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NORTH AMERICAN SHORTWAVE ASSOCIATION

VOLUME XXXIX NUMBER 7

JULY 1999



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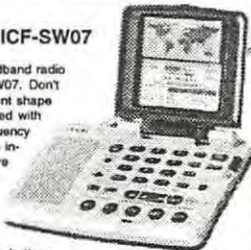
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 - World Radio TV Handbook 1999 Edition All shortwave broadcast stations organized by country with schedules, addresses, power, etc. #2000 \$24.95 (+\$2)
 - Pirate Radio By A. Yoder With audio CD! Here is the incredible saga of America's underground illegal broadcasters (with audio CD). #3008 \$29.95 (+\$2)
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From Publisher **Bill Oliver** comes the following concerning last month's edition of the Journal: "Regardless of what it said on last month's Journal, it was the June issue. The Memorial Day weekend got in the way of perfection. Sorry for the confusion." Anyone notice? Also from our publisher comes the following: "We'd also like to remind members that the "official" mailing date for the Journal is the Friday after the last Saturday of the previous month. We usually get it out before that, but if a holiday is involved, it sometimes takes longer."

Arne Skoog, the founder and DX editor of the famous hobby radio program *Sweden Calling DX'ers* died on Monday, June 7th, at the age of 86 years. Radio Sweden's "Media Scan" program ran a special feature about Arne in its June 15th transmission.

Sheldon Harvey, president of the Canadian International DX Club, edits and distributes on a monthly basis *The Radio H.F. Internet Newsletter*. He began this service earlier this year after discovering the wealth of information available on the internet: "I have discovered that a wealth of information is available through the Internet, if you know where to look. Unfortunately, so much time can be spent looking that little is left for digesting and learning. One of the goals of this newsletter is to zero in on web sites which I hope will be of interest to you". You can contact Sheldon at his internet address ve2shw@yahoo.com to get on the distribution list or you can check out past issues of the newsletter at the CIDX web site <<http://www.anarc.org/cidx/radiohf/>>. If you are interested in the wealth of interesting and valuable radio-related internet sites, you should check out this excellent service provided by Sheldon Harvey.

ANARC SWL Ham Net

Dave Kirby and Al Quaglieri, net controls for The ANARC SWL Ham Net, have announced that the net has gone on summer hiatus. Check-ins have been down for some time, and Dave and Al felt that they weren't likely to pick up during the summer. In the mean time, you can find many of the regulars from the net on IRC chat channel #swl. Dave and Al hope to bring the net back in September or October. Watch <<http://www.n1dk.com/>> for more information.

Bob Padula (Padula Books, 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia, E-mail: bpadula@compuserve.com; URL: <http://members.tripod.com/~bpadula/edxp.html>) has announced the impending launch of a brand-new printed serial publication, titled *The Australasian Shortwave Digest*. It is planned to be an 8-page minimum guaranteed, A4, saddle stitched, professionally printed and illustrated guide. It will not be available in soft-copy format. The First Edition will contain a special propagation article about "Winter Daytime Shortwave Reception in South Eastern Australia!" The first edition should be available in late July with subsequent editions being published approximately every four weeks. News about international and domestic shortwave radio broadcasting, concentrating on (but not limited to) transmissions from, or directed to Asia, the Far East, Siberia, the Western Pacific, the Indian sub-continent, and Australia. The Digest will NOT cover medium-wave, long-wave, VHF-FM, TV, "pirate", clandestine, harmonics, time signal, amateur, satellite, or utility transmissions. Frequency coverage will be 2,300-26,100 kHz.

Our Motto is - "Unity and Friendship"

Contributel

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


It will include new schedules, new stations, revised schedules, reception notes, spectrum studies, special articles, frequency surveys, propagation notes and predictions, book and media reviews, international broadcast engineering activities, frequency planning information, equipment reviews and technological developments. Subscriptions for the set of six issues will be A\$15 (to Australian addresses); outside of Australia via economy airmail: A\$25 / US\$15 / 20 International Reply Coupons. The project will be continually assessed in terms of demographic impact and financial viability. A free sample copy of the **FIRST EDITION**, and a Subscription Order Form, will be sent on receipt of return postage: to Australian addresses: one 45 cent stamp, elsewhere (economy airmail): two International Reply Coupons, or (A\$3 / US\$2 or CASH equivalent in ANY currency).

Although not shortwave broadcast related, the following book may be of interest to members. **Tiare Publications** has just released the new second edition of *Cop Talk* by Laura Quarantiello. If you are interested in eavesdropping on police radio communications, you need a copy of this book! Among other things, the book takes the mystery out of police jargon and provides valuable tips on choosing a police scanner. *Cop Talk* retails at US\$14.95 and is distributed exclusively by **BookWorld Services** (1933 Whitfield Park Loop, Sarasota, FL 34243). It can be ordered by calling 800-444-2524 or visit their web site (<http://www.bookworld.com>).

A couple of quick resource reminders initially mentioned in last month's Journal. First, the **Danish Shortwave Club International** ("DSWCI") has published its first *Domestic Broadcasting Survey*, which incorporates its 27th annual *Tropical Bands Sur-*

vey, covering domestic broadcasting activities not only on the tropical bands (120, 90 and 60 mb), but also on the higher shortwave bands. The 44 pages A-4 size DBS is sold by the treasurer: DSWCI, c/o Bent Nielsen <bentndx.elinh@post.tele.dk>, Egekrogen 14, DK 3500 Vaerloese, DENMARK for EUR 10, USD 12, DKK 75 or 14 IRC per issue with airmail delivery. Cash notes are accepted. Second, *Australasian Shortwave Guide #7—A99 Period*, is now available. It is a 16-page A-4 hard copy, professionally printed, saddle stitched with nearly 600 entries, presented in two parts: by order of Studio Country and Start Time. It covers the A99 international broadcast period March 29 to October 31 and includes English shortwave broadcasts to Australia, Papua New Guinea, Asia, New Zealand, the Far East, Oceania, Pacific, the Indian sub-continent, and Siberia and shortwave broadcasts in languages other than English to Australia, Oceania, New Zealand, Pacific, East Timor, and New Zealand. The cost is A\$10 / US\$10 / 10 IRCs, worldwide airmail or Australian surface postage included. Stocks limited—order quickly or miss out. Order from **Bob Padula** (or "Padula Books"), 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia (E-mail: bpadula@compuserve.com).

Finally, as mentioned last month, the **Ontario DX Association** will be celebrating 25 years of radio fun at its Radio Fest 99. This is a good opportunity to join other radio hobbyists to share in the fun on Friday, September 24 through Sunday September 26, 1999 at the Ramada Inn & Convention Center in Oakville, Ontario. Further information on Radio Fest can be found each month in our Calendar of Events section.

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

Calendar Of Events

- Jul'99 Convention.** **WTFDA Convention** will be held July 16-18, 1999 at the Wyndham Garden Hotel (1000 International Drive, Mt. Olive, NJ 07828); call 973-448-1100 or 1-800-WYNDHAM for reservations (\$89/night). Convention host is Rick Shaftan. No other details are available at this time.
- Jul 16 Meeting.** **Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.
- Jul 16 Meeting.** **Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>.
- Aug 13 Meeting.** The **Tidewater SWL's** meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net
- Aug 13 Meeting.** The **Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <mmeece@siscom.net>. For additional information about MONIX, check out their web site at <http://www.siscom.net/~mmeece/monix.html>
- Sep'99 Convention.** **NRC Annual Convention** will be held September 3-6, 1999 at the Holiday Inn in Bridgeport, WV (100 Lodgeville Road, Bridgeport, WV); call 304-842-4635 for reservations (\$70.85 per room if made before August 13th). Registration fee is \$35.00 prior to August 1st and \$40.00 thereafter. Send registration fee to William Swiger, One Casey Lane, Bridgeport, WV 26330 (304-842-4635).
- Sep'99 Convention.** Ontario DX Association will hold **Radio Fest 99** from September 24-26, 1999 at 1999 at the Ramada Inn & Convention Center in Oakville, Ontario. Radio Fest 99 will look at "Where we have come from in radio's past", "Where we are today", and "Where are we going in the future". There will be exhibits from equipment suppliers; clubs; technology from yesterday, today and tomorrow; plus tables of used equipment for sale. Hotel reservation can be made direct with the Ramada Inn by telephone (905)849-5950, toll free 1-800-357-0880, Web www.ramada-oakville.com. A special rate of Cdn\$82 per night for Radio Fest 99 is available. Further information on Radio Fest can be found at: <http://www.durhamradio.com/odxa/>; or E-mail: odxa@compuserve.com, or by mail: Ontario DX Association, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada.
- Sep'99 Contest.** **AWR Contest.** Largest QSL collections, long delays in receiving a QSL, and QSL cards from the old AWR unit in Africa. More details to follow.
- Mar 10-12, 2000 Convention.** The **13th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 10-12 March 2000.
- Mar 19-21 Contest.** **2000 North American DX Championships.** For further information you can send a self-addressed stamped envelope to 2000 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Rules will also be posted eventually at <http://www.anarc.org/>.
- Sep'00 Contest.** **AWR Contest.** Number of different QSL stamps in the listener's collection. More details to follow.

Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: rdangelo3@aol.com) or Ralph Brandi (Internet: ralph@brandi.org).

Membership Questions?

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

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 solely those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email: rdangelo3@aol.com.

Dexter Ball <BallSAFL@aol.com>

Lawrence Magne reported on the new Sony SW07 results in Monitoring Times. He said that with the active antennae, it performed about as well as the 2010 in getting distant stations. My sitting-on-the-sofa test shows the SW07 much superior to the 2010. I tuned in my Watkins Johnson 1000 to eight to ten different stations. On weak ones for the Watkins Johnson neither Sony could pick up the stations. On middle-strength stations, the SW07 picked them up and the 2010 didn't or did just barely. On strong stations the SW07 picked them up well and 2010 did so but much less well.

It could be that the conditions that day were especially suitable for listening with an active antennae. I don't know. But it appears that I won't be lugging around the 2010 anymore on my travels. I too can replace my SW1 that is a wonderful little radio.

It gives you a nice feeling seeing something that is done right and done better like the SW07.

FRENDX: Twenty Five Years Ago....

In the Shortwave Center, Neal Perdue writes about how the local power company can be a DX'ers friend. The story of the St. Helena Government Broadcasting Station—an exotic tale of DX—was covered. In Larry Yamron's QSL Report column, verifications were reported from Radio Nationale Khemre, Radio Clarin, Radio Cordac, AIR Ghauti and Ondas Quevedenas. The July 19-21 club meeting in Columbus, Ohio was getting closer. Seventy-six reporters made the Log Report possible in July. Charles Wooten was asking members to volunteer for the ANARC Frequency Recommendations Committee.

Welcome to the following new NASWA members

Walter F. Dick, Canoga Park, CA

D. C. English, El Paso, TX

Gene Gumbs, East Windsor, CT

Douglas E. Hahn, Virginia Beach, VA

James H. Hasty, Ponte Vedra Beach, FL

Rubin Jordan, Brooklyn, NY

T. Olson, Kent, WA

Antonio M. Catarino Silva, Linda A Velha,

PORTUGAL

WBCQ—The Planet, Kennebunk, ME

Easy Listening

Richard D. Cuff
327 Springhouse Road, Apt. 102
Allentown, PA 18104
Internet: rdcuff@sprintmail.com

News on Shortwave: Sameness?

Some recent contributions to the Internet shortwave programming discussion group have focused on a perceived sameness amongst broadcasters in their presentation of news. I suppose if one compared the first five minutes of Deutsche Welle, Radio Netherlands, the BBC World Service, and the Voice of America, one could make that claim. All these services take a pan-European to global approach to their broadcast-opening newscasts. However, all these broadcasters then diverge dramatically in their approaches to feature programming. There also were several comments on the seriousness of world news; even before Kosovo came onto our radar screens, it was argued, the focus on crisis and desperation, internal and international conflicts created an atmosphere of gloom that dominates many broadcasters' news and current affairs programs. One writer compared that emphasis to the murders, car crashes, and fires that dominate local television news in the USA.

I don't see things quite that negatively. One doesn't have to look very far to find broadcasters that take a much more regional or national approach to their newscasts, and that's one of the key selling features of international broadcasting, in my opinion. Here are a few examples:

- **Voice of Russia** newscasts during the recent Kosovo conflict clearly favored the Serbian side of the conflict, and brought back images of Cold War spin doctoring;
- **China Radio International** also emphasized the Serbian side of the conflict, railing against NATO actions while ignoring the anniversary of the Tiananmen Square massacre.
- **YLE Radio Finland** and **Radio Sweden** focus mostly on Nordic region news items, though YLE Radio Finland relished the Finnish role as peace negotiator in Kosovo.
- **Radio Australia** and **Radio New Zealand International** emphasize Asian and Pacific news coverage, and have the most ongoing coverage of the Indonesian political process.
- **Kol Israel** and **Radio Austria International** are two examples of international broadcasters focusing mostly on domestic perspectives in their newscasts.
- **Radio Canada International** emphasizes Canadian items in their RCI-produced programming.

By these random examples it should be clear that it isn't too difficult to find something other than a global perspective, if that's what you want in your news. Also, for many broadcasters, one can tune in after the newsmagazine for a wide variety of feature programs on many subjects, as are often documented here.

Radio New Zealand International Overview

Radio New Zealand International ("RNZI") is one of the five English-speaking countries represented on shortwave, and provides a rich mix of domestic content from New Zealand's domestic National Radio service, along with programming specifically produced for an international audience. Much like Radio Australia, covered last month, Radio New Zealand International doesn't get the coverage in this space afforded to other broadcasters because advance program information isn't widely available. Program information covering the upcoming few days is provided by John Figliozzi in the *swprograms* Internet discussion group;

I've summarized some of the more interesting program topics below, to suggest some of the diverse content available.

Sat. 0106 on 17675: *Home Grown with Liz Barry* — New Zealand music including "No Cover Charge" at 0130 featuring profiles of influential music performance venues in New Zealand.

Sat. 0510 on 11905: *Tagata o te Moana* — Pacific news, features, interviews and music giving an insight into the diverse cultures of Pacific peoples. (also broadcast Mon. 0305 on 17675)

Sun. 0033 on 17675: *Spectrum* — People, places and events in New Zealand.

Sun. 0107 on 17675: *Future Indicative* — A program of special interest to people with disabilities.

Sun. 0606 on 11905: *Once Upon a Twice* — stories, poems, puzzles, games and news for children.

Sun. 0745 on 9700: *Sunday Supplement* — Dougal Stevenson introduces comment from New Zealanders.

Sun. 0806 on 9700: *Sounds Historical with Jim Sullivan* — History and comment from New Zealand's past. (to 0930)

Sun. 2135 on 17675: *Dateline Pacific* — summarizes of the week's key issues in the South Pacific Region. Also airs Friday 1705, and is available in audio archive at the RNZI audio website, URL <http://www.audionet.co.nz/ranz.html> and World Radio Network website, URL <http://www.wrn.org/ondemand>.

Mon. 0706 on 9700: *Eureka!* — Exploring science in NZ with Allan Coukell.

Mon. 0806 on 9700: *Insight '99* — An in-depth look at a topical issue in New Zealand.

Tue.-Fri. 0408 on 17675: *In Touch with New Zealand* — including a feature interview (Tuesdays and Fridays), In the Garden (Wednesdays), Radio Art (Thursdays) at

0408 and regional reports at 0430 from various communities within New Zealand.

2115 Tue. on 17675: *Vaka Moana* — Myra Oh takes a look at people, issues, organizations, and countries that make up the Pacific region. Also airs Mondays 2035, and is available during the live RNZI webcast.

0305 Thu. on 17675: *Mailbox* — Every other week, Fijian producer Myra Oh reads letters and news of interest, Paul Ormandy reports on the latest DX news, Frequency Manager Adrian Sainsbury answers and explains technical questions and the latest solar propagation news is supplied by IPS Radio & Space Services. *Mailbox* alternates with the feature *City Life*. This program could be called RNZI's "flagship" program, and the latest version is archived in RealAudio at the RNZI audio website.

2035 Wed. on 17675: *Pacific Correspondent* — an RNZI-produced program, featuring a Pacific RNZI correspondent interview. Also airs Thursdays 2135, and also available during RNZI's live webcast, at the URL shown above.

2035 Thu. on 17675: *Trade Winds* — an RNZI-produced program, covering current issues in the South Pacific. Also airs Thursdays 1750, and is also available during RNZI's live webcast.

0305 Fri. on 17675: *Top 5* — Greg Tater presents the latest from the New Zealand music scene, also on Tuesdays at 2135 and Thursday at 1705.

Contact Information

RNZI's snail mail address: P. O. Box 123, Wellington, New Zealand; Phone: +(644)474 1437; fax: +(644)474 1433 e-mail: info@rnzi.com.

Many thanks to John Figliozzi for much of this information.

With diverse Radio National (New Zealand) and ABC (via Radio Australia) programming available via shortwave and the Internet, the great variety of these two domestic public broadcasters is increasingly apparent. While

I know there isn't a huge budget for new shortwave initiatives, perhaps we can someday convince Canada's CBC to create an all-day relay of the spoken-word **Radio One** service. True, some of the best CBC output already shows up on Radio Canada International, but there are several programs (*Ideas*, *That Time of Night*) that would generate reasonable interest from a shortwave audience. Internet audio users can already get 24-hour feeds from several **Radio One** stations, from all Canadian time zones except Central time.

Not Your Typical DX Program

I've found recent editions of the VOA's *Communications World* to be especially interesting for the guests Kim Elliott has interviewed. The interviews normally comprise the "B" segment if you're listening via the VOA, or about one third of the way through the program if you're listening via the WWCW or WBCQ rebroadcasts or via the **World Radio Network**. Recent perspectives have included updates on digital shortwave, and a very interesting interview with Graham Mytton, the retired director of audience research at the BBC World Service. The most convenient North American time for the half-hour version of *Communications World* is Sundays, 0200 UTC, on WWCW, 5070 kHz.

Merlin Network One: Not Much Left

Looks like we're out of luck here in North America, as **Merlin Network One** ("MNO") has scaled back its programming to one hour per day (1600 UTC) on 6175 kHz, which won't propagate well to North America. That's too bad, as their diverse music offerings had garnered some fans. It appears the domestic UK offerings are still available, but a note from Christopher England of Merlin Communications International stated that **Merlin Network One** on shortwave was essentially a programming research experiment Merlin carried out to determine shortwave listening patterns. Merlin will use this information in their work with clients interested in reaching specific geographical targets to help clients pick the best medium for their goals.

English From Kosovo: Radio 21

Radio Netherlands' Andy Sennitt passed along information regarding **Radio 21**, an independent Pristina webradio station currently using the facilities of **Radio Netherlands**. The service is on shortwave from 1830 to 2025 UTC on 9495 kHz, and an English language news report airs during the last 10 minutes (or so) of the program. Before the war, Radio 21 had attempted to obtain an FM license, but was rejected by the Milosevic regime. Unfortunately, a quick check of 9495 kHz in Pennsylvania finds WHRI, which uses the frequency from 1700 to 0000. Radio 21's English-language newscast is available in RealAudio at URL <http://www.radio21.net>.

BBC World Service Upcoming Highlights

Science & Technology

Wednesdays, beginning July 7th, 0430: *Climate Story* is a new four-part 30-minute series examining the effect great climatic changes have had on human history in ancient and modern times. How did the cold winters of the early 1940s affect the outcome of World War II? First airing Saturdays 2130; also airs Sundays 0730.

Sunday, July 18, 1405: *Talking Point* will commemorate the 30th anniversary of the Apollo 11 lunar landing with a NASA astronaut as the program guest. A webcam at the BBC website allows Internet users to see the activities in the studio during the program. Questions for Robin Lustig, program host, and his guest may be e-mailed to talkingpoint@bbc.co.uk or phoned on +44 171 379 7444.

Tuesdays, beginning July 13th, 0330: *Do You Believe In...?* is a new five-part 15-minute series on the paranormal, hosted by one of Britain's leading parapsychologists, Dr. Richard Wiseman, who heads a scientific research unit into the paranormal at the University of Hertfordshire. Dr. Wiseman considers himself an "open-minded skeptic". Also airs Mondays 0715 and Fridays 1515.

General Features

Tuesdays-Saturdays, 0055, with a 30-minute compilation Mondays, 0030: *My Century* highlights include:

Week of July 12th: *Boom or Bust*, five stories on international finance, including the well-known economist John Kenneth Galbraith and Herbert Rees, who was a child in Germany during the worst period of hyperinflation;

Week of July 19th: *Lost In Space*, five stories on space exploration including Arthur C. Clarke, author of *2001: A Space Odyssey* and the first to envision satellite-based communications.

Other monthly highlights (dates not available) include perspectives on the family and people considered the "last of their generation".

Wednesdays, beginning August 4, 0330: *Back From the Edge* is a six-part 15-minute weekly series of first person stories of being close to death. Barbara Myers examines how they survived and how their lives have changed. The program emphasizes the inner strength of these survivors. First airs Saturdays 1045.

Drama and the Arts

Monday, July 19th, 0130: *Meridian Feature* marks Ernest Hemingway's 100th anniversary with a special half-hour program on his life and work. Hemingway's son Patrick and granddaughter Lorian are interviewed, and his book "True at First Light", posthumously published, is discussed. Also airs Monday 1430 and 2130.

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

July 10th, *Harvest*, by Manjula Padmanabham, set in Bombay (Mumbai) in the year 2010, is a chilling vision of the future where personal relationships are increasingly meaningless and everyone is up for sale. The protagonist, Om Prakesh, has agreed to be a donor for a company who matches Third World people with rich buyers in the West who will someday need re-

placement organs. Interesting premise; this week's play runs 90 minutes.

July 17th and 24th, *A Farewell To Arms*, the Hemingway play set in World War I, based on his experiences as a Red Cross ambulance driver in Italy. Rosalynd Ward directs.

Classical Music

The 1999 *Promenade Concerts* ("The Proms") run from mid-July to mid-September. Over that period highlights of 20 concerts will air on the World Service, including the following in July:

Sunday, July 18th, 0315: Haydn's *Symphony No. 87, A Major*, and *Scena di Berenice*

Saturday, July 24th, 0300: Rachmaninov, *Spring*, and Beethoven, *Piano Concerto No. 3, C minor*

Sunday, July 25th, 0315: Haydn, "Nelson" *Mass*


Tuesday, July 27th, 0300: Einojuhani Rautavaara, *Autumn Gardens*; Mendelssohn, *Piano Concerto No. 1, G minor*

Friday, July 30th, 0315: Nielsen, *Springtime on Funen*; H. K. Gruber, *Aerial*

Wednesday, August 4th, 0300: Piers Hellawell, *Inside Story*; Elgar, *Enigma Variations*

It will be interesting to see if highlights from the 52 concerts not aired on the World Service will be available at the BBC website; I'll let you know in August.

Internet Mailing List on Short-wave Programming

As a reminder, if you are interested in advance program information that comes in too close to air dates to be used here, or are interested in two-way discussion on programming content, check out the *swprograms* E-mail reflector. You can subscribe in one of two ways: 1) Visit the website <http://www.topica.com> and search for *swprograms*; or, 2) Send a blank E-mail to swprograms-subscribe@topica.com. 

GTRK Murman QSL Verification

by James W. Young

Here is a short story of acquiring a QSL verification from GTRK Murman, with the help of many, many friends from far away places and circumstances. Some of you are not directly associated with listening to shortwave radio, let alone asking for verifications. In any case, THANKS to all!

With the up and down policy of QSLing transmitter sites of the old Soviet Union, I found, like others, that patience was the only method of acquiring what one was seeking after. The following account is of the reward that comes from an attitude of 'never-giving-up,' and using every available method plausible.

I received my first QSL from Radio Moscow in February, 1960, while I was living in Seattle, Washington. No site was mentioned on this very 'generic' QSL. The second time I sent in a reception report to Radio Moscow, it was for an unusual reception of two Russian stations on 5015 kHz at 0530 Z, late in November, 1965. Much to my surprise, I received a QSL in one month with two sites verified; both Arkhangelsk and Vladivostok! Both these sites were in sunlight at the time, however there were very unusual propagation circumstances that evening. It was this QSL that sparked my interest in acquiring transmitter sites with Radio Moscow transmissions. They weren't forthcoming until the early 70's, at least not for me.

It was in this time period that I became intensely interested in tropical band DXing, and the study of propagation around the sunrise/sunset terminator (grey-line DXing). A Russian station on 5930 kHz (along with many other low band frequencies) was used

in my new interest. Since the early 1970's, issues of the WRTVH listed this as Arkhangelsk...the site I had earlier verified on 5015. Most DXers were well aware that the actual transmitter sites were not reliably correct from the Soviet Union back in those days. A propagation study might yield more and better information on Russian transmitter sites, I thought.

In the 1973 WRTVH, the station listed on 5930 changed to Murmansk, and after a reasonable reception, I sent a report to Radio Moscow. This was the first of many, many attempts at verifying Murmansk. I knew I wasn't alone...and I am sure there were many other frustrated DXers; frustrated by this no/yes-yes/no site verification policy. First, it was 'no' because it was not a foreign broadcast transmission that was intended for North America. Then it was, "we cannot verify domestic service broadcasts." Back and forth I went with the staff at Radio Moscow. "How could you verify Vladivostok and Arkhangelsk?" was my query, supported by xerox copies of the QSL I had received a few years back. I never received any kind of response to that kind of specific question. It was always avoided in following correspondences from them. This went back and forth for many years. Frustrated enough, I turned my attention to the rare Island of Zanzibar, but that is another story.

My best reception of Murmansk happened on March 8, 1997, so I once again turned my attention to getting a QSL. I had by then received many site verification of nearly all the Soviet Republics, so I was encouraged. The reception was taped, and included the complete interval signal, a full Russian ID and program details...far better than I had before. My reception report was met by the

same remarks, "sorry but we cannot verify any domestic service broadcasts." So I sent off a report in Russian to Murmansk directly (the first time). By now it was 1982. I was getting nowhere with Zanzibar, as I had been 8 years with Omar M. Omar sending me notes telling me to wait "indefinitely."

In 1986, I sent what is commonly called a 'care' package to Radio Murmansk through a Russian ham radio operator. It had a cassette tape copy of my 1977 reception, pictures of my station set-up, many Russian stamps and IRC's, a US \$5 bill, an SASE, pre-made QSL card, and both English and Russian reception reports. I included several color photographs taken at the observatory I work at. I was really hoping to get their attention, and confident it would be fruitful. I was correct about getting attention, but probably not from the officials at Radio Murmansk! Two and a half years later, I received the tattered remains of the front of the envelope I had sent. There was some kind of Russian metal postal clip, Russian writings and stains of all sorts. I'm sure it was pilfered, nothing more or less. I went back to my interest in Zanzibar and after a direct (and expensive) phone call in late 1984, I received my pre-made Zanzibar QSL the next year!

Another DXer, Mike Hardester, sent me a copy of a letter from Radio Moscow he received in 1982. Although the letter doesn't state an actual site, it was a confirmation nonetheless! I made several more attempts through Radio Moscow and direct through the late 1980's and early 1990's, without any success. Soon, I fell away from my SWBC DXing interest with QSLing, as my increased work requirements at JPL took more and more of my time. I also had a greater interest in amateur radio, so Murmansk became less of a challenge, although I was soon chasing Port Blair, Andaman Islands.

My wife and I got on the internet in the spring of 1996, and soon discovered the growing web sites related to SWBC and QSLing. It sparked my interest once again, and I got back into serious listening, and concentrated

on Port Blair which finally verified the following year. I stumbled upon the "Irkutsk Radio Club" and Mr. Feodor Brazhnikov in late 1998. Through his help and efforts, I got a QSL verification of a local broadcast from Irkutsk (Angarsk) for Radio Rossii on 7440 kHz. I eventually brought up my interest in Radio Murmansk, and he pointed me to Mr. Pavel Mikhaylov, a commentator of a leading program for radio amateurs in Moscow, called "Club DX," all by e-mail. I finally found an e-mail address for Radio Murmansk through that connection and had Pavel make an inquiry in Russian direct to the station. His plea went unanswered...but I was ready for that. He continued to send requests, but without a single response! All the time I am checking more and more Web sites looking for QSL's that have been received by various DXers around the world. The German version (which is in English) of the Swedish Report Service (SRS) is at "<http://www.swl.net/swl-de/swl-qs1.htm>" and lists recently acquired QSL cards from all kinds of world radio stations (the site is maintained by Martin Schoechi). Surfing this site, I found a listing of a direct QSL verification from Radio Murmansk by a gentleman in South Africa, Mr. Vashek Korinek. Mr. Korinek got a QSL via e-mail from the station chairman, Mr. D. Perederiy. In the SRS listing, the e-mail address was inadvertently misquoted as I got a return e-mail indicating 'undeliverable' when I attempted to contact Mr. Perederiy myself. I then contacted Mr. Korinek, and got the corrected e-mail address, but still I received no response. At the same time, Pavel in Moscow was still attempting to contact the station.

The English text of Pavel's 'plea' to Murmansk is as follows:

ADMINISTRTION OF GOVERNMENT -
TELE - RADIO COMPANY "MURMAN"

Dear Colleagues:

The editorial staff of the world Russian service of the Russian governmental international broadcasting radio company "Voice of Russia" has received a letter from radio ama-

teur James Young (e-mail <w7ft@qsl.net>) from the USA, directing his request for help in obtaining a verification report of his reception of Murmansk regional radio (reception report included), directed to your address in March, 1977.

FOR YOUR INFORMATION: Mr. J. Young (like many other amateurs of distant reception) tried in vain to get a verification from your radio station for 22 (!!!) years.

From our side, Radio Company "Voice of Russia" supports the legitimate request of the American listener and requests that you send to his e-mail address, the corresponding verification. We very much hope that GTRK "Murman" will find it possible to satisfy the rightful requests of foreign radio amateurs and bring to an end the negative perception of Murmansk Radio as a station groundlessly ignoring for many years listeners' reception reports.

The text of the report in Russian and English follows below.

With the best of wishes

Pavel Mikhailov
19 January 1999
Moscow

Commentator of leading program for radio amateurs "Club DX"

I was now really wondering if Murmansk was ever to be in my verified column! Then it hit me like a ton of bricks! As an astronomer, I have a colleague in St. Petersburg at the Institute of Applied Astronomy of the Russian Academy of Sciences. In fact, Dr. Viktor A. Shor had visited me at Table Mountain Observatory back in 1991 when he attended a conference in California. Having his e-mail address, I dropped him a line requesting assistance on a non-business matter. He was very gracious and offered to do whatever I requested. I then sent an extensive e-mail message explaining my very long standing attempt at confirming a radio station in Murmansk, and requested his Russian language assistance. He e-mailed them using a more current address, explained that he had

a friend in the States that wanted help. Dr. Shor received an immediate reply in the positive, and e-mailed me back. I then sent Dr. Shore, via snail mail, a pre-made bilingual color QSL verification card, reception reports in Russian and English, and enough Russian postage stamps for all the necessary exchanges.

The English text of the reception report follows:

Radio Murmansk was heard on March 8, 1977, on a frequency of 5930 kHz in the 49 meter band from 0511 to 0520 GMT, or 0811 to 0820 Murmansk time. The SINPO was 43333. Program details are as follows: Female announcer at 0511-0514 GMT in Russian. A male announcer, then a pause for one full minute. The Murmansk Radio four note distinctive interval signal was played twice followed by "Govorit Murmansk" by a male announcer. He gave the time as 8 hours 15 minutes, then said, "Good Morning, Comrades." Shortly after a commentary followed about the forming of the 'International Women's Day Organization.'

Once Dr. Shore received my package, he forwarded the reception reports, pre-made QSL card and appropriate stamps to Murmansk, along with a cover letter explaining in detail what was wanted in return. In a few short weeks, Dr. Shor received the QSL card signed and stamped by the 'Chairman,' Mr. Perederiy, and e-mailed me that fact. I had Dr. Shor scan the QSL card to his computer, and then he sent the card directly to me. I received the QSL in the regular mail on May 10, 1999, some 22 years after the March 8, 1977, reception was logged.

On the card itself, the top line translated is GTRK Murman, or "Gorodskoj Tele-Radio Komitet" which is the "Municipal (or Government) TV-Radio Committee." The next line is the address, "RTV Center, sops Varnichnaya, 183042 Murmansk, Murmanskaya oblast, Russia." Next, the text gives the Russian and English versions of the confirmation statement. The transmitter power and site are given only in English. The

station stamp is translated as follows: The bottom clock-wise outer text circle states, "Federal Service of Russia for Television and Radio Broadcasting." The inner circle states, "Regional Government Tele-Radio Broadcasting Company Murman." The signature is followed by the Russian spelling of the name with the last handwritten words interpreted as "CEO-Chairman GTRK Murman."

ГТРК МУРМАН

Р/та Центр, совхоз "Мурманская", 183042 Мурманск
Мурманская область, Россия

QSL VERIFICATION QSL CARD QSL

Подтверждение о приёме

Настоящим подтверждается, что Джеймс Юнг
принимал передачу Мурманского Радио от
8 Марта 1977 года в 05:11 GMT на частоте
5930 кГц.

Dear James W. Young, we herewith confirm that on March 8, 1977
at 0511 hours UTC you received a broadcast of Radio Murmansk
on a frequency of 5930 kHz. Transmitter (50 Kw) site at Monchegorsk.



(stamp / печать)



(signature / ДОЛЖНОСТЬ И ПОДПИСЬ)
ПРЕДСЕДИТЕЛЬ ГТРК МУРМАН

Never having kept absolute records of all letters, I can only guess there were more than a dozen follow-up letters addressed to Murmansk, and a dozen or so specific to Murmansk directed to Radio Moscow. No one ever knows if letters arrive at their intended destinations, or are lost in transit (going to or coming back). In this case, utilizing the aid of a personal friend in Russia was the real key to this successful story. In the case of my Zanzibar QSL, the telephone call so astounded the woman, she probably

thought a reply was absolutely necessary to her own well-being with Allah himself.

Now I will concentrate on RRI Denpasar, Bali, 3945 kHz, 1993; Abkhazia, Abkhazia, 9490 kHz, 1999; Beacon, Anguilla, 6090 kHz, 1998; Gantok, Sikkim, 3390 kHz, 1999; Panaji, Goa, 7250 kHz, 1998; and Lubumbashi, Katanga, 4754 kHz, 1988.

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Guatemala: R. Buenas Nuevas

by Marlin A. Field

The following was received from R. Buenas Nuevas, 4800 kHz. In 1998, the station received \$13,169.00 for its operation. Of this 72% came from Mam Churches; 4% from

Spanish Churches which have TGMI on their Mission Budget; 7% from other groups; and 15% from CAM International. Radio Buenas Nuevas is one of the three stations CAM International operates in Guatemala.

An Early History of NASWA

Originally compiled by Don Jensen

Edited by Richard A. D'Angelo

Shortly after retirement, Don Jensen began cleaning out his files. One item he sent to me (RAD) was his notes concerning the early history of the Club from March 1962 through September 1965. I've done my best to go through those notes to capture the essential information for club historians. The best way to begin is with some words from Don: "I joined NASWA in the summer of 1963. Data prior to that is based simply on information in bulletins which I have acquired; after that, from a combination of bulletin data and my memory." Don and I encourage any other long-standing member to feel free to contribute to building our historical base of knowl-

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**In my mind,
Bill Eddings
was probably the
key individual
in the club's history.
He took a struggling club
and gave it
stability.**
.....

edge about our club's early days. During the early years, it was not uncommon for bulletins to be incorrectly numbered. Many of Don's bulletins from this era were not numbered correctly. We think Don's collection begins with the fourth bulletin published, but you can never really be sure. Anyone out there have issues 1 through 3? Sometimes a numbering problem would be perpetuated for many months before being corrected. Also, missed bulletins were a fairly common occurrence in the hobby during this period. Small club treasuries and antiquated, manual printing methods squeezed clubs. NASA, as it was known in the days before the space

agency, was not immune to the problems of all the struggling clubs of that era. The following is a month-by-month chronology of this 3-plus year period in club history. To the best of my knowledge, this information has not been previously published.

Vol. 1, No. 4 (March 1, 1962), my first NASA bulletin, was printed in purple ink (ditto) prior to mimeograph machines. The bulletin had no name. Frendx was chosen later. The masthead was printed and showed the crossed out name of the original president, Sterling Pike who lived in Newfoundland, Canada. Richard D. Roll of Hamburg, NY, was listed as the Secretary/Treasurer, although he had just become president. The club had an every-other-month bulletin, which would make September 1961, Vol. 1, No. 1. However, in September, 1962, Roll editorialized that the club was celebrating its 2nd birthday (Don believes he meant the club was starting its second year as there is nothing to indicate the founding was as early as September 1960). Also, Roll indicated the first bulletin was only one page. The shortwave section editor was Raymond LaPointe of South Boston, MA, and the BCB editor was Bob McAfee of Quincy, MA.

Vol. 1, No. 5 was dated May 1, 1962. John T. Arthur of Endicott, NY, was named the new BCB editor and Bill Eddings of Altoona, PA, was named the Tape/Card Swap editor. The membership list showed 44 members including #1 Pike, #2 LaPointe, #3 Stanley Mucha, #4 Colin Moody, #5 Roll, #6 Curt Webber, #7 Jack Kocak, #8 Tom Fincher, #9 Dorsey Wood, #10 Ralph Kerstein, #16 George Cox, #22 Eddings, #33 Arthur. Eddings column was sub-headed "Friendship Corner," which was the first reference to the theme, which would dominate his hobby interests, and become the slogan "Unity and Friendship."

Vol. 1, No. 6, July 1962, contains a Ham Band column introduced with Gary Rolinson of Beaver Falls, PA, as its editor. Richard Orcutt replaced LaPointe as SWBC editor. NASA's first award program was announced,

in five categories, for 50 SWBC QSLs, 50 ham QSLs, 50 card swaps, 50 medium wave station QSLs, and 50 CB station QSLs. The club now had 57 members, including #51 Doug Benson and #55 Orcutt. The bulletin contained the first of many lectures of friendship by Bill Eddings.

Vol. 2, No. 1, September 1, 1962, the bulletin goes from bi-monthly to monthly and is 18 pages. The club switched from "ditto" to mimeo printing. Membership was up to 69 members, including #58 William Hutchinson, #59 Don Erickson, #63 David Alessi, and #67 Ron Luyster. Dues in the US and Canada were raised to \$2.50 a year. Luyster took over from Roll the compilation of the NASA Newsroom column featuring newspaper clippings. It would eventually lead to the establishment of the Shortwave Center column.

Vol. 2, No. 2, October 1, 1962: Membership was at 75 including #71 Larry Marshall and #75 Detlef Schuler of Germany, the first foreign member.

Vol. 2, No. 3, November 1, 1962: Fifteen year old high school sophomore Bill Zielinski of Lancaster, NY, was named NASA's first Technical editor. The column was called "Tech Trails." membership stood at 78.

Vol. 2, No. 4, December 1, 1962: Membership now stood at 88. Lavoyd Kuney, #85, became the Ham Band editor, replacing Rolinson. Eddings wrote his first folksy Christmas message. The bulletin was 26 pages.

Vol. 2, No. 5, January, 1963: The slogan "Unity and Friendship" was used for the first time. The writing style of the headquarters column suggests Eddings had a role in writing it. The first NASA symbol rubber stamp was unveiled; it was offered to members for \$1.70. Steve Raiche was added as assistant BCB editor while Dick Derickson was added as assistant Newsroom editor. Membership reached 92.

Vol. 2, No. 6, February, 1963: Eddings' Tape/Card Swap column was remained the Friendship Corner. The Unity and Friendship slogan was more prominently featured. Mem-

bership climbed to 103. The separate mailing rate for foreign members was established at \$3.50 over the \$2.50 domestic rate.

Vol. 2, No. 7, March, 1963: Warren Anderson (Card Swap) and Dave Alessi (Tape exchange) take over Eddings' Friendship Corner column. Eddings' writing style, particularly his use of the "/" slash" (as in "Why not be an active supporter/reporter of the clubs to which you belong?) is apparent in the entire Headquarters column. Roll was still listed as president and HQ still in Hamburg, NY, but clearly his role in the club had been greatly diminished.

Vol. 2, No. 9, June, 1963: The bulletin becomes "Frendx" as a result of a name-the-bulletin contest won by member Bill Harris, from among 43 contest entries. In explaining his entry, Harris said: "We of NASA, via our bulletin, we are efforting to promote friendship and at the same time pass along our reports, experiences, items, articles pertaining to DX; therefore FREN with DX added incorporates both friendship and DX." Eddings becomes the Executive Editor with Roll listed as the bulletin publisher/printer. Robert Newhart, a GI serving in Germany becomes the SWBC editor. Nick Vrettos was named editor of a new column "Space World." Membership stood at 144.

Vol. 2, No. 10, September 1, 1963: Serious problems struck NASA with no bulletins issued in July or August. Roll resigned in July as publisher. Eddings took over as editor/publisher, but had no access to a mimeo machine. Don Erickson volunteers to serve as printer, and does so for two issues. A fund drive was launched to buy the club a new mimeo machine of its own. Membership was at 161, including #159 Don Jensen.

Vol. 2, No. 11, October 1963: The mimeo fund grows slowly. The club gets publicity in Popular Electronics and Electronics Illustrated.

Vol. 2, No. 12, November 1963: NASA gets its own mimeo for \$69.39, which was paid for by donations. Eddings will turn the crank of the cheap hand-operated machine thousands and thousands of times in the coming

years. He would estimate that club work would take 40 hours a week of his time. Membership was up to 169. Dick Few of Rockville, MD, was named Ham editor.

Vol. 2, No. 12, December 1963-January 1964: The early years were filled with incorrectly numbered issues. Newhart resigned as SWBC editor, Few resigned as Ham editor. Richard Little (Ham) and Larry Marshall (Card Swap) became editors. Membership now was 175.

Vol. 3, No. 1, February 1964: Eddings and NASA move from old address of 1521 5th Avenue, Altoona, down the block to 1505 5th Avenue, where he would live the rest of his life. Elections for a 3-member board of directors was announced with 20 candidates nominated. Foreign membership rates increased to \$4.50 while domestic remained at \$2.50.

Vol. 3, No. 2, March 1964: Domestic dues were raised to \$3.00 per year.

Vol. 3, No. 3, April 1964: Another crisis hits NASA with a slim 10 page issue with only HQ, Newsroom, and Space columns included. The editorial by Eddings pleads for reports and support.

June 1964: Eddings ceased the volume/issue numbers, which was a good idea since they were usually wrong. NASA has turned the corner. The bulletin looks crisp and sharp, seemingly settled into the basic mimeo format and look which the club would retain until it went offset years later. Elected to the board of directors: Lavoyd Kuney, John T. Arthur, and Don Jensen. NASA became a member of the newly formed Association of North American Radio Clubs (ANARC). Editorial staff included Doug Benson, Joseph Fela, Jr., Richard Little, Alan Herrington, Ron Lyster, Larry Marshall, Paul Gough, and Nick Vrettos.

July 1964-December 1964: Bill Sparks, Gerry Dexter, and August Balbi become members during this period. Vrettos resigns as editor and the Space column disappears from FRENDEX forever. The club grew by around 12 members a month.

January 1965: The Shortwave Center column first appears, as a split off from the original Newsroom column, which eventually would become Listeners Notebook in later years. Arthur and Kuney leave the club and board of directors. Louis A. Stober was appointed to one of the board vacancies.

February 1965: William Strait was named to the other board of director's vacancies. Key FRENDEX editors remain Benson, Fela, Little, and Marshall. Eddings first discusses the possibility of going to an all-SWBC format, but promises it won't happen unless members approve.

March 1965: The board of directors was drafting a NASA constitution. In a slim referendum a few months later, it is ratified, and promptly forgotten.

As you can see, the early history of the club mirrored the "wild west" days in the United States. Club bulletin publishing was an adventure filled with trials and tribulations that only the brave could withstand. Nevertheless, there was a core of hearty volunteers that blazed the trail during this difficult time period.

In my mind, Bill Eddings was probably the key individual in the club's history. He took a struggling club and gave it stability. He promoted friendship in the hobby like nobody else. Our slogan, "Unity and Friendship," still stands after all these years. These were the formative years prior to the club becoming all shortwave broadcasting in August 1966. In 1972, the club went to offset printing.

NASWA for the 90s saw the FRENDEX name retired (was history ignored during this re-engineering effort?) in favor of the current name, The Journal. As the decade draws to a close, the club rapidly approaches its 40th birthday. We think that celebration will be in September 2001, but who knows what history will be uncovered between now and then. That's a wrap on the early history of NASWA back in the days when the club was simply known as NASA.



Listener's Library

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

Well here we are again. I'm writing this month's installment in June and I'm in the middle of that great life passage of "Number One Son's" high school graduation. Funny how he got his HS diploma the same day that the first bill for college hit the mailbox. Anyway, reading/reviewing time was at an all time premium but I did manage to get a good look at a few books of interest.

AM Broadcast Antenna Systems:

A Basic Guide

by Patrick M. Griffith N0NNK

65 pages

Morris Publishing

Kearny, NE

ISBN: 0-7392-0085-2

Direct sale offer by the author

\$12 plus \$3 shipping and handling to:

Patrick M. Griffith

PO Box 211374

Dept. AM

Denver, CO 80221

As many of you know, my radio hobby interests run rather eclectic. Periodic Sunday night insomnia lends itself well to AM Broadcast Band DXing. But even if you don't spend late night hours trying to pull in standard broadcast band signals that were never meant for your ears, you may still have an interest in this book. If you have done any traveling more than a few miles from home, you have no doubt seen any number of radio broadcast transmitting towers. Just what are those antennas designed to do? Are they more than a substantially larger version of the whip antenna attached to your car? Well Patrick Griffith has come along with a book to make this topic understandable to any radio hobbyist. Up until now, the only books I have seen available on this subject were advanced engineering texts beyond the scope (and wallet) of most radio hobbyists.

The book begins with a brief study of propa-

gation as it relates to the needs of AM broadcasters. This is followed by an explanation of the various classes of AM stations and the F.C.C. rules that govern their operation. This is followed by a discussion of past and current AM antenna design, centering on the more common guyed and self supporting vertical structures used by stations around the country. This section, as well as many others, includes excellent, black and white photographs of station tower sites around the United States. The topic of how these antennas are fed is covered in great detail. These folks just don't run down to the local Radio Shack for a roll of RG-58!!! Once the reader gets a handle on basic vertical antennas, the book goes on to discuss the various directional antenna arrays that are used to keep a station in compliance with its F.C.C. license and get its signal to its target audience. The book goes on to discuss some more recent developments in broadcasting such as multiplexing more than one station's signal through a single antenna or array. The book's appendix includes an number of interesting Internet sites that are useful to any radio hobbyist. If you want to resolve any curiosity you may have about those antennas you pass on the highway, give Patrick's book a look.

Back when I was getting started in the hobby, publications such as Popular Electronics and Electronics Illustrated routinely published collections of circuits that appeared in their magazines. These books were great fun and excellent excuses for heading down into the basement and warming up a soldering iron. Well the number of magazines that support hobby level construction has dwindled somewhat over the years but it is neat to find that there are still, occasionally, books published that support good old fashioned "home-brewing" of electronics devices. I recently found one of these books and would like to share it with you.

Simple Low-Cost Electronics Projects

by Fred Blechman

224 Pages

\$19.95

ISBN: 1-878707-46-9

LLH Technology Publishing

3578 Old Rail Road

Eagle Rock, VA 24085

1 (800) 247-6553

www.LLH-Publishing.com

This is a fun book. In its pages you will find 22 electronics projects, all of which can be built with "off the shelf" parts from local electronics supply houses or from a well stocked "junk box". In most cases the Radio Shack, Mouser, or C&S part numbers are included to facilitate parts gathering. Many of these circuits would make great learning opportunities for young people starting out in the radio hobby. The book, in many ways, takes me back to those publications of my youth. Circuits I had built "way back when" are done with much more modern componentry. There are a number of telephone circuits including a hold button and a remote ringer. A more practical telephone line analyzer design is there too for those of you who don't have their own lineman's handset. There are also a number of siren circuits that are fun for experimenting as well as a nice variable frequency audio oscillator. In amongst the many gadgets are a number of nice, easy to build, test equipment designs that would be a great addition to any workbench. I'm gathering the parts for the "function generator" to add to my own workbench. Several of the more complex circuits in the book include printed circuit patterns to facilitate construction. Several of the circuits in the book are available as kits and complete ordering information can be found where needed.

The appendices include information on parts sources and substitution. The last section of the book is entitled Fred's Funnies, a collection of very funny stories that appeal to the humor of electronics hobbyists. If you haven't had an excuse to build anything for your home or radio shack in a while, this book could get you back in the workshop.

Now if you have a desire to really dig into what makes your receivers (or even transmitters) tick, there is a book that is as close to mandatory reading as any I can think of.

Solid State Design for the Radio Amateur

By Wes Hayward W7ZOI & Doug

DeMaw W1FB

256 pages

\$15.00

ISBN 0-87259-040-2

The American Radio Relay League

225 Main Street

Newington, CT 06111

1 (888) 277-5289

Since its publication, *Solid State Design for the Radio Amateur* has sold well over 50,000 copies, and for good reason. Wes Hayward and the late Doug DeMaw created one of the greatest single volumes on the subject of basic radio theory ever printed. This book is written for the person with more than a passing interest in what is going on behind the dials of their receiver or transmitter. You can quite literally take this book and construct any number of receiver or transmitter circuits and accessories. But far beyond any basic construction project design that may give the reader a few lines about how the circuit works. Wes and Doug teach you the theory and then take you through the circuit to illustrate the various topics they cover. One of the great secrets that Hayward and Demaw share with the reader is that it is very possible to build receiver and transmitter circuits that can rival and even outperform much of the commercial gear on the market. Even if melting solder is not your cup of tea, reading this book and studying the circuits will allow you to make much more informed decisions when you go shopping for radio equipment. The book begins with a study of general semiconductor theory as it relates to RF design. This is followed by chapters covering transmitters, amplifiers and matching networks, receivers, and modulation methods. Also included are sections on test equipment and accessories. The more advanced mathematical theories are covered in detail in the appendices. This is truly a book that belongs on every serious radio hobbyists shelf.



Propagation Dilemma

I recently heard from Steve Martin, a NASWA member in Northern California. He wondered why long path propagation to Africa was not as good this past winter as it was in previous years. This month I will explore his observation, try to explain why this happened, and show why it will get worse before it gets better.

"Long path" from California to Africa is defined as the morning path, around sun up California time. The path roughly follows the grayline boundary (astronomers call it the "terminator") between the daylight and dark sides of the earth. DXers have long known that short-wave radio signals propagate efficiently along this path. The same phenomenon permits weak Indonesian stations to be heard in the eastern half of the North American continent during the early morning hours.

The grayline effect is most pronounced on the tropical bands. Stations in the 3.2-3.4 (90 meter), 4.7-5.1 (60 meter), and 5.8-6.2 MHz (49 meter) frequency bands can often be heard on the opposite side of the world only when the sun is rising or setting at the receiver or transmitter sites. The phenomenon works best when both the receiver and transmitter are on or near the dark/light terminator line.

There are a couple of good explanations for this effect. I have devoted whole articles to these causes in the past but will review them here for newcomers. Both are likely at work in varying degrees on any grayline path.

When the sun rises in the morning, its rays first hit the upper layers of the ionosphere. The upper layers become ionized and their

ability to refract radio waves back to earth is enhanced. As the earth rotates a little further, lower layers of the ionosphere become ionized. During this time it is possible for radio waves to bounce between these layers without ever reaching the ground. A duct may be formed which can propagate the signal for great distances with less than normal loss.

There is also another method by which signals can propagate with low loss to the other side of the world. Remember the solar wind? This is a stream of particles flowing out through space from the sun. These particles collide with the atoms that make up the ionosphere on the daylight side of the earth. These collisions serve to depress the height of the ionosphere on the daylight side. The F layer of the ionosphere may be depressed to 50% of its nighttime height because of the solar wind. The transition region between the daytime and nighttime height results in an ionosphere that is tilted to the earth's surface.

A tilted ionosphere can act like the reflector of a flashlight. In three dimensions it forms a tilted ring around the earth following the twilight band. The tilt is in a direction to cause radio waves to be directed to the dark side of the earth.

Many African and South American stations use short-wave frequencies to cover their territory with a minimum number of transmitters. These stations beam most of their energy straight up in order to provide maximum signal strength within the country. If the ionosphere above the station is tilted, the waves that normally would return to earth near the transmitter site are instead sent off

on a line that is more or less perpendicular to the terminator in the direction of darkness. The path can graze the nighttime ionosphere and never reflect back to the earth until the wave encounters the tilted ionosphere on the other side of the earth. Here the wave will be reflected back to the earth. Because the geometry is correct only for a short time each day, a good path only exists for a few minutes. The path is quite predictable, however, and repeats each day with signal maxima occurring within a few minutes of the previous day on any particular path.

In many cases both modes operate together causing slow fades on the received signal as the signal phasing shifts with time.

A key point to remember is that as the sun rises, its rays begin to impinge upon the lower layers of the ionosphere. The lowest defined layer is the D-layer. When the sun's energy hits this layer it begins to absorb radio signals instead of refracting them. The effect is most pronounced at lower frequencies. That is why standard AM broadcast signals on medium wave frequencies 540-1700 kHz do not propagate well during the daylight hours. The same thing happens in the lower short-wave frequency bands. Because the effect diminishes with increasing frequency, signals from tropical band broadcasters will be absorbed in the daytime before they can be reflected by the higher layers of the ionosphere.

That still does not explain why last winter did not duplicate the signal strength observations of previous winters. The geometry repeats every year so changes in geometry are not likely the cause. The clue lies in what has been happening to the sun over the past couple of years and the geometry of the California/Africa path at the time of sunrise in California.

The sun is gradually becoming more active as the 11 year solar cycle progresses. The sun is putting out more energy now than it did a few years ago. The lowest D-layer of the


ionosphere is ionizing more quickly and becoming more intense. The higher the D-layer ionization, the more the absorption loss will be.

A check of the sunrise terminator line during the California winter showed that at the same time, the sunset terminator on the other side of the earth was cutting through the horn of Africa. That is the region on the most easterly part of the continent near Somalia and Ethiopia. Most of Africa was still enjoying the late afternoon sun. In previous years, these sunlit areas had a weaker level of D-layer ionization. The tropical band signals were not absorbed to the extent they are now. Signals were more efficiently propagated up to the critical region of the ionosphere which is responsible for grayline propagation. Not only was the absorption greater at the African end of the circuit, but also at the California end shortly after sunrise.

When the solar energy output is less, the D-layer ionization and absorption are lower. So it is likely that grayline propagation in the tropical bands will continue to worsen until this solar cycle peaks in the next year or two. Then the process will reverse.

The answer would possibly be for broadcasters to move to higher frequencies as ionization levels rise. You will find lower noise levels there and worldwide daylight propagation. Unfortunately, tropical broadcasters cannot change frequencies readily. The high angle, upward-directed radiation patterns tend to pass through the upper layers of the ionosphere and are lost to space as the frequency is raised.

So it is likely that you will not see good grayline tropical band propagation again until the solar cycle declines for a year or two.

If you have questions send them in. I will try to answer you and if your question is of general interest, I will share it and the answer with other NASWA members. Until next time, stay tuned. 

Listener's Notebook

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AFGHANISTAN *Takhar Radio* broadcasts in support of the anti-Taliban Northern Alliance led by Ahmad Shah Masud.

0130-0245 Dari/Pashto 7070v 7085-alt
1300-1415 Dari/Pashto 7070v 7085-alt
(BBCM)

ALGERIA *Radio Algiers* complete sked:

0200-2200	French	11750
0300-0500	Arabic	7245 11750
0500-0800	Tamazight	7245
0800-1500	Arabic	7245
1400-1500	French	15160
1500-1600	French	11715 15160
1500-1800	Tamazight	7245
1600-1700	English	11715 15160
1700-1800	Spanish	11715 15160
1800-2100	French	11715 15160
1800-2200	Arabic	7245
2100-2200	French	11715

(5-Jun/Conexion Digital/Rev. of Int'l. Broadcasting/Hauser-OK)

ANTARCTICA 15476 khz, *LRA36 Radio Nacional Arcangel San Gabriel*, 15476, currently scheduled 1800-2030 Mo-Sa, and on Sundays it relays soccer events in connection with LRA1 Radio Nacional Buenos Aires, with its own ID's during halftime. (Barra-ARG)

BELGIUM Frequency changes for *Radio Vlaanderen International*:

0600-0700	???	13740 (ex-13745) Wavre
1000-1056	Dutch	21630 (ex-21505) Wavre
1300-1600	Sports	13740 (ex-13745) Wavre
1600-1630	???	13740 (ex-13745) Wavre
1730-1800	English	13685 (ex-13670) via Jülich
1800-1900	Dutch	13685 (ex-13670) via Jülich

(Brems-BEL/Bueschel-GER/Rev. of Int'l. Broadcasting/Hauser-OK)

BOLIVIA 3493.4v R. Em. *Padilla* 0016 Tentatively this one with talk in Spanish alternating with disco rhythms every 2-3 minutes. Announcement at 0031 may have included "Alfonso Padilla," but the tape was inconclusive. Audio sounded like mistuned SSB on the upper sideband and nothing, or almost nothing,

on the lower. Drifted continually upwards to 3493.7 by 0038. (2-Jun/Hill-MA)

BRASIL News about Brazilian stations:

2460.0 *Radio Alvorada*, Rio Branco AC, sked in Tropical Band: 0900-1400 and 2200-0300 UTC, new address: Av. Ceara, 2150 69900-460 Rio Branco AC

2470.0 *Radio Cacique*, Sorocaba SP, inactive (probably definitive)

4935.0 *Radio Voz do Coracao Imaculado* (Ex Radio Carajas) Anapolis GO, transmitting 24hs. Radio Voz do Coracao Imaculado Caixa Postal 354 75001-970—Anapolis GO

4956.2v *Radio Cultura*, Campos RJ, relaying Radio Record (Campos RJ // 1070 kHz), 0300-0700 and 1200-1400 UTC, with cults of the Igreja Universal do Reino de Deus. (Bertoldi/OTH Brasil/DX Clube Paulista/Rev. of Int'l. Broadcasting/Hauser-OK)

CENTRAL AFRICAN REPUBLIC *Radio MINURCA* is broadcasting from the Central African Republic on shortwave (and FM in the Bangui area). We've been having trouble with our transmitters. Earlier this week we started sending out a signal on 9900kHz (500w) from Bangui, in addition to signals on 9500 and 5900kHz, using a low-power HF transmitter.

Although programs are targeted to the Central African Republic, I'd like to know where (if anywhere) apart from here, we're being picked up.

If all goes well, the 500w tx will be boosted to 1kw in a couple of weeks. Hopefully the one kw tx will grow into a 20kw piece of equipment in the next month or two, in preparation for presidential elections tentatively scheduled for September.

Reception reports will be confirmed with a QSL card.

David Smith Radio MINURCA B.P. 2732 Bangui, Centrafrique smith2.unep@un.org
(3-Jun/Lessard, DEVMEDIA/Moore-IA/Rev. of International Broadcasting/Hauser-OK)

CHINA 9655 *CPBS-1* 2248 New freq with man and woman in Chinese // 10260. (8-Jun/Hill-MA)

15165 *CRI* *1030 New freq for Khmer // 9440 (poor); good at s/on but hammered after 1100 by REE/15170 slop. IS from co-channel KTWR heard weakly underneath at 1057 (they're sked *1100 in Indo). (3-Jun/Hill-MA)

CLANDESTINE—AFRICA *Voice of Democratic Eritrea, Voice of Truth*, Voice of the Eritrean Islamic Jihad Movement has moved from 9230 to 8020. Voice of Democratic Eritrea on from 1428-1458, Voice of Truth from 1500-1530. (16-Jun/Vaghjee-MAU/Rev. of Int'l. Broadcasting/Hauser-OK)

Voice of Oromo Liberation

1700-1800 Oromo / 15715-Germany Su/Th/Fr Amhar.

also has archive Real audio available—http://www.visafric.com/Dimtsi_hafash.htm (BBCM)

CLANDESTINE—ASIA 15695 *R. Free Asia* *0100-0200* New freq for Tibetan; announces "RFA Channel 4" at s/off. Muffled, distorted audio; quite strong with polar flutter. Site said to be Dushanbe. (12-Jun/Hill-MA)

Voice of the Tigers has been on for a few months, 7460 at 0100-0230, 7382 at 1400-1530, all Tamil and unjammed. Probably 1-2 kW located in the north of the country. (Goonetilleke-SRI/UADX/RNMN/BC-DX/Rev. of Int'l. Broadcasting/Hauser-OK)

CLANDESTINE—SOUTH AMERICA On May 20, RCN and Caracol networks, and the daily "El Tiempo" newspaper, quoted a Colombian army press release saying that the army had busted an ELN "communications center," including transmitter, studio equipment, tapes, coax cable, antenna wire and batteries, in the vicinity of the little town of Santa Ana, located in a mountainous area of northwestern Antioquia Department, in an area controlled during the past 15 years by the Carlos Alirio Buitrago guerilla front, which, in mid-May, was forced to disperse following an army onslaught. One day later, Agence France Presse, in another cable, identified the transmitter site as that of *R. Patria Libre*, the ELN radio station which was set up by the Spanish priest Manuel Perez, who was the organization's leader at that time (Klemetz SWE/NU/DSWCI DX Window/Rev. of Int'l. Broadcasting/Hauser-OK)

CUBA Radio Havana Cuba change:

2000-2200 FF/EE 13750 (ex-13720) 13660-SSB (Coro-RHC/Bueschel/Rev. of Int'l. Broadcasting/Hauser-OK)

ECUADOR Some changes at *HCJB*:

0330-0430 Russian 11865 (ex-11960)
0430-0500 German 11865 (ex-11960)
0700-0900 English 11730 (ex-11950)

(HCJB/Rev. of Int'l. Broadcasting/Hauser-OK)

FINLAND YLE Radio Finland

0000-0015	Finnish	11995 15250
0300-0400	Finnish	6120
0400-0415	Finnish	6120 9655 9860 11755 15440
0415-0430	Swedish	6120 9655 9860 11755 15440
0430-0515	Finnish	6120 9655 9860 11755 15440
0515-0530	Finnish	6120 9860
0515-0530	Russian	9655
0530-0545	German	9560
0530-0600	Finnish	6120 11755
0545-0600	French	9560
0600-0630	Finnish	6120 9560 11755 15250 21670
0630-0700	English	15250 21670
0630-0700	Finnish	6120 11755
0630-0700	Swedish	9560
0700-0800	Finnish	6120 6180 11755 17820 21670
0800-0830	Finnish	6120 11755 17820 21670
0830-0900	Finnish	6120 11755
0830-0900	Russian	17820 21670
0900-0930	German	9560
0900-1000	Finnish	6120 11755
0930-0945	French	9560
1000-1100	Finnish	6120 11755 21595
1000-1100	Swedish	13755
1100-1150	Finnish	6120 11755 21465
1150-1200	Finnish	6120 11755
1150-1200	Swedish	21465
1200-1230	Finnish	6120 11755 15400 17670
1230-1300	English	15400 17670
1230-1300	Finnish	6120 11755
1300-1330	Finnish	6120 6180 11755 15400 17670
1330-1400	Finnish	6120 11755 15400 17670
1330-1400	Russian	6180
1400-1430	Finnish	6120 11755
1400-1430	Swedish	9795 15400
1430-1500	Finnish	6120 11755 15400
1430-1500	Swedish	9795
1500-1515	Finnish	6120 6180 11755
1500-1515	Swedish	9795 21670
1515-1600	Finnish	6120 11755 21670
1515-1900	Swedish	9795
1600-1630	Russian	9695
1600-1900	Finnish	6120 11755
1900-1930	English	6135
1900-2000	Finnish	6120 11755
1930-2000	German	6135
2000-2020	Finnish	6120
2000-2020	Swedish	11755
2000-2030	Russian	6135
2020-2130	Finnish	6120 11755
2130-2230	Finnish	9865 11845

(BBCM)

GERMANY Deutsche Welle uses HF transmitters in Antigua, Canada, Germany, Madagascar, Portugal, Russia, Rwanda, Sri Lanka. Mediumwave relay stations in Albania (a), Belgium (w), Moldova (m), Sri Lanka (s), Russia (r). URL: http://www.dwelle.de/				
0000-0100	Russian	5925 7105 9640 9690 11975 12045 15135	0930-1000	Serbian 9650 11905
0000-0200	German	3995 6075 6100 7130 9545 9730 11785 11795 13780 15275 15410 17860	1000-1040	Portuguese 11795 15210 17860
0200-0250	English	9615 9690 11945 11965 13690 15560	1000-1050	Bulgarian 9680 11825 15545
0200-0250	Spanish	6040 9640 11810 13780	1000-1050	Chinese 9450 15185 15610 17715 17820
0200-0400	German	3995 6075 6100 9735 11795 15205	1000-1050	Swahili 9565 11785 15410 21695
0300-0350	English	6145 9535 9640 11810 13780 15105	1000-1100	English 6140
0300-0400	Russian	7105 9650 11820	1000-1100	German 6075 7315 9545 12000 13720 13780 15135 15490 17560 17845 21640 21680 21790 21840
0300-0400	Swahili	7225 13690 15210 17820 21650	1100-1125	Indonesian 15105 17820 21650
0400-0450	English	7225 9565 9765 11785 13690	1100-1130	Albanian 9650 11905 11970
0400-0600	German	3995 6075 6100 9640 9700 9735 13780 15275	1100-1130	Spanish 11865 15210
0430-0530	Ukrainian	9545 11820	1100-1150	English 6140 15370 15410 17680 17860
0500-0515	Portuguese	7225 9565 11785 13720	1100-1200	German 6075 7315 9545 12000 13720 13780 15135 15275 15490 17560 17845 21640 21680 21790 21840
0500-0530	Bulgarian	7190 9750	1130-1200	Bosnian 7185 9650 9770 11905
0500-0550	English	9615 9670 11795 11810	1130-1200	Hungarian 7130 9690
0500-0550	Turkish	11865 13690 15185	1200-1230	Bosnian 7185 9650 9770
0530-0545	Serbian	7190 9750	1200-1230	Polish 7170 9735
0545-0600	Albanian	7190 9750	1200-1300	French 13790 15410 17680 17800 21695
0600-0615	Bosnian	7190 9750	1200-1330	German 6075 9545 12000 13720 13780 15135 15275 15490 17560 17730 17845 21640 21680 21790 21840
0600-0650	English	6140 11915 13790 15185 17820 17860 21680	1230-1300	Croatian 7185 9650 9770
0600-0800	German	6075 9545 9690 9735 11755 11795 11865 11985 13780 17845 21600 21640	1230-1300	Japanese 12055 15210 17820 21650
0615-0630	Serbian	7190 9750	1300-1330	Macedonian 7185 9650 9770
0630-0700	Macedonian	7190 9750	1300-1350	Hausa 17680 17800 21695
0700-0730	Croatian	7190 9650 11905	1300-1500	Arabic 13790 15535 17715 17785 21715
0700-0730	Hausa	13790 15185 17860	1330-1355	Chinese 9450 15210 15605 17820 21650
0700-0900	English	6140	1330-1355	Pashto 17835 21600
0730-0800	Albanian	7190 9650 11905	1330-1400	German 6075 6140 9545 12000 13720 13780 15135 15275 15490 17560 17730 17845 21640 21680 21790 21840
0800-0815	Dari	15525 17560 21560	1330-1430	Serbian 7185 9650 9770
0800-0830	Albanian	9650 11905	1355-1420	Dari 17835 21600
0800-0900	German	6075 9545 9690 9735 11795 11865 13780 17845 21600 21640	1400-1425	Indonesian 15470 17820 21650
0815-0830	Pashto	15525 17560 21560	1400-1450	Amharic 11810 13610 15410 21695
0830-0900	Serbian	9650 11905	1400-1600	German 6075 6140 9545 9655 9655 12055 12055 13780 15275 17730 17765 17845 17875 21560
0830-0930	Romanian	9680 11825 15545	1430-1500	Albanian 7185 9770 15470
0900-0930	Macedonian	9650 11905	1430-1515	Urdu 6170 7225 9875 17595
0900-0950	English	6140 6160 9565 15210 15410 15470 17560 17800 21680 21790	1500-1530	Albanian 7185 9770 15470 17835
0900-0950	Persian	17675 17820 21560 21695	1500-1550	Portuguese 17695
0900-1000	German	6075 9545 9690 9735 11795 11865 13780 15135 17845 21600 21640	1500-1600	Arabic 15535 17715 17785 21715
0930-1000	Bulgarian	9680 11825	1500-1600	Swahili 9735 11810 15135 21695
0930-1000	Hungarian	7130 9690	1500-1800	Russian 9715 9715 9800 11915 15425
			1515-1600	Hindi 6170 7225 9875 17595
			1530-1600	Macedonian 7185 9770

1530-1600	Romanian	15470 17835
1600-1650	English	6140 6170 7225 9735 11810 15135 17595 21695
1600-1650	Turkish	11705 13790
1600-1700	Bulgarian	15470 17835
1600-1700	German	6075 9545 9655 12055 13780 15275 15540 17730 17765 17845 17845 17875 21560
1600-1700	Serbian	7185 9770
1630-1700	Polish	7185 9855
1700-1730	Croatian	7185 11905 15470
1700-1750	Persian	9835 11705 15450 17765 17835
1700-1800	French	7185 9735 11810 15390 17810
1700-1800	German	6075 9545 9655 12055 13780 15275 15540 17845 17845 21560
1700-1900	English	6140
1730-1800	Albanian	7125 7185 11905 15470 15470
1800-1830	Albanian	7125 7185 15470 15470
1800-1900	Hausa	11810 15135 15390 17810
1800-1900	Russian	5980 7125 9800 11915
1800-2000	German	6075 7185 9545 9735 11765 11795 13780 15275 15540 17860
1830-1900	Bosnian	7125 15470
1900-1950	English	9640 11785 11810 15390 17810
1900-2000	Romanian	6140 7125 9470 11815
1900-2100	Russian	5980 7125 7395 11915
2000-2015	Serbian	5955 7125 13790
2000-2050	English	11970
2000-2050	Portuguese	7285 9875 13780 15390 17765
2000-2200	German	3995 6075 7185 9545 9735 11765 11795 15275 17810 17860
2015-2030	Albanian	7125 13790
2030-2100	Polish	6130 13790
2100-2150	English	9670 9765 9875 11865 11915 13780 15135
2200-0000	German	3995 5925 6075 6075 6100 9545 9730 11785 11795 12035 13690 13780 15250 15275 15410 17860
2200-2250	Indonesian	9670 9815 11915 13750
2230-2300	Portuguese	6145 9700 11865 13720 15105
2300-0050	Spanish	6145 9700 11865 13720 15105
2300-2350	English	9715 9815 11965

INDIA 4760 *AIR Port Blair* *2325 Ending "Song of India" and s/on with "Vande Mataram" and announcements; into droning instrumental featuring tabla and tanpura. Pips at 2330 and followed with presumed news relay in unknown language, then

seemed English from 2335 with numerous references to Pakistan. (11-Jun/Hill-MA)

INDONESIA 3224.8 *RRI Tanjung Pinang*. Local pops until 1155 and then SCI. Jakarta news at 1200 including the speech about national election by President Habibie. Closing announcement at 1235 and signed off. (6-Jun/Yamada-JPN/Jembatan DX)

3344.8 *RRI Ternate*. Local pops and advertisement at 1225 in which I found the commercial by "Ajinomoto." 1259 SCI and followed to Jakarta news relay. Local pops program including music entitled "Ini Yang Terbaik" by Nur Afni Octavia at 1308. 1400 Local news "Sari Berita" and then telephone conversations. ID was heard at 1307, 1359 and 1404 as "Programa Satu, Radio Republik Indonesia Stasiun Ternate." (5-Jun/Yamada-JPN/Jembatan DX)

4000.2 *RRI Kendari*. Changed its sign off time from 1500 to 1600. The first noted on May 31. (31-May/Yamada-JPN/Jembatan DX)

4777.1 *RRI Jakarta*, Kebayoran. Not heard recently. Apparently became inactive. (6-Jun/Yamada-JPN/Jembatan DX)

IRAN *Voice of the Islamic Republic of Iran*, Tehran found using Kamalabad v11735.62 [x11635?]-that freq appears to come up most days—for Ar from circa 1630 and //to better 13645. Still traces of signal at 1750+. (16-Jun/Green-UK/BCDX/Bueschel-GER)

Bosnian (S-Cr) progr 2130-2230 up on odd Zahedan 9517.3. (17-Jun/Bergmann-GER/BCDX/Bueschel-GER)

VOIRI in French 0300-0725 17780 21470 (x15250 x21810) and 21770. 1830-1927 9022 11680 11900 13685 13790 15130. 2330-0027 9022 9795 11970. (20-Jun/Vanoudheusden-HOL/BCDX/Bueschel-GER)

ISRAEL *Kol Israel* has modified its 11605 kHz beam at 0400 English to better serve WCNA. Hebrew to that target area uses 15640 from 2115-0500. (7-Jun/Poppin-CA/Rev. of Int'l. Broadcasting/Hausen-OK)

ITALY RAI International

0050-0110	English	9675 11800 15240
0050-0110	Spanish	9575 11755
0110-0125	French	9675 11800 15240
0110-0125	Portuguese	9785 11755
0130-0230	Italian	6110a 9675 9785 11675a 11755 11800 15240
0230-0305	Italian	9675 9785 11755 11800 15240
0305-0325	Spanish	9675 9785 11755 11800 15240
0330-0350	Russian	9670 11800 15280
0350-0410	Ukrainian	9670 11800 15280

0415-0435	Amharic	15250 17780 21520	ery, French Guiana (f); Kranji, Singapore (k); Ekala,
0415-0440	Italian/ English	5975 7150	Sri Lanka (s); Skelton and Woofferton, United King- dom (uk); and Ascension Island (a). URL: http://www.nhk.or.jp/tjnet/
0435-0510	Italian	15250 17780 21520	0000-0015 English-RS 11815 13650
0445-0505	Lithuanian	9670 11800	0000-0100 English-GS 6180uk 9665a 11705c
0510-0530	Romanian	9670 11800	0100-0200 English-GS 15570 15590 17835
0510-0530	Somali	15250 17780 21520	21670
0535-0555	Arabic	11930 15250	0100-0200 English-RS 17685
0600-1000	Italian	7240 9670 17710 21520	0130-0200 Bengali 11890s
1000-1100	Italian	7240 9670 11920s 17710 21520	0200-0230 Hindi 11890s
1100-1300	Italian	7240 9670 17710 21520	0200-0300 Japanese-GS 5960c 11840 11860i
1300-1400	Arabic	7290 9670 11880	11870 13630 15325
1335-1355	Albanian	7240 9600	15570 15590 17685
1345-1700	Italian	9670 17780 21520 21535 21710 Su	17835 21610
1400-1415	Slovene	7240 9585	0230-0300 Persian 9515g
1400-1425	Italian	17780 21520	0230-0300 Portuguese 15590f
1415-1435	German	7240 9585	0230-0300 Urdu 11890s
1435-1455	Croatian	7240 9585	0300-0400 English-GS 17825 21610
1500-1520	Turkish	9585 11840	0300-0400 Japanese-GS* 5960c 9515g 9660f
1500-1525	Italian	7290 9670 11880	11840 11870 11890s
1520-1540	Greek	9585 11840	13630 15325 15590
1530-1555	French	7240 9670 11880	17685 17835
1540-1600	Bulgarian	9585 11840	0330-0400 Russian 15570
1555-1625	Italian	7240 9670 11880	0330-0400 Swahili 6135a
1605-1625	Russian	11800 15280 17780	0400-0430 Arabic 9515g
1630-1655	Arabic	11880 15230 17780	0400-0430 Korean 15570
1630-1655	French	9670 11840	0400-0430 Spanish 9660f
1700-1800	Italian	9670 11840 15320a 15330 17870	0400-0500 Japanese-GS 11840 15590
1805-1825	German	5990 7135 9530	0430-0500 Chinese 15570
1815-1830	Czech	7140 11905	0430-0500 Russian 15355g
1830-1845	Slovak	7140 11905	0500-0530 French 17820s
1830-1905	Italian	17780 21520	0500-0530 Korean 15570
1845-1905	Polish	7140 11905	0500-0530 Spanish 11895f 15355g
1910-1930	Serbian	7140 9670	6110c 7230uk 11715
1910-1930	Somali	11840 15240 17780	11840 11850 15590
1935-1955	English	5970 7160 9760	17825
1935-1955	Hungarian	7240 9670	0500-0600 English-RS 15230
2000-2020	Danish	9590 11860 Su/Tu/Th	0530-0545 Italian 15355g
2000-2020	Esperanto	9590 11860 Sa	0530-0600 Chinese 15570
2000-2020	Russian	6035 9670 11800	0545-0600 Swedish 15355g
2000-2020	Swedish	9590 11860 Mo/We/FR	0600-0630 German 15355g
2025-2045	Arabic	6110 7290	0600-0630 Russian 11760
2025-2045	English	7220 9710 11880	0600-0700 English-GS 5975 7230uk 11740uk
2050-2110	Portuguese	6110 7290 9710 11880 15240	11840 11850 17825
2110-2130	Spanish	6110 7290	11890s 15590
2115-2135	Romanian	5970 7120	0630-0700 Chinese 17860 17870
2135-2155	Arabic	6110 7290	0630-0700 French 15355g
2135-2155	Czech	5970 7120	0700-0730 Arabic 15220a
2155-2210	Slovak	5970 7120	0700-0730 Hindi 11890s 15590
2200-2225	English	9675 11900 15240	0700-0800 Japanese-GS 6145 9685 11740k
2210-2225	Polish	5970 7120	11840 11850 11920k
2230-0050	Italian	9675 9785 11755 11800 15240	17860
			0730-0800 Urdu 11890s 15590
			0800-0830 Russian 6145 6165
			0800-0900 Japanese-GS* 9530f 9685 9750 9835
			11710uk 11740k 11850
			11920k 12030 15590
			17860 21550g 21600a
			17820s
			0830-0900 Persian

a=Ascension, s=Singapore (BBCM)

JAPAN NHK - Radio Japan uses relay stations at
Moyabi, Gabon (g); Sackville, Canada (c); Montsin-

0900-1000	Japanese-GS	9530f 9685 9750 9835 11710uk 11740k 11815 11850 11920k 12030 15590 17895a 21550g	2240-2300	Chinese	13650
0930-1000	Indonesian	9695	2240-2300	Malay	11815
1000-1030	Spanish	9685 12030	2300-0000	Japanese-GS*	11910 17810
1000-1100	English-GS	9695 11850 15590	2300-2320	Indonesian	11815
1000-1300	Japanese-GS*	9750 11815	2300-2320	Thai	13650
1030-1045	Italian	21700g	2320-2340	Burmese	13650
1030-1100	Burmese	11740k	2320-2340	Vietnamese	11815
1030-1100	Portuguese	15590f	2340-0000	Chinese	11815 13630
1045-1100	Swedish	21700g	2340-0000	Indonesian	13650
1100-1130	German	9660uk 11710uk	(BBCM)		
1100-1130	Korean	6090	KOREA—SOUTH <i>Radio Korea International</i> from		
1100-1130	Vietnamese	9620	monitoring observations. Some broadcasts are re-		
1100-1200	English-GS	6120c 9695 15590	layed via Radio Canada International's facilities at		
1130-1200	Chinese	6190	Sackville (marked "c"), and the BBC/Merlin Skelton		
1130-1200	Indonesian	9620	site in the UK (marked "u"). URL: http://rki.kbs.co.kr/		
1130-1200	Russian	11710uk	0000-0100	Japanese	11810
1130-1200	Thai	11740k	0000-0100	Korean	5975 15575
1200-1230	Korean	6190	0100-0200	Korean	7275 11640 11810
1200-1230	Malay	9620 9695	0100-0200	Spanish	11725 15575
1200-1230	Swahili	17790a	0200-0300	English	7275 11725 11810 15575
1200-1230	Vietnamese	11740k	0300-0400	Korean	7275 11640 11725 15575
1230-1300	Burmese	9695	0400-0430	Korean	15575
1230-1300	Chinese	6190 11740k	0700-0800	Korean	7550 9535u
1230-1300	French	15400a 17790a	0800-0900	English	9570 13670
1300-1330	Indonesian	7200 9695	0800-0900	Japanese	5975 7275 9640
1300-1330	Russian	6190	0900-1000	Korean	5975 7275 7550 9570
1300-1500	Japanese-GS*	9750 11705c 11815 17695uk			13670
1330-1400	Thai	7200	1000-1030	Spanish	11715c
1400-1430	Korean	6190	1000-1100	Korean	5975 7275 9570 13670
1400-1430	Malay	7200	1000-1100	Spanish	7550 9580
1400-1500	English-GS	9505 11730 11880s	1030-1100	English	11715c
1430-1500	Chinese	6190	1100-1130	Korean	6145c 9580 9640 9650c
1500-1520	French	11785	1100-1200	Russian	5975 6135 7275
1500-1600	English-GS	7200 9505 9750 11730	1130-1230	Chinese	6055
1500-1600	Japanese-GS	9535 12045s 17885a 21600f	1130-1230	Indonesian	9570 9640 13670
1600-1700	Japanese-GS	6035 7110 7140 7200 9535 9750 9835 11730 12045s 15355g	1200-1300	Japanese	5975 6135
1700-1800	English-GS	7110 9825 15355g	1200-1300	Korean	7285
1700-1800	Japanese-GS	6035 7140 7200 9835 11880s 21630a	1230-1330	English	9570 9640 13670
1800-1820	French	7110 7255	1300-1400	Chinese	5975 6135 7285
1800-1900	Japanese-GS	6035 7200 11880s	1330-1430	Indonesian	9570 13670
1820-1840	Spanish	7110	1400-1500	Japanese	5975 7275
1840-1900	Russian	7110	1500-1600	Russian	9515
1900-1920	Russian	11715	1600-1700	Arabic	7275 7550
1900-2000	Japanese-GS*	11910 17810	1600-1700	English	5975 9515 9870
2000-2100	Japanese-GS*	6035 6165 17810	1600-1700	Spanish	6150
2100-2200	English-GS	9725 21610	1700-1800	French	7275 9515 9870
2100-2200	English-RS	17825	1700-1900	Korean	5975 7550
2100-2200	Japanese-GS*	11665 11910	1800-1900	German	6480 7275
2200-2300	Japanese-GS*	6050uk 6115uk 9725 11705c 11910 15220a 17810 17825	1800-1900	Russian	15360u
2210-2230	Korean	9560	1800-1900	Spanish	9515 9870
2230-2250	Chinese	9560	1900-2000	Arabic	6480 7550 9515 15575
			1900-2000	English	5975 7275
			1900-2000	French	6145u 9870
			2000-2100	German	6145u 7550 15575
			2000-2100	Russian	5975
			2000-2100	Spanish	6480 7275 9870
			2100-2130	English	3970u 6480 15575
			2100-2200	Arabic	9870
			2100-2200	Korean	5975 9640

2130-2200 English 15575
 2200-2300 Chinese 5975 7275 9640
 2200-2300 Spanish 6150
 2300-0000 Indonesian 7275 9640
 2300-0000 Korean 5975 15575
 (BBCM)

LEBANON High Adventure Radio/Voice of Hope is back on the air, using 6279.5 and 11530 kHz. English 1800-2200, Arabic 2230-2300. (various)

MONGOLIA Voice of Mongolia 1500-1530 English is being heard here on the second harmonic, 19440 (Wadman-UK/WDXC Contact/Rev. of Int'l. Broadcasting/Hauser-OK)

NEW ZEALAND ZLXA Will be issuing a special QSL commemorating the increase of 1602 MW from 1 to 2.5 kW on June 19, and are seeking rpts for listening before and after that date. They now have a website: <http://www.radioreading.org/trs.htm> (Clark-NZ/RNMM/BC-DX/Rev. of Int'l. Broadcasting/Hauser-OK) Sked given on website is

0000-0500 1602 3935 7290 Sa
 0000-1000 1602 3935 Sa/Su
 0000-1000 1602 3935 7290 Mo-Fr
 0500-1000 1602 3935 Sa
 1000-2000 1602 3935
 2000-2400 1602 3935 7290

5960, when in use, same times as 7290. (31-May/Berg-NY/NU/BCDX/Rev. of International Broadcasting/Hauser-OK)

NIGERIA Following the BBCM report from Nigeria Media Monitor that *V. of Nigeria* had been off the air since May 30 as of June 14, we checked 7255 UT June 17: 0445 tune in, fair signal in Arabic, presumably VOA which inexplicably has been using VON's main external service frequency. *0448 stronger carrier with continuous noise, no doubt taking feed from an open FM STL circuit; 0452 quiet and then tone; 0457 talking drums, mention of "Nigeria," ID in Swahili; 0458 pallid undermodulated anthem; 0459 VON ID in English by woman and someone turns up the volume level; mentions 15120 (unheard), program summary, 6am timecheck, 0501 music opening women's program, couldn't catch the title, introduced by a man. Generally several notches above VOA co-channel (Hauser-OK/Rev. of Int'l. Broadcasting)

NORTHERN MARIANA ISLANDS IBB transmission schedule,

VOA Agingan Point, Saipan (xKHBI), 100 kW 190 degr.

0900-1000 Russian 11660
 0900-1100 English 15665
 1000-1100 English 11660
 1100-1300 English 9355

1300-1400 English 9355
 1800-1900 English 13820
 (IBB/Rev. of International Broadcasting/Hauser-OK)

VOA Tinian Isl, near Saipan:

0800-1000 English 11775 13610 15150
 1000-1100 Chinese 13610 15260
 1000-1300 English 15240
 1200-1300 Chinese 9545
 1300-1400 Chinese 11765 13625
 1300-1400 Korean 9545

RFA Tinian Isl, near Saipan.

0030-0130 Burmese 13770
 0300-0700 Mandarin 13670 13760 15150
 1100-1200 Lao 9545 15185
 1200-1300 Khmer 15185
 1200-1300 Uighur 9545
 1400-1500 Cantonese 13670
 1400-1500 Vietnamese 9635
 1500-1600 Mandarin 13690
 1530-1600 Korean 11855
 1600-1800 Mandarin 11795 13690
 1800-2000 Mandarin 11740 11955 13695
 2000-2200 Mandarin 11700
 2200-2300 Cantonese 15430 15485
 2300-0000 Mandarin 15430
 2330-0030 Vietnamese 11805

(IBB/Rev. of International Broadcasting/Hauser-OK)

OMAN Radio Sultanate of Oman

0000-0200 Arabic 7230 9735
 0200-0300 Arabic 7230 9735 15355
 0300-0500 Arabic 6020 15355
 0500-0600 Arabic 13620
 0600-0900 Arabic 13640 17590
 0900-1400 Arabic 13640 15140
 1400-1600 Arabic 9575 15140
 1600-1700 Arabic 7230 15375
 1700-1800 Arabic 7230 11805 15375
 1800-1900 Arabic 9735 11805 11890
 1900-2200 Arabic 9735 11890
 2200-0000 Arabic 7230 9735

(BBCM)

PAKISTAN Radio Pakistan:

0045-0345 LL's-HS 4790 Fr (API8)
 0045-0345 LL's-RS 5025-Quetta Fr
 0045-0404 LL's-RS 5025-Quetta Sa-Th
 0045-0435 LL's-HS 4790 Sa-Th (API8)
 0100-0130 Hindi 7155 9740
 0100-0215 Urdu 15485 17895
 0130-0200 Bangla 11930 15455
 0200-0230 Assami 11930 15455
 0200-0300 Urdu-HS 6070 (API7)
 0230-0245 English 9640 15485 17660K 17895
 slow speed nx bulletin
 0300-0310 English-HS 6070 (API7)
 0330-0400 Gujrati 15325 17555
 0330-0430 Balti-HS 7200 (API2)

0400-0404	Urdu-HS	9645 (API7)
0400-0820	LL's-RS	7155-Quetta
0445-0545	Sheena-HS	7200 (API2)
0500-0504	English-HS	9645 (API7)
0500-0700	Urdu	15175.19 17555.04 21460.13
0600-0604	Urdu-HS	9645 (API7)
0600-0800	Urdu-HS	7110 (API4)
0600-1145	LL's-RS	7155-Quetta
0700-0704	Punjabi-HS	7110 (API4)
0704-0800	Urdu-HS	7110 (API4)
0800-0804	Sindhi-HS	7110 (API4)
0800-1103	Urdu	15530.18 17835.1
0800-1215	LL's-HS	7265 (API8)
0804-0900	Urdu-HS	7110 (API4)
0900-0904	Pashto-HS	7110 (API4)
0900-0930	Indonesian	15405 17535K
0900-1100	Urdu-HS	11835 (API7)
0904-1100	Urdu-HS	7110 (API4)
0930-1215	LL's-HS	7265 (API8)
1000-1030	Tamil	15464.96 17535K
1000-1145	LL's-RS	7155-Quetta
1100-1115	English-HS	7110 (API4)
1100-1200	Hindi	9510 11995.04 15465K.
1100-1400	LL's-RS	6140-Peshawar
1105-1120	EE-SSN	15530.18 17835.1
1200-1230	Bangla	11975 15625
1200-1230	Chinese	11895 15465
1200-1230	Urdu-HS	9645 (API7)
1200-1805	LL's-RS	5025-Quetta
1230-1300	Kashmiri-HS	9645 (API7)
1230-1330	LL's-HS	4790 (API8)
1300-1304	Urdu-HS	7195 (API2)
1300-1345	Persian	11935 15625
1300-1400	Urdu-HS	9645 (API7)
1304-1323	Pashto-HS	7185 (API2)
1330-1530	Urdu	11570 15465.19 17516vK
1345-1815	LL's-HS	4790 (API8)
1350-1358	Balti-HS	6060 (API1)
1400-1500	English-HS	9645 (API7)
1420-1428	Sheena-HS	5045 (API3)
1430-1500	Turki	6075 7260
1500-1530	Russian	7260 9330
1500-1530	Urdu-HS	9645 (API7)
1600-1630	English	11570 15320v 15465.19 17511vK 17720.03
1600-1630	English-HS	7230 (API7)
1615-1700	Aaina-HS	7310 (API2)
1700-1715	Urdu-HS	7230 (API7)
1700-1730	Turkish	11600v 13580
1700-1900	Urdu	11570 15335.19
1800-1845	Arabic	11640 15735
1800-1900	Urdu	11600.04
1930-2000	French	11570 15335

(24-May/Green-UK) K = Karachi, others Islamabad.
 HS=Home Service, RS=Regional Service, SSN=Slow
 Speed News (Bueschel-GER/BC-DX)

PAPUA NEW GUINEA Has domestic SW service
 extended hours? I used to hear national anthem,
 then sign-off at 1200 on 4890 Port Moresby. But

right now June 10 at 1329 I am hearing lovely local
 music at 1329 (10-Jun/Gilbert-OR) I saw a BBCM re-
 port that **NBC** was expanding hours more in the
 daytime (Hauser-OK/Rev. of Int'l. Broadcasting)

PERU 5523.3 Radio Sudamerica 2230-2310 Reac-
 tived since being sabotaged last December. Now us-
 ing new slogan "Radio Sudamerica, la Inmortal" (4-
 Jun/Rodriguez-COL/Rev. of International Broadcast-
 ing/Hauser-OK)

6955.5 **Radiodifusion Paraton**, Huarmaca, now
 here ex-6676 etc...heard 0430 with chicha mx and
 frequent t/cs, using novel hour format i.e. "faltan
 seis minutos a cero cero horas...." Poor modulation
 on live ann, much better on full id at 0501 after
 Andean flute intro...hrd past 0530. Thanks to Peter
 Grenfell who alerted me after chasing pirates. (Or-
 mandy-NZ/HCDX/Rev. of Int'l. Broadcasting/Hauser-
 OK)

6987.1v **R. San Miguel de El Faique 0020** Prob-
 ably this one with romantic vocals, talk in Spanish;
 very little readability in QRN. Two evenings later
 from 0106, exactly on 6987 with lively Andean
 song, DJ patter, possible reference to San Miguel,de
 El Faique. (11-Jun/Hill-MA)

POLAND Radio Maryja is a privately-owned Catho-
 lic radio station. It operates a domestic service on
 VHF/FM within Poland. Some programs are also
 broadcast on shortwave via a hired relay transmitter
 in Russia. URL: <http://www.radiomaryja.pl>

0500-0715	Polish	12010 Sa
0600-0800	Polish	12010 Su
1930-2000	Polish	7400

RUSSIA Radiostantsiya Tikhyy Okean (Pacific
 Ocean)

0130-0215	Russian	21820
0715-0800	Russian	7210 7490 10344U 12055 12070 15490
1800-1845	Russian	7120 7170 9825 12065

(BBCM)

**SAUDI ARABIA Broadcasting Service of the
 Kingdom of Saudi Arabia (BSKSA)**

0255-0600	Arabic-GS	17895
0300-0600	Arabic-2	9580
0300-0600	Arabic-HK	9715v 11820v 15270 17895
0400-0500	Somali	15165
0400-0600	Turkish	15275
0500-0600	Swahili	17760
0600-0900	Arabic-GS	17560 17760
0600-0900	Arabic-HK	15380
0600-1700	Arabic-2	11855v
0800-1000	French	21705
0900-1200	Arabic-GS	21505
0900-1200	Arabic-HK	11785 17880 21495
1000-1200	Indonesian	21670

1200-1400	Urdu	15345
1200-1500	Arabic-GS	21505 21705
1200-1600	Arabic-HK	11785 17760
1400-1500	Bengali	15345
1400-1600	French	15170
1400-1600	Persian	11745
1500-1600	Turkmen	9730
1500-1700	Arabic-COI	11950 15275 15435
1500-1700	Arabic-GS	15275 15435
1600-1700	Bambara	17775
1600-1800	Arabic-HK	11710v 11785 17560
1700-1800	Arabic-GS	15275 15435
1700-2230	Arabic-2	9580
1759-2300	Arabic-GS	9555 9870
1800-2100	Arabic-HK	9555v 11950

COI=Call of Islam, HK=Holy Koran (BBCM)

SEYCHELLES Far East Broadcasting Association (FEBA)

0030-0100	Hindi	7350
0045-0100	Bangla	9800 Su-We
0100-0115	Marathi	7350 Su-We
0100-0200	Tamil	9800
0115-0145	Telegu	7350 Su-We
0115-0200	Telugu	7350 Th-Sa
0200-0215	Hindko	9785 Mo/Tu
0200-0215	Siraiki	9785 Fr-Su
0200-0215	Urdu	11640
0215-0230	Punjabi	11640 Sa-We
0215-0230	Sindhi	9785
0230-0245	Baluchi	9785 Th-Su
0230-0245	Brahui	9785 Mo
0230-0245	Pushto	11640
0245-0300	Dari	11640 15555
0300-0315	Hazaragi	15555 Fr
0300-0330	Persian	11640
0315-0345	Swahili	11885 Fr
0315-0400	Swahili	11885 Sa-Th
0345-0430	Arabic	15460
0400-0415	Portuguese	9455 Th
0400-0430	Portuguese	9455 Fr-We
0430-0500	Dari	15555 Fr
0500-0558	Tagalog	15555 Su
0530-0600	Sinhala	15555 Fr
0815-0830	Malayalam	15460 Su
0815-0900	English	15460 Fr
0815-0900	Hindi	15460 Th
0815-0900	Telegu	15460 Sa
0830-0845	Badaga	15460 Su
0845-0900	Tamil	15460 Su
0915-0930	French	15430
1000-1058	Tagalog	15460 Fr
1100-1130	Arabic	15460
1145-1200	Nepali	15445 Mo/Tu
1145-1200	Tsangla	15445 Sa/Su
1200-1205	Creole	11675
1200-1230	Tibetan	15445
1205-1220	French	11675
1230-1245	Bhojpuri	15445 We/Fr/Sa
1230-1245	Mundari	15445 Su-Tu
1230-1245	Nagpuria	15445 Th

1245-1300	Bhili	15445 Sa
1245-1300	Chattisgarhi	15445 Mo
1245-1300	Marathi	15445 Su
1245-1300	Marwari	15445 Fr
1245-1300	Punjabi	15445 Tu-Th
1300-1315	Chattisgarhi	15445 Fr/Sa
1300-1315	Kui	15445 Su/Tu
1300-1315	Oriya	15445 Mo/We/Th
1300-1330	Malayalam	11885
1315-1330	Gujarati	15445
1330-1345	Tamil	11885
1330-1400	Sinhala	9810
1330-1400	Tamil	15445 Su
1330-1415	Tamil	15445 Mo/Tu/We/Th/Sa
1345-1415	Tamil	15445 Fr
1400-1415	Urdu	11600 Su-Th
1400-1443	Urdu	9810
1400-1445	Bangla	15445 Su
1400-1500	Hindi	11600 Fr-Sa
1415-1445	Bangla	15445 Mo-Sa
1415-1500	Hindi	11600 Su-Th
1443-1458	Hindko	9810 We-Sa
1443-1458	Urdu	9810 Su
1445-1500	Badaga	15445 Mo/Tu
1445-1500	Kannada	15445 Su
1445-1500	Konkani	15445 We/Sa
1445-1500	Tulu	15445 Th/Fr
1500-1515	Kannada	15445
1500-1600	English	11600
1500-1600	English	11600
1515-1530	Azeri	11695 Fr-Su
1530-1545	Nuer	11885 Fr-Mo
1530-1600	Persian	11695
1545-1600	Dinka	11885 Fr-Mo
1600-1615	Hazaragi	11695
1600-1615	Makonde	11885
1600-1615	Tigrinya	11640 Mo-We
1600-1630	Amharic	11640 Fr-Su
1615-1630	Dari	11695 Su/Fr
1615-1630	Guragena	11640 Mo-We
1615-1645	Dari	11695 Mo/Tu/We/Th/Sa
1615-1700	Swahili	11885
1630-1700	Amharic	11640
1630-1700	Dhivehi	11695 Fr
1630-1700	English	11695 Su
1700-1730	Oromo	11640 Su
1700-1730	Somali	9810 11885
1800-1900	Malayalam	11745 Fr
1833-1848	French	9500 Tu/We
1833-1903	French	9500 Th-Mo
1900-1945	Arabic	9455

(BBCM)

SOUTH AFRICA Revised Channel Africa sked:

0000-0530	Afrikaans	3320 RSG
0258-0355	EE/French	5955
0259-0330	EE/Swahili	6050
0300-0330	English	6015 AWR
0300-0400	French	7135 RFI
0300-0600	English	3255 6190 BBC-W
0330-0400	???	7215 TWR

0330-0400	Somali	9690 AWRi	2030-2100	???	9745 AWR
0358-0430	Swahili	9610 BBCi	2030-2100	Portuguese	6135 7205 BBC
0358-0455	EE/French	5955 CHAF	http://home.mweb.co.za/an/andre46/ (29-May/du		
0400-0430	Swahili	9690 AWR	Toit-RSA/BC-DX/Rev. of Int'l. Broadcasting/Hauser-		
0428-0455	French	9525 CHAF	OK)		
0429-0500	Portuguese	3390 6135 7205 BBC	SPAIN Radio Exterior de España (REE)		
0430-0455	Portuguese	3345 CHAF	0000-0100	Spanish	9540 9620 9765cr(SuMo)
0458-0555	EE/Port	11720 CHAF			11680 11880cr(SuMo)
0500-0530	???	5960 6015 AWR			15160 15170cr(SuMo)
0530-0800	English	7185 RSG	0000-0200	English	15385
0558-0655	EE/Port.	15215 CHAF	0100-0200	Spanish	3210cr(not SuMo)
0600-0615	???	11735 TWR			5970cr(not SuMo)
0600-1700	English	6190 11940 BBC-W			6020cr(not SuMo) 9620
0659-0730	French	17695 BBC			11680 15160
0800-0900	English	9750 21530 SARL Su	0115-0145	Ladino	11795 Tu
0800-1630	English	9650 RSG	0200-0300	Spanish	3210cr(not SuMo)
1258-1455	English	11720 17860 21530 Sa/ Sun			5970cr(not SuMo)
					6020cr(not SuMo) 6055 9540
1458-1525	Swahili	15150 CHAF			9620 15160
1458-1555	EE/French	17770 CHAF	0300-0400	Spanish	3210cr(not SuMo)
1527-1557	???	7265 TWR			5970cr(not SuMo)
1540-1555	???	9500 TWR Fr/Sa			6020cr(not SuMo) 6055 9540
1558-1655	EE/Port.	6150 CHAF			9620 15160
1558-1655	Swahili	11900 CHAF	0400-0500	Spanish	6055 9540 9620 15160
1600-1700	???	9670 TWR	0415-0445	Ladino	9690 Tu
1628-1655	Portuguese	3345 CHAF	0500-0600	English	6055
1630-0530	???	3320 RSG	0500-0700	Spanish	9730 11920 17665
1630-1700	???	11705 TWR	0700-0800	Spanish	11920 15585 17770 21610
1630-1700	Somali	15620 AWR	0800-0900	Spanish	15585 17770 21610
1640-1655	???	9650 TWR	0900-1000	Spanish	17755 21570 21610
1657-1712	???	9650 TWR	1000-1100	Spanish	9660ch 15585 17755 21570
1658-1755	EE/Port.	17860 CHAF			21610
1659-1900	English	15420 BBC	1100-1200	Spanish	5970cr (not SaSu) 9500-alt
1700-1800	Swah/EE	12130 AWR			13730 (Su) 9660ch 11815cr
1700-2200	English	3255 6190 BBC-W			(not SaSu) 15170cr (not
1712-1728	???	9650 TWR Su			SaSu) 15585 17755 21570
1730-1745	Portuguese	3390 6070 9520 BBC			21610
1730-1800	???	9665 TWR	1200-1300	Spanish	5970cr(not SaSu) 9500-alt
1745-1800	Swahili	7230 BBC			13720 11815cr(not SaSu)
1758-1855	EE/French	17870 CHAF			11910 15170cr(not
1800-1815	???	9665 TWR Sa (9670??)			SaSu)15585 17755 21570
1800-1830	???	5960 6100 AWR			21610 21700
1800-1830	???	9665 TWR Mo-Fr	1300-1400	Spanish	5970cr(not SaSu) 9500-alt
		(9670??)			13720 11815cr(SaSu) 11910
1800-1830	French	7230 BBC			15170cr(not SaSu) 15585
1800-1900	English	3215 SARL Mo			17755 21570 21610 21700
1830-1930	???	9800 TWR	1400-1500	Spanish	9500-alt 13720 9765cr(SaSu)
1830-2030	???	9510 TWR Sa			15125cr(SaSu)
1835-2005	???	9700 TWR Sa-Mo			15170cr(SaSu) 15585 17755
1835-2005	???	9700 TWR Tu-Fr			21570 21610 21700
1835-2015	???	9700 TWR Tu-Fr	1500-1600	Spanish	9500-alt 13720 9765cr(SaSu)
1835-2020	???	9700 TWR Sa-Mo			15125cr(SaSu)
1900-2000	6205	WRN			15170cr(SaSu) 15585 17755
1900-2000	EE/VN	6205 11560 WRN			21570 21610 21700
2000-2030	French	9745 AWR	1600-1700	Spanish	15375 17755 Mo-Fr
2005-2020	???	9695 TWR Sa-Mo	1600-1700	Spanish	9500-alt. 13720 (Su)
2005-2020	9700	TWR Sa-Mo			9765cr(SaSu) 15125cr(SaSu)
2030-2045	???	9510 TWR Sa			15170cr(SaSu) 15585 17755
2030-2045	9510	TWR Sa (deleted)			21570 21610 21700
2030-2100	???	3390 BBC			

1700-1730	Russian	15150 Mo-Fr	1330-1430	Urdu	15185		
1700-1800	Spanish	7275 9665-(SaSu)	1330-1500	Khmer	5955		
		9765cr(SaSu) 15125cr(SaSu)	1400-1800	English	7215		
		17715 17755 17850cr(SaSu)	1500-1545	Uzbek	15245		
		21700	1500-1600	Viet.	6120		
1700-1900	Arabic	21610	1600-1700	Bangla	9590		
1800-1900	French	9655 Mo-Fr	1700-1900	Farsi	9680		
1800-1900	Spanish	7275 9665-(SaSu) 9765cr	1800-1900	Turkish	9595		
		11815cr 15125cr 17755	1800-2100	Arabic	9605		
		17850 21700-(SaSu)	2200-2230	Khmer	7130		
1825-1855	Ladino	17770 Mo	2230-2330	Viet.	7130		
1830-1900	German	9665 Mo/Th	2330-0000	Burmese	9505		
1900-2000	French	7170-(Mon-Fri) 9595-(Mon-Sat) 17560-(SaSu)	Radio Liberty				
		7275 9665cr (SaSu) 9765	0000-0100	Kyrgyz	9715		
		15110 15125cr 17755-(Su) 17850cr 21700-(SaSu)	0100-0200	Kazakh	9745		
1900-2100	Arabic	7270 17560 Mo-Fr	0200-0400	Uzbek	9660		
		2000-2100	English	9595 15285 Mo-Fr	0430-0630	Persian	7155
		2000-2100	French	9595 15285 Su	0600-0800	Russian	11815
2000-2100	Spanish	7275 9665-(Sa) 9765cr	1000-1100	Russian	11875		
		11815cr 15125cr 17850	1100-1200	Kazakh	11855		
		21700-(Sa)	1100-1300	Russian	15205		
2100-2200	Arabic	7270 17560 Sa/Su	1200-1300	Kyrgyz	15355		
2100-2200	English	9595 15205 Sa/Su	1300-1400	Uzbek	15355		
2100-2200	Spanish	7275 9765cr 11815cr 15110	1400-1500	Turkmen	15370		
		15125cr 17850	1500-1600	Kyrgyz	15340		
		2200-2300	Spanish	7270 7275 9595 9765cr	1600-1700	Persian	9615
11880cr 15110cr 15170	1600-1700	Turkmen		9680			
17575	1700-1800	Uzbek		11825			
2300-0000	French	15385	1900-2000	Taba	11925		
2300-0000	Spanish	9540 9595 9620 9765cr	2100-0000	Russian	7245		
		11680 11880cr 15160	2300-0000	Kazakh	9625		
		15170cr 17575	(15-May/IBB/Volk-GER/BC-DX)				

(BBCM)

SRI LANKA/USA Sri Lanka Broadcasting Corp. has retimed their evening transmission to India in Hindi at 1330-1530 (ex 1510-1630) on 11905 7190 khz. (Dasgupta-IND)

Here are the actual registrations for the new IBB Iranwila relay on Sri Lanka. At present a lot of the listed transmissions are coming from different IBB sites such as from Ekala-SRI, Biblis-GER, Briech-MRC, Kavalla-GRC, Lampertheim-GER, Pals-ESF, Por-Phil, Tinang-PHL, Udom Thani-THA, or Woofferton-UK.

Voice of America

0030-0100	Hindi	7140
0100-0130	Urdu	6035
0100-0300	English	7115
0130-0200	Pashto	7275
0200-0230	Dari	7265
0300-0430	Farsi	7235
0400-0600	Arabic	7255
0800-1000	Russian	11875
1130-1230	Burmese	9720
1230-1330	Lao	9535
1300-1400	Russian	15205

UNITED KINGDOM Prior to 29th May 1999 *Merlin Network One* was available around the clock on shortwave. It is currently only carried on shortwave for one hour a day, and that's for a religious broadcast by Roy Masters. URL: <http://www.mno.co.uk> (Real Audio available)

1600-1700 English 6175 Mo-Fr

(BBCM) According to Mike Barraclough of the British DX Club, the U.K. international broadcaster *Merlin Network One* abruptly reduced its shortwave output from 24 hours a day to five hours per week, as of last Friday, May 28th. MNO is the programming division of Merlin Communications, which owns the recently privatized former BBC World Service shortwave transmitters in the U.K.

I spoke to the Head of MNO, Eric Wiltshire. Eric says he is leaving the Merlin organization. His program, the Media Zoo, which focuses on satellite broadcasting, will continue until June 30th. Eric says MNO continues 24 hours a day on satellite, and the MNO shortwave schedule will soon expand again, but only for program-makers who pay for the time. (6-Jun/Elliott/VOA Communications World/Norfolk/OKCOK/Rev. of International Broadcasting/Hauser-OK)

BBC's 9410 channel is no longer through whole daytime operational; as monitored by Matthias Gatzke this channel is off air since a couple of days appr. in 1300-1500 range. Seemingly 1500-2200 via Skelton-A towards 90 degrees together with Skelton-C towards 180 degrees is still operational (at least is 9410 still on air in 2100-2200 range), while 0400-1500 via single ancient Skelton-A transmitter towards 175 degrees was reduced or maybe even completely canceled. We wonder if this marks the begin of the announced cut-backs in shortwave service to Europe? (Ludwig-GER)

UNITED STATES VOA in Burmese on a new channel 15225 (ex 7220) at 1130-1230 hrs// 11850 9720. (Dasgupta-IND)

WHRA new on 7385 (ex-7580) for 2300-0500 Mo-Fr. (WHRI)

UZBEKISTAN Religious program *Jiban Tarango* ("Wave Of Life") currently broadcasts 1330- 1400 UTC via Tashkent 15470 is neither a clandestine nor a Muslim progr. In spite of their frequent references to the Quran and Muslim traditions these progs are of Christian origin and sponsored by the being ministry of the Swedish pentecostal movement, IBRA-Radio.

They have been on the air since May 1995 via a 240 kW tx in Tashkent-UZB. 15470 is their usual summer freq, while in winter a freq in the 7 MHz range is use, mostly 7400. (7-Jun/Biener-GER/BCDX/Rev. of Int'l. Broadcasting/Hauser-OK)

Contact addr in India is Jiban Tarango (in Engl "Wave Of Life"), P.O.Box 16057, Calcutta-700017, India. Phone +91 33 5623060, e-mail: hasan@cal.vsnl.net.in

Or directly to their (IBRA) headquarter in Sweden IBRA RADIO, BOX-4033, S-14104 HUDDINGE, SWEDEN Phone +46 8 6089680, e-mail ibra@ibra.se -or- e-mail hq@ibra.se

Acc to station director right now they are not verifying reports until they get permission from IBRA headquarter in Sweden. (29-May/Chakroborty-IND/WWDXC DX Magazine/BCDX/Rev. of Int'l. Broadcasting/Hauser-OK)

VATICAN CITY Vatican Radio URL: http://www.vatican.va/news_services/ns_en.htm (Real audio is available) URL: <http://www.wrn.org/vatican-radio/freq/>

0230-0245	Albanian	4005 5883v
0245-0300	Slovene	4005 5883v
0300-0315	Croatian	4005 5883v
0315-0330	Czech	4005 5883v
0330-0435	Slovak	4005 5883v
0345-0400	Hungarian	4005 5883v
0400-0420	Polish	4005 5883v 7250
0420-0440	German	4005 5883v 7250

0440-0500	French	4005 5883v 7250
0500-0520	English	4005 5883v 7250
0520-0530	Italian	4005 5883v 7250
0530-0600	Latin Mass	4005 5883v 7250 9645 11740 15595
0600-0645	It/Fr/En	4005 5883v 7250 9645 11740 15595 Mo-Fr 7250 9645 Su
0610-0645	Roman Liturgy	
0645-0700	Arabic	5883v 9645 11740 15595 Mo-Fr 7250 Su
0730-0830	Latin Mass	
0830-1000	Oriental liturgy	11740 15595 17550 Su
0900-0800	Papal	5883v We
1000-1015	Angelus	5883v 9645 11740 15595 21850 Su
1000-1030	It/Fr/En	5883v 9645 11740 15595 21850 Mo-Sa
1015-1030	Italian	5883v Su
1030-1050	French	11740 Sa
1050-1200	Spanish	11740 Sa
1200-1300	Italian	5883v 9645 11740 15595 21850
1300-1400	Spanish/PP	9645 11740
1400-1430	German/Polish	5883v 9645 11740
1430-1500	Music	5883v 7250 9645 Sa-Th
1500-1530	Relig.-Vespers	5883v 7250 9645
1530-1600	Italian	5883v 7250 9645
1600-1630	French/English	4005 5883v 7250 9645 15595
1630-1645	Albanian	4005 5883v 7250
1645-1700	Slovene	4005 5883v 7250
1700-1715	Croatian	4005 5883v 7250
1715-1730	Hungarian	4005 5883v 7250
1730-1800	Italian	5883v 7250 9645 Fr
1730-1745	Czech	4005 5883v 7250
1745-1800	Slovak	4005 5883v 7250
1800-1820	Polish	4005 5883v 7250 9645
1820-1840	German	4005 5883v 7250 9645
1840-1900	Rosary	4005 5883v 7250 9645 11625 13765
1900-1920	Italian	4005 5883v
1920-1930	Esperanto	4005 5883v Su
1930-1950	French	4005 5883v 7250 9645
1950-2010	English	4005 5883v 7250 9645
2010-2030	Spanish	4005 5883v 7250 9645
2030-2045	Portuguese	4005 5883v 7250 9645
2045-2100	Arabic	4005 5883v 7250 9645
2100-2210	Italian	4005 5883v
2130-2210	Italian	4005 5883v
0210-0230	Armenian	7345 9645
0230-0300	Russian	6185 7345 9645
0300-0320	Ukrainian	6185 7345
0320-0340	Belarusian	6185 7345
0340-0400	Lithuanian	6185 7345
0400-0420	Latvian	6185 7345
0420-0440	Romanian	6185 7345
0440-0500	Bulgarian	6185 7345
0500-0615	Scandinavian	7345 9645

0615-0745	Ukrainian Mass	9770 11740 Su	0430-0500	French	9660 11625
1230-1300	Russian	15595 17550	0500-0530	English	9660 11625 15570
1550-1610	Armenian	11715 15185	0530-0600	Portuguese	11625 13765 15570
1610-1640	Russian	9585 11715 15185	0600-0630	French	11625 13765 15570
1640-1700	Ukrainian	9585 11715	0630-0700	English	11625 13765 15570
1700-1720	Belarusian	9585 11715	1100-1130	Portuguese	17700 21850 Mo-Fr
1720-1740	Lithuanian	9585 11715	1130-1200	Religious-tx	15595 17550 Fr
1740-1800	Latin Mass	9585 11715	1130-1200	Spanish	17700 21850 Mo-Fr
1800-1820	Romanian	6185 7365	1230-1315	Chinese	6020 15500 17630 Su-Fr
1820-1840	Bulgarian	6185 7365	1230-1315	Chinese Mass	6020 15500 17630 Sa
1840-1900	Religious-tx	6185 7250	1315-1345	Japanese	7340 11625
1900-2000	Scandinavian	7250 9645	1345-1405	English	15500 17550
1920-2000	Esperanto	7250 9645 We	1405-1450	Vietnamese	13765 15500
2000-2020	Russian	7305 9585	1510-1530	Tamil	9865-Tashkent 12065 13765
0030-0100	Portuguese	7305 9605	1530-1600	Arabic	11625 15595
0040-0100	Hindi	9650 12055	1550-1620	English Mass	12065 13765 15500 Sa
0100-0130	Spanish	7305 9605 11910	1610-1630	Swahili	15570 17550 Su-Fr
0100-0120	Tamil	9650 12055	1620-1635	Somali	15570 17550 Sa
0120-0140	Malayalam	9650 12055	1635-1700	Amharic/Tigre	15570 17550
0140-0200	English	9650 12055	1700-1730	French	15570 17550
0145-0230	Spanish	7305 9605 11910	1730-1800	English	13765 15570 17550
0230-0250	French	7305 9605	1800-1900	Portuguese	13765 15570 17550
0240-0310	French	9660	1900-1940	Spanish	9660 11625 SA
0250-0310	English	7305 9605	2000-2030	English	9660 11625 13765
0310-0340	English	9660	2030-2100	French	9660 11625 13765
0315-0400	Spanish	7305 9605	2130-2200	Japanese	9585 11830
0340-0405	Swahili	9660 11625	2200-2245	Chinese	7305 9600 11830
0400-0405	Arabic	9645 11715	2245-2315	English	9600 11830
0405-0430	Amharic/Tigre	9660 11625	2315-0000	Vietnamese	7305 9600

(BBCM)



WANTED: Service/repair/technicians manual for Kenwood R-5000 (not the instruction manual). I will even buy a photocopy of one. Contact Steve at 1351 Oliver Avenue, Johnstown, PA 15909-1427. E-mail <iluvhares@aol.com>.

FOR SALE: Customized Beam Headings (from/to) and Distances (MI/KM) to more than 480 WRTH transmitter sites including new Russian republics. ITU Country Codes included. Send your location or coordinates. Price \$8.00. NASWA Journals for 1996, 1997, and 1998 complete, \$15.00 each. Passport to World Band Radio for 1996 and 1997, \$10.00 each. WRTH, 1991, \$5.00; 1997, \$12.00; 1998, \$16.00. All items include shipping overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. E-mail <ADrehman@juno.com>. Phone (828)894-3398. No collect calls, please.

Pirate Radio Report

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

Hello and welcome to the July edition of the **PIRATE RADIO REPORT**. In case you didn't notice there was no report in *The Journal* last month. Sorry! A busy schedule and a family illness got in the way.

The 1999 Pirate Popularity Poll

The results are in and the winner this year is:

RADIO METALLICA WORLDWIDE! Yes, the station run by Dr. Tornado has won again! Of all the votes received, this station garnered over 70% of them. Many of those responding complained that programming content was not the best but the strong signal quality made up for other shortcomings. Congratulations to Dr. Tornado, Sr. El Nino and Jade.

There were no clear second or third place winners this year, but stations deserving honorable mention include **WACK RADIO**, **KMART Radio**, **Blind Faith Radio** (nice QSL card!), **Radio Azteca** and **Radio Eclipse**.

Many thanks to all those responding and to the stations nominated.

Europirate News

During the month of May, **Radio Free London** did some experimental transmissions. They used the frequency of 15068 kHz on the 19 meterband in the AM mode during the last week of May. Reception in North America was noted during the 2200-0100 UTC time period along the East Coast. According to the latest information, RFL has repaired their transmitter and should be back on the air.

If you hear them, their e mail address is RFL@England.com and postal address is 101B Kings Cross Road, London WC1X 9LP or B.P. 130, 92504 Rueil, Cedex, France.

SWRS/Shortwave Relay Service continues to be active weekends on 11470 USB kHz. Give them a try late afternoons and early

evenings. For the latest schedule information, check out their web site at <http://listen.to/swrs> or email them at swrs@usa.net

The Dutch pirate **ALPHA LIMA INTERNATIONAL** has been heard on 11480 LSB around 0000-0100 as well.

Loggings

Many thanks to the following for submitting logs: Mark Humenyk-Ontario, Ralph Brandi-NJ, George Zeller-OH and Lee Silvi-OH

NEXUS RADIO was heard on June 19th at 0251 UTC on 6956 LSB. Programming included blues mx and requesting reception reports although no maildrop/address was announced. [Zeller-OH]

The SWRS was heard by our own Ralph Brandi on June 7th at 0110 UTC on 11470 kHz. Talk in German, ID in EE and the "Fame" theme by Irene Cara were noted. [Brandi-NJ]

WBIG, 6954.8 kHz was noted with a program of rock music on June 20th at 0028 UTC. [Zeller-OH]

WEST SIDE RADIO BROADCASTING, a new station was noted at 0100 on June 19th on 6955 LSB with music, IDs and the Lula, GA maildrop given. [Silvi-OH]

WGTC via Radio Eclipse was noted 0019 on 6955 with rock & roll mx and maildrop info. [Humenyk-ON]

WRMI was noted at 0248 UTC on June 20th on 6950 USB. Rock songs such as "Magic Carpet Ride" were heard. Male announcer with echo was hard to understand at times. Still no address. [Zeller-OH]

That's it for this month. Have a great summer. Happy Pirate DX!

-Chris



QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010



ALASKA: KNLS 7365
f/d "Sea Otter"
cd. w/ personal
ltr. v/s Mike
Osborne. They
said they were
sorry for the
delay. (Field-MI)

ANTARCTICA: LRA36
Radio Nacional
Arcangel San Gabriel 15476 f/d
cd. w/ ltr. via
registered mail
in 3 mo. for a
SP rpt. and a
\$1.00. v/s Fer-
nando R. Garcia
Pinasco. (Myers).
ANTIGUA: Caribbean
Relay Company

Ltd. 5975 f/d cd. w/ schedule in 18 ds. (Glotzbach-NM).

ARGENTINA: Radio Argentina Al Exterior 11710 f/d "41st Anniversary"
cd. w/ ltr., schedule and report forms in 130 ds. v/s Perla Damuri,
Direccion RAE. (Humenyk-ONT).

ARMENIA: Voice of Russia 9965 via **Yerevan** f/d "Moscow River near the
Kremlin" cd. in 50 ds. (Humenyk-ONT).

ASCENSION ISLAND: BBC World Service 7160 f/d ltr. in 98 ds. on Merlin
Communications International letterhead. v/s Nicola Nicholls, Trans-
mitting Engineer. (Borokowski-NY).

AUSTRIA: Radio Austria International
17560 f/d "Imperial Family in Godol-
llo, Hungary" cd. in 16 ds. w/ sked
(Humenyk-ONT).

BONAIRE: Radio Vlaanderen
International
15565 f/d "Asparagus
w/ Egg" cd. in 25 ds.
(Humenyk). **Radio Net-**
herlands 6165 "FM and
TV Mast at Lopik" cd.
in 36 ds. (Humenyk).

BULGARIA: Radio Bulgaria
7535 and 5850 f/d cd.
w/ schedule and stick-
ers in 7 wks. (Barto).
9485 f/d "Grand Hotel
in Sofia" cd. w/
schedule and stickers in 90 ds.
(Humenyk-ONT).

CHINA, PEOPLES REPUBLIC OF: China
Radio International 11975, 11715,
11675 and 11660 f/d "Terra Cotta
Warriors of the Qin Shihuang Mau-
soleum in Xian" cd. in 6 wks. w/
schedule. (Barto). 15260, 11945,
11875 and 11685 f/d "Seventeen Arch
Bridge" cd. w/ stickers in 5
wks. (Barto).



Radio
Cochiguaz



Mr. JOHN SGRULLETTA * U.S.A.
Confirmamos su correcto informe de recepción
sobre la transmisión de Radio Cochiguaz en la
frecuencia de 6949.4 kHz día 30 de Enero de 1999 en el
horario de 23:33-00:00 horas UTC.
100 watts power
Cordiales 73's
Radio Cochiguaz

6550, 15500, 11975 and
11685 f/d "Seventeen
Bridge Arch" cd. in 9
wks. w/ schedule and
stickers. (Barto). 9440,
11685, 11945 and 15260
f/d cd. in 2 mo. w/
schedule. (Barto-CT).

COLOMBIA: Colmundo Bogota

6065 My report was re-
turned by the PO with
a note that their PO
Box was closed. (Field-
MI).

CUBA: Radio Habana Cuba

9820 and 13720 f/d cd.
in 95 ds. w/ calendar
and ltr. (Humenyk-ONT).

ECUATORIAL GUINEA: Radio Nacional 6250 f/d cd. after numerous tries.
* v/s Hermengroes Chele. (Field-MI).

ENGLAND: Radio Japan via **Skelton** 17695 f/d "Spring Has Come" cd. in

NOTES: Steve Price of 1351 Oliver Avenue, Johnstown, PA 15909-1427
has requested the E-mail address for AFRTS in Puerto Rico. Does
anyone have it? Their address is Naval Media Center, 2701 South
Capitol Street, SW., Washington DC 20373-5819. Steve has also been
trying to QSL RTT Tunisia for 5 years with no success. The same
holds true for AIR Panaji. Any suggestions?... Sam.

42 ds. w/ pocket calendar, schedule and newsitrs. v/s Y. Fushimi.
(Humenyk). **Radio Canada International** 15325 via **Skelton** f/d "Nuna-
vut" cd. w/ schedule
and sticker in 15 ds
v/s Bill Westenhaver
(Humenyk-ONT).

**ERITREA: Voice of the
Broad Masses of Er-
itrea** 7175 via **As-
mara** f/d white cd.
in 110 ds. w/ stat-
ion business cd.
(Humenyk-ONT).

ETHIOPIA: Radio Ethiopia
9704.2 f/d cd. w/
schedule, sticker
and a personal ltr.
in 3 mo. v/s Miss
Woinshet Woldeyes,
Audience Relations
and Programme, Ex-
change Service Sec-
retary. (Barto-CT).

**EUROPEAN RUSSIA: Voice
of Russia** 6185,
7260, 7310, 9470 &
9810 via **Moscow,
Krasnodar and St.
Petersburg** sites in
50 ds. w/ schedule.
(Humenyk-ONT).

FINLAND: Radio Finland
17670 via **Pori** f/d
"Transmission and
Tower" cd. in 27 ds
w/ schedule and
sticker. (Humenyk).

**FRANCE: Radio France
International** 17575



Email: rch@espp.se, radio_cochiguaz@yahoo.com & radio_cochiguaz@usa.net

Sud América, 31 de Marzo de 1999.

Sr.
John Sgrulletta
337 Bullet Hole Road
Mahopac, New York 10541
Estados Unidos de América.

Estimado amigo oyente:

Por medio de la presente, le agradecemos por habernos enviado
su informe de recepción del pasado mes de Enero.

Confirmamos su correcto informe de fecha 30 de Enero de
1999 en 6949.4 khz, LSB, a 23:33 - 00:00* horas UTC sobre nuestras
transmisiones directamente originadas desde algún lugar de Sudamérica.

Desde algún lugar de Sudamérica, transmite Radio
Cochiguaz, siendo la voz de la amistad y música de nuestra América andina que lleva a
muchos rincones lejanos el sonido de su música, expresando el sentimiento de los pueblos
andinos al mundo.

Radio Cochiguaz, es operada desde algún lugar de
Sudamérica por quien firma la presente, contando con un transmisor valvular hídrico
que emite en LSB de 100 watts de salida utilizando una antena de 1/2 onda V invertida.

Radio Cochiguaz, es una aventura de los amantes de la radio
que un día soñaron con transmitir para los muchos diestros cazadores de nuevas señales
de lugares remotos y desconocidos. Radio Cochiguaz salió al aire en onda corta por
primera vez el pasado 1/2/1997.

Radio Cochiguaz está abierta siempre a recibir programas de
otras emisoras libres para retransmisiones en el área de Sudamérica.

En Sudamérica emitimos directamente por nuestra frecuencia
de 6950 khz, LSB esporádicamente, al menos, unas dos ó tres veces por mes.

Cordiales 73,

Radio Cochiguaz
Cuchito Mamani

Q.S.L.

A.M. 640 KHz
D.C. 4975 KHz 40 mts.
9675 KHz 31 mts.

ALCANCE NACIONAL
E INTERNACIONAL.

RADIO DEL PACIFICO



PACIFICO TELEVISION

Apdo. 4236 Lima - Perú Email: postmast@pacifico.com.pe

f/d "Toucan Antenna" cd. in 193 ds. I've been trying since 1984 to QSL France! (Borokowski-NY)...Unusual!

FRENCH GUIANA: RFO Guyane 5055

f/d "Logo" cd. in 3 mo. for \$1.00. (Molander-CA).

GERMANY: RTBF Relay 17800 via

Julich f/d "Building and Satellite" cd. w/ schedule in 13 ds. (Humenyk). **The Overcomer Ministry - Brother Stair** 11960 via **Julich** n/d ltr. w/ schedules in 3 wks. (Barto-CT). 9510 n/d ltr in 3 wks. (Barto). 3960

* same in 1 mo. (Barto). **Good**

News World Radio via **Julich** f/d cd. was rcvd. several weeks after a hand written QSL was rcvd. Both came from the Fort Worth, TX address.

GREECE: Voice of Greece 15175 f/d "Prince of the Lillies

Fresco from Knossos" cd. w/ schedule in 7 wks. (Barto). 7450 and 9420 same cd. in 3 mo. (Field-MI). 9375 and 7475 via **Kavala** f/d cd. in 3 mo. (Field-MI). 9375 and 7450 via **Avlis** f/d cd. in 6 wks. (Barto-CT). 9375 and 9400 f/d "Beach in Lefkas" cd. in 2 mo. w/ schedule. (Barto). 12105 via **Kavala** f/d cd. in 5 wks. (Barto). 9420 via **Avlis** f/d cd. in 6 wks. (Barto-CT). **Voice of America** 7200 via **Kavala** f/d "Monument Valley Tribal Park" cd. in 93 ds. (Humenyk).

GUAM: Adventist World Radio KSDA 15225 f/d cd. w/ calendar and schedule in 1 mo. (Barto). 9385 cd. in 2 mo. (Field-MI).

NOTES: Norm Constant! sent along some very nice colored copies of QSLs. Those machines do work wonders... Sam. **Jerry Klinck** hopes I enjoyed the Bruins vs. Sabres series. I can tell you the better team won. I can't stand the Bruins... Sam. **Jim Moats** sent me a very detailed schedule for Radio Free Asia. Thanks a lot. I've monitored several of their broadcasts.



HAWAII: KWHR on 17510 f/d "Globe w/ Logo" cd. in 122 ds. w/ schedule and report forms. v/s Loren Holycross, KWHR Engineering. (Humenyk-ONT).

ITALY: RAI 9680 f/d "Map" cd. w/ schedule in 62 ds. (Glottzbach-NM). f/d "Guglielmo Marconi" cd. w/ rpt. forms and a magazine in 1 mo. (Humenyk)

JAVA: Voice of Indonesia p/d "Jakarta at Dusk" cd. in 3 yrs. and 4 mo. A year ago I sent a rpt. via registered mail. It was returned unopened...like Bill Wilkins. For that report I used the address in the

WRTH, which is P.O. Box 1157. However, the address on the envelope was Jalan Medan Merdeka Barat 4&5, P.O. Box 157 Jakarta. Recommend using the latter. (George-MA).

LEBANON: High Adventure Radio

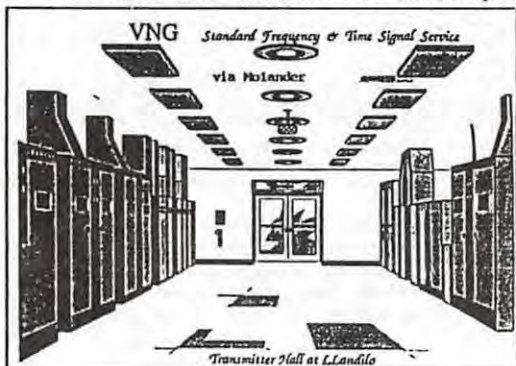
11530 via **Marjayoun** f/d cd. w/ schedule in 55 ds. v/s Gary Hull. (Stewart-MO).

MOLDOVA: Voice of Russia 9665

via **Kishinyov** f/d E-mail in 7 ds. for an E-mail rpt. (Neal-TX).

NEW ZEALAND: Radio New Zealand

International 9700 via **Ranqitaki** f/d cd. w/ schedule





RADIO "SAN MIGUEL"

VOZ DEL VICARIATO APOSTOLICO DE PANDO

CERTIFICADO DE RECEPCION AL OYENTE INTERNACIONAL

A ZEPHANO A. D'ANGELO

f/d cd. in 5 wks. w/ schedule. (Barto). 9690 f/d cd. in 5 wks (Barto).

USA (Pirates): WPN World Parody Network 6955 f/d sheet #193 in 68 ds. for 3 ms. Button and sticker were rcvd. This station was heard during the Winter SWL Fest. (Neal-TX).

VXWT Voice of Bizzaro World 6950 p/d sheet in 68 ds. for 3 ms. Rcvd. 3 1 cent stamps in return! This station was also heard during the SWL Winter Fest. (Neal-TX).

UZBEKISTAN: Radio Nederland 12070 via Tashkent f/d cd. w/ site written in All in 1 mo. w/ schedule and sticker. (Barto-CT). Radio Tashkent 15295 f/d cd. w/ schedule in 39 ds. (Borokowski-NY).

* WTTM 1680 via Princeton, NJ f/d "QSL Certificate" in 1 mo. for SASE. v/s Anthony A. Gervasi, Senior Vice President for Engineering and Technology. (Sgrulletta-NY).

Voice of America 9445 via Greenville f/d "National Archives" cd. in 93 ds. (Humenyk). Voice of Greece 15485 via Delano f/d "Beach in Lefkas" cd. in 6

wks. (Barto). f/d cd. in 3 mo. (Field). 9590 f/d "Prince of the Lillies" cd. in 7 wks. (Barto). 17705 via Greenville f/d cd. in 3 mo. (Field-MI).



RADIO CANADA INTERNATIONAL



A few late arrivals.....

AUSTRALIA: Radio Australia 21725 f/d "In Touch with the World" cd. w/ schedule in 52 ds. (Wright-NC).

BENIN: ORTB - Cotonou 4870 f/d "Logo Map" cd. in 144 ds. (Humenyk-ONT).

BOSNIA: Radio Yugoslavia 9580 my rpt. was returned by the US Post Office and marked "Service Temporarily Suspended". (Glotzbach-NM).



OCZ-9 G

OAX-9 C

OAX-9 E

COSTA RICA: Radio For

Peace International 15049 E-mail QSL

in 6 ds. for my E-mail rpt. v/s James Latham, Station Manager. (Stewart-MO).

ECUADOR: HCJB 21455 f/d "Craftsman Making a Guitar" cd. in 25 ds. for an E-mail rpt. (Neal-TX).

EUROPEAN RUSSIA: Voice of Russia 12020 via Samara f/d E-mail rpt. in 1 wk. for an E-mail rpt. (Neal-TX).

FINLAND: YLE Radio Finland 15400 via Pori cd. in 2 mo. via the US address. Transmitter site address is: Short Wave Centre, Makholmantie 79, FIN-28660, Pori. (Bueneman-MO).

FRENCH GUIANA: China Radio International 9730 f/d cd. in 26 ds. (Glotzbach-NM). GERMANY: Deutsche Welle 7275 via Wertzschal cd. in 4 mo. v/s Horst Scholz, Transmission Management. (Bueneman-MO)

NATIONAL STATION OF RADIO REPUBLIK INDONESIA

VERIFICATION CARD

Dear Mr. Anthony Scott Fiala.....

This is to verify your report on December 26th, '92

On our Indonesian frequency broadcast

On a frequency of 31.49 m (4775) KHz

Thanks for listening and please stay Tuned



Yours Sincerely
Dy. R. Basuhoro
Station Manager

Language	Transmission Time	Frequency
Indonesia	24 Hours/day	11.760 KHz
(Nation Wide)		9.680 KHz
		4.775 KHz
		900 KHz

Best of QSLing to everyone.

Sam

Contributors' Page

Fred S. Kohlbrenner
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Philadelphia, PA 19142
Internet: fkohl@ix.netcom.com

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	R8B AOR AR-7030 100' LW
Gabriel Ivan BARRERA, Buenos Aires, ARG	NRD-525 32m dipole
Ralph BRANDI, Tinton Falls, NJ	R8 PR150 Dressler ARA60
Eric BUENEMAN, Hazelwood, MO	ATS-803A MFJ-1778 G5RV antenna
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Nicolas ERAMO, Buenos Aires, ARGENTINA	Sony 2010 ICF-7600 7600G LW's
Jeff FINDLATER, Los Angeles, CA	
Mark FINE, Remington, VA	Sony ICF-2003 ICF-SW100S 2m LW
Bob FRASER, Cohasset, MA	R8 R7A DX-Ultra inverted V
Bill FLYNN, Cave Junction, OR	
Steve GEORGE, MA	
George GLOTZBACH, Santa Fe, NM	Grundig G-2000A 23' LW
Bob HILL, Littleton, MA	Sony 2010 120' dipole at 35'
Mark HUMENYK, Weston ONTARIO	Magnavox D-2935 AN-60 DX-SWL sloper
David KRAUSE, Eastlake, OH	Kenwood R600
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
George MAROTI, Mt. Kisco, NY	R8B 2010 10/45m dipoles MFJ-956 tuner
William McGUIRE, Cheverly, MD	DX-380
Jim MOATS, Ravenna, OH	FRG-7700 LW
Gary NEAL, Sugarland, TX	Grundig YB-400
Don NELSON, Beaverton, OR	HF1000A NRD-545 R7A 70' LW
Ed NEWBURY, Kimball, NE	WJ-1000 R8 60'Sloper 20' loop
Jay NOVELLO, Wake Forrest, NC	R8A LW's
Takayuki Inoue NOZAKI, Tokyo, JAPAN	NRD515 NRD535 FRG7000
Denis PASQUALE, New Brighton, PA	Sony 2010 beverage antennas
Bob RAYMOND, Nashua, NH	DX-398 20m 5/8 wave vertical
Chuck RIPPEL, Comland, VA	WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
Randy STEWART, Springfield, MO	FRG-100 w/Collins filters
Mike STRAIN, Bayville, NJ	FRG-7 DX-394 D398 MFJ1020B LW
Fred TRESHER, Philadelphia, PA	ATS-818 Sony 2010 FRG-7700
Gerald WTHAM, Keauau, HI	R8 ANC-4 135' LW
Bobby WRIGHT, Mount Airy, NC	

Thanks again to the above contributors for taking the time to send in contributions for this month's issue. I hope everyone is having a good summer. Don't forget to take a radio along on vacation and report what you hear to the Journal.

The next Scoreboard column will appear in the September issue. Please send your updated totals to me at the above address no later than August 15th. The spotlight will be on Africa. If you have never participated in the Scoreboard column before why not begin now. You don't need big totals to participate. Totals are based on the NASWA Country List, available for \$3 from Bill Oliver at 45 Wildflower Road, Levittown, PA. 19057.



Tropical Band Loggings

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

- 2310 AUSTRALIA CAAMA R 5/18 1212 EG tk, call-in C&W pgm (Nels-OR) 5/19 1113 EG pops, vy poor (Line-KS)
- 2325 AUSTRALIA CAAMA R 5/18 1212 same as 2310 (Nels-OR) 5/26 1105 EG tk, poor (Line-KS)
- 2410 NEW GUINEA R Enga 5/25 1044 lang tk, fair (Line-KS)
- 2485 AUSTRALIA R Rum Jungle 5/18 1212 same as 2310 (Nels-OR) 5/25 1036 EG tk, mx, fair (Line-KS)
- 3215 SULAWESI Manado 5/25 1129 Indo vcls (Line-KS)
- 3220 NEW GUINEA R Morobe 5/26 1123 C&W, pops, ID, conch shell, bird calls (Nels-OR) 5/25 1044 lang tk, poor (Line-KS)
- 3235 NEW BRIT R WNB 5/25 1043 lang tk (Line-KS)
- 3245 NEW GUINEA R Gulf 5/26 1130 C&W mx, pop, full ID (Nels-OR) 5/25 1043 lang tk, fair (Line-KS)
- 3255 S AFRICA BBC 5/18 0408 EG nx, poor (Line-KS)
- 3260 NEW GUINEA R Madang 5/31 1139 trumpet NA 1200* (Nels-OR) 5/25 1043 lang tk, poor (Line-KS)
- 3265 SULAWESI Gorontalo 5/13 1209 Indopop mx, ID (Nels-OR) 5/25 1130 Indo tk (Line-KS) 5/15 1253 tk, lagu lagu, ID (TIN-JP)
- 3275 PAPUA R S Highlands 5/25 1042 lang tk, poor (Line-KS)
- 3290 NAMIBIA NBC 5/18 0405 mx //3270 (Line-KS)
- 3306 ZIMBABWE ZBC 5/18 0404 lang tk (Line-KS)
- 3310 BOLIVIA R Mosoj Chaski 5/7 0103* SP/Quechua rel pgm, ID (Eram)
- 3315 ADM ISL Manus 6/10 1120 student pgm, NA, birds (Nels-OR) 5/25 1042 lang tk (Line-KS)
- 3320 SAFRICA R Sonder Grense 5/24 0423 US & Afr pops (Nels-OR) 5/18 0403 AK nx, fair (Line-KS) 6/6 0245 pop mx, AK ID (Bran)
- 3324.8 GUATEMALA R Maya 5/15 1034 orch mx, ID (Nels-OR)
- 3325 NEW BRIT R Bougainville 5/25 1124 local mx (Line-KS)
- 3325 SUMATRA Palangkaraya 5/13 1144 Indo pop mx, SCI, ID (Nels-OR)
- 3335 NEW GUINEA R E Sepik 5/29 1135 pop mx, full ID (Nels-OR) 5/25 1041 lang tk (Line-KS)
- 3344.8 MOLUCCAS Ternate 5/15 1250 lagu hiburan (TIN-JP)
- 3345 PAPUA R Northern 5/25 1125 poor (Line-KS)
- 3356 BOTSWANA RB 5/18 0359 EG talk, fair (Line-KS)
- 3375 NEW GUINEA R W Highlands 5/13 1146 mx, YL anncr (Nels-OR) 5/25 1039 lang tk, fair (Line-KS)
- 3380 GUATEMALA R Chortis 5/15 1120 Cent Amer mx, ID (Nels-OR)
- 3385 NEW BRIT RENB 5/17 1148 C&W mx, ID, NBC nx (Nels-OR) 5/25 1126 lang tk, poor (Line-KS)
- 3395 SUMATRA Bandar Lampung 5/28 1139 Indo pop mx, SCI, ID (Nels-OR)
- 3493.4v BOLIVIA R Emis. Padilla 6/2 0016 tent SP tk, disco mx, poss Alfonso Padilla ID (Hill-MA) Nice catch—sp
- 3607.5 JAPAN NHK 6/7 1235 USB tk in JP (Nels-OR)
- 3905 NEW IRELAND RNI 5/15 1154 YL ID, s/off (Nels-OR) 5/25 1127 lang tk (Line-KS)
- 3976 KALIMANTAN Pontianak 5/25 1131 Indo tk (Line-KS)
- 4000 SULAWESI Kendari 5/25 1132 Indo tk (Line-KS)
- 4003.1 SUMATRA Padang 5/13 1221 Indopop mx, ID (Nels-OR)
- 4278.5 USA AFN 6/8 0459 ads, nx, short pgms (Nels-OR) 4/4 0351 EG tk abt president CBS nx (Krau-OH)

- 4534.2 PERU *R Horizonte* 5/9 0920 tlc, jingle, ads emotional tlc (Alex)
- 4599.3 BOLIVIA *Rdf Villamonte* 5/18 1025 anmts, mx, ads (Eram-ARG)
- 4606 IRIAN JAYA *Serui* 5/25 1131 Indo tlc (Line-KS)
- 4725 MYANMAR *Vo Myanmar* 5/21 1119 mx, poor (Line-KS)
- 4748.3 PERU *R Huanta 2000* 5/28 1025 SP/Quechua mx, TC, ID (Eram-ARG)
- 4753.3 SULAWESI *U-P* 5/25 1132 Indo tlc (Line-KS)
- 4760 AND ISL *Pt. Blair* 6/11 *2325 IS, anmts, SC mx, TP, nx (Hill)
- 4775 PERU *R Tarma* 5/28 1037 mx pgm, ID (Eram-ARG)
- 4775 SWAZILAND *TWR* 5/24 0418 GM orch mx, ID (Nels-OR)
- 4777.8 BOLIVIA *R Andes* 5/28 1045 Quechua mx, cmtry, ID (Eram-ARG)
- 4779.8 ECUADOR *R Oriental* 5/9 1030 cmtry, ID, FC (Eram-ARG)
- 4779.9 DOM REP *Onda Musical* 5/30 0300* drama, ballads, ID (Alex-PA)
- 4780 PERU *R Sateelite* 5/13 0100 anmts, mx, comunicados (Eram-ARG)
- 4784.4 MALI *RTM* 5/22 0600 ID, Afr mx (Nels-OR)
- 4785.3 BRAZIL *R Caiari* 5/12 0244 anmts, mx, ment Porto Velho (Eram)
- 4789 IRIAN JAYA *Fak-Fak* 5/26 1220 Indo mx, SCI, full ID (Nels-OR) 5/25 1133 Indo vcls (Line-KS)
- 4799.8 GUATEMALA *R Coatan* 5/19 0304 mx, s/off anmts (Nels-OR)
- 4800.6 MEXICO *XERTA* 5/13 1054 class choir mx (Line-KS)
- 4820 HONDURAS *HRVC* 3/28 0430 SP cmtry (Hume-ON)
- 4824.4 PERU *LV de la Selva* 5/15 1012 chicha song (TIN-JP)
- 4825 GUATEMALA *R Mam* 5/15 1054 mx, full ID (Nels-OR)
- 4835 AUSTRALIA *CAAMA R* 5/12 0811 tlc, mx, White Xmas (Nels-OR)
- 4845 MALAYSIA *RM* 5/31 1650 Tamil mx, ID, nx (With-HI)
- 4845 MAURITANIA *ORTM* 5/30 0631 AR mx, Koran, weak (Nels-OR)
- 4845 MOLUCCAS *Ambon* 5/24 1059 temple bells IS, nx (Line-KS)
- 4855.6 PERU *R La Hora* 5/29 0955 Andean vcls, rel tlc, ID (Nove-NC)8
- 4875 IRIAN JAYA *Sorong* 5/25 1133 Indo tlc (Line-KS) 6/9 0945 lks (Ripp-VA)
- 4890 GABON *RFI* 5/31 0420 FR pgm (Nels-OR)
- 4890 PAPUA *NBC* 5/25 1045 lang tlc (Line-KS) 6/9 1010 EG nx, mx bridge, cmtry abt literacy rate (Ripp-VA)
- 4895 SARAWAK *RTM* 5/23 1056 lang pop vcls (Line-KS)
- 4910 AUSTRALIA *CAAMA R* 5/12 0819 //4835 (Nels-OR)
- 4914.4 PERU *R Cora* 6/5 1043 OM tlc & vals peruano (TIN-JP)
- 4915 GHANA *GBC* 5/13 0619 class mx, Afr pops (Nels-OR) 5/11 2310 choir, ID, sev Don Williams songs (Bran-NJ) 5/28 0540 EG/lang chorus, rel mx (With-HI)
- 4920 ECUADOR *R Quito* 3/28 0303 SP mx, sudden s/off (Hume-ON)
- 4920 INDIA *Chennai* 5/21 1128 SC mx, tlc (Line-KS)
- *4920 SUMATRA *Tanjungpinang* 5/26 1221 speech, SCI, full ID (Nels-OR)
- 4925 SUMATRA *Jambi* 5/14 1250 Indo mx, church bells, ID (Nels-OR) 5/19 1134 Indo tlc (Line-KS)
- 4939.5 BOLIVIA *R Norte* 5/12 2335 tlc abt agr, ID (Eram-ARG)
- 4940 CHINA *Vo Strait* 4/10 1112 CH cmtry, mx (Hume-ON)
- 4940 SRI LANKA *SLBC* 5/2 1620 Indian mx, phone tlc, ment Sri Lanka (With-HI)
- 4950.1 PERU *Madre de Dios* 5/22 1032 mx, TC, ID (Eram-ARG) 5/9 0915 tlc, folk mx, anmts, ID (Alex-PA)
- 4965.1 BOLIVIA *R Juan 23* 5/12 2349 mx, ID (Eram-ARG)
- 5019.8 NIGER *LV du Sahel* 5/24 0438 tribal mx, FR tlc (Nels-OR)
- 5020 SOL ISL *SIBC* 5/26 1049 lang tlc, BBC nx (Line-KS) 5/26 1040 mx, TP, ID, nx (Ripp-VA) 6/13 0945 PSAs, ment Malaysia chorus, some EG tlc (Pasz-WI)
- 5030.1 COSTA RICA *AWR* 5/16 0011 rel mx, drama, ID //9725 (Alex-PA)
- 5100 LIBERIA *R Liberia* 5/15 0002* EG nx, Afr mx, NA (Alex-PA)
- 5637.3 PERU *R Peru* 5/23 1050 anmts, mx, TC, ID (Eram-ARG)
- 5678 PERU *R Ilucan* 5/29 1055 tlc & messages (TIN-JP)
- 5700 PERU *Frec San Ignacio* 5/13 0020 folk mx, comunicados, TC (Eram)

International Band Loggings

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

- 59492v PERU *R Arequipa* in SP 1113, relig pgm w/several hymns, ID, p (Nozaki JAPAN 5/15)
 5950 GUYANA *GBC* in EG 0845, Hindi vcls, lcl pops, various greetings, TC's, g (Alexander PA 5/4)
 5960 SOUTH AFRICA *AWR* in EG 0500, relig pgming and mx, Afro style mx, f (Alexander PA 5/23)
 5995 MALI *RTV Mallenne* in FR/VN 0614, African mx (drums, kora), //47844 (Brandt NJ 6/3)
 6010 MEXICO *R Mil Mexico City* in SP 0441, frequent ID's, soft Spanish rock mx (Nelson OR 5/27)
 6040 ANTIGUA *Deut Welle* relay in EG 0115, Hungary financially hurt by NATO bombings (Newbury NE)
 6140nf? CUBA *R Rebelde* in SP 1100, nx, canned ID, ancmts, //9600 (Brandt NJ 5/12, Nozaki JAPAN 5/15)
 6155 PERU *R Fides La Paz* in SP 1113, nx, ads, ID "...desde Cochabamba para R Fides" (Eramo ARG 5/22)
 6155 UNITED KINGDOM *R Japan* relay in EG 0000, IS, ID, rpt on China, S Africa voting (McGuire 6/4)
 6160 ANTIGUA *Deut Welle* relay in EG 0945*, rpt on Indonesia, ID, sign off, g (McGuire MD 5/21)
 6180 UNITED ARAB EMIRATES *Abu Dhabi* in AR 0200, IS, NA, ID, Koran 0206 (Maroti NY 6/3)
 61881v PERU *R Oriente Yurimaguas* in SP *1000, NA, long canned opening ancmt, cumbia peruana, huaynos, Holy Bible reading, ID (Nozaki JAPAN 5/15, Eramo ARG 5/18)
 61955v PERU *R Cusco* in SP 0113, huaynos mx, TC's, ID, f (Eramo ARGENTINA 5/7)
 66745nf? PERU *R Super Nueva Sensacion Huancabamba* in SP 0958*, NA, musical pgm, ID (Eramo ARG 5/23)
 6675v PERU *R Dif Paraton Huarmaca* in SP 0029, "Ambiente Tropical" mx pgm, TC, ID (Eramo 5/12)
 6712nf? CONGO *RTNC* in Vern 0410, in USB mode, vcls, phone tlk, speech, ment C Africa (Witham HI 5/9)
 69554nf PERU *R Dif Paraton de Huarmaca* in SP 0115, ID's, modern LA mx, infrequent tlk by DJ, occasional QRM from pirates, 0307* signoff with canned ID but no NA (Novello NC 6/20, Maroti NY 6/15)
 7340 BOTSWANA *VOA* relay in Kirunda 0330, ID in EG, then into Vern, African nx (McGuire MD 6/4)
 70033 PERU *LV de las Huarinjas Huancabamba* in SP 2328, huaynos, Andean mx, ID, TC (Eramo ARG 5/7)
 70982 INDONESIA *RRI Yogyakarta* in IN 1240, mellow Indonesian vcls, tlks, f (Nozaki JAPAN 5/15)
 71252 GUINEA *RTV Guineenne* in FR *0557, guitar IS, ID, into nx in FR (Nelson OR 5/11)
 7185 MOROCCO *VOA* relay in Croatian *0430, newly added xmsn, ID in EG, mostly good (Treibel 5/29)
 7210 BELARUS *R Minsk* in EG 0203, nx, cmntry on relations w/Indonesia, ID 0214 (Brandt NJ 6/2)
 7225 RWANDA *Deut Welle* relay in EG 0405, ID, rpts on Kosovo and So Africa, p (McGuire MD 6/4)
 7275 SOUTH KOREA *R Korea* in FR 1750, tlks by YL & OM, ID 1800, then in GM lang (Witham HI 5/31)
 7295 UNITED KINGDOM *R Canada* relay Skelton in EG 0500, IS, ID, national nx, p (McGuire MD 6/11)
 9365nf? ARMENIA *R Liberty* relay in lang? 0158*, faux-reggae mx, ID "Radio Svoboda" (Brandt NJ 5/26)
 9400 BULGARIA *R Bulgaria* in EG 0205, rpt on export of Bulgarian foods, ID, wx rpt, cmntry re Kosovo (Witham HI, 5/16, McGuire MD 6/8) in EG 2330, feature on "History Club", //11700 (Fraser MA 5/12)
 9445 TURKEY *V of Turkey* in TK 2330, traditional vocals w/great Suntut solos, g (Robinson TN 5/21)
 9510 ROMANIA *RRI Bucharest* in EG 0200, nx re Kosovo, ID, //9570 (Humenyk ONT, McGuire MD 6/3)
 9560 CANADA *China R Int* relay Sackville in SP 0300*, ID, IS, regional nx, f/QRM (McGuire MD 6/3)
 9565 INDONESIA *RRI Jakarta* in IN 0844, Indo pop mx, ID 0900 by YL (Nelson OR 5/15)
 9570 ROMANIA *RRI Bucharest* in EG *0200-0255*, nx, cmntry, lcl mx, many //s (Alexander PA 5/8)
 9600 OMAN *BBC* relay in BM/EG 0010, tlk in BM, into EG lang lesson, ID 0029 (Brandt NJ 6/2)
 9615 ALASKA *KNLS* in EG 1329, ID's, short features, relig tlk, f, much fading (Krause OH)
 9655nf CHINA *CPBS-1* in CH 2248, new fqy with OM & YL in lang, f, choppy, //10260 (Hill MA 6/8)
 9675 ITALY *RAI Rome* in EG 0050, parliamentary debate over new Pres, //11800, 15240 (Fraser MA 5/13)
 97049v MEXICO *R Mexico Int* in EG 1400, soccer nx, "Mexico to the World", g (Robinson TN 5/5)
 9715 FRENCH GUIANA *R France Int* relay in FR *2300, ID, NA, into regional nx, g (McGuire MD 6/3)
 97417 INDONESIA *RRI Irian Jaya Sorong* in IN 0744, US pop rx, splat by HCJB *0758 (Nelson OR 5/15)
 9770 SEYCHELLES *BBC* relay in EG 0225, tlk re US-China relations, stock mkt rpt, pgm preview, Andy Kershaw's "World of Music" w/piano mx from London Theater, f-p (Moats OH 6/4)
 9815 GERMANY *Deut Welle Wertachtel* in EG 2310, rpt on economic summit, f (McGuire MD 6/3)
 9830nf VIETNAM *V of Vietnam* in EG 0340, tlk re CH embassy bombing in Belgrade, travelog (Witham HI)

- 9840 HUNGARY R *Budapest* in EG 0257*, rpt on horseback riding, ID, QTH, g (McGuire MD 6/4)
- 9845 NETHERLAND ANTILLES R *Nederlands* relay in EG 0013, rpt on food preferences (Newbury NE)
- 9900 EGYPT R *Cairo* in EG 2305, rpt on museum in Alexandria, AR mx, QRM (McGuire MD 6/2)
- 9965 PALAU *KTWR V of Hope* in Mandarin/EG 1211, English Bible lesson (Nelson OR 5/22)
- 11000 CHINA *CPBS* Beijing in CH 1230-1400*, CH mx w/YL anncr, nice clear channel (Rippel VA)
- 11600 SLOVAKIA *AWR V of Hope* in EG 0130, relig pgming w/ID & xmtr site, into Punjabi lang at 0200, poor signal under uniform station but in the clear 0200 (Alexander PA 5/23)
- 11600nf BULGARIA R *Bulgaria* Sofia in SP 0115, cmntry re Kosovo, ID, f, //9415, 9700 (McGuire MD 6/12)
- 11600 CZECH REPUBLIC R *Prague* in EG 2230, lcl unemployment 8.2%, tlk on bank privatization, exc (Robinson TN 5/13) in EG 0340, nx, election results, ID (Newbury NE 6/1)
- 11650nf AUSTRALIA R *Australia* in EG 1530, new fqy in // to adjoining 11660, pgm on diet matters, nx, ID as "Across Australia, This is Radio National"-domestic relay?, exc (Treibel WA 6/7, Newbury NE 5/31)
- 11655nf TURKEY V of *Turkey* in EG 0333-0350*, TK mx, feature on archeological dig (Nelson OR 5/22)
- 11675 KUWAIT R *Kuwait* in AR 0347, AR pop mx, singer accompanied by instruments (Newbury NE 6/1)
- 11725 ROMANIA *RRI* Bucharest in EG 0201, regional & world nx, cmntry on Cologne EU summit, press review, feature on Bucharest book fair, //9510, 11740, 17735 (Moats OH 6/4, McGuire MD 6/4)
- 11725 SOUTH KOREA R *Korea* in EG 0245, singing, "1999 competition", listed // 11810 (Newbury 5/31)
- 11775 CHINA *China R Int* in PL 2027*, CH mx, IS, multi-lingual ID's, listed // s 6150, 7235 (Witham HI)
- 11800 ITALY *RAI* Rome in IT 2320, IT opera selections, ID, Baroque mx (Newbury NE 5/30, McGuire 6/9)
- 11804 BRAZIL R *Globo* Rio de Janeiro in PT 0951, "Bom Dia Brazil, Bom Dia Globo", ID (Nozaki JP 5/16)
- 11810 GREECE *VOA* relay Kavalla in EG 0225, nx, feature, ID, wx, Press Conference USA (Moats OH 6/5)
- 11865nf ECUADOR *HCJB* Quito in GM 0430, relig mx, ID's "Stimme der Anden" and "aus Quito...HCJB" armchair copy, apparently in Russian or Ukrainian prior to 0430 pgm in GM (Brandt NJ 6/9)
- 11900 ITALY *RAI* Rome in EG 2219, varied mx, ezl ballads, instrmls, jazz, //9675, f (Humenyk ONT 4/10)
- 11955 OMAN *BBC* relay Masirah in EG 0215, ID, mainly regional nx, p (McGuire MD 5/23)
- 11960 NORWAY *RNI* in NO 0000, ID in EG, Kosovo nx, some EG soundbites (Findlater CA, McGuire MD)
- 11970 IRAN *IRIB* Teheran in EG *0030, IS, ID, NA, fqy, sked, Koranic chants, f w/qrm (McGuire MD 5/24)
- 11985nf ANTIGUA *Deut Welle* relay. New fqy in GM *0600-0800*, IS, all GM pgmg, exc (Findlater CA 6/1)
- 12005 PHILIPPINES *FEBC* in Minang 1030*, ending pgm in lang, abruptly off during IS, f (Hill MA 6/13)
- 12015 MONGOLIA V of *Mongolia* in lang/EG 1200, IS, ID in EG, into nx pgm (Rippel VA 5/28)
- 12060 SWEDEN R *Sweden* in EG 0330, local nx, wx rpt, "60 Degrees North", //9495 (Krause OH 5/4)
- 12115nf KAZAKHSTAN R *Almaty* in KZ/RS 0000, IS, jingle in EG?, tlk, pop mx (Maroti NY 6/9)
- 126895 PUERTO RICO *AFRTS* in EG 0645, usb xmsn, nx, info quips, ID, //64585, g (Witham HI 5/6)
- 13625 SWEDEN R *Sweden* in EG 0130, rpt on the Royal Dramatic Theater in Stockholm, g (McGuire 5/23)
- 13635 SWITZERLAND *SRI* in FR/EG 0530, end of FR svee, ID, rpt on tourism, mx, g (McGuire MD 6/4)
- 13695nf TURKEY V of *Turkey* in EG 1900, English history lecture, AR mx segment, g (Newbury NE 5/17)
- 13720 INDIA *AIR* Bangalore in HD *1515, usual s/on mx, ancmts, sub-cont mx non-stop, f (Flynn OR 6/9)
- 13750 SRI LANKA *Deut Welle* relay in IN 2200, repetitive IS, ID, bridge mx, fqy, p (Humenyk ONT 4/10)
- 13790 PORTUGAL *Deut Welle* relay Sines in EG *0600, IS, ID, Kosovo rpt, ment Nigeria, f (McGuire 6/11)
- 15105nf NETHERLAND ANTILLES *Deut Welle* relay Bonaire in EG 0300, nx re NATO bombing people on bridge in Yugoslavia, pgm re church in Germany during WW II (Newbury NE 5/31, Krause OH 4/4)
- 15150nf IRAN *IRIB* Teheran in EG *1530, tlk re relations w/Iran's neighbors, Kosovo, //13605 (Flynn OR 6/3)
- 15165nf CHINA *China R Int* in Khmer *1030, new fqy for Khmer, //9440, bad QRM after 1100 (Hill MA 6/3)
- 15190 PHILIPPINES R *Pilipinas* in EG 1800, ID, pop mx pgm to 1930*, NA, g //17720 (Findlater CA 6/1)
- 15505 KUWAIT R *Kuwait* in AR 2000, tlk in AR to 2005, long chants, //15495 (Fraser MA, Findlater CA)
- 15540nf RUSSIA *Deut Welle* relay Moscow in GM 1700, ID, xmsn targeted to MidEast (Newbury NE 5/31)
- 15545nf CZECH REPUBLIC R *Prague* in EG *2230, IS, ID, political nx, g, //11600 (McGuire MD 6/3)
- 15565nf NETHERLAND ANTILLES *RVI* Belgium relay from Bonaire in EG 2240, rpt on farming crisis, press review, mention of national elections, g (McGuire MD 6/3)
- 15585nf PORTUGAL *RDPI* in PT *0500, ID, DJ w/PT mx, nx at 0600, g (Findlater CA 6/2)
- 17500nf NORWAY *RNI* in NO *1900, ID, nx re Kosovo, R Denmark relay at 1930, ex 17505? (Findlater 6/4)
- 17510nf IRAN *IRIB* Teheran in Malay 1247, cmntry by OM, bridge mx, //15590, f (Humenyk ONT 6/10)
- 17535 ISRAEL *Kol Israel* in FR 1530, nx re Tel Aviv, municipal elections, "Jihad Islamic" (Robinson TN)
- 17545 ISRAEL *Reshet Bet* in HB 0739, telephone interview in HB, //15615 (Brandt NJ 6/3)
- 17560nf AUSTRIA *RAI* in GM 1536, opera mx presented by YL, //15240, 13730, g (Humenyk ONT 4/10)

- 17580nf **AUSTRALIA RA** in EG 0258, stock mkt rpt, ID, nx, "Australia Talks Back", //1515 (Moats OH 6/3)
 17595nf **GERMANY Deut Welle** Wertachtel in Urdu 1500, xmsn to South Asia, tlks, Mideast mx, ID, address, and into Hindi lang at 1515, fair but clear signal, listed //9875 not audible here (Treibel WA 6/11)
 17660 **ECUADOR HCJB** Quito in EG 1920, "Studio 9", effects of Hurricane Mitch (Fraser MA, Krause OH)
 17630 **GABON Africa #1** in FR 0748, ID "Afrique Numero Un", into "War" by Edwin Starr (Brandt NJ 6/3)
 17790 **THAILAND BBC** relay in EG 0002, nx, promo, ID with web site address (Brandt NJ 5/22) ED: The April '99 BBC schedule lists this xmsn as coming from Singapore. Probably moved to Thailand in May.
 17800 **BELGIUM RTBF** in FR 1650, jazz mx, nx, IS, ID in FR/EG (Witham HI 5/29, Humenyk ONT)
 17860 **JAPAN R Japan** in CH 0650, CH mx, NHK ID, //17870 off 0700, 17860 continued (Witham HI 5/3)
 178951 **PAKISTAN R Pakistan** in EG 0230, slo-speed? nx to 0244, ID, only a brief xmsn with abrupt s/off at 0245, noted // on 154852 (Fine VA 6/1, Brandt NJ 6/2)
 21715 **TURKEY V of Turkey** in TK 0340, TK mx, multiple ID's "Burası Turkiyenin sesi Radyosu" and IS, // 's on 9445 and 94460 (Brandt NJ 6/1)
 21730nf **NORWAY R Norway** in NO 1805, nx, ment Kosovo & Yugoslavia, ID in EG, IS, g (Witham HI 5/3)
 21730nf **NORWAY R Denmark** relay in DN *1730 after completion of R Norway xmsn, continuous dialogue by two OM's, //17505, both fqys good level (Treibel WA 6/15)
 21745nf **CZECH REPUBLIC R Prague** in CZ *1730, IS, ID in several langs, into nx, f (Treibel WA 6/15)
 21820nf? **RUSSIA Radiostansiya Tikhyy Okean** in RS? 0145, RS pop mx, ID 0158, tlks (Novello NC 6/20)

Clandestine, Tentatives, Presumed, or Unknown

- 60457 **PERU(p) R Santa Rosa(p)** Lima in SP 1015, long tlk, distorted audio, blown away by HCJB on 6050 when pulsing carrier came on at 1020 negating any chance to get positive ID (Novello NC 5/29)
 71651 **NAMIBIA(t) NBC?** in Vern 0525-0630+, Afro choral mx, adjacent channel QRM (Alexander PA 5/30)
 7245 **ALGERIA(t) RTV Algerienne(t)** in AR 0434, AR mx and chanting, weak signal (Nelson OR 5/31)
 11650 **NO MARIANAS(p) KFBS(p)** in RS 1021, sermon and gospel vocals in RS, QTH at 1030 of PO Box in Germany, fairly strong signal but choppy and hummy (Hill MA 6/1)
 11905 **SRI LANKA(p) SLBC Colombo(p)** in lang? 1250, tlk, mx, singing, signal faded rapidly by 1300 with just the sounds of percussion instruments hrd by 1301 (Costello NJ 6/13)
 15105 **UNKNOWN SITE Deut Welle** in EG *0200, ID, nx, "Newslink" at 0205, press review, //11945, f, believed to replace 15560 (Moats OH 6/3) ED: The April DW xmsn sked lists the Bonaire relay in EG on this fqy from 0300-0345 (see report above). Could be they decided to start EG xmsn an hour earlier from the Bonaire relay??
 15695nf **CLANDESTINE R Free Asia** relay Dushanbe, Tajikistan in Tibetan *0100-0200*, announces RFA Channel 4" at s/off, muffled audio but strong sig with polar flutter (Hill MA 6/12)
 17595 **VIETNAM(p) V of Vietnam(p)** in VT *0400, nx?, ment NATO, Albania, Hanoi, strong signal, might be a relay from ?? (Findlater CA 5/31)
 17700 **UNKNOWN** in lang? *0600, ID not readable, long tlk, continuous AR type mx, g (Findlater CA 6/3) **SW**

1999 North American DX Championship Winners Announced

Log scoring of entries in the ANARC (Association of North American Radio Clubs) sponsored 1999 North American DX Championships has been completed. The NADXC this year was designed as a DX contest with scoring based on the number of countries and stations heard (with bonus stations) on shortwave broadcast bands in a 48-hour period.

ANARC is pleased to announce that the winner of the 1999 North American DX Championships is **Robert T. Gearing** of Palm Beach Gardens, FL. Gearing's winning entry totaled 59,920 points, computed from reception of 211 stations in 112 countries (based on the country list of the North American Shortwave Association).

Second place, with 48,410 points, went to **Bill Breeden** of Omaha, NE (Bill was the third place winner in 1998). The third place finisher (30,076 points) was **Bruce Churchill** of Escondido, CA. The top three winners will receive plaques from ANARC. All participants will receive certificates indicating their place of finish in the 1999 North American DX Championships.

ANARC congratulates the winners and encourages everyone to take part in next year's world-wide shortwave listening contest.

Dr. Harold Cones, for the NADXC Administrative Committee.

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4. **COOK ISLANDS / FIJI / TAHITI GRAB BAG:** Frankly unbelievable collection gathered on-the-scene in the South Pacific: 20 snapshots of Radio Cook Islands, studio, manager Nooroa Tangueroa, mobile unit, logos, broadcasting booth, etc.; Rare copy of Nooroa's 20 page proposal to upgrade RCI, complete with detailed technical history of station as well as The Cooks, architect's drawings, station equipment info, etc. Priceless!: 2x3 wall map of Raratonga in full color, lovely; 20 great mint condition pic postcards of the Cooks, Fiji, Tahiti, including striking subset of lusty island girls; 4 clothing sew-in crests of Fiji and Raratonga, new in packages; 3 lovely car window stickers for Raratonga, new in packages. Cook Islands driver's license; tourist brochure on what to see/do in Cooks; small map of downtown Papeete, Tahiti. **\$60**

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6. **POTLUCK:** sticker from RTV Hong Kong; old QSL cards (late 60s, early 70s) from Rdif. de Timor (Dili), Karachi, Chad, R. Dublin, N. Nordsee Int'l (famed Europirate pioneer), Vo of Asia, DW; six station stickers from Europirates; large pennant from R. Beijing. **\$20**

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