab Books

Blue Ridge Summit, PA

ISBN 0-8306-4396-6

If I had Stan's dictionary in my library way back

when, I would have known that Pie Winding is a method of coil winding in which two or more separate, multilayer coils are connected in series and placed along a common axis. Aha!!! Simplicity itself. I've seen those little buggers in tons of old radios and I never knew they had a special name.

Stan's dictionary covers everything from A, the symbol for gain, area and ampere depending on the formulae your looking at, to Zymurgy, a branch of chemistry concerned with fermentation (and of deep concern to those standing around the keg at the Kulpsville SWLfest hospitality suite). If your planning on understanding the various electronic terms that are thrown around at places like the Kulpsville get together, or in any of the club or commercial publications that support our hobby, you may want to take a peak at this book.

In its sixth edition, the book is close to exhaustive in its study of electronics terminology. This dictionary is also extensively cross referenced and includes three appendixes (or appendixes if you'd rather). The first is a fairly complete schematic symbols chart that supports the many illustrations and diagrams found throughout the book. The second is a collection of common tables and data references used in the electronics world. Third is a list of common electronic abbreviations.

In addition to being a useful tool, this is a fun book to just flip through. Each page presents a new learning experience. Unless you are degreed in electrical engineering and work in the business, you are likely to find out many new things in the pages of this book. Ever heard of a G-string antenna??? No, they don't use them in topless bars and no, you won't find them on guitars. Pick up this dictionary and learn the truth of such matters.

SHORTWAVE SIDELINES

Want to take a safe bet??? Next time you go to any radio people gathering check out any of the booksellers' tables. If you see any of Bill Cheek's Scanner Modification Handbooks on the table, bet anyone you see that the books will be sold out before close of business.

SCANNER MODIFICATION HANDBOOKS

by Bill Cheek

Vol. I = 160 Pages

Vol. II = 220 Pages

\$17.95 each

CRB Research Books, Inc.

Commack, NY 11725

Vol. I = ISBN 0-939780-11-9

Vol. II = ISBN 0-939780-14-3

Scanner monitoring is a habit. Scanner modification is a serious addiction. Once you lift the lid on a Radio Shack Realistic Pro series or Uniden Bearcat BC series scanner, you just can't resist melting some solder. Things start out innocently enough. Maybe you go in to clip a diode or two to "restore" some frequencies that the company had locked out. Before too long you're replacing memory chips. Who wants 400 channels when you can have 6400 with just a little tweaking. Bill Cheek is one of those guys who just can't leave well enough alone. He is always coming up with new and exciting ways to void factory warranties in search of seriously increased performance. What makes Bill special is he doesn't hoard his knowledge, he shares it.

His fame began some years ago as "Doctor Rigormortis," everybody's favorite CB bench technician. Bill has written for just about everybody in the radio hobby at one time or another. He is one of my colleagues over at Monitoring Times and we do spend a bit of time swapping lies over the InterNet. Bill is totally dedicated to wringing every last gram of performance out of a piece of equipment. Many scanner modifications have floated around on computer bulletin boards for years. Now you can have the straight scoop right from Bill's own talented hands. Bill spells out even the most mundane details, making even inexperienced folks comfortable with the modification process. Each modification is laid out in step by step format reminiscent of the kit building manuals that came with Heathkit gear. He will also teach you a bit of theory along the way.

Bill is also the publisher of WORLD SCANNER REPORT, a newsletter that updates and advances the scanner modification art ten times a year. (Subscriptions go for \$25.00 per year and are available by writing to Commtronics Engineering, PO Box 262478, San Diego, CA 92196-2478) By the way, Bill is also hard at work on Volume Three of this Scanner Modification Handbook series so warm up your soldering iron folks!

Walking Through Your Receiver (Part 2—The RF Amplifier)

We carry on our Watkins Johnson HF-1000 journey. Last time we saw a switch that allows you to select the best receiver sensitivity for your conditions. This time we'll examine when to use this switch. We'll look at the trade-offs involved in sensitivity and handling high signal levels. We will also review the HF-1000 sensitivity specifications to see what they really mean to you. You will learn about different ways engineers specify sensitivity.

Figure 2 shows the input switches set to route the signal from the low pass filter output directly to the mixer. (The mixer is the round thing with an X in the middle. We will discuss what the mixer does in a later installment.) The switch can select an RF amplifier to increase receiver sensitivity. The switch also selects a 15 dB attenuator pad to reduce sensitivity.

The "noise figure" of the first RF amplifier sets the sensitivity of a well-designed receiver. The WJ HF-1000 has a noise figure of 14 dB without the preamplifier selected. "Noise figure" is a term used to state in one number the loss in signal-to-noise ratio between the input and output of a device. We express noise figure in dB. The lower the noise figure the better. The output signal to noise ratio (S/N_{out}) is equal to the input signal to noise ratio (S/N_{in}) in an ideal amplifier. An ideal amplifier has a noise figure of zero dB.

You calculate the noise figure (F) of any amplifier according to the following formula:

$$FdB = 10 \times \text{Log} \frac{S/N_{in}}{S/N_{out}}$$

Where "Log" is the logarithm to the base 10. S/N_{out} is always a smaller number than S/N_{in} in any real amplifier. FdB is, therefore, always a number greater than 0 dB.

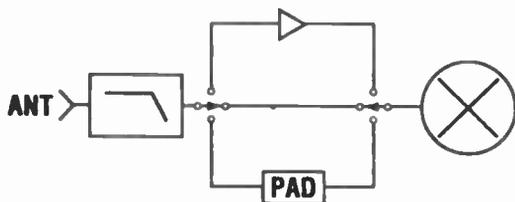


Figure 2. The receiver input features a switch to select the optimum sensitivity for prevailing conditions.

Sometimes engineers talk about "noise factor". Noise factor is simply the ratio of S/N_{in} divided by S/N_{out} . Noise factor is 1 in an ideal amplifier. Do not get these terms mixed up. Noise figure is always expressed in dB. There is another term you may also run into to describe the same thing. That term is "noise temperature". Satellite receiver sensitivity is usually specified in terms of noise temperature. Noise temperature is always expressed in degrees Kelvin ($^{\circ}K$). This is a scale that begins at absolute zero and goes up. An ideal amplifier would have a noise temperature of $0^{\circ}K$. A real world amplifier might be rated at a 3 dB noise figure, a noise factor of 2, or a noise temperature of $290^{\circ}K$. They all mean the same thing.

Why have 3 ways of saying the same thing? No, it's not a plot by engineers to obfuscate. They leave that to politicians. Noise factor was the first figure-of-merit they devised. They found that noise figure is more useful in combining the effects of losses ahead of the first amplifier. They then found a better way to analyze systems looking out to space.

Noise factor and noise figure are defined with the source at room temperature, i.e. close to $290^{\circ}K$. A microwave antenna aimed horizontally has a noise temperature of close to $290^{\circ}K$. Satellite receivers have antennas that look out to the cold of space. The effective noise temperature of such antennas is usually less than $290^{\circ}K$. Space communications engineers found it easier to learn to think in terms of equivalent noise temperature when calculating the contribution of antenna noise on overall system performance. So they decided to also express amplifier noise in terms of equivalent noise temperature. HF receivers are normally specified in terms of noise figure so you can ignore the other two systems. Just be aware they do exist.

If the gain of the first amplifier is big, the noise generated in this amplifier sets the sensitivity of the entire receiver. The noise added by succeeding stages is small compared to the amplified noise from the first stage. The first stage noise dominates over the contributions of later stages.

Losses ahead of the first amplifier also contribute dB for dB to the noise figure. That is why you must keep the input losses as low as possible. When you bypass the RF amplifier, the receiver noise figure degrades. The loss of the low pass filter adds to the loss of the mixer and then combines with the noise figure of the first amplifier that follows the mixer. In the WJ HF-1000 the noise figure degrades from 11 dB to 14 dB when you bypass the RF amplifier.

Testing the WJ HF-1000 with an AM signal modulated at 50% produces an output signal plus noise to noise ratio ($S+N/N$) of 10 dB with a 1.6 microvolt input signal and the RF amplifier bypassed. You can reduce the input signal by 3 dB for the same output $S+N/N$ by selecting the RF amplifier. Now a 1.1 microvolt signal will produce the same 10 dB $S+N/N$ output.

Just how big a signal is this? We learned last time that a typical receiver S meter should read S_9 with a 50 microvolt signal. Each S unit is ideally worth 6 dB. A 1.6 microvolt signal would read about S_4 . A 1.1 microvolt signal would be about half an S unit less.

Remember that the RF amplifier adds gain to the receiver so the S meter will read higher with the RF amplifier engaged. The S meter will no longer read S_9 with a 50 microvolt signal. It will read higher by the number of dB gain in the amplifier. The WJ HF-1000 RF amplifier has 10 dB of gain. The 50 microvolt signal will indicate $S_9 + 10$ dB with the RF amplifier. But the ultimate weak-signal sensitivity increases by only 3 dB with the amplifier and this is only true assuming no strong adjacent channel signals are around to cause overload of your receiver.

Remember when comparing receiver specifications to compare AM to AM performance. Receiver performance measured in the single sideband (SSB) reception mode is typically 9 dB better than the AM performance. Thus for the same 10 dB $S+N/N$ at the output you would only need slightly better than .5 microvolt at the input of the WJ HF-1000. This value is typical of modern receivers.

Why the difference? The narrower reception bandwidth (3 KHz vs. 6 KHz) in SSB mode causes a 3 dB improvement in S+N/N. The narrower bandwidth eliminates half the noise power. The remainder of the apparent improvement (6 dB) is due to the test conditions of the AM measurement where the signal is only 50% modulated. Make sure when you are comparing performance specifications between receivers that both receivers are tested under the same conditions. Simply running the AM test at 100% modulation would reduce the necessary input signal level by 6 dB from 1.6 microvolts to .8 microvolts.

Actual usable sensitivity is often determined by factors other than the receiver RF stage noise figure. In real life the noise coming in from the antenna is usually much greater than the noise generated in the receiver. So there is no need to use the RF amplifier.

Here is a simple test you can do to see how much noise your antenna is delivering to your receiver. Try connecting a 50 ohm resistor across the receiver input in place of the antenna. The noise you hear represents the inherent noise floor of the receiver.

Now remove the 50 ohm resistor and connect your big outside antenna. What happens? If your receiver and antenna are working properly you will hear the noise level increase.

Your ability to hear weak signals is limited by noise being picked up by the antenna. Increasing the receiver sensitivity by engaging the RF amplifier will, under normal conditions with an outside antenna, do little to improve the all-important signal to noise

ratio at the receiver output. The S meter will read higher because the receiver has more gain. But there may actually be situations you will encounter where engaging the RF amplifier will reduce signal to noise ratio out of the receiver due to distortion resulting from overload.

The HF-1000 has particularly good overload specifications. We'll learn how receiver manufacturers specify receiver overload immunity in a later installment.

The position of the switch shown in Figure 2 provides an optimum compromise between sensitivity and overload immunity. Why would one ever want to increase or decrease the sensitivity? There are several situations that could call for increased sensitivity. Sometimes the ionosphere acts up causing high levels of absorption on all signals and atmospheric noise. Under these conditions, increased sensitivity can help overcome the lower signal levels. If the receiver is used with a short antenna rather than a full sized outdoor dipole, signal and atmospheric noise will also be lower. This situation allows you to recover weaker signals by increasing receiver sensitivity.

Less sensitivity is sometimes desired when listening to strong short-wave stations like those found at night on the 49 meter band. Try selecting the attenuator. If reception improves, you are probably experiencing receiver overload. We'll discuss overload more completely later.

That's all for this session. Until next time, stay tuned.

ANNOUNCEMENT!!!

WAVELENGTHS: A Shortwave Newsletter for Women
LADIES: *WAVELENGTHS* wants to hear from you!
WAVELENGTHS wants to know what's on your mind. We are a newsletter dedicated to providing a shortwave listeners' forum for women worldwide.
Tell us a little about yourself. Why do you listen to shortwave radio?
What programs (or types of programs) do you listen to regularly? Why? Please be specific.
Are shortwave broadcasters addressing the concerns of women? What was the last program you heard that related

to some aspect of your life as a woman?
Your responses are important to us. All respondents will receive a copy of our newsletter.
Please send us a letter or a cassette tape to:

WAVELENGTHS
P.O. Box 381766
Cambridge, MA 02238
USA

An International Reply Coupon (IRC) or US minted stamps are requested to defray the cost of postage.

NASWA Awards

Dr. Harold Cones
2 Whits Court
Newport News, VA 23606
CompuServe 71570.411



Here we are again at the beginning of fall and the throwing out of the first signal of the DX season. There is not much happenin' here yet as far as radio is concerned--just noise--although some pretty strong African signals are making it through. The Tidewater gang is heading off on DXpedition in mid-October and we are all lighting candles to the DX gods to clear out the noise and stick in the signals.

The big Virginia Beach Hamfest and Computer Show was held 17-18 September and turned out to be more computer than ham. I did find that there are a bunch of computer programs for radio folks and a fair number of CD ROM discs crammed with radio helps. If you have not been exposed to such things yet, treat yourself to a computer show and take a look (and some money).

As you enter your listening post this fall with low sun spots and high hopes, take a few minutes to see what you need to complete your various NASWA awards and let that form the basis of a hit list for the season--that way, I get rid of all these awards and you get something to use for holiday wrapping paper. Among the award goodies this time can be found a new DX Centurion, Ed Rausch, and a 200 Pirate station endorsement for George Zeller (oh well, wadda ya expect--he wrote the book!). Here are the latest folks who have those coveted NASWA greens:

David Berish	All American DXer Ecclesiastic DXer International DX Listener
Nick Grace	South American Continental DXer Senior Papua New Guinea DXer
Richard Hankison	South American Continental DXer
Stephen Pitts	180 country endorsement Subcontinental DXer
Ed Rausch	DX Centurion Australian DXer European Senior DXer
Mark Schiefelbein.....	All American DXer Ecclesiastic DXer
Robert Weiss	Senior Ecclesiastic DXer 20 station endorsement-All American
George Zeller	200 station endorsement!!-Pirate DXer

FEATURED AWARD OF THE MONTH

Seeing that spectacular 200 station endorsement from George made me think that perhaps there are some folks out there who do not know what pirate radio is, how to hear it or how to go about verifying it. We can solve that.

At its most basic, pirate radio is illegal broadcasting. When you hear a pirate, you are listening to someone who has no FCC authorization to broadcast program material (although some pirates are most likely hams and do have authorization to broadcast legally on proper frequencies and with proper material). And the term "program material" is often a poor choice of terms, since pirate broadcasts range from slick, smooth professional presentations to wild ranting and raving about a group, event or life in general: pirate radio is a real mixed bag and

always entertaining! The FCC spends a lot of its time hunting for illegal broadcasters so pirate stations keep no regular schedule or frequency and provide signals of varying quality as they change location and transmitters; pirate hunting is like playing the lottery, which is most likely the basis of its great appeal to the hobbyist.

Although pirates can appear anywhere, they appear most frequently just above the medium wave band--from 1600 to 1700 kHz--and between 7400 and 7500 kHz. The best frequencies in recent times are 1620, 7415 and 15050 kHz, but once again, there are no rules in pirate broadcasting, so you may encounter them anywhere. The best time to listen is in the evenings and on weekends (pirates work for a living, too). There is also a flurry of pirate activity around major holidays, particularly Halloween.

NASWA offers the "Pirate DXer" Award for those interested in chasing the pirates. In order to qualify for the award, you must offer proof of verification of 10 pirate broadcast stations (endorsement stickers are available for 25, 50, 75 and 100 stations). Verification of pirates is not any more difficult than verifying anything else and the percentage of return is certainly higher than for many third world countries. There is a bit of a difference--you send your request to a "mail drop" along with three stamps. It is then round-robin mailed by two others to insure the pirate's anonymity. The chase is fun, the listening is fun and even the verification is fun. Many pirates send unusual QSL cards--such as condoms, plastic fish and rubber chickens.

There are a number of good references to help you with the hunt. The Association of Clandestine Enthusiasts publishes *The A. C. E.*, a pirate newsletter that will keep you on top of frequency and format changes. A sample copy is available for \$2.00 from P.O. Box 11201, Shawnee Mission, KS 66207-0201. *The Pirate Radio Directory*, published by Tiare Publications (P.O. Box 493, Lake Geneva, WI 53147), is an annual (since 1989) labor of love for George Zeller. It not only details the year's pirate activity but also contains an excellent explanation of the intricacies of pirate radio. Two more real goodies come from Andy Yoder: *Worldwide Pirate Radio Logbook* (Snallygaster Press, P.O. Box 272, Springs, PA 15562) and *Pirate Radio Stations: Tuning in to Underground Broadcasts* (Tabb Books)--really excellent stuff.

I think the flavor of pirate radio can best be shown in this statement received on a recent "Pirate DXer" application: "I am sending in this application in memory of Dick Smith, who has just been fired after 13 years as chief of the FCC Field Office Bureau. He did a whale of a job, since every station on my list transmitted without a license under his jurisdiction. Way to go, Dick!"

Give it a try and I will look for those award applications soon.

FOR SALE: Sony ICF-2010, \$150.00. Alpha Delta Sloper antenna, 60 feet, \$35.00. Radio West Ferrite Bar antenna, \$45.00. "Proceedings" 88, 89, 90, 91, 92/93, five issues, \$35.00. Everything for \$250.00. Andrew Herrschaft, 28 Leonard Street, Portland, ME 04101. Phone (207) 773-1562.

FOR SALE: Twenty-nine national anthems from around the world performed by the American Brass Band. Cassette, \$7.95; CD, \$9.95. Shipping extra. Hallicrafters WR-600 table-model SW receiver with mahogany-type cabinet. Needs a tube or two, but otherwise in excellent condition. Make offer. Radio Canada SW Club bulletins complete from #1 (1967) to #38 (Jan/Feb 1971), membership list and some German-language SW bulletins that were included with the program schedules after the last regular publication. Franz Schwartz, Jr., 414 Sabra Drive, Wilmington, NC 28405-3835. Phone (910) 799-5013 after 7:00 pm Eastern time. No collect calls, please.

Listener's Notebook

Chris Lobdell
P.O. Box 146
Stoneham, MA 02180-0146
CompuServe: 75720.253

Al Quaglieri
P.O. Box 888
Albany, NY 12201-0888
CompuServe: 75122.74

OH BARKEEP...tuning tips for everyone, if you will. This round's on me. Thanks to this month's esteemed contributors/big spenders for their respective donations at the bar!—AQ

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ALBANIA—*Radio Tirana's* latest English schedule:

0130-0145	9580 11840	North America	1445-1500	Turkish	6065 5930 4990 4810
0230-0257	9580 11840	North America	1500-1515	Ukrainian	6065 5930 4990 4810
1600-1615	7165 9760	Europe	1515-1615	Armenian	6065 5930 4990 4810
1800-1827	7260 9730	Europe	1615-1645	Russian	6065 5930 4990 4810

(Vlaanderen/August DXers Calling)

ANGOLA—The 10 kW *Radio Nacional* transmitter at Mulenvos has been heard recently on 3374,9 khz (it is listed in the *WRTI* on 3377 Khz.). It carries the foreign service in French at 1900 (new time, was listed at 1800, while Spanish was listed at 1900), English 2000, and Portuguese at 2100. (13-Sep-94/Mark Veldhuis-NETHERLANDS/SW Echo)

			1645-1745	Arabic	6065 5930 4990 4810
			1745-1800	English	6065 5930 4990 4810
			1800-1830	Persian	6065 5930 4990 4810
			1830-2030	Armenian	6065 5930 4990 4810
			2200-2230	Armenian	11920 11790
			2230-2245	English	11920 11790
			2245-2300	Spanish	11920 11790

(20-Sep-94/BBCM)

ANTARCTICA—In an interview with Graham Barclay of *KIWI Radio*, *AFAN McMurdo* technician Dan Fisher advised that this station is active on 6160 kHz (power sounded like 3200W) and 104.5 FM (30-50W). (Sep-94/Martin/OZDX #95)

Radio Intercontinental, the new station from here detailed last month, has been heard with an additional evening broadcast in German. Check 11790 from 2100-2130. At 2130, the frequency reverts to *Araks Radio Agency*. (26-Aug-94/BBCM)

ARMENIA—Here's the complete *Radio Yerevan/Araks Radio Agency* sked (partial in last month's LN):

0800-0830	Armenian	17770 15170
		(Su only)
0830-0845	English	17770 15170
		(Su only)
0845-0900	French	17770 15170
		(Su only)
1330-1400	Azeri	6065 5930 4990 4810
1400-1445	Kurdish	6065 5930 4990 4810

ASCENSION ISLAND—*RAI* in Italian is being relayed here to Central/South America from 0130-0230 on 11765, 11880. (HCJB/August NZ DX Times)

AUSTRALIA—*Australian Defence Forces Radio*, which was initially aimed at Australian peacekeeping troops in Somalia and Cambodia (when it was called *Australian Armed Forces Radio*), is now broadcasting to

transmission stations and relay stations. Radio broadcasting now covers 76.3 percent of the nation's population. (BBCM)

CIS—Following up on last month's LN report about financial cutbacks in Russian broadcasting, this from a Russian newspaper of 16 August: "Whereas earlier *Ostankino* was providing 88 broadcast-hours a day, now the radio workers may only reveal their creative potential for 70 hours. The breakdown of losses is as follows: *Mayak* broadcasting has been cut by five hours, with a night break between 0100 and 0600 [presumably Moscow time—AQ]; *Yunost*, by five hours (a break between 0100 and 0600); *Radio-1*, by three; and *Orfey* [classical music station with no news broadcasting], by eight. Ten foreign language programmes have been fully terminated."

Mayak's chief editor later asserted that *Mayak* is working around the clock and currently has no intention of carrying out instructions to switch off its transmitters for five hours a night.

From 1st September this year, the *Golos Rossii* [Voice of Russia] radio station will reduce its broadcasting by six hours; transmissions between 2200–0100 and 0700–1000 will be abolished. (28-Aug-94 "DX Club" report/VO Russia/BBCM). Monitoring observations (7 September) have confirmed that *Voice of Russia* is now closing down at 2200. However, contrary to the announced schedule, it is heard broadcasting again at 0000 (not from 0100) and does not close down at 0700. (BBCM)

Formerly active sites on the Kamchatka Peninsula have also been silenced. A Moscow newspaper reports on 24 August that "Now on shortwave the people of Kamchatka can only hear the crackle of interference..."

From MEDIA NETWORK, 8 September: "Things are still looking bleak for shortwave transmissions from the CIS. Olle [Alm in Sweden] tells me that the Kopani transmitter site in the Ukraine has now been silent for over a month while in Kazakhstan the high-power transmitters that had been carrying the foreign service have gone off the air. The low-powered former jamming transmitters are still in

operation, as are the relays of Alma-Ata via Novosibirsk on 3955 kHz, Kiev on 5960 and 6010 kHz, and Moscow on 9690 and 21490 kHz." (BBCM)

Radio Moscow will end its transmissions in Danish, Dutch, Norwegian, Swedish, Slovene, Afrikaans and several Asian languages. The Dutch service was told its last broadcast would be on Monday 26 September. This is a very strange date, because a new schedule with lots of frequency changes will become effective on Sunday 25 Sep. (16-Sep-94/Paul Brems—BELGIUM/SW Echo)

A domestic Russian TV newscast on 13 August warned: "All television and radio transmitting centers may cease to exist by the end of the year." (BBCM)

Current sked for *Slavyanka Radio*:
0100–0300 4740 4940 4975 7160 7310 7390
9480 9490 9540 (all Tu–Su)
1600–1800 4740 (Tu–Sa)
1600–1800 4940 4975 7310 9540 9890
12015 12025 (all M–Sa)

(G. Grigoriev, ASK-DX—RUSSIA/OZDX #95)

Current sked for *Radio Alef*: 1600–1700 on 4055, 5905, 12075 and 17890 kHz on Tu/Thu/Su only. (M. Minjkin, ASK-DX—RUSSIA/OZDX #95)

The following *Radio Moscow World Service* frequencies were observed in use September 3–6, 1994. There were a lot of changes, and more frequencies are heard now compared to just two weeks ago. Most of the Ukrainian senders are notably absent.

17890 2300–0300
17815 1000–1300
17780 1000–1300
17760 1000–2000
17730 1100–1200
17710 1100–1300
17675 1000–1300, 0300–0500
17645 1000–1100, 1200–1300
17590 1200–1300
17570 1900–2000, 2200–0300
17560 1100–1300
15590 1100–1200
15525 1100–1300

15520 1500-1600
 15500 1630-2000
 15485 1000-1500
 15480 1900-2000
 15470 1000-1400, 1500-1600
 15455 0900-1500
 15440 1000-1400
 15425 1400-1600, 0000-0500
 15420 1100-1200
 15385 1630-1800
 15355 0900-1500
 15320 1000-1400, 1500-1600
 15305 1100-1300
 15280 1100-1300
 15180 1530-1700
 15140 1400-1500
 15125 1100-1500
 13775 0300-0400
 13615 1000-1200
 12065 1600-1700, 2000-2400
 12055 1000-1100, 1600-2000
 12050 0200-0500
 12020 0900-1200
 12010 1000-1200
 11985 1100-1400, 0300-0400
 11960 1300-1500, 1630-1800, 20-2100
 11940 1300-1600
 11920 2100-2200
 11900 0900-1200
 11875 1530-1700
 11800 0900-1300
 11765 0300-0400
 11750 2100-2300
 11715 1700-2000
 11705 0900-1300
 11690 0300-0400
 11675 2000-2100
 11665 0000-0400
 9895 1300-1500, 1900-2300
 9880 1600-2200, 0300-0600
 9820 1400-1600, 2000-2200
 9750 2100-0100
 9670 0300-0400
 9665 2030-2200
 9640 1900-2200
 9620 0000-0600
 9540 1700-1800
 9530 2130-2200

7330 2000-2100
 7300 2100-2200
 7205 1800-2100, 0130-0600
 7115 2000-2200

(08-Sep-94/Tom Sundstrom/SW Echo)

If you need a FD card from St. Petersburg, this is your lucky day. Bill Flynn forwards a frequency sked and QSL info from...ah, it's simpler to just quote:

"The State Enterprise of Broadcasting and Radio Communications No.2 (GPR-2) which is in St. Petersburg informs radio listeners and DXers all over the world about the starting of its Verification QSL Service.

"Since January the 1st, 1994, the reception reports on all the programmes relayed via transmitting centres in St. Petersburg and Kaliningrad are verified with a QSL card and our full current schedule.

"Reception reports should be sent to the following address: GPR-2 Verification QSL Service, ul. Akademika Pavlova 13A, St. Petersburg 197376, Russia.

"Two International Reply Coupons (IRC's) would be highly appreciated."

The GPR-2 sked, too lengthy to include here, lists various language *RM* services, plus *Mayak*, *Nadezhda*, and misc. foreign relays (*DW*, *RN*, *CRI*, etc.) emanating from St. Petersburg and Kaliningrad. [First I've heard of it.-AQ]. (29-Aug-94/Bill Flynn)

CLANDESTINE - LATIN AMERICA—*Radio Patria Libre*, which supports the Army of National Liberation (ELN), is now heard daily at 1130-1210 and 2130-2210, with a Sunday transmission from 1600-1700. All transmissions are on 6260v. (BBCM)

In case you're still trying to hear *Radio Frente Nacional Cubano*, mentioned hereabouts last month, you can stop now. "The FCC [Federal Communications Commission] has pulled the plug on a clandestine radio station transmitting anti-Castro propaganda from a farm near Salinas, Puerto Rico. It identified as *Frente Nacional Cubano*. According to FCC engineer William C. Berry,

they were acting on a complaint by the Cuban government, charging the station was causing interference. Berry said: We're not concerned about the content of the broadcast, but that it was unlicensed. The operator was Domingo Sadurni (a prominent member of the Cuban-American National Foundation), using 7020 with more than 1-kW of radiated power from a farm called Hacienda Las Carolinas...

According to an FCC news release, it was broadcasting messages promoting overthrow of the Cuban government. The last broadcast was heard on 27th July... No fines have been issued nor was the pirate radio operator's equipment confiscated..." (24 August/The San Juan Star/Media Network/BBCM)

CLANDESTINE - MIDEAST — *Voice of Rebellious Iraq* (Arabic: *Sawt al-Iraq al-Tha'ir*; Kurdish: *Dangi Iraqi Shurashgar*) supports the Iran-sponsored Shi'i Supreme Assembly of the Islamic Revolution in Iraq (SAIRI) under Muhammad Baqir al-Hakim and is hostile to the current Iraqi government. The station is believed to broadcast from Iran. Address: P.O. Box 1959/14155, Tehran, Iran. All programs in Arabic and Kurdish. Frequency varies around 7070 kHz. Sked (times vary): 0330-0600, 0730-0930, 1100-1430, and 1500-1730. (06-Sep-94/BBCM)

Voice of Iraqi Kurdistan (Kurdish: *Aira Dengi Kurdistania Iraqiya*) broadcasts in support of the Kurdistan Democratic Party (KDP) led by Mas'ud Barzani. Frequency is 4180v.

0245-0330 Kurdish
0330-0400 Arabic
0930-1100 Kurdish
1445-1530 Arabic
1530-1645 Kurdish

(20-Sep-94/BBCM)

CZECH REPUBLIC—According to a Prague newspaper, *Czech Radio's* license for external broadcasting expires at the end of 1994. It appears that unless the station can quickly convince the Czech parliament that its external broadcasting serves a valuable function, there's a good chance it will not be renewed. (BBCM)

Following up last month's report, on 25 August, the US Congress approved the relocation of *RFE/RL* from Munich to Prague. Congress allocated \$19 million to the relocation and a total of about \$230 million to foreign broadcasts. (BBCM)

DENMARK—*Radio Denmark* schedule until 25th March 1995:

0030-0055	6115 6120	SAm/NAM
0130-0155	5905 5910	SAm/CAM
0230-0255	5905 9560	NAM
0330-0355	7215 9560 9590	NAM/EAfr
0430-0455	7165 9590	ME/EAfr
0530-0555	5905 7165 9590	WNAM/ EAfr/ME
0630-0655	5965 7280 9590 11735	Eur/ME
0730-0755	5965 7180 9590 15175	Eur/Afr
0830-0855	11735 15175	FE/NZ
0930-0955	17740 17840	FE/EAus/ ME
1030-1055	11860 15165	SEur/WAfr
1130-1155	7295 9590	Eur/NAM
1230-1255	11850 15165 15175 17810	Aus/SEAs/ SAM
1330-1355	9590 11740 15290 15335	Eur/SEAs/ As/Aus/ ENAM
1430-1455	11870 15335 17795	SEAs/Aus/ NAM
1530-1555	9480 9550 11850	ME/E.Afr/ WNAM
1630-1655	9590 11825	ME/EAfr/ WNAM
1730-1755	7120 9590 15220	Eur/Afr
1830-1855	5960 7120 9590 11930	Eur/EAfr/ ME
1930-1955	5960 7215 9590	Eur/Afr/NZ
2030-2055	9590	Eur/WAfr/ NAM
2130-2155	6015 9600	NAM/SAM
2230-2255	6120 9590	SAM
2330-2355	6060 6120 7275	SAM/SEAs

Radio Denmark shares the Norwegian facilities with *Radio Norway*: (8-Sep-94/Erik Koic-R. DENMARK/Jan Nieuwenhuis-NETHERLANDS/BENELUX DX Club/SW Echo)

ECUADOR—4815, <i>Good Shepherd Radio</i>	0630-1030	Portuguese	9515 6125
(not sure what that will be in SP or Saraguro),	0700-0830	English	21455U 17490U
in Saraguro, will be starting up here around			11835 9600
March when the studios are finished, per 9-17	0700-0930	English	21455U 17490U
DXPL interview with <i>HCJB</i> engineer Claude			11925 9745
Beachy who helped them with the antenna. It	0830-0900	Quechua	6080 3220
is run by a small organization, <i>Asociacion</i>	0900-0930	Quechua	9670 6110 6080
<i>Cristiano de Indigenos Saraguros</i> , and will be			3220
1 kW from a modified Collins xmtr.	0930-1000	German	17490U 9670 6110
Languages will be Spanish and Saraguro,	0930-1000	English	21455U 11925 9745
which is a dialect of Quechua. The antenna	0930-1000	Quechua	6080 3220
will beam almost straight up (like <i>R.</i>	1000-1030	Quechua	9670 6110 6080
<i>Interoceanica</i>), so hearing them may be			3220
tough. (Jerry Berg)	1000-1130	English	21455U 17490U
			11925 9745
Here's <i>HCJB</i> 's complete schedule from 1	1030-1100	Quechua	9670 6110 6080
Sep-1 Dec 1994. Within certain transmissions			3220
some frequencies may carry separate religious	1030-1100	Spanish	17490U
programmes at times, including programmes	1030-1130	English	21455U 11925 9745
from <i>Trans World Radio (Radio Trans</i>	1030-1130	Russian	9515
<i>Mundial)</i> . English transmissions are	1030-1200	Spanish	11960 9765 6050
sometimes in parallel.	1100-1200	English	21455U 17890
0000-0030 French			15115
0000-0200 Spanish	1100-1430	Quechua	6080 3220
0000-0200 Spanish	1130-1200	Japanese	17490U 11845 9745
0030-0430 English	1200-1300	Spanish	11960 11910 9765
0115-0130 Tajik			6050
0130-0147 Uzbek	1200-1430	English	21455U 17890
0130-0200 Spanish			17490U 15115
0147-0200 Russian	1300-1500	Spanish	15250 11910 9765
0200-0400 Russian			6050
0200-0500 Spanish	1430-1600	English	21455U 17890
			17490U 6080
0400-0430 Georgian	1500-1600	Portuguese	15295 15115
0400-0430 Russian	1600-1800	Portuguese	17490U 15295
0430-0500 German			11925
0430-0500 Japanese	1600-2100	English	21455U 6080
0430-0500 English	1700-2000	English	15350
0500-0515 Kikongo	1800-1830	Czech	17790 15270
0500-0515 Portuguese	1800-1830	Spanish	17490U
0500-0530 Czech	1830-1900	German	17790 17490U
0500-0600 Russian			15270
0500-0700 English	1900-1930	Spanish	15115 (Mo-Fr) (R.
0515-0600 Portuguese			Nacional)
0530-0600 Nordic	1900-2000	Arabic	17790 17490U
			15270
0530-0600 Portuguese	2000-2030	Nordic	17790 17490U
			15270 (Fr-Su)
0600-0630 German			
0600-0700 Russian			
0630-0700 French			

2000-2030	Portuguese	17790 17490U 15270 (Mo-Th)
2030-2100	French	17790 17490U 15270
2030-2400	Spanish	15140 11960 6050
2100-0000	Portuguese	15355
2100-0200	Quechua	6080 3220
2100-2130	German	21455U 17490U 15270 11835
2130-2200	Arabic	21455U 17490U 15270 11835
2200-0030	Quechua	9745
2200-2230	Spanish	11835
2200-2300	Japanese	21455U 17490U 15295
2200-2300	Spanish	15270
2230-2300	Russian	15250
2300-0000	German	21455U
2300-0030	German	17490U 15250
2300-0230	Portuguese	15295

(20-Sep-94/BBCM)

EQUATORIAL GUINEA—*Radio Africa*, which broadcasts from Bata in Equatorial Guinea, has been heard on the new frequency of 15190 kHz. It was heard on this frequency at 0730 on 6 September with a Christian evangelical program in English. *Radio Africa* was also heard with evangelical programming in English on 15190 kHz between 2200 and closedown at 2300 on 6 September. (BBCM)

HONDURAS—According to a press release from Jeff White, *Radio Copan International* is offering for a limited time only, a 50% discount on airtime to pirate broadcasters. This "legal pirate service" offers airtime over *HRJA* on 15675 kHz between the hours of 1900-0200 UTC. Pirate rates are \$25.00 per hour, \$12.50 per half hour and \$6.25 for 15 minutes. For more info, write Jeff White at Radio Miami International, 8500 SW 8th St., Suite 252, Miami, FL 33144 or call 305-267-1728, fax: 305-267-9253. (direct).

Radio *HRET* seems to be running an hour later than previously reported, with sign off at 0310. Change of schedule? (Campbell NU#1288).

Sani Radio, 6300V, occasionally runs late to past 0200. Spanish programming with EE pops, nx, IDs. (Forth/Valko, NU 1288)

INDONESIA—*RRI Ambon* reactivated on 3241.93, first noted 1430-1500* on 14 Aug. Second Program on this channel, with First Program on 4834.89.

UNID noted on 3488v from 1350-1400*. *RPDT2 Tapanuli Selatan* (Padangsidempuan) was listed on 3488 kHz in WRTH 93, but is missing in the 94 edition.

UNID heard from 1147-1400* on 3489v. Heard partial *RRI* ID. Jakarta nx relay @1200, w/local nx at 1300. (August 94/Takayuki Inoue Nozaki-JAPAN/Relámpago DX #59)

A letter from Husen Ismail "English Teacher of SMA," who is associated with *RSPDT2 Halmahera Tengah* in Soasio, tells of an English program on that station "on Monday nights." No times given. (Martin/OZDX #95)

ISRAEL—*Kol Israel* sked from 28 August 1994-31 March 1995.

0400-0755	Hebrew	11590
0400-2000	Hebrew	13755 15615
0400-2215	Arabic	15480 15095 9815 5915 5900
0500-0515	English	17545 9435 7465
0515-0530	French	17545 9435 7465
0800-1700	Hebrew	17545
1100-1130	English	17575 15650 15640
1130-1200	French	17575 15650 15640
1330-1355	Yemenite	15650 (Tu only)
1400-1425	English	15650 15640 (Su-Th)
1400-1430	Russian	11685 11675 11603 11587 (Fr-Sa)
1430-1445	Bukharian	11603 11587
1430-1555	Russian	11685 11675 (Su-Th)
1440-1455	Tat	11685 11675 (Su & We)
1445-1500	Georgian	11603 11587
1500-1530	Persian	15640 11675 11603 11587 (Fr-Sa)
1500-1555	Persian	15640 11603 11587 (Su-Th)

1535-1600	Russian	11685 11675 11603 11587 (Fr-Sa)	0200-0230	Korean	7550 15575	Eur/ENAm
1600-1700	Russian	11675 11603 11587 9435 7465	0215-0300	Spanish	7275 7550 15575	Eur/ENAm
1700-1725	Yiddish	11603 11587 9845 9435 7465	0230-0300	Spanish	7550 15575	Eur/ENAm
1700-2300	Hebrew	9388 11585	0300-0400	Korean	7275 7550 15575	Eur/ENAm
1725-1745	Romanian	11603 9845 9435 7465	0600-0645	French	7550 15575	Eur/ME/Afr
1725-1745	ez Hebrew	11685	0600-0700	English	11945 15155	ENAm
1745-1800	Hungarian	11603 9845 9435 7465	0645-0730	German	7550 15575	Eur/ME/Afr
1745-1800	Ladino	11685	0700-0800	Korean	11945 15155 9510B	ENAm/WEur
1800-0800	Hebrew	7490	0800-0830	English	7550 13670 15575	Eur/ME/Afr
1800-1830	Yiddish	11685 11603 9845 9435 7465	0800-1000	Japanese	7275	NonDir
1830-1845	Romanian	11685	0900-0930	Korean	9570 9580 13670S	Am/Eur/Aust
1830-1900	Russian	11675 11603 9845 9435 7465	0930-1000	English	13670	Eur
1845-1855	Spanish	11685	0930-1015	Spanish	9580 11715S 11725	SAM
1900-1955	Russian	11685 11603 9845 9435 7465	1000-1100	Korean	5975 6135 7275 13670	NonDir
2000-2030	English	17575 11603 9435 7465 7405	1015-1100	French	9580 11725	SAM
2030-2055	French	17575 11603 9435 7465 7405	1030-1100	English	11715S	SAM
2100-2125	Russian	11603 9845 9435 7465 7405	1100-1130	Korean	6145S 9650S 11725 11740	SAM/ENAm
2130-2200	French	15650 15640 11603 9435 7465 7405	1100-1300	Japanese	5975 6135 7275	NonDir
2200-2230	Spanish	15650 15640 11603 9435 7465 7405	1115-1200	Indon.	9570 13670	SEAs
2230-2300	English	15650 15640 11603 9435 7465 7405	1130-1230	Chinese	11740	NonDir
(06-Sep-94/BBCM)			1200-1300	English	7180	NonDir
ITALY — <i>Radio Mariquita</i> , 4115 kHz, is an irregular here between 2100-0100. Their address is Mariquita, c/o GAMT, Box 3, SUC. 10, I-31000 Treviso, Italy. (Basso-PLAYDX via Johnson, NU #1288) These darned Italian stations..are they Europirates or legit broadcasters? Your opinions welcome...-AQ			1200-1300	Korean	9570 13670	SEAs
			1230-1315	Russian	11740	NonDir
			1300-1330	English	9570 13670	SEAs
			1300-1400	Chinese	5975 6135 7275	NonDir
			1315-1400	Indon.	11740	NonDir
			1330-1415	French	9570	SEAs
			1400-1430	French	13670	SEAs
			1400-1430	Korean	11740	NonDir
			1400-1500	English	5975	NonDir
			1400-1500	English	7275	NonDir
			1415-1500	Indon.	9570 13670	SEAs
			1430-1530	Chinese	11740	NonDir
			1530-1600	Korean	9870	ME/Afr
			1600-1645	German	9515 9870	ME/Afr
			1600-1645	Russian	7275 15575	Eur
			1600-1700	English	5975	NonDir
			1615-1700	French	6480 7550	Eur
			1645-1730	Arabic	7275 9515 9870 15575	ME/Afr
			1700-1900	Korean	5975 6480 7550	Eur
			1730-1815	Russian	7275 9515 9870 15575	ME/Afr/Eur
0015-0100	Russian	7550		Eur		
0030-0100	Korean	15575		ENAm		
0100-0200	English	7550 15575		Eur/NA		

1815-1900	French	7275 9515 9870 15575	ME/Afr/Eur	5995	0530-0625	Dutch	nAMw	Bon	300
1900-1945	Arabic	5975 6480 7550 9870	Eur	6015	0330-0425	Eng.	nAMw	Bon	300
1900-1945	Spanish	7275 9515 15575	Eur/ME/Afr	6015	1630-1725	Dutch	swEU	Fle	500
1945-2015	Korean	9515	ME/Afr	6015	1730-1825	Dutch	nwAF	Fle	500
1945-2030	German	7275 7550 15575	Eur	6015	1830-1925	Eng.	nwAF	Fle	500
1945-2030	Russian	5975 6480 9870	Eur/ME/Afr	6015	2030-2125	Dutch	sAF	Mad	300
2030-2100	English	5965B 5975 9640 9870	SEA/ME/Af/ Eur	6020	0030-0125	Eng.	nAMe	Bon	300
2100-2145	French	5965B 7550	Eur	6020	0130-0225	Dutch	nAMc	Fle	500
2100-2200	English	6480 15575	Eur	6020	0230-0325	Span.	CAR	Fle	500
2100-2200	Korean	7275 9640	SEAs	6020	0630-0725	Dutch	sEU	Fle	500
2100-2300	Japanese	5975	NonDir	6020	0930-0955	Dutch	SUR	Bon	300 110
2145-2230	German	5965B	Eur(W)	6020	1200-1225	Span.	cAM	Bon	300
2200-2245	Spanish	15575	Eur	6020	1630-1725	Dutch	sAF	Mad	300
2200-2300	Chinese	7275 9640	SEAs	6020	1730-1925	Eng.	sAF	Mad	300
2200-0400	Korean	13670 (ry Domestic Radio 1)		6020	1930-2025	Eng.	nwAF	Fle	500
2245-2330	Russian	15575	Eur	6020	2030-2125	Dutch	nwAF	Fle	500
2300-2345	Indonesian	7275 9640	SEAs	6020	2130-2225	Dutch	nwAF	Fle	500
2300-0100	Korean	5975	NonDir	6020	2130-2225	Dutch	Car	Fle	500
2330-0015	Arabic	15575	Eur	6020	2230-2325	Span.	CAR	Fle	500
				6020	2330-0025	Eng.	nAMc	Bon	300
				6045	1130-1325	Eng.	EU	Fle	500
				6165	0030-0125	Eng.	nAMc	Bon	300
				6165	0130-0225	Dutch	nAMc	Bon	300
				6165	0230-0325	Span.	sAMw	Bon	300
				6165	0330-0425	Eng.	nAMw	Bon	300
				6165	0430-0525	Span.	MEX	Bon	300
				6165	0530-0625	Dutch	nAMw	Bon	300
				6165	2330-0025	Eng.	nAMc	Bon	300
				7130	0630-0725	Dutch	EU	Fle	500
				7130	0730-0900	Dutch	swEU	Fle	500
				7130	1130-1325	Eng.	wEU	Nau	100
				7260	0930-1125	Eng.	FE	Pet	250
				7260	1330-1425	Dutch	FE	Pet	250 244
				7285	2330-0025	Dutch	seAS	Mad	300
				7300	1630-1725	Dutch	wEU	Sam	250
				7305	0030-0225	Eng.	sAS	A-A	500
				7365	1430-1525	Dutch	sAS	A-A	500
				7365	2130-2325	Indo.	IND	Tas	200
				9470	0630-0900	Dutch	EU	Mos	250
				9590	2130-2325	Indo.	IND	Mad	300
				9590	2330-0025	Dutch	seAS	Mad	300
				9605	1730-2025	Eng.	eAF	Mad	300
				9635	0900-1025	Dutch	Bosnia	Fle	500 (Fr)
				9715	0630-0725	Dutch	NZ AU	Bon	300
				9715	1130-1155	Span.	sAMnw	Bon	300
				9715	1200-1225	Span.	cAM	Bon	300
				9720	0730-1025	Eng.	NZ AU	Bon	300
				9720	1030-1125	Dutch	AU	Bon	300
				9810	0930-1125	Eng.	seAS	lrk	250
				9840	0030-0125	Eng.	sAMn	Mad	300
				9860	0130-0325	Eng.	sAS	Mad	300
				9860	0900-1025	Dutch	Bosnia	Fle	500 (Fr)
				9860	1130-1325	Indo.	IND	Via	200
				9860	1330-1425	Dutch	seAS	Via	200

S = Sackville relay B = Skelton (UK) relay

(Toru Yamashita, Korean Service, Radio Japan)

KUWAIT—*Radio Kuwait* sked since June 94:

0000-0159	Arabic	15495		
0159-0359	Arabic	6055		
0359-1315	Arabic	15495 6055		
1315-1605	Arabic	13620 9880		
1605-1745	Arabic	11990 9880		
1800-2100	Arabic	9840		
1800-2100	English	11990		
2100-2400	Arabic	15495 9840		

(30-Aug-94/BBCM)

NETHERLANDS—*Radio Nederland* complete schedule W94 (25 Sep 94-25 Mar 95):

5905	0030-0225	Engl.	sAS	Dus	100
5955	0630-1125	Dutch	wEU	Fle	500
5955	1130-1625	Dutch	wEU	Fle	500
5955	1630-1725	Dutch	wEU	Fle	500
5995	0430-0525	Span.	cAM	Bon	300

9860	1530-1625	Dutch	ME	Fle	500
9860	1630-1725	Dutch	seEU	Fle	500
9860	1730-1825	Dutch	ME	Fle	500
9860	1830-2125	Eng.	wAF	Fle	500
9895	0630-0725	Dutch	seEU	Fle	500
9895	0730-1725	Dutch	EU	Fle	500
9895	1330-1625	Eng.	sAS	Mad	300
9895	1730-1825	Dutch	eAF	Fle	500
9895	1830-2125	Eng.	wAF	Fle	500
11655	0030-0125	Eng.	CAR	Mad	300
11655	0130-0325	Eng.	sAS	Mad	300
11655	0630-0725	Dutch	NZ AU	Bon	300
11655	1630-1725	Dutch	eAF/EU	Mad	300
11655	1730-1925	Eng.	wAF	Fle	500
11655	1930-2025	Eng.	c+wAF	Mad	300
11655	2030-2125	Dutch	c+wAF	Mad	300
11730	2130-2225	Dutch	nAMe	Bon	300
11730	2230-2325	Span.	sAM	Bon	300
11895	0730-0825	Eng.	NZ AU	Bon	300
11895	1030-1125	Dutch	NZ AU	Bon	300
11900	1130-1225	Dutch	swEU	Fle	500
11935	0730-0900	Dutch	seEU	Fle	500
13700	0830-0925	Eng.	NZ AU	Irk	250
13700	1130-1325	Indo.	IND	Tas	200
13700	1330-1525	Dutch	sAS	Fle	500
13700	1530-1625	Dutch	ME/AF	Fle	500
13700	2330-0025	Dutch	seAS	Vla	200
13770	1330-1425	Dutch	wAU	Fle	500
13770	1430-1525	Dutch	sAS	Fle	500
15120	1630-1725	Dutch	SUR	Bon 300 (Sa)	
15150	1330-1625	Eng.	s+eAS	Mad	300
15225	1930-2025	Eng.	wAF	Bon 300 080	
15225	2030-2125	Dutch	wAF	Bon 300	
15315	0130-0225	Dutch	sAMw	Bon 300	
15315	0230-0325	Span.	sAMw	Bon 300	
15315	2130-2225	Dutch	sAMs	Bon 300	
15315	2230-2325	Span.	sAMs	Bon 300	
15585	1130-1325	Indo.	IND	Mad	300
17580	1030-1125	Dutch	seAS	Mad	300
17580	1130-1325	Indo.	IND	Mad	300
17605	1630-1725	Dutch	nAMe	Bon 300 (Sa)	
17605	1730-1825	Dutch	wAF	Bon 300	
17605	1830-2025	Eng.	wAF	Bon 300	
17605	2030-2125	Dutch	wAF	Bon 300	
21480	1030-1125	Dutch	eAS	Mad	300
21505	0930-1025	Eng.	AU/AS	Fle	500
21505	1030-1125	Dutch	AF	Fle 500 (Sa)	
21505	1030-1125	Dutch	AU/AS	Fle	500
21515	1730-1825	Dutch	wAF	Bon 300	
21515	1830-1925	Eng.	wAF	Bon 300 080*	

Compiled from a TENTATIVE schedule dated 9 Sep 1994; the transmissions marked with *

seem to have moved to 15315 kHz according to *Media Network*, 15 Sep 1994; other minor changes may follow. Remark the new frequency for English to Europe at 1130-1325: as the Flevo transmitter is too close to England, they hire a DW transmitter in East Germany to reach England! (16-Sep-94/Paul Brems-BELGIUM/SW Echo)

As of 25 September, *Radio Netherlands* suspended direct shortwave broadcasts in French to Africa and Portuguese to Brazil. Programs in Indonesian were also due to be axed, but appear to have been saved at the last minute. (BBCM)

NEW ZEALAND—*Radio New Zealand International* frequency schedule, 01 Oct 1994 -19 Mar 1995:

0543-1206	9700	Saturday
0601-1206	9700	Sunday
0717-1206	9700	Mon-Fri
1307-1649	9655	Occasional use for sporting broadcasts
1650-1849	9655	Mon-Fri
1850-1958	11735	Sunday
1850-2005	11735	Saturday
1850-2050	11735	Mon-Fri
1958-0600	15115	Saturday/Sunday
2005-0542	15115	Friday/Saturday
2051-0716	15115	Mon-Thu

(7-Sep-94/Adrian Sainsbury, Frequency Manager RNZI/direct)

A techie tour of RNZI:

RNZI operates two high frequency and two low band antennae manufactured by *T.C.I.* of California. One of each beams 35 degrees and one of each beams 325 degrees. They can be driven individually, or when fed in parallel the beam widens to 140 degrees.

HR 2/4/0.5 is a five band curtain antenna with a frequency range of 9.5 to 17.9 MHz. It consists of 8 folded dipoles arranged in two columns of four dipoles. The average angle of elevation is 10 degrees and the gain is 17db at 9. mHz which gives and ERP of two megawatts rising to 20 db at 17 mHz which gives and ERP of five megawatts in broad terms.

In March 1993 the low frequency antenna was installed. HR 2/2/1 is a four band dipole curtain antenna with a frequency range of 5.95 to 12.05 mHz. It consists of four dipoles arranged in two columns of two dipoles. The average take-off angle is 12 degrees with a gain of 16 db at 6 mHz increasing to 19 db at 12 mHz.

The antennas are fed with 300 ohm open line feeders with a complex matching and switching system. A large reflecting mesh forms a backdrop to each antenna array and the tension on the dipoles is maintained with a system of pulleys and counterweights.

Our 100kw transmitter was manufactured by *Thompson CSF* of France and installed in 1990. It includes a state-of-the-art control and telemetry system operating through a standard RS232 computer port. It is unmanned and is controlled from the Radio New Zealand Master Control room in Broadcasting House, Wellington.

The transmitter is single sideband capable and is the only transmitter offered with Dynamic Amplitude Carrier Modulation as standard. It is frequency agile, and can be tuned automatically to any frequency in the HF broadcast bands.

Dynamic Amplitude Carrier Modulation is a system designed to reduce power costs by reducing the carrier level transmitted to a level necessary for demodulation of the received signal. A number of international broadcasters are now retro-fitting this system to older equipment to obtain power savings.

The main features of the transmitter are: high level modulation of the final RF stage due to DMP (Duration Modulated Pulses) modulation; outstanding operational flexibility due to the option of several modulation systems including SSB and AM stereo; high performance frequency slaving for 100 preset frequencies, or automatic tuning to any frequency in the broadcast bands.

The transmitter is equipped with three well-tried transmitting tubes—2 x TH581 with hypervapotron cooling and one TH581 with air cooling. The station broadcasts 19 hours a day, and the frequency is changed at intervals to cater for reception variations. The transmitter

is sited at Rangitaiki, 41 km east of Taupo in the centre of the North Island. The transmitter coordinates are 176.25E and 38.50S. Programmes are fed to the transmitter by microwave link from the studios in Wellington, 400 kms south of Taupo. (19-Sep-94/Adrian Sainsbury, Frequency Manager RNZU/direct)

The Radio Reading Service-Levin. Adding 5960 USB in addition to 7290 Sunday-Friday from 2030-0500. Also on 3935 which signs off at 1000. (Cushen/August NZ DX Times) See last month...which is it? This sez 7290 remains active.-AQ

NIGERIA—*The Voice of Nigeria*, that country's decimated foreign service, appears to be in for a shot in the arm. According to a broadcast, "The federal government is to assist the *Voice Of Nigeria* [VON] to enable it [to] broadcast to all parts of the world from the middle of next year. To this effect, the government has signed an agreement with a firm based in Switzerland...Under the agreement, the company will install the necessary facilities between now and January next year." (29-Aug-94/R. Nigeria, Kaduna/BBCM) [We shall see. Like renewal plans for NY's Times Square, such announcements recur like clockwork, and no action ever follows.-AQ]

NORWAY—*Radio Norway's* English Schedule (Sunday Only) from 25 September to 25 March 1995:

0800	15175	FE, NZ
1200	11850	As, Aust
1200	15165	As, Aust
1300	9590	Eur
1800	7120	EEur, ME, E&SAfr
1800	11930	E/C/SAfr
1900	5960	Eur, WAfr
1900	7215	NZ
1900	9590	Eur, Afr
0000	6115	SAm
0000	6120	NAm
0200	9560	N/CAM
0500	5905	WNAm

(Olav Mo Grimdalen, Freq. Coordinator, Radio Norway/13-Sep-94/Bruce MacGibbon/SW Echo)

PAKISTAN—*Radio Pakistan*, Karachi/Islamabad; is now transmitting in English at 0800–0850 and 1100–1120 on 15625 (ex 21520) and 17900 kHz. (10-Sep-94/RADIO WORLD/Cees van Oudheusden–NETHERLANDS/Jan Nieuwenhuis–NETHERLANDS/BENELUX DX Club/SW Echo)

PAPUA NEW GUINEA—According to a fax received at IARN HQ from IARN Region 3 HQ in Sydney, *Radio Free Bougainville* moved to 3850 kHz to avoid QRM from PNG's *Radio United Bougainville* on 3880. The latter was formerly on 3870 and moved to 3850 on 6 August. On first day of operation, it was noted at 0800. Requests for QSL on the new frequency of *R. Free Bougainville* should be accompanied by 5 IRCs and sent to: Sam Voron, 2 Griffith Ave., Roseville, NSW, Australia 2069. [On the same program, KIMAN said *R. Free Bougainville* was "newly revamped" but didn't mention power output. On July 17 he said the power was decreased from 80 watts to 5.] (7-Aug-94/IARN/John Norfolk)

PARAGUAY—Summary of current SW activity:

- 5935v ZPA6 *Radio Guairá*: has been off the air for several years due to technical problems
- 5995.0 ZPA15 *Radio Amambay*: inactive since 1985
- 6014.9 ZPA10 *Emisoras Paraguay*: inactive since 1992
- 6025.0 ZPA1 *Radio Nacional del Paraguay*: inactive since 1992. Will move to their old 25mb frequency (probably 11955), upgrading to 8 kW.
- 6110.0 ZPA11 *Radio Caritas*: inactive since 1986
- 9735.1 ZPA1 *Radio Nacional del Paraguay*: sked 0745–0400 (Sun 0845–) Harris xmtr has max power of 100 kW, but is running at about 40 kW.
- 11940 ZPA5 *Radio Encarnación*: sked 0755–0400 with Teletron (Paraguayan-built) 500W xmtr

15210 ZPA7 *Radio Cardinal AM Stereo*: plans to begin operations here on *Radio Guarani's* old frequency. As of February 94, they have only a SW license and no transmitter

(August 94/Takayuki Inoue Nozaki–JAPAN/Relámpago DX #59)

PERU—*Radio Municipal de Paruro* is a new station on 5305.21. Heard in August from *1100v–1140 fadeout. Morning folklore pgm is called "*Amanecer Andino*," with talk in Quechua. (August 94/Takayuki Inoue Nozaki–JAPAN/Relámpago DX #59)

POLAND—Latest sked from *Polish Radio Warsaw*:

0500–0525	Belarussian	7285 6035
0500–0525	Ukrainian	7270 6135
0530–0625	Polish	7285 6095 6035 5995
0630–0655	Polish	7285 6095 6035 5995
1100–1125	Russian	9525 7145 6135
1130–1155	German	9525 7145 6135
1200–1255	English	11815 9525 7270 7145 6135
1300–1325	Lithuanian	11815 9540 9525 7145 6135
1330–1355	Esperanto	11815 9540 9525 7145 6135
1400–1425	German	9540 9525 7285 7145 6135 6095
1430–1455	Russian	9525 7270 6095
1430–1455	Ukrainian	7285 6135 6035
1500–1525	Belarussian	7145 6095
1500–1555	English	9525 7285
1500–1525	German	7270 6135
1530–1555	Czech	7270 6095
1530–1625	Polish	7145 6135
1600–1625	Russian	7270 6095 5995
1630–1655	German	7270 6135 6095 5995
1700–1755	English	7285 7270 5995
1700–1725	Lithuanian	6095
1800–1825	Belarussian	7285 6035
1800–1825	German	7270 5995
1830–1855	Lithuanian	7270 6095
1830–1925	Polish	7285 6135 5995
1835–1855	Ukrainian	6035

1445-1500	Konkani	7270 (Tu-We)	0330-0430	Chichewa	3955 SAfr
1445-1500	Tulu	7270 (Th-Sa)			Mo-Fr
1458-1550	English	11870 (Sa only)	0400-0500	Port.	3975 SMoc
1458-1555	English	11870 (Mo-Fr)	0400-0500	Port.	9655 NMoc
1458-1558	English	11870 (Su only)	0500-0600	French	11725 C/WAfr
1458-1600	English	9810 (Mo-Sa)	0500-0600	Port.	11750 Ang/CV
1500-1530	Kannada	7270	0900-1000	Tsonga	7225 SMoc
1530-1547	Yao	11790*			Sa-Su
1558-1630	Boran	9865 (Mo only)	1000-1100	English	17810 EAfr
1558-1630	Oromo	9865 (Tu-Su)	1100-1130	Port.	7225 SMoc
1607-1625	Dari	7270			Mo-Fr
1611-1643	Swahili	9795* (Tu only)	1100-1130	Port.	15240 NMoc
1611-1658	Swahili	9795* (We-Su)			Mo-Fr
1625-1658	M'gsy	7270*	1100-1200	English	9730 SAfr
1630-1700	Amharic	9865	1130-1200	Port.	1524 Ang Mo-Fr
1658-1730	Somali	9810* 11840			
1700-1730	Tigrinya	9865	1400-1700	Swahili	11900 E/CAfr
1730-1800	Amharic	9865	1500-1800	Chichewa	6120 SAfr
1800-1832	Farsi	9810	1500-1800	English	7225 S/E/CAfr
1827-1845	Port.	6045* (Th only)	1500-1800	Lozi	5955 SAfr
1827-1900	Port.	6045* (Fr-Tu)	1600-1700	English	15240 WAfr
1830-1848	French	9565* (We)	1800-2000	French	7225 C/W/NAfr
1830-1903	French	9565* (Th-Tu)			
1857-1945	Arabic	9810 (Mo-We, Sa)	1800-2000	French	9550 C/W/NAfr
1857-2000	Arabic	9810 (Su & Fr)	1900-2000	Port.	3975 Moc
1857-2000	Arabic	9810 (Th only)	2000-2100	Port.	7225 Ang/CV

All 100 kW except *, which are 75 kW.

(30-Aug-94/FEBA/direct)

SOMALIA—The Australian government will fund a project to upgrade *Radio Free Somalia*. Rotary Australia has received a check and will purchase the equipment while the International Amateur Radio Network [IARN] will supply volunteers to install and train members of the Somali Amateur Radio Club. (24-Jul-94/IARN/John Norfolk)

SOUTH AFRICA—Latest sked for *Channel Africa*:

0300-0400	French	9655 IOc
0300-0400	Swahili	6000 E/CAfr M-F
0300-0500	English	5955 SAfr
0300-0500	English	7185 SAfr
0300-0500	English	9585 E/CAfr
0300-0500	English	11900 WAfr
0300-0600	French	9520 CAfr

DOMESTIC SERVICES

0300-0455	4810 Afrikaans Stereo
0455-1550	7270 Radio Oranje
0500-1555	7285 Afrikaans Stereo
1555-2200	3230 Radio Oranje
1600-2300	4810 Afrikaans Stereo
2200-0450	3230 Radio Oranje
2300-0300	4810 Radio 2000

(direct/Tom Sundstrom)

Channel Africa is to add 6 new 100 kw transmitters due to the success of its relay agreements with *DW*, *VOA* and the *BBC*. The former Western Hemisphere curtain arrays are going to be redirected on African beams. (Sharp-DXSF via Johnson NU#1288)

SWAZILAND—*Trans World Radio* has installed a 50-kW shortwave transmitter, relocated from Bonaire. It carries English at 1700 on 7120 kHz. So they now have two 100-kW, one 50-kW and two 25-kW shortwave

transmitters as well as the mediumwave transmitter of 50-kW. The station has also received approval from the Ministry of Broadcasting for an FM license and Swazi-language programmes will start later this year. And they are also raising funds in the Swazi churches to purchase an *HCJB*-built transmitter to be set up in Manzini, with a slave [transmitter] in Mbabane. (8-Sep-94/ Media Network/BBCM)

THAILAND—Here's another *Radio Thailand* sked, incorporating the station's dilapidated original facilities with the shiny new *VOA* Udorn relay. This differs from last month's sked, which I thought definitive. Now I'm no longer sure which is right. You figure.

0000-0030	English	11905 11845* 9700* 9655 4830
0030-0100	English	15370* 11905 11845* 9655 4830
0100-0200	Thai	15370* 11905 9655 4830
0300-0330	English	15370* 11905 9655 4830
0330-0430	Thai	15370* 11905 9655 4830
1100-1115	Vietnamese	11905 9655 7245* 4830
1115-1130	Cambodian	11905 9655 7245* 4830
1130-1145	Lao	11905 9655 6040* 4830
1145-1200	Burmese	11905 9655 6040* 4830
1200-1215	Malay	11905 11805* 9655 4830
1215-1230	Indonesian	11905 11805* 9655 4830
1300-1315	Japanese	11905 11845* 9655 4830
1315-1330	Chinese	11905 11845* 9655 4830
1330-1400	Thai	11905 11845* 9655 4830
1800-1900	Thai	11905 9690* 9655 4830
1900-2000	English	11905 9700* 9655 4830
2000-2015	German	11905 9700* 9655 4830
2015-2030	French	11905 9700* 9655 4830

2030-2045	English	11905 9700* 9655 4830
2045-2115	Thai	11905 9700* 9655 4830

(23-Aug-94/BBCM)

TONGA—*Radio Tonga*, which operated on 5030 kHz, has been off the air for some time. The transmitter is still in the building but the dipole antenna was blown down in a hurricane. The return is a long way off. (D'Angelo/ Johnson NU #1289)

UNITED ARAB EMIRATES—*UAE Radio Abu Dhabi* sked:

0000-0200	AA ES	11885 9770 9605 (not b/c during Ramadan)
0100-0200	AA DS	13605 11885 9780
0200-0300	AA DS	6180
0300-0400	AA DS	21500 17855 17645 9695 7215
0400-0500	AA DS	21500 11885 9695 7215
0500-0600	AA DS	13605 11885 9695
0600-0700	AA DS	17855 15265 13605
0700-0800	AA DS	17855 17645 15265
0800-0900	AA DS	21630 21500 17855 17645
0900-1000	AA DS	21735 21630 21500 17855
1000-1200	AA DS	21735 21630 21500 17855 17740
1200-1300	AA DS	21735 17740 15265 11885
1300-1400	AA DS	21735 15265 13605 9535
1400-1500	AA DS	15315 15265 13605 9535
1500-1600	AA DS	15315 9770 9535
1600-1700	AA DS	15265 11970 9770 9695 9535
1700-1800	AA DS	15265 11970 11885 9695 7215
1800-1900	AA DS	15265 11970 11885 9695 7215
1900-2200	AA DS	11885 9790 9770 6180
2200-2400	EE ES	11885 9770 9605 (ry of Capital Radio 2230- 2300)

(13-Sep-94/BBCM)

UNITED STATES OF AMERICA—

According to *World of Radio*, *Radio Marti* has beefed up its shortwave schedule. Look for additional broadcasts from 2300–2400 on 11950 kHz, and from 0000–0200 on 11910. Many Marti frequencies are now jammed. A new Marti mediumwave channel, 1020 kHz, was at first believed to be a low-power relay via Guantanamo; however, it's actually a relay via *Caribbean Christian Radio* from Grand Turk in the Turks and Caicos Islands. (BBCM)

WJCR's third transmitter is off the air because they are focusing on their new TV outlet. *WJCR* operates on 7490 kHz 24 hours a day, *WJCR* #2 is on 13595 in EE and Chinese. (Johnson, NU #1288)

WRNO is now offering a special limited edition autographed Will Nelson QSL for a "day-date-time" report to "Outlaw for Peace" c/o *WRNO Worldwide*, 850 Paisley #6, Spicewood, TX 78669. All reports are eligible for drawing of 10 Willie Nelson "Moonlight Becomes You" CDs! (Berg, NU #1288) Sounds great, Jerry!—CL

At 2100 on 20 September on 13770, *WCSN* made its final *Monitor Radio International* broadcast. *WCSN* has been sold to Prophecy Countdown, Inc., of Mount Dora, Florida. Since early this year, *WCSN* has been airing both MRI and PCI programs.

WSHB has now completed the high-band portion of its new Europe/Africa antenna, and began broadcasting to Africa at 0300 on 21 September. As of 27 September, *WSHB*'s European broadcasts were shifted to the new antenna.

According to C. Ed Evans, Senior Station manager, "This is both a happy time and sad time for us at HBS. While we are proud of our new antenna here at *WSHB*, we are also sad that we will no longer have Scotts Corners, Maine, as part of our SW broadcasts. But we are VERY PROUD of the loyal and dedicated staff at *WCSN*, and I want to express my gratitude and great respect to them for all that they have done these past nine years.

"If you are so inclined, I am sure that Stes, our Station Manager at *WCSN*, would

appreciate hearing from you. You can write to him at:

WCSN
P.O. Box 130
Costigan, ME 04423
USA

Thanks,

Ed" (direct/C. Ed Evans)

Per a *Latvian Radio* broadcast on 24 August, Latvian Premier Valdis Birkavs personally asked President Clinton not to discontinue *VOA*'s Latvian programming. Clinton's reply assured Birkavs that *VOA* Latvian would continue. (BBCM) Hmm...perhaps we could persuade the Latvian Premier to lean on Clinton not to close down Bethany either...—AQ]

And speaking of discontinuances, this note from *VOA* Bethany engineer John Vodenik speaks for itself:

"Hello everyone. I told you I would keep you informed of the progress of the consolidation of *VOA* and RFE/RL. The final DRAFT of the plan was sent to the White House, Monday, Aug. 29, 1994. It shows Bethany closing along with various RFE/RL sites. No final action or dates have been approved as yet. The date I keep hearing through the system grapevine, is December 1, 1994. Things CAN still be changed, as well they need be.

"*VOA* management believes in DBS (direct satellite broadcast) and direct placement. DBS is a LONG way off, and placement is subject to censorship by the host station or government. As a matter of fact, it is going on right now. Congress still has to pass the bill. We still have a chance to try to keep the U.S. Government from shooting the *VOA* in the head. Let me say, that writing to Director Duffy is a waste of time. He is ANTI-*VOA*! He wants to close down the Voice. Engineering management is top heavy with managers. There are 224 "engineers" in the Washington plant. 173 of these are managers. That is 2 supervisors for every 7/10 of a person. Just a little more than the Vice President called for. I think he wanted something like 1 supervisor for every 7 or 8 people, I forget exactly.

"We at VOA need your support. You can help by calling, writing, whatever, your congress people and senators. Tell them that the consolidation plan is a disaster to the United States ability to conduct foreign affairs. VOA via shortwave is the most cost effective and reliable vehicle we have, to deliver the message. DBS is in the future, needed to be looked into, yes. To replace HF radio now..NO. Direct placement leaves the Voice of America open to be censored, programs shut dow, taxpayer dollars spent on a system that has very little, if any way of checking IF the program ran as recorded, if it aired at all.

"On Oct. 1, 1996, VOA, RFE, and RL will cease to be a broadcast service. They will become a language service, as an input into the broadcast system. The Voice of America faces a great threat to it's integrity and operating capability. Your support is needed, now more than ever. I trust that the overseas readers and listeners have the means to become involved also. As I said, I may not have a position with the Voice after this thing shakes out. I hope I do. But in case things work out differently than hoped for, let me tell you that I am doing this FIRST AND FOREMOST, to try to prevent the destruction of the Voice of America. Future employment with then is of course important. BUT it IS NOT the sole driving force in my efforts. The interests of the United States are number 1 in my efforts. Remember, the Sound of Silence may be the Voice of America if we do not slow down this train to nowhere soon.

"Thanks for your support to us, the people of the Voice during these trying times. Bless you all."

73 from Bethany,
John Vodenik

(02-Sep-94/John Vodenik/SW Echo)

URUGUAY—A firsthand report on the state of SW from this country:

6000.0 CXA2 *Radiomundo*: ceased SW long ago.

6010.0 CXA5 *S.O.D.R.E.*: uses a homebrew SSB xmtr (built from an old police xmtr) on this channel.

6033.8 CXA30 *Radio Nacional*: off since 1985, although the station may eventually reactivate the 1 kW xmtr here.

6045.1 CXA61 *Radio Integracion Americana*: broadcasts with 1 kW from Rivera, on the border with Brasil. Official sked is 1300-1400 and 0100-0200, but actual sked seems erratic.

6074.2 CXA3 *La Voz de Artigas*: currently running 5 kW but only 50% modulation with nominal sked of 1330-1800 weekdays, 1100-2300 Sa-Su.

6124.9 CXA4 *S.O.D.R.E.*: relays CX38, 1290 kHz, with 1 kW.

6139.9 CXA20 *Radio Monte Carlo*: their 5 kW xmtr is used for three frequencies, switching crystals alternatively. Sked 1030-1600 daily. Since *R. Monte Carlo* and *R. Oriental* belong to the same company, the latter is sometimes noted on the former's freqs.

6155.0 CXA13 *Radio Carve*: silent since 8 or 9 years ago when they returned their SW license, abandoning the SW xmtr at their site.

6170.0 CXA21 *Radio Fenix*: ceased SW ops long ago. No possibility of reactivation, as SW xmtr is gone.

9595.0 CXA72 *Radio Monte Carlo*: cf. 6139.9kHz. Sked 2330-0300 daily.

9620.06 CXA6 *S.O.D.R.E.*: relays CX26, 1050 kHz. 'Tho authorized up to 20 kW, presumably operating now as low as 1 kW.

11735.0 CXA7 *Radio Oriental*: this freq officially assigned to *R. Oriental*, but it uses xmtr (5 kW) of *R. Monte Carlo*. Sked 1630-2330.

11835.7 CXA19 *Radio El Espectador*: As of info from 12 June, SW xmtr inactive due to burnt out 833A final, burned xfmr, and downed antenna. Licensed for 5kW, actual power had been 400W until it fell silent. Supposedly due to be reactivated.

15275.0 CXA14 *S.O.D.R.E.*: irregular operation with 10 kW licensed.

In the UTE category is 4945.0 CVA2117 *La Voz de Artigas*: uses two xmtrs to link studio w/ sports stadium; one semi-fixed xmtr (250W) here, with a 20W mobile one, both AM, used only during special sporting events. (July-94/ Horacio A. Nigro & Takayuki Inoue Nozaki/ RELAMPAGO DX)

VENEZUELA—*Radio Barquisimeto* has been sold to new owners who plan to reactivate their shortwave service on 4990/ 9510 kHz. (WOR/August NZ DX Times)

Radio Caracas Radio continues to broadcast on 25705 around 1800 to 1900 in USB. The station says it may QSL reports that were delivered in person by Manuel Rodriguez Lanza, a Venezuelan DXer. (Clark, NU#1289)

VIETNAM—*Radio TV Son La* has moved to 4820.01, noted on 15 August around 1215–1230. Now fighting with *LV Evangélica de Honduras*. Local pgm in Hmong, then into Thai dialect. Drifted to 4821.12 the next day. (August 94/Takayuki Inoue Nozaki-JAPAN/ Relámpago DX Logging #53)

ZAIRE—On 29th August the *Radio Gatashya* stations in Goma and Bukavu increased their daily output from three to eight hours. One of the Swiss journalists in charge of the operation confirms that the station's shortwave frequency is 6120 kHz and that it also continues to broadcast on VHF/FM. (9- Sep-94/Media Network/BBCM)

Believers Express' station, *Cherith Radio*, now broadcasts with 10 watts on FM from Bukavu. The station began in late 1993 with an *HCJB*-supplied studio and xmtr. The station hopes to upgrade to 100W on FM and to add a shortwave service. No date was given when SW might begin. (Summer-94/HCJB'S "Around the World"/Marlin Field)

PIRATES-NORTH AMERICA—The "pirate of the month" this outing is *Radio Azteca*. This station features host Bram Stoker (of Dracula fame) whose humor is his claim to fame. Regular segments include "Ask Dr. Radio", in which Dr. Radio answers all sorts of questions, "Animal Stories" taken from Chicago's WLS AM station from the 70's era and the mailbag segment. In its two year existence, 10 different shows have been

produced and number 11 should be out by now. Best time to hear *Radio Azteca* is Saturday evenings between 2245–2330 in the 7415 kHz range. They are an excellent QSLer. Send reports care of Box 452, Wellsville, NY 14895. Three 29 cent stamps or \$1.00 for return postage should be enclosed.

Dick Smith, head of the Field Office Bureau, whose name gives all pirate operators the shakes, has been replaced by a female lawyer, Beverly Baker. This is the first time that a FOB chief is not an engineer. (Zeller, NU #1289)

PIRATES-EUROPEAN—The 75 meter band is now a favorite hangout for European pirates, especially around the 0000–0230 time period. Scan the frequencies from 3895 to 3935 this winter when reception MAY be possible in ECNA on Fri/Sat eves. (Campbell NU #1289).

PIRATES-TAIWAN (UPDATE)—TAIPEI, Sept 13 (Reuter)—Taiwan police arrested the popular host of the island's most outspoken pirate radio station on Tuesday after he refused to appear in court.

A Taipei District Court judge issued a warrant for the arrest of Hsu Rong-chi, talk show host for the illegal *Voice of Taiwan* station, on Monday after he repeatedly ignored orders to appear in court, local newspapers said.

Police arrested Hsu as he was holding a news conference in the Legislative Yuan building, an aide to opposition Democratic Progressive Party legislator Chen Chao-nan said by telephone. The court ordered Hsu be detained, saying it feared he would abscond.

His arrest prompted several dozen taxi drivers to gather outside the court in protest. The drivers were surrounded by hundreds of riot police. Hsu had called the news conference to protest against a court order that had prevented him from travelling to the United States last weekend. The court issued the travel ban because Hsu is facing several charges, including calling an illegal public gathering. "Preventing my departure at the airport has adversely affected Taiwan's international image," Hsu said in a protest letter to Premier

Lien Chan. "I hope I will be the last citizen to be prevented by the Nationalist Party from leaving Taiwan."

Hsu staged a 32-hour sit-in protest at the airport while hundreds of taxi-drivers and supporters waited outside. Hsu's *Voice of Taiwan* station is highly critical of the ruling Nationalist Party. Hsu has said he will not apply to legalize the station because he fears the Nationalists will not allow real freedom of speech. The government has confiscated the station's transmitting equipment three times this year. On the last occasion on August 31, *Voice of Taiwan* resumed broadcasting within hours. Taiwan last year lifted a four-decade-old ban on new radio stations in an attempt to liberalize the island's electronic media. Most illegal stations have not applied to register under the new and strict regulations governing private stations. The island currently has 33 radio stations, 21 of which are private. *BCC*, the largest, is controlled by the Nationalists. REUTERS Copyright 1994 Reuters America Inc. All rights reserved. (13-Sep-94/Arthur Pym/SW Echo)

PENNANTS—*Radio Nuevo Mundo*, the well-known Latin American DX newsletter, observed their 16th anniversary in August 1994. An anniversary pennant is available for US\$6 (or 7 IRC's) from Takayuki Inoue Nozaki, 18-11 Fuzimi-cho, Hachioji-shi, Tokyo 192, JAPAN.

FILE UNDER "MISCELLANEOUS"...

BOYS WILL BE BOYS—From the FCC's "High Profile Field Operations Bureau Activites" of 29 August: The Coast Guard

asked the Anchorage Office to assist with a marine distress call that they suspected could be false because they could hear the background noise of jet airplanes taking off. FCC investigators used mobile direction-finding equipment to identify two teenage boys with a hand-held transmitter calling MAYDAY from their bicycles along the shores of Lake Hood which is at the edge of Anchorage International Airport. The boys' parents were issued warning letters explaining the seriousness of the false message. The Coast Guard spent more than \$13,000 per hoax call last year in Alaska.

DOES THE FCC OFFER A FIRST CLASS OSTEOPATH PERMIT?—

The St. Paul, MN, FCC office received a call from a very angry young man who claimed that his FCC radio license did not give him enough authority. He filed the FCC application, paid the fee, and now had a license that was useless. When questioned further, he indicated that he had a high-powered stereo system in this car; and he enjoyed playing the unit at levels that would "crack the bones" of nearby pedestrians. After the first time police had charged him with disturbing the peace, he obtained the FCC license so he could play his high powered stereo. Unfortunately, the police didn't see things his way. They were unimpressed with the FCC license, and again charged him with disturbing the peace as he went about "cracking the bones" of nearby pedestrians.

OK, troops. Ten-hut! Forward your DX tips this way, or the whole platoon'll have to take a 20-mile march with R-390s strapped to their backs! Hup! Hup! Hup!

WANTED

HALLICRAFTERS S-29 Sky Traveller (military designation R-80) or S-39 Sky Ranger, complete in working condition only. These were 1940-43 and 1945-46 4 band AC/DC portables. 10,000 Sky Travellers were built; I want only one. If you are a Warbird pilot, I have interesting trades. Also want 1984 and 1985 WRTH.

Doug Robertson, 4045 Sunset Lane, Oxnard, CA 93035. (805) 985-6289 lv. msg. I'm away frequently but will return calls.

FOR SALE

SONY ICF-SW77 New condition. Still in box. Serial # 47361 \$400 or best offer.

Ray Steven (610) 485-9554 or Dan Cashin (610) 446-7831

QSL Reports

Sam Barlo
47 Prospect Place
Bristol, CT 06010



VOICE OF AN AMERICAN QSL

John Q. Pulver

Chas. F. Adams

*Thank you International Sky Service...
for this QSL card...
March 2, 1974*

ASIATIC RUSSIA:

Radio Moscow
15425 via **Petropavlovsk-Kamchatsky** f/d cd. in 36 ds. for 3 IRCs. (MacDonald-WA). 7315 via **Khabarovsk** f/d "Kosmos Hotel" cd. in 62 ds. (Flynn-OR).

AUSTRALIA: Radio Australia 9580 f/d ltr. in 31

ds. w/ calendar. (Grant-NC). 9860 f/d ltr. in 40 ds. (Grant-NC). 15425 f/d "Wilderness Society" cd. for a reduced carrier test via **Darwin** w/ personal ltr. in 3 wks. for ms. v/s Arie Schellaars, Assistant Transmission Manager. (Rausch-NJ). **YNG** 12984 f/d folder in 47 ds. for a taped rpt. and 1 IRC. v/s Dr. Richard Brittain. (Montgomery-WA).

AUSTRIA: Radio Austria International 9655 f/d ltr. in 30 ds. w/ sticker (Grant). 9870 f/d "Glass Towers" cd. in 40 ds. (Grant). 13730 f/d cd. in 21 ds. (Levison-PA). **OEXIRW/IMD International Marconi Day** ham transmitter at **Radio Austria International** w/ nice pink and purple folding cd. in 3 wks. (Berg-MA).

BANGLADESH: Radio Bangladesh 15255 f/d "Tribute to Martyrs" cd. w/ sked. in 888 ds. (198 after a f/up to the Bangladesh Embassy in US). QSL was rcvd. from a German DXer who rcvd. mine. (Hardester-NC).

BELGIUM: Radio Vlaanderen International 15545 f/d "Brugge" cd. in 29 ds. on my 4th try. (Grant-NC). 11740 f/d cd. w/ schedule in 25 ds. for 1 IRC. (Lane-ONT). 13655 f/d cd. in 47 ds. (Mulrean-NY).

BHUTAN: BBS 5030 p/d prepared cd. by v/s Thinley Dorji, Second Secretary, Permanent Mission of the Kingdom of Bhutan to the UN, Addr: Two United Nations Plaza (27th Floor), New York, NY 10017. (Berg-MA).

BOLIVIA: Radio San Miguel 4925.6 p/d cd. in 66 ds. for a SP rpt. and \$1.00 v/s Felix A. Rada Q., Director. (Martin-CA).

BONAIRE: Radio Nederlands 6155 f/d cd. in 36 ds. for 1 IRC. (Yamada-NM).

BORNEO: RRI Pontianak 3995 prepared cd. w/ IN ltr. in 16 mo. for a taped rpt.

BOTSWANA: Radio Botswana (Berg-MA) 4830 f/d "Bull Elephant" cd. in 2 1/2 mo for ms. v/s Ted Makgekgenene, Chief Engineer. (Rausch-NJ).

BRASIL: Swiss Radio International 5905 via **Brasilia** f/d "SRI Music Library" cd. w/ sked in 92 ds. (Humenyk-ONT).

American Dissident Voices QSL

760 kHz
770 kHz
1030 kHz
1080 kHz
1110 kHz
1130 kHz
1170 kHz
1510 kHz
1540 kHz

7305 kHz
11050 kHz
15420 kHz
15715 kHz
82.1 MHz

To: *Richard D'Angelo* Signed: *W. Barlo*

5-29-94 9PM ET

RadioBras 15445 f/d
cd. in 64 ds. w/
program.(Grant-NC)

9/9/93 1200-1330 6.00
Dear Thomas, via Millard
Thank you for your
reception report on VOMI that
transmission which was heard
in Thailand.

BULGARIA: Radio Bul-
garia 9700, 11645
and 11720 f/d cd.
w/ schedule in 65
ds. for \$1.00.(Lane).
7455, 9700, 11645 and
11720 cds. for 4 rpts.
in several mos.(Grant).

* **VOA** 13680 via **Plovdiv** f/d cd. w/ sked.
and booklet in 48 ds.(Humenyk-ONT).



VERIFICATION SIGNERS: Radio Nacional da Amazonia 11780 Henrique Lima Santos Filho,
Gerente de Ondas Curtas. **Radio Educadora de Guayaramirim** 3375 Isidoro Moro. **Radio**
Santa Maria 6029.7 Pedro Andrade Vera. **Ecoss del Atrato** 5020 Absalon Palacios Agua-
limpia. **RFI Sorong** 4875 Drs. Sallomo Hamid. **RFI Padang** 4003 Marlis Ramali, Head of
Radio. **KYMR** 15610 Beth Click, Secretary. **Radio Internacional** 4930.6 Victor Antonio
Handal, Director General..... via PLAY DX....Sam.

CANADA: Radio Canada International 5960, 6120, 9535, 9755, 11725, 11845,
11855 and 17820 3f/d cds. in 16 ds.(Grant-NC). **ZAP** 9650 via **Radio**
Korea - Sackville cd. w/ info. sheet in 4 1/2 mo. v/s William Tibben.

CHINA, PEOPLES REP. OF: China Radio International 9780 f/d (Berg-MA).
cd. w/ pennant and schedule in 18 ds. for 1 IRC.(Lane). 9690 and
11715 f/d "Mount Huangshan" cd. w/ stickers in 42 ds.(Grant)...Believe
11715 via Mali and 9690 via Spain...Sam.

COLOMBIA: Radio Buenaventura 4833 2 page ltr. w/ sticker and postcard in
18 mo. for a taped rpt. and a f/up rpt. in SP. v/s Mauricio Castano
Angulo, Gerente. Addr: Fundacion "Docete", Calle la No. 2-39 Oficina
301, Apartado 383, Buenaventura.(Berg-MA).

VERIFICATION SIGNERS: Radio Imagen 4969.1 Adith Chumbe Vasquez. **Onda Azul** 4800 Mauric-
io Rodriguez, Jefe de Produccion. **La Voz de Huamanga** 6201 A. Valverde Gonzales.
Radio Maranon 4835 Alberto Almansa, Director Tecnico. **Radio Melodia** 5995 Jefa de
Administr. Pers. & Financiera S. ra
Elva Alvarez de Delgado. **Radio La**
Oroya 4905 Jacinto Manuel Figueroa
Yauri, Gerente....via PLAY DX.

LABORATOIRE N°1 (VOSSE) GABRIELLE
Chaîne 1
8 F. 10 DE L'AVENUE
DE CLAYTON RD. MONTRÉAL

REPUBLIQUE GABONAISE
MONTE PASCAL, PORT-
GENTIL

COSTA RICA: Radio For Peace Inter-
national 9400 f/d cd. w/ sked. in 45 ds.
(Lane). 7375 f/d cd. in 79 ds. for 1
IRC.(Grant-NC). cd. in 1 mo.(Warren-
NJ). **Adventist World Radio** 11870 f/d
cd. w/ special imprints for Alajuela
final week transmission. Also rcvd.
personal ltr. v/s Adrian Peterson,
Special Projects Director.(Berg-MA).

CZECH REP: Radio Praha 7345 and 9485
f/d cd. w/ sticker in 26 ds. for 1
IRC.(Lane). 5915, 7345 and 11990 f/d
"St. Nicholas Cathedral" cd.
in 36 ds.(Grant). 5930 and
7345 f/d "Theological Hall"
cd. in 26 ds.(Grant). 7345
f/d cd. w/ sticker and sked.
in 32 ds. for a taped rpt.
and 1 IRC.(Yamada-NM).

DOMINICAN REP: Emisora Onda
* **Musical** f/d prepared cd. w/
signature and station seal
in 9 mo. for a taped rpt. &
1 mo. after a f/up rpt. in SP.(Berg-MA).
Radio Amanecer Internacional 6025 p/d cd.
w/ ltr. mentioning Potter and Jensen in 137
ds. for a SP rpt. v/s Socrates Dominguez.(Martin).

La directrice generale ADJOINT,
charge de l'equipement et de
l'exploitation chaine 1
Monsieur JERRY KLINCK
43 Lein Road
West Seneca, N.Y. 14224
U.S.A.

Monsieur,
Nous vous remercions de votre rap.
Port de reception du 22 octobre 1993 sur la
frequence de 4.785 MHz dans la bande de
Comptes de 08.00 Heures du GABON.
Les details que vous avez donnes
sur votre station ont ete exacts.
En vous souhaitant bonne recep-
tion, je vous prie d'agréer, Monsieur, nos salu-
tations distinguees.

P.O. La directrice des Antennes de l'Etat
R.P. GABON.
M. N. N.

Mon-cun 4th march, 1992, the _____

Sir, Samuel Barto

Q We herewith verify that on 22th march, 1991 at 13 00.-13 15

S hours UTC on 15630, 15750 kHz (prev. 11 30.-11 45.)

L you received a test transmission of our station directed to _____

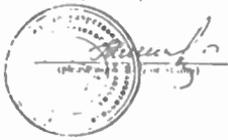
Russia _____

The transmitter fed _____ kW into a longwire, DA-100D

antenna.

Radio Rossiv Moscow.

5th str. of Yamskoye Pole 19/21



VERIFICATION SIGNERS: Slovak Radio
5915 Miss Ana Pavlova, Secretary.
Radio Singapore International
9530 Sakuntala Gupta, Program
Manager. Radio Diffusion TV Mali
4835 M. Baba Nadio, Chief de
Maintenance. Radio Ancaash 4991
Ing. Armando Moreno Romero, Ger-
ente. Radio Concordia 6141 Victor
R. Fernandez Bustinza, Director.

ECUADOR: HCJB 9745, 15155 f/d
"Rio Coca Falls" cd. w/ key-
chain, schedule and calen-
der in 105 ds.(Grant). 9745
f/d cd. in 28 ds.(Yamada-NM)
12005 f/d cd. w/ schedule in
23 ds.(Mulrean). 11925 f/d

"Casual Conversation" cd. w/ ltr. and schedule in 36 ds.(Glockner).
EGYPT: Radio Cairo 9475 f/d cd. w/ schedule, sticker, calendar and news-
paper in 4 mo.(Grant) 9900 f/d cd. w/ stickers and cd. in 129 ds.

EUROPEAN RUSSIA: Radio Moscow 5905 and Mayak 7305 the State (Mulrean)
• Enterprise of Broadcasting and Radio Communications (GPR-2) verified
with two separate cds. from the Saint Petersburg site. Site is given
as Kaliningrad (Bolschakovo) however, a separate rpt. to RM on 5905
brought a QSL ltr. from Mrs. Stepanova saying this was the Petersburg
site.. 5905 was first rpt. from NA: Addr: ul. Akademika Pavlova 13A,
St. Petersburg 197376.(Berg-NA).

NOTES: Jim Clark says that a lot of his DXing lately has been spent on the TV Mali
bands. Some SWBC QSLs still manage to trickle in. Errol Urbelis of 563 Meadow Road,
Kings Park, L.I., NY 11754 would like to hear from some fellow L.I. DXers. There
must be a few members on Long Island. I read the article that appeared in the news-
paper about shortwave radio. Thanks for the hobby plug...Sam. Mike Hardester, a few
months ago, had a QSL for Manfred Beyen in Germany. It seems that he had my QSL!
Anyway, everything has been straightened out. It was definitely worth the wait! Mr.
Beyen say that the German postal service is the most expensive in the world. A normal
airmail letter is the equivalent of 3.55 US dollars!.....Sam.

FRANCE: Radio France International 15365, 17650 and 21645 3 f/d "Ant-
enna" cds. in 21 ds.(Grant).

FRENCH GUIANA: Radio France International 13625 f/d cd. w/ schedule in
39 ds. for 1 IRC.(Yamada-NM). Swiss Radio

International 11620 f/d "Hikers in the
Alps" cd. in 3 wks. for ms.(Rausch-NJ).

GABON: Radio Japan 11785 f/d cd. w/ sked.
in 37 ds.(Yamada-NM).

GERMANY: Deutsche Welle 6035, 6040, 6085,
6130, 6145, 7285, 9670, 9665, 11740 and
9700 2 p/d "40th Anniversary" cds. in 7
mo.(Grant-NC). 7285 same cd. in 63 ds.
(Mulrean). 6045 cd. in 7 mo.(Yamada-NM).
p/d cd. in 1 mo.(Warren-NJ). n/d cd. in
3 mo.(Humenyk-ONT). 11740 n/d cd. in 8
mo. for 2 IRCs.(Pappas-SD).

GREECE: Voice of Greece 5920, 9380 and 9420
f/d "White Tower" cd. in 2 mo.(Grant-NC).
5930, 9380, 9420 and 11645 f/d "Church"
cd. w/ schedule in 110 ds.(Grant). 9380
f/d cd. in 261 ds. after a f/up rpt. and
2 IRCs.(Montgomery-WA). 11645 f/d cd. w/
schedule in 120 ds.(Mulrean).

GUAM: KTWR 9870 f/d cd. w/ schedule in 39
ds. for 2 ms.(Yamada-NM).

HAWAII: KWHR 9930 f/d "Antenna" cd. w/
schedule in 3 mo. for ms. (Sparks-NV).
same in 27 ds. w/ schedule.(MacHarg).
17510 f/d cd. in 1 mo.(Sparks).



Dear Shortwave Listener,

via Yamata

Thank you for your reception report of Radio Australia on 11/04/1994 at 11:00:00 UT.

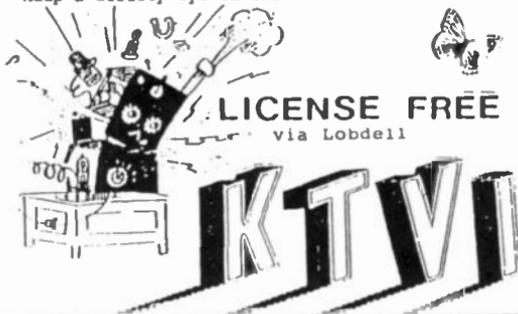
We are pleased to confirm that the broadcast to which you were listening, was on a frequency of 5995 kHz from transmitter VLB located at Shepparton which is one of RA's four transmitter sites on the Australian continent. Please accept the enclosed Radio Australia/Wilderness Society postcard with thanks.

One final point, Radio Australia is only able to acknowledge one QSL per broadcast schedule period. Reception reports in excess of this limit will be welcome, but regrettably not acknowledged.

sticker in 126 ds. (Mulrean). 6020 and 6165 f/d cd. in 2 mo. for 1 IRC. (Thompson-NY).

HONDURAS: Radio HRET 4960 p/d cd. w/ ltr. in 41 ds. for a SP rpt. and * \$1.00. v/s Mateo McCollum, Gerente General. (D'Angelo-PA). p/d "Certificado de Sintonia" for a SP rpt. and ms. in 1 1/2 mo. (Rausch-NJ). same in 6 wks. for a SP rpt, cassette tape and \$1.00. (Lobdell-MA). * **Radio Internacional** 4930 **HROO** colorful business cd., postcard, station info., stamps and stickers from other stations in 5 wks. for a taped rpt. v/s Victor Antonio (Tito) Handal, Gerente Propietario.

NOTES: Mike Hardester in Jacksonville, NC reports that unusual preparations were in the works for the Navy and Marine personnel in his area during July. We'll have to keep a utility eye on the situation in Haiti... Sam. **Ross Comeau** was very pleased with his QSL from Nepal. This is his best after Antartica. **John MacDonald** has returned to DXing after a 20 year absence. He purchased an NRD-535 last year. He wants to know if any of our members can send him the direct addresses for the BBC relay stations? His address is: 2745 Rosalie Place NE, Poulsbo, WA 98370-9009... Sam.



9835 f/d "Paloc" cd. w/ schedule and stickers in 41 ds. (Grant-NC). **ITALY: RAI** 6005 cd. in 144 ds. (McGuire-MD). 9725 f/d "Pastorella" cd. in 4 mo. for 1 IRC. (Grant). 11880 f/d cd. w/ schedule in 38 ds.

JAPAN: Radio Japan 6120 f/d cd. w/ calendar and schedule (Mulrean). in 2 mo. (Grant). 9680 f/d "Fireworks" cd. w/ sticker and schedule in 1 mo. (Glockner).

KOREA, PEOPLES REP. OF: Radio Pyongyang 13760 f/d cd. in 44 ds. for 3 IRCS. Also rcvd. pennant and ltr. (MacDonald-WA).

KOREA, REPUBLIC OF: Radio Korea 5975 f/d cd. w/ schedule and badge in 38 ds. (Yamada-NM). 15575 cd. in 210 ds. for the "Special Samoan Broadcast" (Flynn-OR).



STATE OF BAHRAIN
MINISTRY OF INFORMATION
BROADCASTING & TELEVISION

via Jerry Klinck

Dear Sir / Madam,

Thank you very much for your reception report and enclosure. The programme details 'ou' mention confirms to our Broadcast schedule.

The information provided by you gives us important feed back, to improve our service.

With best wishes from all at Radio Bahrain

Date: 1st March 94

[Signature]
DIRECTOR OF BROADCASTING

9930 "Sounds of Alhoa" program over KWHR in 5 wks. after a f/up rpt. v/s William F. Bigelow, President. (Berg).

HOLLAND: Radio Nederland 9720 f/d "Ostara" cd. w/ calendar and sticker in 1 mo. (Grant). 6020 same cd. in 43 ds. (Grant). f/d cd. in 25 ds. for 1 IRC. (Lane). f/d cd. w/ schedule and

Addr: Ira Calle, 4-5 Avenida N.E., Edificio Ben-deck, Aptdo. 1473, San Pedro Sula. (Berg-MA).

HUNGARY: Radio Budapest

11990 f/d "POWs" cd. w/ pen, keychain and schedule in 58 ds. (Humenyk-ONT).

KUWAIT: Radio Kuwait 11990

7150 2 f/d cds. w/ schedule in 43 ds. (Grant). 9710 f/d blue cd. w/ "Logo" in 83 ds. via the **Sitkunai** site. (Humenyk-ONT).

LITHUANIA: Radio Vilnius

NEW BRITAIN: Radio West New

Britain 3235 p/d ltr. in 57 ds. for \$1.00. v/s Esekia Mae1, Provincial Program Manager. (Martin-CA). **Radio East New Britain** 3385 p/d ltr. in 125 ds. for \$1.00 v/s Otto Malatana, Prov. Program Manager. (Martin-CA).

RADIO JESUS DEL GRAN PODER**CERTIFICADO DE SINTONIA**

Para Sr. Nicolás Croce

Muchas gracias por su informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en 5050 KHz. de fecha Junio 21 de 1991 a las 5:51 n. u. 11 horas de Ecuador con 12.5 vatios de potencia

RADIODIFUSORA

"Genio del Gran Poder"
QUITO - ECUADOR
sello oficial

X  firma

NEW GUINEA TERRITORY: Radio

Sanduan 3205 p/d ltr. in 43 ds. for 2 IRCs. v/s Paia Ottawa, Technician. (Martin-CA). f/d "NBC" ltr. in 29 ds. for 4 IRCs (MacDonald-WA). **Radio Western Highlands** 3375 f/d cd. in 68 ds. for 2 IRCs. v/s Esau Okole. (Martin-CA). **Radio Madang** 3260 p/d ltr. in 22 wks. after a f/up rpt. for ms.v/s Peter C. Yannum, Assistant Provincial Program Manager. (Sgrulletta-NY). **Radio Eastern Highlands** 3395

f/d cd. w/ p/d "Karat Bilong Kumul" ltr. in 42 ds. for \$1.00. v/s Kiri Nige, Engineering Div. (Martin).

We are pleased to advise your receipt of the reception of Radio Canada International

Vous sommes très heureux de confirmer votre récépissé de Radio Canada International

Station / Poste Radio Canada International

Frequencies / Fréquences 5085 kHz

Time / Heure 01:36 dst

Date 2-11-74

San Marcelland

Your report has been found to be correct. Thank you and see you next time from Canada

Vous répondez au point de vue de votre rapport. Merci et nous vous reverrons au Canada

Published and Published Approved

Publié et Approuvé

0 = Reception - Reception, 1 = Reception - Reception, 2 = Reception - Reception, 3 = Reception - Reception, 4 = Reception - Reception, 5 = Reception - Reception, 6 = Reception - Reception, 7 = Reception - Reception, 8 = Reception - Reception, 9 = Reception - Reception

Radio Canada International
60 Rue / City Avenue 1000
Montreal, Canada H3C 3A6



Mark Hoersten
205 Euclid Avenue
Sellewue
Ohio 44111
U.S.A.

NOTES: Jerry Klinck says that he likes the fall of the year. The DXing picks up and its much cooler to do those antenna repairs. Bob Mulrean says hello to everyone. He utilizes a Kenwood TS-440S with a longwire and a DAK DMR-3000 portable with a realistic amplified antenna.

NEW IRELAND: Radio New Ireland 3905 f/d ltr. in 93 ds. for 2 IRCs. v/s Ruben Bale, Prov. Pgm. Manager. (Martin-CA).

NEW ZEALAND: Radio New Zealand International 9700 f/d "Not Down Under" cd. w/ schedule in 36 ds. (Grant-NC).

NIGERIA: Voice of Nigeria 7255 f/d cd. w/ schedule in 5 mo. (Grant-NC). **NORMA: Radio Norway International** 11865 f/d cd. in 50 ds. for a taped rpt. and 1 IRC. (Yamada-NM). 11860 f/d cd. w/ schedule and sticker in 53 ds. for 1 IRC. (Lane). special cd. for the Olympic Games in 3 mo. (Berg-MA). **Radio Denmark** 15220 via RNI f/d "Two Apple Trees" cd. in 44 ds. v/s Beth Brennins. (Humeny-ONT).

**РАДИО МОСКВА**

PALAU: KHBN 9830 f/d form ltr. in 56 ds. for ms. (not used). (Urbelis-NY).

PAPUA NEW GUINEA: NBC 9675 f/d cd. w/ personal ltr. and schedule in 2½ mo. after a f/up rpt. (Berg-MA).

Dear Mr. Larc,

This verifies your report on the reception of Radio Moscow's broadcast in English

Date June 14, 1992

Time 19.25 UTC

Frequency 17695 kHz-via Simferopol
15500 kHz-via Kishinev

Best wishes from
RADIO MOSCOW

15425 kHz-via Petropavlovsk-Kamchatsky

15405 kHz-via -"-

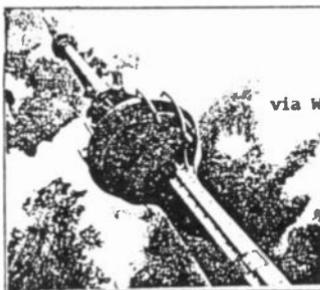
15375 kHz-via Simferopol

11840 kHz-via Havana

PARAGUAY: Radio Nacional del Paraguay 9735 n/d ltr. in 3½ mo. for a SP rpt. and ms. v/s Carlos Montaner Vergara, Jefe Tecnico. (Rausch-NJ).

PERU: Radio Tarma 4775 f/d computer generated ltr. in 99 ds. for a SP rpt. and \$1.00. Sticker rcvd. v/s Mario Monteverde Pomareda, Gerente. (Martin-CA). **Radio Imagen** 4970 p/d ltr. w/ magazine clippings in 51 ds. after a f/up rpt. v/s Adith Chumbe Vasquez. (Paszkievicz).

PORTUGAL: Radio Portugal International 9570 f/d "Map" cd. w/ sked. in 28 ds. (Grant-NC).



via W. Craighead

Radio-televizija
Novi Sad
YUGOSLAVIA

same w/ schedule and stickers in 22 ds. (Glockner).

ROMANIA: Radio Romania International 11940 f/d "Folk Costume" cd. w/ sticker and schedule in 114 ds. (Grant). 9690 f/d cds. w/ newspaper and diploma in 66, 102 and 111 ds. (Lane). 9510 f/d cd. w/ schedule in 93 ds. (Mulrean).

RUSSIA: Radio Moscow 15290 f/d cd. in 61 ds. (Levison-PA). 25mb. f/d cd. in 10 wks. (Warren-NJ). 7165, 7180, 9550, 9620, 15380 and 17760 f/d cds. in 48 ds. (Grant-NC).

SABAH: Radio Malaysia 5980 via **Kota Kinabalu** p/d cd. in 87 ds. for ms.

SAINT HELENA: Radio St. Helena 11092.5 f/d "Map" cd. (Martin-CA). in 198 ds. for \$1.00. v/s Tony Leo, Station Manager. I also enclosed 3 mint Elvis stamps. It must of worked: (Martin-CA)...Steve, did you know the USPO will be issuing a Marilyn Monroe stamp? If its not self adhesive, we'll all get a chance to lick it'...Sam.

SIERRA LEONE: SLBC 3316 p/d cd. w/ official stamp in 121 ds. for \$1.00. v/s Joshua Nicol. (Martin-CA).

SINGAPORE: Radio Singapore International 9530 cd. w. form ltr. and T-shirt in 3½ mo. (Berg). same in 3 wks. (Berg). f/d cd. in 53 ds. for 1 IRC.

Beirut 21/3/64

SLOVAK REP: Radio (Yamada).

Slovakia International 5930 f/d cd. in 23 ds. for a taped rpt. and 1 IRC. (Yamada-NM). 5930, 7310 and 9810 f/d cd. in 29 ds. w/ sked. (Grant-NC). 9810 f/d cd. w/ schedule in 51 ds. (Mulrean).

Dear Sir,

via Jerry Klinck

Radio Lebanon acknowledges with thanks your reception report dated 25/2/64. The observations therein show the true reception of our programs.

Radio Lebanon hopes you will continue to listen to its transmissions and will appreciate future reports which will aid it in bettering those transmissions.

SOUTH AFRICA: Channel Africa

15240 f/d "Foothills of Giant's Castle" cd. in 8 mo. for 2 IRCs. (Pappas-SD).

Radio 2000 4810 f/d "SABC" cd. in 79 ds. w/ schedule. (D'Angelo-PA).

SPAIN: Radio Exterior de Espana 9540 f/d "Espana 82" cd. in 2½ mo. for ms. (Pappas-SD). f/d cd. in 2 mo. w/ info. sheets. (Thompson-NY). same in 6 mo. w/ schedule. (Grant). 11775 f/d cd. w/ schedule in 162 ds.

SWEDEN: Radio Sweden 15240 and 17870 f/d cd. w/ schedule in 13 (Lane). ds. (Grant). 17870 f/d cd. in 1 mo. (Warren-NJ). 6155 f/d cd. w/ sked. and stickers in 33 ds. (Mulrean).

SWITZERLAND: Swiss Radio International 13635 f/d cd. in 78 ds. (Grant). 9860, 9885, 6135 f/d "The Two Bob's" cd. in 2 mo. for ms. (Pappas-SD).

SYRIA: Radio Damascus 15095 f/d cd. w/ "Syrian Times" newspaper and sked. * in 13 mo. after 2 f/up rpt's. and 2 IRCs. (Montgomery-WA). 12085 f/d cd. w/ flag and sticker in 10 mo. (Grant). 15095 and 12085 f/d cd. w/ schedule, sticker and newspaper in 409 ds. for \$1.00. Reply was sent by registered mail, opened and resealed in Canada. (Lane).

VERIFICATION CARD

Thank you very much for your reception report on our broadcast.

The information given is in accordance with our schedule.

We hope you will continue to enjoy our programmes and send us your thoughts about them.

受信報告ありがとうございます。内容はラジオ日本の放送と合致しております。これからも番組についての感想をお寄せ下さい。

RADIO JAPAN
NHK TOKYO 150⁰¹, JAPAN

Mr. Ron Howard

Frequency 3970.3 MHz

Time 21:00 JST

21:25 JST

Date Jan. 18, 1993

Station Matsuyama

TAIWAN: Voice of Free

China 5890 f/d "Baseball" cd. w/ stickers and schedule in 28 ds. (Glockner)...WYPR?

TURKEY: Voice of Turkey

9445 f/d cd. w/ stickers and schedule in 2 mo. for 2 IRCs. (Thompson-NY).

UKRAINE: Radio Ukraine

International 7195 f/d cd. in 4 mo. (Grant)

USA: WHRI 7315, 9485 and 13760 f/d cd in 2 mo. for ms. (Thompson-NY). La Voz de Alpha 66 9495 and 13760 via WHRI "Palm Tree" cd. after 3 f/up rpts. v/s Dr. Diego A. Medina. (Bergr-MA). NJES 11715 f/d cd. w/ sked in 43 ds. for \$1.00. (Yamada-NM). Voice of Free China 17750 via WYFR f/d cd. in 58 ds. w/ newsltr. (Humenyk-ONT). 5950 f/d "Art Works" cd w/ schedule in 40 ds. (Grant-NC).



Her Majesty's Government
Department of Broadcasting
RADIO NEPAL

via **Darling**

Dear Sir,

Many thanks for your reception report.
I am pleased to confirm that your report was correct.
Date of reception... 24.02.80
Frequency... 3.745, 3.740...
Time... 06.00 - 07.00

18 Sept 80

Stephen Darby
Lambeth,
Hamp.

Your sincerely
R. B. Mistry
(R. B. Mistry, C. Eng.)
Chief Engineer

WEWN 13615 f/d cd. w/ schedule in 20 ds. (Mulrean). VOA Bethany 9575 f/d cd. in 2 mo. w/ stickers. (Montgomery).
USA (Pirates): KULP 7385 p/d "Crystal Clear" plastic QSL in 1 1/2 mo. via BRS. (Trummel). NAPRS 7385 3 f/d colored cds. in 10 ds. (Trummel). Radio Free Jesus 7385 f/d ltr. in 1 mo. for ms. (Paszkiwicz). Radio Airplane 7385 p/d "Airplane" cd. in 49 ds. for 3 ms. (Flynn-OR). WYDX 7385 f/d red sheets in 1 1/2 mo. via BRS. (Trummel). WQSL 7414 f/d cd. in 3 wks. via Wellsville addr. (Trummel). Radio Free Salvation 7385 f/d sheet in 1 1/2 mo. via Huntsville. (Trummel). KICK 7385 f/d cd. in 6 wks. for a rpt. to Huntsville. (Lobdell-MA). KMOM 7385 f/d blue cd. for \$1.00. via Wellsville. (Lobdell). Radio Bob's Communications Network 7465 and 9990 f/d cd. in 1 mo. for a taped rpt. via Atlanta. (Trummel). WJPK 7415 p/d cd. in 7 1/2 mo. for a log in Pirate Pages. (Lobdell). Radio Garbanzo 7385 f/d "white water kayaker" cd. in 2 wks. for 3 ms. via Wellsville. (Lobdell). Up Against the Wall Radio f/d "Logo" cd. in 2 mo. via Wellsville. Also rcvd. a pirate dice game "Bart Simpson" and "Spy vs. Spy" game. (Trummel).

UZBEKISTAN: Radio Tashkent 6025 f/d cd. in 192 ds. for \$1.00. Also rcvd. postcards, schedule, calendar and rpt. forms. Note says do not enclose \$ because it gets lost! (Martin-CA).

VATICAN: Radio Vatican 6095 f/d "St. Peters Square" cd. w/ schedule and sticker in 2 mo. (Grant-NC). 9605 f/d cd. in 70 ds. (Dacus-AR). 7305 via Santa Maria di Galeria f/d cd. in 22 ds. (Humenyk-ONT).

VENEZUELA: Ecos del Torbes 4980 n/d "Map" cd. in 37 ds. after a f/up rpt. and \$1.00. (Paszkiwicz). n/d cd. w/ p/d ltr. in 140 ds. for a SP rpt. and \$1.00. Also rcvd. "Map" cd. w/ a personal p/d friendly ltr. (Martin-CA).

VIETNAM: Voice of Vietnam 15009 f/d plain white "Logo" cd. w/ sticker and pennant in 54 ds. for 3 IRCs. (MacDonald-WA).

YUGOSLAVIA: Radio Yugoslavia 9580 f/d cd. w/ schedule in 23 ds. for \$1.00. (Yamada-NM).

CI-A 19



DIFUSORAS DEL URUGUAY S.A.

Señor Gordon Darling
10 Osterley Drive
Caversham Park
Reading
RG4 0EP,
Inglaterra.

Batavia 1287 2000 W
Tel. 0 14 81-82 / 91 70 44

marzo 7 de 1977.-

Seo es grato acusar recibo de su reporte de recepción del día 4 de febrero de 1977, a la hora 22. 31 de GMT, en la frecuencia de 11.845 KHz.-

Atentamente,

Sam
JOSÉ CUEVAS
DIRECTOR APROBADO



RÁDIO NACIONAL DE ANGOLA

Caro Senhor
Acusamos a recepção de sua carta, sobre as condições de escuta de nossa estação emissora, na frequência de 4.830.0 KHz. nos 17-2-80 no período das às e das 21.45 às 21.50 horas GMT.

Cher Monsieur
Nous agréons votre lettre et vos informations sur nos conditions d'auditions sur la fréquence de KHz, le des à heures TMG.

Dear Sir
We received your letter listening conditions of broadcast on short wave frequencies of KHz, listened by you from/...../.....G.M.T.

Rádio Nacional de Angola

Hope everyone has enjoyed this QSL Column. Keep the reports coming in and we'll get them printed...Sam.

Sam

Contributors' Page

John Schmid
P.O. Box 86
Line Lexington, PA 18932

LOGGINGS CONTRIBUTORS - Sept./Oct. 1994 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER , Mechanicsburg, PA	NRD 535D Vs Longwires
Mark ANDERSON , Prescott , MI	NRD 525 180' Random Wire Eavesdropper
Jerry BERG , Lexington , MA	R8 R390A HQ180A 150' LW
Bill BERGADANO , East Freehold, NJ	TS430S 170' LW
Dean BIANCO , East Chester, NY	W-J HF-1000
William BROWN , Branson, MO	R8
Steve BYAN , Littleton, MA	R71A Beverage
Russell CLEVELEY , Wilson, NY	Icom 725 FRG7700
Richard D'ANGELO , Wyomissing , PA	R8 FL3 AD Sloper Farley Loop
William DAVENPORT , Nashville , TN	DX380 ICF7601 AN1
Kris FIELD , Horsham , PA	NRD 525 Collins 51S1 60' wire
Bill FLYNN , Cave Junction , OR	R8 R7A 500' loop 83' Dipole
Marv KAMINSKY , Flanders , NJ	NRD535D Random Wire
Marie LAMB , Brewerton , NY	HF150 ATS803A DX375 MFJ10610 60M LW Indoor Dipole
	R5000 20M Trap Dipole
Jim LANE , Toronto , ON , CANADA	R8 R70 D2999 Indoor LW
Harold LEVISON , Philadelphia , PA	TS940S HF225 MFJ949D 40-10 M Dipoles 8JK
John LYON , White Bear Lakes , MN	NRD535 75' LW
John MacDONALD, Pouslbo, WA	DX380
William McGUIRE , Cheverly , MD	Transoceanic FRG 7700
Bob MONTGOMERY, Levittown , PA	R8 ATS803A DX360 250' LW Dipoles
David L. MORASLO, Grafton, WV	R8 R5000 70' Windom
Ed NEWBURY, Bridgeport, NE	Drake SW8
Ed NEWBURY, DX XERCISE, CANADA	NRD515
Martin PECK , Bronx , NY	NRD515 NRD525 60' LW Eavesdropper
Sheryl PASZKIEWICZ, Manitowoc, WI	R5000 Sony2010 MFJ959 Eavesdropper 300' Dipole
Ed RAUSCH , Cedar Grove, NJ	Yaesu FT1000 Lowe Europa R390A SP600JX1 51S1
Chuck RIPPEL , Cornland, VA	DX302 FRG8800 FRA7700
Doug ROBERTSON, Oxnard, CA	Sony 2010 Indoor Telescopic Antenna
Betsy K. ROBINSON, Clinton, TN	2 Sony 2001DS's
Mike RYAN , Bangkok , THAILAND	Grundig YB400 ICF SW33
Jack THOMPSON , New York , NY	FRG8800 35' LW
John F. WILSON , Hockessin , DE	TS440S HQ180 Sony 2010 FRG7
Errol URBELIS , Kings Park, NY	

Hello again. Sorry I didn't make it last month. The dates of my once a year New Jersey seashore vacation and the JOURNAL publication schedule clashed, so our good natured Managing Editor Bob Brown gave me the month off [with a stern warning not to let it happen again!].

On a vacation trip to Western Canada, Ed Newbury of Nebraska notes that he was not able to hear any of the low power Canadian SW stations, while reception of the Europeans was better than at home. He would like to know if he is correct in concluding that the European broadcasters aim their transmissions at the NORTHERN U.S. and Canada while forgetting the mid S.W. of the U.S.? Anyone know?

A final note. Our Company Storekeeper Kris Field of Horsham, PA mentioned that he's using a 60' wire antenna attached to a split rail fence. I quote Kris "But it works!". I suggest he plant some fast growing trees!

Good listening and DX to all. See you next month.



Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220

- 1035 CARIBBEAN R Democracie 9/3 0010 tlc in Creole, lite instls military band, 0101 ID, poss s/off 0128 (Alexander-PA) I know this isn't SW but that you'd be interested since Brian submitted it. Also I know Dave Valko logged this--sp.
- 2310 AUSTRALIA ABC Alice Springs 8/23 1057 pop mx pgm (Rippel-VA)
- 2485 AUSTRALIA ABC Katherine 8/31 1145 non-stop pops //2310, 2325 (Lyon-MN)
- 3210.2 MOZAMBIQUE R Moz 9/14 0353 tlc, choir, ID, nx ment Maputo counting, dance mx, mbira & horn (Paszkiewicz-WI)
- 3220 ECUADOR HCJB 9/3 0921 Quechua tlc, ethnic mx, ment. South America, pres ID (Robertson-CA)
- 3220 NEW GUINEA R Morobe 8/23 mx variety show 1034 w/OM (Rippel)
- 3235 NEW BRITAIN RWNB 9/2 1112 PNG nx in EG, pops, ute (Lyon-MN)
- 3245 INDIA AIR Lucknow 8/8 1330 SC vcls, poss EG tlks, poor u/ static (Flynn-OR)
- 3255 LESOTHO BBC Relay 9/11 0330 EG Afr nx (MacDonald-WA)
- 3260 NEW GUINEA R Madang 9/3 1105 American pops, long tlc, ID, good (Lyon-MN)
- 3264.7 SUMATRA RRI Bengkulu 8/28 1203 RRI nx, pops (Brown-MO)
- 3275 PAPUA R Southern Highlands 9/1 1120 long tlc, kids choir, back to fiery oratory, fair (Lyon-MN) welcome back! 9/11 1117 South Seas guitar, vcls (Brown-MO)
- 3289.9 ECUADOR 9/5 0535 R Centro tlc, anmts, ads, ballads, HC mx, ID, Namibia f/o 0535 (Alexander-PA)
- 3290 NAMIBIA NBC 8/26 0300 pops, lang anmts, QRN (Rippel-VA) 9/5 0425 EG nx, wx, Coca-Cola ad, NBC ID //3270 (Alexander-PA)
- 3290 NEW GUINEA R Central 9/4 0938 EG/lang Hiri Motu mx & tlc, pres ID (Robertson-CA)
- 3300 GUATEMALA R Cultural 9/3 1000 mx, ID 1000, QRN (Robertson-CA) 9/11 0340 EG rel pgm & preacher (MacDonald-WA)
- 3315 ADMIRALTY ISL R Manua 9/1 1110 EG tlc abt Solomons, lang tlc ID, promo, very good (Lyon-MN) 8/14 1056 tlc, singalong, flutes (Davenport-TN) 9/11 1113 isle vcls & OM tlc in PD (Brown-MO)
- 3345 NEW GUINEA R Northern 8/31 1206 nx, TC, EG tlc, slow fade, last PNG of a good morning (Lyon-MN)
- 3355 NEW GUINEA R Simbu 8/31 1202 R Australia nx, tlc w/freq ment of PNG, pop mx (Lyon-MN)
- 3365 GHANA GBC 8/24 2350 EG rel cmtry, ID, tlc abt civil war in Namibia, fair (Levison-PA)
- 3374.9 ANGOLA R Nacional 8/27 0510 PT tlc, pops //4950 (Alexander) also 8/27 2340 //4950, 7245, 11954.8 (Alexander-PA) 9/11 0415 ethnic mx like hilife, hip-hop fanfare & ID 0500 (Field-PA)
- 3375t BRAZIL R Clube Dourados 8/23 0159 reggae, tlks, rock, soul, poss nx, poss ID, tnx Sheryl (Lamb-NY)
- 3375 NEW GUINEA R Western Highlands 9/2 1142 nonstop pop mx, ID, nx in EG, good (Lyon-MN)
- 3381t MALAWI MBC 8/17 0349 60s folk mx, tlc in lang, nx (Lamb-NY)
- 3385 NEW BRITAIN RENB 8/29 1145 C&W, pop mx, TC 4 TP, ID (Lyon-MN) 8/26 1053 nice island mx to 1100 ID, EG nx, fair (D'Angelo-PA) 8/14 1102 tlc & vcls, heavy static (Davenport-TN)
- 3395 NEW GUINEA R Eastern Highlands 9/2 1145 pop mx, short tlks more mx over top of hour, no nx (Lyon-MN) 9/11 1206 PNG choral mx, YL anncr (Brown-MO)
- 3481 NORTH KOREA Vo Natl Salvation 9/4 1016 KR tlks //4119, 4400 4450, 4557, jammed (Robertson-CA)
- 3810 ECUADOR HD210A 8/26 0320 TP & time info (Rippel-VA)

3955nf SOUTH AFRICA Channel Africa 8/31 *0324 IS, ID, Afropops, tlks in lang, ment targets of Zam/Malawi/Moz (Lamb-NY)
3980 WEST GERMANY VOA Relay 9/5 0420 BG/CZ tlk re Yugo (the country, not the car--sp), nx, ID (Lamb-NY)
3985 SWITZERLAND SRI 9/4 *0356 FR IS, ID, Pretty Woman, George Michael, tlks (Lamb-NY)
3987.1 IRIAN JAYA RRI Manokwari 9/11 1129 pop vcsl, rel pgm, chants IDs (Brown-MO)
4460.8 PERU R Norandina 8/26 0350 wild tlks by OM, ment Norandina big RTTY ute (Rippel-VA)
4505 PERU R Horizonte 8/26 0335 beautiful flute mx but ute QRM OM anmts (Rippel-VA)
4606.5 IRIAN JAYA RRI Serui 9/11 1159 ID, Love Ambon, Jakarta nx (Brown-MO) Are you sure that wasn't Song of the Coconut Islands?--sp
4610.2 IRAQ Rep of Iraq R 9/5 0224 Koran, tlk in lang, lcl mx, bubble jammer, separate pgm on 6560 (Alexander-PA)
4753 SULAWESI RRI Ujung Pandang 9/3 1143 imitation Amer teenage mx discussion, IS, ID, nx (Lyon-MN) 9/4 1020 mx, IN w/pres ID (Robertson-CA)
4753.8t BRAZIL Rdf Maranhao 8/1 0900 echo anmts, tent ID, muffled audio, PT mx (Davenport-TN)
4760 LIBERIA ELWA 9/4 to 2201* EG rel pgm, ID, closing anmts, NA fair (Alexander-PA)
4760 SWAZILAND TWR 9/5 to 0330* rel tlk in lang, choral mx, ID & IS 0329, good (Alexander-PA)
4765 BRAZIL R Integraçao 9/6 0420 PT tlk, mx, 0430 ID (Kaminsky)
4765 CONGO RTV Congolaise 8/30 *0354 IS, orch NA, ID, anmts, 0400 pgm of lcl mx, fair w/RTTY (D'Angelo-PA) 8/25 0413 drums, tlk, weak & vy distorted (Davenport-TN)
4770 ECUADOR Centinela del Sur 8/24 to 0300* pops & ballads, ID spoken over choir, xmtr power (Lamb-NY)
4775 PERU R Tarma 8/24 0307 pops, slogan, echo anmts & sfx, ID (Lamb-NY)
4777 GABON RTV Gabonaise 9/16 0501 tlk by 2M &W, hilife, ment Gabon, TC, ads w/laughter, Gabon bonjour (Paszkiwicz-WI) 9/11 2229 FR EZL mx, ute QRM (Brown-MO)
4777.1 JAVA RRI Jakarta 8/28 1145 piano & instls, IS, nx (Brown-MO)
4780 NORTH KOREA R Pyongyang 8/31 1232 opera aria, long tlk, ethnic string mx, abrupt 1250* (Lyon-MN)
4790 PERU R Atlantida 8/20 1010 folk mx, rooster crow, anmts (Newbury-NE) 8/14 1041 tent w/vcsl, ment Peru (Davenport-TN)
4799.8 GUATEMALA R Buenas Nuevas 9/4 to 0332* tlk, rel, choral mx, IDs, organ mx (Alexander-PA)
4810 SOUTH AFRICA R 2000 8/24 0020 continuous EZL mx, moderate atmospheric, fair (Levison-PA) 8/11 0350 vy weak w/tlk, EZL mx (Davenport-TN) 8/26 0400 US pops 6 TP ID, nx (Rippel-VA) 9/11 Afrikaans Stereo 0345 AK class mx, Chopin (MacDonald-WA)
4820 HONDURAS HRVC 8/20 1025 long tlks, good (Newbury-NE) 8/22 0120 tlk & clear ID (Davenport-TN) 9/7 0350 rousing choral mx, freq, A Mighty Fortress (MacDonald-WA)
4820.9v MAURITANIA ORTM 9/3 2145 Koran, AR mx & tlk (Alexander-PA)
4824.5 PERU LV de la Selva 8/20 1035 SP interview, good (Newbury-NE) 8/16 to 0303* tropical rhythms, echo anmts, taped ID, NA my Peru log #64 (Flynn-OR)
4830 VENEZUELA R Tachira 9/3 1041 tlk, mx, marimbas, 1101 ID, fair (Robertson-CA)
4832.2v MAURITANIA ORTM 9/4 *0629 IS, anmts, Koran, drifting (Alexander-PA)
4835 GUATEMALA R Tezulutlan 8/27 2130 tlk & marimbas (Brown-MO)

4845 GUATEMALA R Kekchi 8/24 0142 rel tkl & mx, Mauritania left early (Davenport-TN)

4860nf ECUADOR R Federacion 9/5 to 0102* Indian tkl, unusual vcls s/off w/march tune //4960 (Alexander-PA)

4865 COLOMBIA LV del Cinaruco 8/12 0100 ment Caracol, Colombia, mx, vy weak (Davenport-TN)

4870 BENIN ORTB 9/3 to 2302* FR tkl, hilife mx, pops, ID, NA also *0600 on 9/4 (Alexander-PA) 8/27 2256 tkl w/time beeps Waf hilife mx, best African on 60m (Brown-MO)

4870t ECUADOR Centinela del Sur 8/1 0921 tiks, folk mx, weak & vy irreg (Davenport-TN)

4874 IRIAN JAYA RRI Sorong 9/2 1212 nonstop pops, ID, TC, nx, fair (Lyon-MN) 8/28 1135 C6W, EG read ltrs, ID, into IN (Brown-MO)

4875 BRAZIL R Roraima 8/14 1050 tkl, ment Brazil, guitar instl, tent ID (Davenport-TN)

4880 ECUADOR R Nacional Espejo 9/4 1000 tkl, mx, ID, nx (Kaminsky-NJ)

4885t BRAZIL R Clube do Para 8/14 1031 canned anmts, tent IDs, folk ballad, gone by 1041 (Davenport-TN)

4890 GABON RFI Relay 8/25 0400 tkl, ment Gabon, Afr mx, good (Davenport-TN)

4904.5 CHAD RNT 9/4 *0450 repetitive tune, anmts, ID, freq, hilife mx, apparently use this for morn & 6165 evening (Alexander-PA)

4904.8t PERU R La Oroya 9/4 to 0447* SP pops, OA NA, weak (Alexander)

4905 BRAZIL R Relogio Federal 9/3 1048 vcls, comedy pgm, 1100 ID (Robertson-CA)

4909.8 ZAMBIA ZNBC 9/11 0358 tiks, Fish Eagle IS 0359 (Field-PA)

:4910.7 HONDURAS LV de la Mosquitia 8/27 0010 SP rel (Brown-MO)

4915 GHANA GBC-1 8/25 0045 EG ID, nx & cmtry (Davenport-TN)

4915 PERU R Cora 9/11 0348 ID, nx, mx, ID 0350 (Field-PA)

4930.6 HONDURAS R Internacional 8/11 0341 ballads, ID, addr, buenos noches (Davenport-TN) 8/24 0030 promos, LA mx (Rippel-VA) 9/4 to 0442* tkl, ballads, pops, IDs, 4-note melody played 4 times & off (Alexander-PA)

4935 PERU R Tropical 8/22 0930 wild yipping into ads, Peruvian vcls (Davenport-TN)

4955t BRAZIL R Clube Rondonopolis 8/25 0251 tiks, string promos, ment Brazil & Clube, distorted & irreg (Davenport-TN)

4955.3 BRAZIL R Marajoara 9/2 0845 tkl, IDs, Brasopops (Alexander)

4960 HONDURAS HRET 7/9 *0000 ID anncg freq but no MW (Berg-MA) 8/27 to 0310* SP/Miskito tkl, later s/off than previous (Alexander-PA)

4970 VENEZUELA R Rumbos 8/25 0211 tiks & mx, xmtr hum, bad het (Davenport-TN)

4980 VENEZUELA R Rumbos 8/20 1045 2M host, call-in pgm, plenty of "ding-dong" by doorbell w/Rumbos IDs (Newbury-NE) 8/11 0330 romantic mx, TC, ID (Davenport-TN) 9/3 1105 nx of Cuba emigration, mx bridges, ads, 1112 ID (Robertson-CA)

4990 NIGERIA R Nigeria Lagos 9/11 2232 w/vcls (Brown-MO)

4991 PERU R Ancash 8/14 1025 tkl, Peruvian vcls, tent ID (Davenport-TN) 8/17 0100 tiks & LA mx, only 50% copy but was straining for Apintie (Rippel-VA) 9/11 0352 mx, tkl & ID (Field-PA)

5010 ECUADOR Escuelas Radiofonicas Populares 8/24 0110 ment Ecuador, nx, folk ballads (Davenport-TN) 9/11 1129 w/church svc, het (Brown-MO)

5010.1 CAMEROON R Garoua 9/11 2230 class mx pgm (Brown-MO)

5019.7 COLOMBIA Ecos del Atrato 9/16 0303 tkl, ballads, rock mx,

0330 anmts, ment Caracol (Paszkievicz-WI) 8/25 0238 ment
 Colombia, Caracol, ballads (Davenport-TN)
 5020 SOLOMON ISL SIBC 9/4 1125 pops, TC, full ID, s/off anmt, NA
 good (Lyon-MN) 9/5 0800 EG nx (MacDonald-WA)
 5021.2 CUBA R Rebelde 0000 on 9/5 tlc, ID, pops, down from 5025
 (Alexander-PA)
 5025 BENIN R Parakou 9/15 0500 tone, tam-tam, NA, flute/drum
 FR ID, choir, ment Benin, hilife (Paszkievicz-WI) 9/3 to
 2259* FR tlks, Afr pops, hilife, NA (Alexander-PA)
 5030 COSTA RICA AWR 8/12 1140 preaching & ID (Newbury-NE) 8/28
 0300 SP rel pgm //9724.8 (Alexander-PA)
 5033.7 CENT AFR REP 9/2 to 2259* FR tlc, Afr pops, ID, NA
 (Alexander-PA) 9/11 2205 hilife, xint sig (Brown-MO)
 5047.1 TOGO R Togo 8/28 2253 Waf pops, FR tlc (Brown-MO)
 5049.8 ECUADOR R Jesus del Gran Poder 8/20 1040 rosary w/organ
 (Bach) between decades (Newbury-NE)
 5055 SWAZILAND TWR 9/12 0418 GM/EG rel tlc & mx, IS, EG ID (Lamb)
 5880 CHINA CPBS Beijing 9/4 1118 drama, mx bridges, 1130 tlc &
 mx, poss ID (Robertson-CA)

The new Passport to World Band Radio is out. A lot of work went into this one and it shows. I would recommend adding a copy for your radio shack.

It was a pleasure meeting with GIOVANNI SERRA in September. He would like to hear from other DXers who would like to exchange tapes of radio broadcasts. You can write Giovanni at Via F. Belloni No. 50, 00147 Rome, Italy. Also, Giovanni passes along the announcement that the 1996 EDXC conference will be held in Florence, Italy, April 26-29, 1996. The AIR (Associazione Italiana Radioascolto) will be the host. You may get more info from AIR at C.P. 30, I-50141 Florence 30, Italy.

This month we have DX reporters from 12 states. Thank you for your support for NASWA. The solar activity or lack of it has forced several stations to use lower frequencies. Many nights I can't hear anything above 41 meters. However, I did note some terrific openings to Southern Africa in the local evenings. Also the static levels are dropping. Please share your loggings with us next time! Next deadline to John Schmid is October 10. Next deadline to me is October 21.

FOR SALE: Customized Beam Headings (from/to) and distances (MI/KM) to over 480 WRTH transmitter sites including the new Russian Republics. ITU Country Codes included. Send your location or coordinates, \$6.95. NASWA Journals '91 and '93 complete, \$10.50 a year or \$20.00 for both. WRTH '91, \$8.95 and '93, \$9.95. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398. No collect calls, please.

WANTED: Almost any models of Hammarlund, Hallicrafters, and National receivers in any condition with or without literature. I will also purchase sales literature and manuals. If you have any of these receivers for sale, please write. Peter Silitch, Route 1, Box 27, Strange Creek, WV 26639 or call (304) 765-7609 or 5321. Collect calls all right.



International Band Loggings

Wallace C. Treibel
357 N.E. 149th Street
Seattle, WA 98155

- 5955 SO AFRICA Channel Africa in EG 0422, ID, tlk on S Afr RR's, nx (Lamb NY 9/12)
- 5960 CANADA R Japan relay in EG 0110, "Let's Learn Japanese" (McGuire MD 8/29)
- 5960 CANADA RCI in EG 2343, socio-political tlk re black community (Thompson NY 8/18)
- 5965 SO AFRICA Channel Africa in PT 0435, pops, ID, nx (Lamb NY, Paszkiewicz WI)
- 5970 HUNGARY R Budapest in EG 0241, rock mx, ID, "Bookshelf", //9835 (Lamb NY 9/6)
- 5973 MYANMAR Myawadi R in lang 1112, lcl mx, brass band mx (Ryan THAILAND 8/25)
- 5995 AUSTRALIA RA in EG 1620, lcl nx, sports, ID, mx, f (Robertson CA 9/3)
- 6060 AUSTRALIA RA in EG 1633, intl nx, pgm on devel countries, f (Robertson CA 9/3)
- 6070 CANADA CFRX Toronto in EG 1655, mx, nx on hr (Levison PA, Thompson NY)
- 6085 GERMANY Bayer Rundfunk in GM 0151, disco & pops, ID, nx, mx (Lamb NY 8/24)
- 6090 BRAZIL R Bandeirantes in PT 0805, DJ, sd exf, canned laughter, ID, g (Lyon MN 8/30)
- 6100 NEW ZEALAND RNZI in EG 1110, BBC nx feed, ID, jazz, exc (Newbury NE 8/20)
- 6115 PERU R Union in SP 0835, folk mx, ID, ments Lima, dramatic DJ, g (Lyon MN 8/30)
- 6120 CANADA RCI Sackville in EG 0210, rpt on archeological artifacts (McGuire MD 8/22)
- 6150 COSTA RICA AWR in EG/SP 2300-0700+, relig tlk/mx, "Your Story Hour", ID, into SP pgming 0104-0700, //97254.8, also hrd //5030 *0200-0600*, g (Alexander PA 9/3)
- 6155 SWEDEN RS in EG 0240, rpt on recovery of stolen painting, ID, nx (McGuire 8/26)
- 6165 CHAD RN Tchadienne in FR 2259*, tlks by M/W, African drum mx (Alexander 9/3)
- 6185 MEXICO R Educacion in SP/EG 1100, ID, TC, QTH, marimbas (Rippel VA, Berg MA)
- 6190 PERU R Oriente in SP 0015, tlks, ID, ringing phone, sound exf (Lamb NY 9/1)
- 6190 GERMANY R Bremen in GM 2238, contin GM pop mx, //6085, vg until covered by WYFR IS around 2256, pips, ID, nx 2300 (D'Angelo PA 8/170)
- 6245 VATICAN STATE VR in FR/EG 0454, instrmls, ID, ID, into EG 0500, f (Lamb 8/19)
- 62816 PERU R Huancabamba in SP 0050, campo mx, ID, vcls (Rippel VA, Paszkiewicz WI)
- 62993v HONDURAS Sani R in SP/EG 0110-0303*, reggae mx in EG, SP ballads, TC, ID, ads, jingles, last hrd here in March '92, f-g (Alexander PA 8/27, Rausch NJ 9/10)
- 65602 IRAQ Rep of Iraq R in AR *0157, clucking chicken IS, NA, Koran (Alexander PA 9/5)
- 6576 NO KOREA R Pyongyang in EG *1100, ID, NA, nx, tribute to Kim (Newbury NE)
- 6803v PERU Ondas del Mayo in SP 0116, tlks, folk mx, presumed ID, f (Lamb NY 8/24)
- 7100 IRAN VOIRI in EG 0035, rpt on Bosnia, UN Summit, ID, g (McGuire MD 8/29)
- 7110 ETHIOPIA VOE in Amharic 0408, nx?, local mx w/kids, tlks, //9705 (Lamb NY 8/26)
- 7110 CHINA PBS Lhasa Tibet in TB 1215, chants, Mons. only, //4035 (Ryan THAI 9/5)
- 7110nf? INDIA Port Blair Andaman Is. in HD *0700, IS, ID, relay Delhi EG nx 0730 & 0830, s/off 0850, new PM service since 9/7, muddy modulation (Ryan THAI 9/7)
- 71634 LAOS LNR, Luang Prabang in Vern/Lao 0540-0700*, tribal mx, IS, ID, fqy, long tlks, muddy modulation (Ryan THAILAND 8/18) ED: Only 1 kw power per PWBR.
- 7180 SO KOREA RKI in EG 1242, hist of JP invasion of KR told in story & mx, ads, QTH, fqy, travel promo, req QSL's, mx 1259* (Robertson CA 8/23)
- 7180 HONG KONG BBC relay in EG *1300, world nx, ID, pips, exc (Robertson CA 8/23)
- 7185 SO AFRICA Chan Africa in FR 0431, remote rpt, ID, fqys, Afr nx (Lamb NY 8/26)
- 7200 INDIA AIR Imphal, testing in HD/EG 0545, ID, nonstop mx, tlk (Ryan THAI 8/20 only)
- 7200 SUDAN R Omdurman in AR 0312, Koran, orch mx, ID, g (Flynn OR 8/4)
- 7205 CYPRUS CBC in GK *2213-2245*, IS, ID, GK inst mx, //6180, 9760 (D'Angelo PA)
- 7245nf? CHINA Guizhou PBS in CH 1432, clear ID, tlks, f w/splatter (Flynn OR 8/13)
- 7255 NIGERIA VON Lagos in EG *0455, s/on w/ID & pgm preview (Kaminsky NJ 9/2)
- 7265 GERMANY Sudwestfunk in GM 2352, pop mx, pips, ID, nx, rock (D'Angelo 8/16) in GM 0317, instrum mx, tlks, pops, ID "Hier ist Baden-Baden" (Lamb NY 8/22)
- 7265 YUGOSLAVIA Bos Serb R in lang 2200, IS, ID, fqys, nx, tlk (Ryan THAILAND 8/30)
- 7265 BOTSWANA VOA relay in EG 0450, "Daybreak Africa", interview, ID (Lamb NY 8/26)
- 7285 POLAND Polish R Warsaw in EG 1947, tlk re Bikeathon, nx, Chopin mx, ID (Lamb 9/5)
- 7295 MALAYSIA Radio 4 RTM in EG 1115, "UN Calling Asia", Mons. only (Ryan THAI)
- 7310 SLOVAKIA R Slovakia Int in EG 0105, nx, cmntry on Slovak congress (Davenport TN)
- 7338v VATICAN STATE VR in lang/EG 0131, folk mx, IS, ID, tlks, choir (Lamb NY 9/4)
- 7355 RUSSIA R Rossii Novosibirsk in RS 2035, pops, IDs, TP, nx, tlks (Ryan THAI 9/6)

7670nf? BULGARIA Horizont R in BG 0402, nx?, ID, harp mx, pops, IS, f (Lamb NY 9/5)

9200nf SUDAN R Omdurman in AR *0255, IS, NA, ID, QTH, Koran, nx //7200, good signal on 9200 but QRM on 7200 (Rausch NJ 8/28, Alexander PA 8/28)

9200nf SUDAN Sudan Nat BC in EG 1855, ID, nx, into AR 1900 (Rausch NJ 9/5)

9420 GREECE VOG in GK/EG 0030, Eastern mx, IS, sked (McGuire MD, Rippel VA)

9435 ISRAEL Kol Israel in EG 0400, ID, IS, tlk re meeting w/PLO, g (McGuire MD 8/23)

9445 TURKEY Voice of Turkey in EG 0215, Mideast mx, ID, g (Rippel VA 8/23)

9505 CHINA Haixia 2, V of the Straits in CH 1325, play, folk mx, g (MacDonald WA 8/15)

9515 ROMANIA RRI in EG 0405, polit & econ nx, ID (McGuire MD 8/27, Newbury NE)

9520 PHILIPPINES R Veritas in VT 1320, tlk, relig/folk mx, EG ID (MacDonald 8/15)

9525nf? SINGAPORE RSI in EG 1310, pop mx, interview w/singer, g (MacDonald 8/15)

9530 RUSSIA Magadan R in RS 0633, chorale mx, DJ, ezl, ID 0658, f-g (Robertson CA 8/22)

9535 JAPAN RJ Tokyo in JP/EG 1700, JP to 1700, int'l & political nx, f-g (Robertson CA 9/3)

9540 SPAIN REE in EG 0006, nx in EG, SP rock mx in the 80's, DX pgm (Newbury SASK 8/7)

9580 GABON Africa #1 in FR 2138, Madonna song, promo, African mx, ID, f-g (Lamb NY 9/4)

9585nf? QATAR Qatar BS in AR 2058, 5+1 pips, ID, mx fanfare, nx, Koran, f (D'Angelo PA 8/21)

9605 GREECE VOA Kavalla relay in AR 1913, nx, sd efx, //1750, f-g (Lamb NY 9/5)

9620 SPAIN REE in SP 0101, tlk by YL w/Broadway 40's type mx, g (Davenport TN 8/4)

9635 CYPRUS BBC relay in RS 1858, Madonna song, ID, nx re Clinton & Vatican, f (Lamb 9/5)

96477 COSTA RICA Faro del Caribe in SP/EG 0245-0410+, tlk, ID, relig tlk & mx, into EG pgming at 0302, back to SP 0407, using new xmttr, w/ splatter (Alexander PA 8/28, Flynn OR 8/15)

9650 NO KOREA R Pyongyang in JP 0720, martial mx w/chorale, ID, NA, f (Robertson CA 8/23)

9655 SRI LANKA Deut Welle relay in GM 1640, long talk, music interlude, IS, ID, f (Lyon MN 8/30)

9665 BRAZIL R Marumby in PT 2232, tlk re Brasil economy, anmts, ID, nx (Paszkiwicz WI)

9675 PAPUA NEW GUINEA NBC Pt Moresby in language /EG 1130, island music, talk, g (Rippel VA 8/24)

9705 PORTUGAL RDPI Lisbon in PT 0155, ID in EG & PT, NA, exc (Newbury ND 8/9)

9770 UNITED ARAB EMIRATES Abu Dhabi in EG 2245, mx, ID, press review (McGuire MD)

9810 SWEDEN RS in EG 0035, report on writer defaming Islam faith in Bangladesh, ID (McGuire MD 8/20)

9840 KUWAIT R Kuwait in AR 2100, Mid East mx, NA, ID on hr (Rippel VA 8/20)

9850 SWEDEN R Sweden in EG 0231, sports rpt & nx, ID (Newbury ND 8/2, Levison PA 8/23)

9860nf FRENCH GUIANA Swiss R relay in EG 0400, Newsnet, feature, //9885 (Flynn OR 8/4)

9870 AUSTRIA RAI in GM 0005, natl issues, mx, street interviews, g (McGuire MD 8/26)

108485 AUSTRALIA Armed Forces R in EG 1622, rock mx w/DJ, USB xmsn, p (Flynn OR 8/5)

11335 NO KOREA R Pyongyang in EG *1100, IS, nx, features, lcl mx, vg (Alexander PA 9/3)

11570 PAKISTAN R Pakistan in EG 1610, nx, cmntry, //13590, 15675 (Ryan THAILAND 8/19) in EG *1656, IS, brief Koran, into EG pgming w/nx, wx, lcl mx, weak (Alexander PA 9/4)

11603v ISRAEL Kol Israel in RM 1735, nx, ID 1740, exc (MacDonald WA 9/10)

11715 CANADA R Korea relay in EG 1055, tlk on unification w/N Korea, ID (Newbury NE 8/20)

11750 SINGAPORE BBC relay in EG 1615, nx, sports rpt, ethnic mx, sked (Newbury NE 8/6, Robertson CA 9/3, MacDonald WA 9/10)

11780 SAUDI ARABIA BSKSA in AR 1745, mx incl "Shenandoah", //11965 (MacDonald 9/10)

11805 THAILAND VOA relay in EG 1250, Amer folk mx, TC, ID, nx, vg (Lyon MN 9/4)

11827 FRENCH POLYNESIA RFO Tahiti in FR 0337, island mx, tlk, ID, f (Robertson CA 8/21)

11850v MONGOLIA R Ulaanbaatar in CH 1348, long tlk, brief mx, ID, nx, g (Lyon MN 9/2)

11920 ARMENIA Yerevan-Arax R Agency in EG/SP 2230, ID, sked, QTH, into SP pgming at 2245, f, //11790, R Moscow pgming in SP at 2300 (Alexander PA 9/2)

11940 JORDAN R Jordan in AR 2255, AR mx, pips, ID, cmntry (Davenport TN, Newbury SASK)

13615 BANGLADESH R Bangladesh in EG 1230, nx, tlk on world population (Ryan THAI 8/17)

13625 RUSSIA Golos Rossii Novosibirsk in RS 1200, IS, ID, tlks, mx (Ryan THAILAND 8/16)

13635nf FRENCH GUIANA Swiss R relay in GM/EG *0027, IS, site ID, nx in GM, into EG 0100 (D'Angelo PA 8/18, Levison PA 8/9, MacDonald WA 9/11)

13760 NO KOREA R Pyongyang in EG *1300, IS, nx, features, mx, //15230, g (Alexander PA 9/3)

15110 MALI China R Intl relay in EG 1800-2130, nx re CH women weightlifters, ID, "China's Open Window", //11715 (Wilson DE, Lamb NY 9/5)

15115 NEW ZEALAND RNZ1 in EG 0145, mx sels, ID, nx, f (Levison PA 8/16) in EG *2138, TC, ID, nx, powerful sigs (Berg MA 8/7, Wilson DE) in EG 0145, classical mx, fqys, f (Robertson CA 8/22)

15160 ASCENSION IS VOA relay in EG 2021, IS, nx, fqy cuts over to BBC relay 2029 (Lamb NY 9/5)

- 15167v FRENCH POLYNESIA RFO Tahiti in Vern/FR 0210-0315, US pop rx, long tlk in vernacular, island mx, frequent ment of Tahiti, //118268 (Rippel VA 8/24, Lyon MN 9/1)
- 15180 RUSSIA R Ukraine via Russia in EG 0132, tlk on UKR econ dev, ID (Newbury SASK 8/4)
- 15290 MOLDOVA R Dniester Intl in EG 2030-2059*, feature abt Nazi concentration camps during WW II, ID at s/off, into R Moscow WS w/ID & news at 2100 (D'Angelo PA 8/16, Flynn OR 8/19)
- 15295 UZBEKISTAN R Tashkent in EG 1340, folk mx, tlk on RS econ, ID, f (Lyon MN 8/30)
- 15365 AUSTRALIA RA in EG 0220, feature on Kuwait & terrorism (Newbury ND, Levison PA)
- 15370 THAILAND R Thailand HSK9 via VOA relay station in EG/TH *0030-0103, s/on w/gong IS, ID opening EG anks & pgming w/nx, list of lcl meetings & events, wx rpt, ment of VOA relay, into Thai at 0103, Asia mx, sport rpt (Alexander PA, Lamb NY, Wilson DE, Rausch NJ, Levison PA)
- 15390 ASCENSION IS RAJ relay in IT 0203, Rossini's "Cat Duet", TS Eliot in IT, pops, //11765 also from Ascension Island and //9725 direct from Rome (Lamb NY 9/6)
- 15395 UNITED ARAB EMIRATES Dubai in EG 1330, Middle-East & world nx, wx rpt, ID, pgm on poems, AR mx, //13675, 15320, 21605 but best on 15395 (Alexander PA 8/28)
- 15440 FINLAND R Finland in EG 1917, nx, ID, mx interlude, cmntry on sels (Levison PA 8/16)
- 15510 AUSTRALIA RA in EG 0414, racism in sports, Commonwealth Games rpt (Lamb 8/25)
- 15555 PAKISTAN RP in EG 1615, slo-speed nx, ID, s/off 1629, f (Lyon MN 8/30)
- 15725 USA KAJI Dallas, Tx in EG 1400, Dr G. Scott pgm, call letters formerly KCBI (Berg MA)
- 15770 ICELAND Reykjavik in IC 2005, tlks by M, brief mx, s/off 2017, p (Lyon MN 8/30)
- 17655 NETHERLAND ANTILLES R Nederland relay in EG 1941, cmty, ID, g (Levison PA 8/15)
- 17725 UKRAINE R Ukraine Lvov in GM 2055-2100*, ID, fqys, mx, g (Lyon MN 8/30) 1000 kw!
- 177452 ALGERIA R Algier Int in EG 1600-1700, US instrmls/jazz mx, nx, ID, signal barely audible but in the clear, R Portugal dominates this fqy on weekends (Alexander PA 9/5)
- 17860 AUSTRALIA RA in EG 0116, live broadcast of Commonwealth Games (Robertson CA, Levison PA)
- 17870 ITALY R Roma in IT 1738, mx sels, ID, mechanical bird IS chirping, f (Levison PA 8/21)
- 17880 ASCENSION IS BBC relay in EG 1913, pgm on history & benefit of Olympic Games, ID 1930, classical mx, applause (Robertson CA 9/2, Levison PA 8/20)
- 18930 USA WEWN relay of St Joseph's Catholic R in EG 1935, rel teaching of "Our Lady & Holy Spirit" catechism of Cath. Church, QTH, ID as WEWN at 1955, (Robertson CA 9/2)
- 21605 UNITED ARAB EMIRATES Dubai in EG 1600, nx, wx, pgm on poems, , lcl mx, ID, into AR pgming at 1641, //13675, 15320, 15395 (Alexander PA 9/3)

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CLANDESTINE STATIONS

- 11470 EGYPT V of Human Rights & Freedom of Iran in multi-lingual *1545-1615, IS, ID sequence in langs including EG, NA at 1546 & into tlk in lang, lcl mx, f, //11650 (Alexander PA 9/5)
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EDITOR'S NOTES & COMMENT

1. Last December I advised contributors that I could not include Pirate loggings in the International Band column. However, Kirk Trummel (1122 West University, Springfield, MO 65807) has advised me that he wishes to receive such loggings for the publication he prepares regularly. Those interested should contact him directly for further information.
 2. Doug Robertson reports that St. Helena is once again expected to make an "annual" broadcast as Radio St. Helena from Jamestown on 110925 USB with 1.5 kw on Friday, October 14 at 2000 UTC to commemorate St. Helena Day. QSL address is: St. Helena Government Broadcasting Service, The Castle, Jamestown, St. Helena ATTN: Tony Leo, Station Manager. Thanks for the info, Doug.
 3. One of our regular contributors to the NASWA logging columns visited my QTH for most of last week. Giovanni Serra from Rome, Italy is making the Grand Tour of the USA this month and came directly from Sheryl Paszkiewicz's QTH where he spent about 3 days. He was here for 6 days and in addition to showing him around Seattle, he got a chance to do some DX'ing on my NRD-525. He also lucked into getting a copy of the 1995 Passport to World Radio Handbook which just came out. Apparently, it is a long process to obtain one in Italy.
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English Schedules

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Prepared 9/23/94 at 10:23 AM.

For September, thanks to Bob German (George Jacobs & Associates), Jonathan Marks (R Netherlands), Rich McVicar (HCJB), Dr. Adrian Peterson (AWR), and Andy Sennitt (WRTH).



The third transmitter at KSDA on Guam began regular operations in mid-August. Dr. Adrian Peterson faxes the new times for *DX Asianwaves*: Sa 1500 and 1615, Su 1500, on 9370; Sa 2300 and Su 2315 on 11980.

Dr. Peterson also provided the new schedules for Rimavska Sobota, Forli, Samara, Novosibirsk, Guam and a new AWR site (no English) at Velké Kostolany, Slovakia. This one has one 100 kw transmitter.

Many R Moscow World Service frequencies changed, noted September 3. Unfortunately most of the frequencies found in August and listed in the *Journal* last month changed; those who have a subscription to the data files in our SCHEDULES program got the new data on the 4th. I think the Ukrainian site was only partially active in the first half of the month; the powerhouse 15290 and 7205, among others disappeared again by the weekend of the 17th. We've readjusted the 21-04 entries for the second time, and some of the times from 10 UT on. A new religious program has appeared on R Moscow, heard Sunday the 3rd 15-16 UT. In terms of format, it sounds something like the long-gone R Aum Shinrikyo but this one gives an address of the "The Word: The Original Christian Universal Way", Box 5643, 97006 Ing_wort (sic), Germany. (It doesn't sound like Ingelstadt to me and I couldn't find a

possibility in the atlas, but if you have a postal code directory...).



HCJB has rearranged some of its broadcast schedule. Notably the two separate hours to Europe are now one multi-hour time block. The broadcast times for the hobbyist shows have been moved around a bit. Rich McVicar provides the details:

DX Party Line Sa 0709, 1009, 1209, Su 0109, 0509; *The Latest Catch* We 0700, 0930, 1800, Th 0200, 0600; and *Ham Radio Today* We 0800, 1030, 1730, Th 0130, 0530.

Quickies

R Dniester Int'l on new 11750 (ex-15290) 2030 UT was noted September 3, announcing the old schedule, and MW 999 kHz. R Pakistan on new 15625 at 1100 is fairly good here on the high antenna. In early September R Ukraine Int'l was back from the missing, but with a lesser number of frequencies than two seasons ago. I heard at least some of the frequencies on all three releases but the signals are quite weak — as if the transmitter powers have been reduced. At month end, however, with the Ukrainian relays of RMWS cut once again, I'm not sure if this affects R Ukraine.

If you can't find what you're looking for, time-shifting may be the cause. Look an hour later. For example, BBCM doesn't know if R Yugoslavia will adjust transmission hours.

Coming Real Soon Now! We're putting the final touches on our SCHEDULES program's capability to send data to the Watkins-Johnson HF-1000 receiver. It should work on the WJ-8711 unit as well. Questions? Just ask...

PC Software by W2XQ

English Language SWBC Schedules
JRC/Kenwood/Lowe Receiver Control
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Send #10 SASE (2 IRCs) for a catalog or download TRS_CAT.EXE from the Pics OnLine! BBS at (609)753-2540. Type SWL at a main menu prompt. Get weekly updated full schedule and DX show data whenever you want it by making a 4 minute phone call; no cutting and pasting pages. See p.594 1994 WRTH.

TRS CONSULTANTS, PO Box 2275-NA, VINCENTOWN, NJ 08088-2275

SCHEDULES

START	End	COUNTRY	STATION	FREQUENCIES (kHz)						TARGET AREA	NOTES	LAST UPDATE		
0000														
0100	Bulgaria		R Bulgaria	9700	7205					NAm		09/17/94		
2400	Costa Rica		R for Peace Int'l	17905 ^U	15030	9400 ^U	7385			LAm/NAm	#1 testing days	09/19/94		
0030	Norway		R Norway Int'l	6120	6115					NAm/SAm	Mo only	09/10/94		
0100	Russia		R Moscow Int'l	17890	17570	15425	9620			World Service		09/22/94		
0100	USA		WSHB	7535	7535					eNAm/Carib		09/23/94		
0100	Ukraine		R Ukraine Int'l	15580	15180	12030	11720	9860	9685	NAm	only #1,2,4 hr	09/05/94		
0030														
0055	Belgium		R Vlaanderen Int'l	9930	6035					SAm/NAm		09/03/94		
0127	Netherlands		R Netherlands	7305	5905					sAs		09/18/94		
0100														
0200	Australia		Aust Defense Forces R	13525 ^U						Malaysia		09/15/94		
0159	Canada		R Canada Int'l	13720	11845	11725	9755	9535		Carib/LAm/NAm		09/20/94		
0127	Czech		R Prague	9485	7345					NAm		09/23/94		
0150	Germany		R Deutsche Welle	9700	9670	9565	6145	6120	6085	6040	930	NAm	09/03/94	
0200	Japan		R Japan	9565	5960					GOS:NAm		09/22/94		
0200	Russia		R Moscow Int'l	17890	17570	15425	9620			World Service		09/22/94		
0200	Slovakia		AWR	7275						India		09/18/94		
0200	USA		WSHB	9430						CAm/SAm		09/23/94		
0130														
0200	Austria		ORF	9655						NAm		09/14/94		
0227	Netherlands		R Netherlands	11655	9860	7305	5905			sAs		09/18/94		
0140														
0200	Vatican State		Vatican Radio	7335	5980					As/Aus/NZ		09/20/94		
0200														
0229	Canada		R Canada Int'l	11845	11725	9755	9535	6120		Carib/LAm/NAm	Su&Mo -0259	09/20/94		
0227	Czech		R Prague	9485	7345					NAm		09/23/94		
0250	Germany		R Deutsche Welle	9815	9690	9615	9515	7285	7265	6130	6035	1548	sAs	09/03/94
0230	Hungary		R Budapest	11910	9835	6025				NAm		09/16/94		
0230	Norway		R Norway Int'l	9560						NAm/CAm	Mo only	09/10/94		
0300	Russia		R Moscow Int'l	17890	17570	15425	12050	9620		World Service		09/22/94		
0300	USA		WSHB	9430						Mexico		09/23/94		
0230														
0327	Netherlands		R Netherlands	11655	9860					sAs		09/18/94		
0300	Sweden		R Sweden	9850	6200					NAm		09/20/94		

SCHEDULES

START End	COUNTRY	STATION	FREQUENCIES (kHz)						TARGET AREA	NOTES	LAST UPDATE
0300											
0350	Germany	R Deutsche Welle	9650	9640	9535	6120	6085	6045	NAm		09/03/94
0400	Japan	R Japan	9565						GOS:NAm		09/18/94
0400	Russia	R Moscow Int'l	9880	9670	9620	7205			World Service		09/04/94
0500	South Africa	Channel Africa	9585	5995					e&c&A/sAI		09/18/94
0400	USA	WSHB	11695						eAI		09/23/94
0400	Ukraine	R Ukraine Int'l	15580	15180	12030	11720	9860	9685	NAm	only #1,2 hrd	09/05/94
0320											
0350	Vatican State	Vatican Radio	7360	5865					eAI		09/20/94
0330											
0400	Austria	ORF	13730	9870					LAm		09/14/94
0400	Hungary	R Budapest	11910	9835	6025				NAm		09/16/94
0427	Netherlands	R Netherlands	6165	6015					wNAm		09/18/94
0400	Sweden	R Sweden	9850	6200					NAm		09/20/94
0400											
0429	Canada	R Canada Int'l	9670	9505	6150				ME		09/20/94
0427	Czech	R Prague	7345	5930					NAm		09/23/94
0450	Germany	R Deutsche Welle	9765	9565	7225	7160	6065	6045	6015	e&c&A/ME	09/03/94
0500	Russia	R Moscow Int'l	17675	15425	12050	9880	9620		World Service		09/22/94
0500	Slovakia	AWR	9465	6050					AlgeAI		09/18/94
0500	USA	WSHB	11695						c&eAI		09/23/94
0430											
0530	Australia	Aust Defense Forces R	13525U						Malaysia		09/15/94
0457	Czech	R Prague	11640	9440					ME/eAI		09/23/94
0500	Ecuador	HCJB	21455U	12005					NAm		09/05/94
0530	Swaziland	Trans World Radio	5055	3200					sAI		09/03/94
0455											
1550	South Africa	Radio Oranje	7270						rwCape/Namibia		09/18/94
0457											
0533	Seychelles	FEBA	17725						sAs	Fr	09/03/94
0500											
0600	Bulgaria	R Bulgaria	9700	7335					NAm		09/17/94
0550	Germany	R Deutsche Welle	6185	6120	6045	5960			NAm		09/03/94
0600	Japan	R Japan	11885	9725	9565				GOS:NAm		09/18/94
0530	Norway	R Norway Int'l	5905						wNAm	Mo only	09/10/94
0600	Russia	R Moscow Int'l	9880	9620					World Service		09/22/94
0600	South Africa	Channel Africa	11900	7185					wAI/eAI		09/18/94
0600	USA	WSHB	7535						cEu		09/23/94

SCHEDULES

START End	COUNTRY	STATION	FREQUENCIES (kHz)							TARGET AREA	NOTES	LAST Update	
0500													
0530	Vatican State	Vatican Radio	11625	9725	7360					e&Af		09/20/94	
0530													
0600	Austria	ORF	13730	6155						Eu		09/14/94	
0735	Swaziland	Trans World Radio	9650							Cape	Mo-Fr -0805	09/03/94	
0543													
1206	New Zealand	R New Zealand Int'l	9700							Pacific	Sa	09/10/94	
0600													
0629	Canada	R Canada Int'l	11905	9750	9740	6150	6050			AI/ME/Eu	For Peacekeeping For	09/20/94	
0650	Germany	R Deutsche Welle	21705	17820	15185	13790	11765	9565	6100	wAf		09/03/94	
1000	New Zealand	ZLXA / Print Disabled R	3935							Pacific	Mo-Fr Su -09	09/16/94	
0700	Slovakia	AWR	13715							c&wAf		09/18/94	
0700	South Africa	Channel Africa	9695							c&wAf		09/03/94	
0735	Swaziland	Trans World Radio	9500							s&cAf	Mo-Fr -0805	09/03/94	
0800	USA	WSHB	7535							wEu		09/23/94	
0620	Vatican State	Vatican Radio	6245	3950	1530	527				Eu		09/20/94	
0601													
1206	New Zealand	R New Zealand Int'l	9700							Pacific	Su	09/10/94	
0630													
0700	Vatican State	Vatican Radio	9725	7360	5865					c&s&wAf		09/20/94	
0700													
0727	Czech	R Prague	9505	7345	5930					Eu		09/23/94	
0930	Ecuador	HCJB	17490U							"Worldwide"		09/05/94	
0800	Japan	R Japan	15335							GOS:ME		09/18/94	
0710	Vatican State	Vatican Radio	15210	11740	9645	7250	6245	3950	1530	527	ME/Eu/wCIS	Mo-Sa European 1st p	09/20/94
0716													
1206	New Zealand	R New Zealand Int'l	9700							Pacific	Mo-Fr	09/10/94	
0730													
0755	Belgium	R Visanderen Int'l	9925	5985	1512					Aus/sEu		09/03/94	
0827	Netherlands	R Netherlands	11895	9720						Pacific		09/18/94	
0745													
0915	Guam	KTWR	15200							seAs/Indon		09/03/94	
0800													
1000	Australia	Aust Defense Forces R	18192U	15606U						eAf		09/15/94	
0827	Czech	R Prague	21705	17535	15605					eAf/As/Pac		09/23/94	
0830	Norway	R Norway Int'l	15175							FE/NZ	Su only	09/10/94	
0900	Pakistan	R Pakistan	17900	15625						wEu		09/10/94	
0900	Slovakia	AWR	17630							wAf		09/18/94	

Start	End	Country	Station	Frequencies (kHz)	Target Area	Notes	Last Update
0800	1000	USA	WSHB	7395	Eu		09/23/94
0630	0830	USA			Su		09/23/94
0645	0845	Armenia	R Yerevan	1770 15170	Eu		09/16/94
0900	0900	Austria	ORF	1870 15450	Aus		09/18/94
0927	0927	Netherlands	R Netherlands	13700 9720	Pacific		09/18/94
0845	0845	Guam	KTWR	11805	aPac		09/03/94
0900	0900	Germany	R Deutsche Welle	21680 21650 17820 17780 12055 11715 6160	AsPac		09/03/94
1000	1000	Russia	R Moscow Int'l	17760 15455 12020 11900 11800 11705	World Service		09/05/94
1000	1000	Slovenia	AWR	9450	nEu		09/18/94
1000	1000	USA	WSHB	7395	Brazil/SAm		09/23/94
0930	0930	Netherlands	R Netherlands	21505 9810 9720 7260	Pacific & FE	#1 not on Sa	09/18/94
1000	1000	Australia	Aust Defense Forces R	13525U	Malaysia		09/15/94
1025	1025	Belgium	R Vlaanderen Int'l	17595 15510 6035	MtEu	Mo-Sa	09/03/94
1100	1100	Bulgaria	R Bulgaria	12040	Aus		09/17/94
1300	1300	Costa Rica	AWR Lam	13750 9725 5030	LAm	#1 probably not acti	08/30/94
1030	1030	Ecuador	HCB	17490U	"Worldwide"		09/05/94
1100	1100	Russia	R Moscow Int'l	12055 12020 12010 11900 11800 11705	World Service		09/05/94
1100	1100	South Africa	Channel Africa	17810	ctAfr		09/03/94
1300	1300	USA	WSHB	7535 7535	eWAm/Carb		09/23/94
1030	1030	Austria	ORF	1870 15450	Aus	Mo-Sa	09/14/94
1127	1127	Netherlands	R Netherlands	9810 7260	FE		09/18/94
1055	1055	United Arab Emirates	R Dubai	21605 15395 15345 13675	Eu/NA		09/04/94
1100	1100	Ecuador	HCB	21455U 15115	NAm/SAm		09/05/94
1430	1430	Germany	R Deutsche Welle	21600 17800 17765 15410 15370	WAl		09/03/94
1120	1120	Pakistan	R Pakistan	17900 15625	Wcu	Slow-speed English	09/10/94
1200	1200	Russia	R Moscow Int'l	13615	World Service	not all days	09/05/94
1200	1200	USA	WSHB	7395	Car/SAm		09/23/94
1115	1115	Valcan State	Valcan Radio	21730 15210 11740 6245 1530 527	nAm/ME/Eu	Mo-Sa European 1st p	09/20/94

SCHEDULES

SCHEDULES

START	END	COUNTRY	STATION	FREQUENCIES (kHz)			TARGET AREA	NOTES	LAST Update
1130									
1157		Czech	R Prague	11990	9505	7345	Eu		09/23/94
1230		Iran	V of Islamic Rep of Iran	11910	1224	702	ME		09/01/94
1227		Netherlands	R Netherlands	7130	6045		Eu		09/18/94
1159		South Korea	R Korea	9650			eNAM		09/09/94
1145									
1200		Rwanda	R Rwanda	6055			AJ	news	09/23/94
1200									
1229		Canada	R Canada Int'l	17820	11855		Carib/NAM	Mo-Fr	09/20/94
1255		China	China R Int'l	15210			eNAM		08/27/94
1600		Ecuador	HCJB	174900			"Worldwide"		09/05/94
1230		Norway	R Norway Int'l	15165	11850		Aus/As	Su only	09/10/94
1300		Russia	R Moscow Int'l	11985	11800	11705	World Service		09/04/94
1300		USA	WSHB	9455			CAM/SAM		09/23/94
1230									
1300		Austria	ORF	15450			As		09/14/94
1330		Bulgaria	R Bulgaria	17740	9770		As		09/17/94
1259		Canada	R Canada Int'l	11730	6150		As		09/20/94
1327		Netherlands	R Netherlands	7130	6045		Eu		09/18/94
1300									
1559		Canada	R Canada Int'l	17820	11955		Carib/NAM	Su	09/20/94
1400		N Mariana Is	KHBU/1	13625			India		09/23/94
1355		Poland	Polish Radio Warsaw	11815	7270	7145 6135	Eu		09/16/94
1400		Russia	R Moscow Int'l	11985	11960	11940 9895	World Service		09/05/94
1400		USA	WSHB	9455			Mexico		09/23/94
1307									
1649		New Zealand	R New Zealand Int'l	9655			Pac	occasional use	09/10/94
1330									
1355		Belgium	R Vlaanderen Int'l	13675			NAM	Su	09/03/94
1357		Canada	R Canada Int'l	9535	6150		eAs		09/20/94
1427		Netherlands	R Netherlands	15150	13700	9895	sAs		09/18/94
1400		Sweden	R Sweden	15240	11650		NAM		09/20/94
1345									
1405		Vatican State	Vatican Radio	15585	12050		As/Aus/NZ		09/20/94

SCHEDULES

START End	COUNTRY	STATION	FREQUENCIES (kHz)										TARGET AREA	NOTES	LAST Update	
1400																
1600	Australia	Aust Defense Forces R	106220	87430										eAf		09/15/94
1425	Belgium	R Vlaanderen Int'l	13675											NAm	Mo-Sa	09/03/94
1500	Russia	R Moscow Int'l	17760	15405	15455	15425	15140	15125	11960	9895	9820			World Service		09/23/94
1500	Slovakia	AWR	9455											India		09/18/94
2300	USA	WRNO	15420											NAm/CAm/Eu	10-30:94 15-23	09/05/94
1430																
1459	Canada	R Canada Int'l	17820	15325	11935	11915	9555							Eu/ME/AF		09/20/94
2100	Ecuador	HCJB	214550	6080										nSam		09/09/94
1527	Netherlands	R Netherlands	15150	13700	9895									sAs		09/18/94
1500	Sweden	R Sweden	15240	11650										NAm		09/20/94
1445																
1615	Guam	KTWR	11580											s&As	We-Sa -1645 Su -1700	09/03/94
1458																
1555	Seychelles	FEBA	11870											sAs	Sa-1550, Su-1558	09/03/94
1500																
1700	Costa Rica	AWR LAm	13750											LAm	may not be active	08/30/94
1700	Guam	KSDA	9370											India		08/30/94
1600	Japan	R Japan	11955	9750										GOS:As		09/22/94
1600	Russia	R Moscow Int'l	17760	15520	15470	15425	15320	15180	11940	11875	9820			World Service	Su: "The Word" (rign	09/04/94
1600	South Africa	Channel Africa	7225											s&eAf		09/18/94
0100	USA	KTBN	15590											eNAm	from 10/30/94 00-16	09/05/94
1530																
1600	Austria	ORF	9880											ME		09/14/94
1630	Iran	V of Islamic Rep of Iran	11790	9575										As		09/01/94
1627	Netherlands	R Netherlands	15150	9895										sAs		09/18/94
1540																
1600	Vatican State	Vatican Radio	12050	9500										As/AusNZ		09/20/94
1555																
2200	South Africa	Radio Oranje	3230											rwCape/Namibia		09/18/94
1600																
1627	Czech	R Prague	13580	7345	5930									Eu/ME/AF		09/23/94
1650	Germany	R Deutsche Welle	11795	9585	9525	7305	7225	6170	1548					sAs		09/03/94
1655	Poland	Polish Radio Warsaw	9525	7285										Eu		09/16/94
1700	Russia	R Moscow Int'l	17760	15500	15385	15180	12065	12055	11960	11875	9880			World Service		09/05/94
1700	South Africa	Channel Africa	15240	7225										c&wAf/s&eAf		09/18/94
1700	Swaziland	Trans World Radio	9500											eAf		09/03/94
1700	USA	WSHB	21640											eAf		09/23/94

SCHEDULES

START	END	COUNTRY	STATION	FREQUENCIES (kHz)								TARGET AREA	NOTES	LAST Update
1600														
1620	Vatican State	Vatican Radio	12050	9500							eAf/As/AusNZ	SajMass	09/20/94	
1630														
1700	Austria	ORF	11700								As		09/14/94	
1657	Canada	R Canada Int'l	9550	7150							India		09/20/94	
1640														
1650	Rwanda	R Rwanda	6055								Af	Sujnews	09/23/94	
1650														
1849	New Zealand	R New Zealand Int'l	9655								Pacific	Mo-Fr	09/10/94	
1700														
2000	Ecuador	HCJB	15350								Eu		09/05/94	
1800	N Mariana Is	KHBU2	13625								eAf		09/23/94	
1800	Russia	R Moscow Int'l	17760	15500	15385	12055	11960	11715	9880	9540	World Service		09/05/94	
1800	Slovakia	AWR	9450	7270							eAf/Afg		09/18/94	
1800	South Africa	Channel Africa	7225								s&eAf		09/18/94	
2045	Swaziland	Trans World Radio	1170								sAf		09/03/94	
1800	USA	WSHB	21640								cAf		09/23/94	
1715														
1730	Swaziland	Trans World Radio	7120								Malawi	Mo-Sa	09/03/94	
1730	Vatican State	Vatican Radio	9645	7250	6245	1530	527				ME/eAf/wEu	European 1st pgm	09/20/94	
1730														
1827	Netherlands	R Netherlands	11655	9605	6020						s&e&wAf		09/18/94	
1800	Vatican State	Vatican Radio	11625	9725	7305						e&sAf		09/20/94	
1745														
1800	Armenia	R Yerevan	6065	5930	4990	4810	1395	864			Eu		09/23/94	
1759	Canada	R Canada Int'l	17820	15325	11935	5995					Eu/ME/Af		09/20/94	
1800														
1827	Czech	R Prague	11640	7345	5930						Eu/Af		09/23/94	
1830	Norway	R Norway Int'l	11930	7120							eEu/ME/Af	Su only	09/10/94	
1855	Poland	Polish Radio Warsaw	7285	7270	5995						Eu		09/16/94	
1900	Russia	R Moscow Int'l	17760	15500	12055	11715	9880	7205			World Service		09/05/94	
1900	USA	WSHB	21640								sAf		09/23/94	
1830														
1927	Netherlands	R Netherlands	17605	15315	11655	9860	9695	9605	6020	6015	s&e&wAf		09/18/94	
1845	Rwanda	R Rwanda	6055								Af	news	09/23/94	

SCHEDULES

START	End	COUNTRY	STATION	FREQUENCIES (kHz)								TARGET AREA	NOTES	LAST Update	
1850															
1958	New Zealand		R New Zealand Int'l	11735								Pacific	Sa	09/10/94	
1900															
1925	Belgium		R Vlaanderen Int'l	9925	5910	1512						AI/Eu		09/03/94	
2000	Bulgaria		R Bulgaria	7305	7305							wEu		09/17/94	
1950	Germany		R Deutsche Welle	15425	15145	13790	11865	11810	11785	9765	9665	7110	wAI/ME	09/03/94	
2000	Japan		R Japan	11850	7140								GOS:Oc	09/18/94	
1930	Norway		R Norway Int'l	9590	7215	5960	1314						Eu/AI/NZ	Su only	09/10/94
2000	Russia		R Moscow Int'l	17760	17570	15500	15480	12055	11715	9895	9880	9640	7205	World Service	09/05/94
2000	Slovakia		AWR	9455									c&wAI	09/18/94	
2000	USA		WSHB	21640									wAI	09/23/94	
1930															
2000	Austria		ORF	13730									AI	09/14/94	
2030	Iran		V of Islamic Rep of Iran	11965	9022	1404							Eu	09/01/94	
2027	Netherlands		R Netherlands	17605	15315	9860	9695	9605	6020				s&e&wAI	09/18/94	
1945															
2000	Belarus		R Minsk	11960	7210	6020	6010	1170					Eu	09/22/94	
1958															
0600	New Zealand		R New Zealand Int'l	15115									Pacific	Sa/Su	09/10/94
2000															
2050	Germany		R Deutsche Welle	7285	5960								Eu	09/03/94	
2030	Hungary		R Budapest	7220	6110	3955							Eu	09/16/94	
2100	Russia		R Moscow Int'l	9665	9640	7330	7205	7115					World Service	09/05/94	
2100	Slovakia		AWR	6055									ME	09/18/94	
2100	USA		WSHB	9355									Eu	09/23/94	
2030	Vatican State		Vatican Radio	11625	9645	7355							c&s&wAI	09/20/94	
2030	Yugoslavia		R Yugoslavia	9720	6100								Eu/AI	09/16/94	
2005															
0716	New Zealand		R New Zealand Int'l	15115									Pacific	Fr/Sa	09/10/94
2030															
2100	Moldova		R Dniester Int'l	11750	999								Eu	Mo, We, Sa w/repast	09/04/94
0600	New Zealand		ZLXA / Print Disabled R	7290	5960								Pacific	Sa-Th Fr -05	09/16/94
2125	Poland		Polish Radio Warsaw	7285	6135	5995	1503						Eu	09/16/94	
2050															
2110	Vatican State		Vatican Radio	5882	3950	1530	527						Eu	European 1st pgm	09/20/94

SCHEDULES

Start	Country	Station	Frequencies (kHz)	Target Area	Notes	Last Update
2081	New Zealand	R New Zealand hnt	15115	Pacific	Mo-Th	09/10/94
2100	Canada	R Canada hnt	17820 15325 15140 13690 11945 7260 5995	AM/ME/Eu		09/20/94
2150	Canada	R Canada hnt	17820 15325 15140 13690 11945 7260 5995	AM/ME/Eu		09/20/94
2127	Czech	R Prague	9485	As/Pac		09/23/94
2150	Germany	R Deutsche Welle	15425 9690 9615			09/03/94
2115	Japan	R Japan	11915 9660	Rng Svcs/As		09/22/94
2200	Russia	R Moscow hnt	17570 12065 11920 9880 9820 9750 9530 7300 7115	Rng Svcs/As		09/22/94
2200	USA	WSHB	9355	eNAM		09/23/94
2200	Ukraine	R Ukraine hnt	11705 9640 7240 7150 6070 6020 6010 6025		only #1-4 hrd	09/05/94
2130	Yugoslavia	R Yugoslavia	11870 9720 9595 9580 7265 6100	As/Eu/AM		09/16/94
2230	Iran	V of Islamic Rep of Iran	6175	As		09/10/94
2200	Netherlands	R Netherlands	1386			09/18/94
2225	Belgium	R Vlaanderen hnt	6035 5910 1512			09/03/94
2300	Bulgaria	R Bulgaria	9700 7105			09/17/94
2229	Canada	R Canada hnt	9755 5960	USA		09/20/94
2227	Czech	R Prague	9485 7345 5930	Eu/AM	Sa,Su - 2259	09/23/94
2300	Equatorial Guinea	R Africa	15190	AF		09/16/94
2230	Hungary	R Budapest	7220 6110 3955			09/16/94
2300	Russia	R Moscow hnt	17570 12065 11750 9895 9750	World Service		09/22/94
2300	Slovenia	AWR	7270	wAF		09/18/94
0455	South Africa	Radio Orange	3230			09/18/94
2300	USA	WSHB	17555	Brazil		09/23/94
2400	United Arab Emirates	V of UAE	11885 9770 9605	AM		09/14/94
2208						
2210	Croatia	Croatan Radio	13820 9830		News/English	09/23/94
2245	Netherlands	R Yervan	11920 11790	LAm		09/23/94
2305	Valcan State	Valcan Radio	11830 9600 7305 6150	As/AM/NZ		09/20/94
2300	Canada	R Canada hnt	9755 5960	AM		09/20/94
2400	Japan	R Japan	6155 6055	GOS:Eu		09/18/94
2400	Russia	R Moscow hnt	17890 15425 12065	World Service		09/22/94
2400	USA	WSHB	17555	SAm		09/23/94
2330	Austria	ORF	13730 9870	LAm		09/14/94
0027	Netherlands	R Netherlands	6165 6020	eNAM		09/18/94

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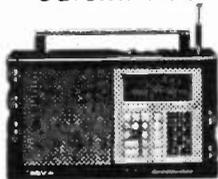
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The Journal of the
North American Shortwave Association

ISSN 0160-1989

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