

NASA

the JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

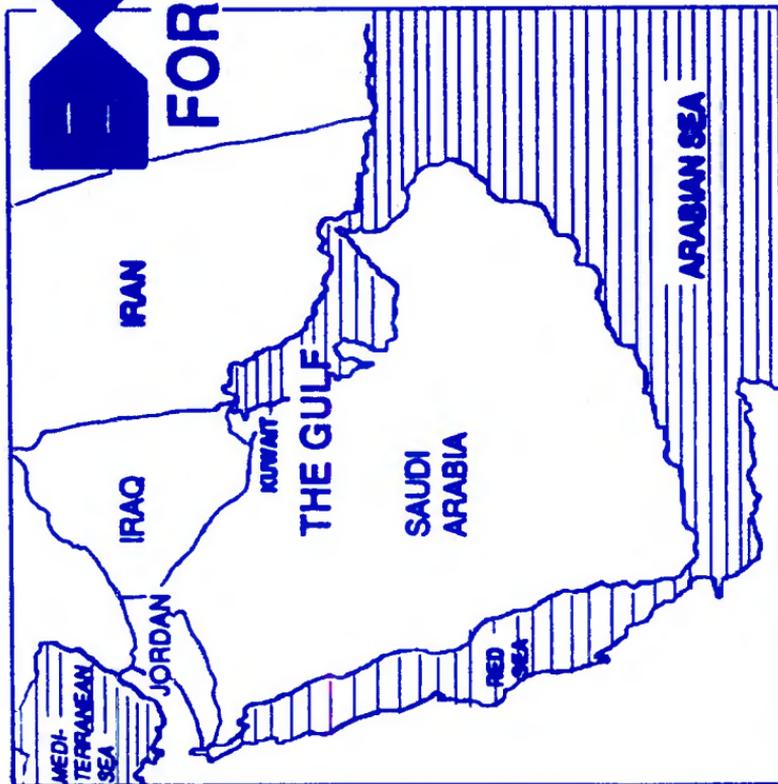
VOLUME XXXVIII NUMBER 2

FEBRUARY 1998

EXES FORCES RADIO

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The Drake SW-1 sets the stage for worldwide shortwave listening with ease, simplicity and clarity. The SW-1 offers superb sensitivity, selectivity and full audio. Coverage from 100 through 30000 kHz provides solid coverage of longwave, medium wave and shortwave in the AM mode (no SSB). This makes it an ideal broadcast receiver for the desk or bed-stand. Tuning is a snap via the keypad, manual tuning knob, Up/Down buttons or 32 programmable memories. The LED display is positively huge for easy accurate frequency readout to 1 kHz. Antenna input is via a 50 ohm terminal or SO-239 jack. A 1/8" mini jack is provided for use with earplug or headphones (not supplied). Includes AC wall adapter for operation from 120 VAC 60 Hz. 10.875"x4.375"x7.625" 4.7 Lbs. One year limited warranty. Made in Ohio! Special sale price valid to 3/15/98.

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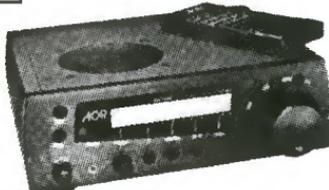


The RF Systems' Magnetic Longwire Balun makes it possible to efficiently use a coaxial lead-in cable with all forms of wire antennas, without the need for an antenna tuner. For receive only. -1.40 MHz 50 ohm SO-239. Made in Holland. MLB #184 \$59.95 (+\$4 UPS)

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AR-7030 & AR-7030 PLUS

The AR7030 represents the very latest and best design featuring exceptionally strong signal handling and is bristling with enhanced features. The AR7030 has been targeted to



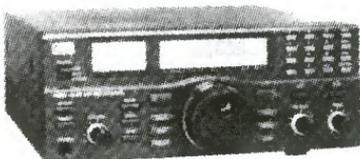
handle strong signals that are of prime concern to European listeners. It offers greater than -35dBm IP3 (intercept point 3) and greater than 100 dbm dynamic range. This coupled with excellent selectivity make the AR7030 a strong choice for the shortwave broadcast listener or DXer. Although performance is excellent, features have not been forgotten. You get: Synchronous AM, Passband Tuning, six levels of attenuation, dual VFOs and 24 hour clock-timer. The 100 scannable memories store frequency, bandwidth, PBS, Squelch and BFO settings. The two line 48 character backlit LCD gives you the status of the receiver. The supplied full-featured 32 button infrared remote provides access to virtually all facilities including: volume, tone, numeric keypad, memories, PBT, filter selection, etc. A remote RS-232 level port (DIN) is also provided for computer control. Made in England. Includes 120 VAC wall transformer.

The "Plus" version retains all of the regular AR7030 features and includes the following: Increase balance of the mixer, high tolerance, low noise components, 400 total memories, multi-timers, alpha tagging, enhanced RF attenuator, higher spec. antenna input, ceramic metal cased 4 kHz filter. Typical bandwidths are: 9.5, 5.3, 4 and 2.2 kHz. In stock now! Call for latest pricing on the AOR AR-7030 and AOR AR-7030+

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Japan Radio Co., Ltd.

NRD-345



Famous for its top-gun receivers, Japan Radio Company once again pioneers with a brand new model at a surprisingly affordable price. This incredibly attractive and compact radio delivers hour-after-hour of listening pleasure with high dynamic range and synchronous AM detection to help tame fading. Dual IF filters (6.2 kHz) are supplied, with a third optional position available. Tuning the radio is smooth as silk via the large indented main tuning knob. The easy-to-read LCD type display shows you the precise frequency to 10 Hz! The variable Noise Blanker is effective against pulse and ignition interference. The sophisticated memory system stores 100 channels with frequency, mode, AGC, attenuator, VFO, bandwidth and NB status parameters all stored. Both memory and frequency scanning are supported. The Clock-Timer function enables the radio to turn on and off at a specific time and the clock can be set for UTC or local time. The Tone Control, AGC and 20 dB Attenuator let you refine the signal to your personal taste. Other refinements include an analog S-Meter, Tilt-Bar, Up/Down Tuning buttons, Dual VFOs and Dial Lock. Rear panel jacks include: External Speaker, Record Jack, RS232 port, FAX/RTTY Line Out and DB-25 RS-232C port. Switch selectable dual antenna inputs are featured to support both wire-type or coaxial-type lead ins. In stock now. NRD-345 List \$899.95 Order #0345 \$799.95 (+\$10 UPS)



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Universal's free 1998 100 page catalog covers everything for the shortwave, amateur and scanner enthusiasts. With informative photos and full descriptions. To request your copy please call toll-free:

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NASA Notes

Richard A. D'Angelo

2216 Burkey Drive

Wyomissing, PA 19610

Genie: R.DANGELO3

Internet: r.dangelo3@genie.com

Here's a reminder that the 11th edition of the Winter SWL Festival in Kulpsville, the most popular gathering of hobbyists ever assembled in North America, will take place on 12-14 March 1998. Time is beginning to run out; it's time to make your plans now. Check the Calendar of Events and January's Journal (page 60) for a registration form. As usual, I look forward to meeting many of our members at this year's event. I hope to see many of you there!

Last month's cover carried a subtle reminder about our country list and awards program. Now, it's time to place your order for the club's Country List and Awards Program booklet. It's available exclusively through the Company Store (705 Gregory Drive, Horsham, PA 19044) for only US\$3.00 in North America. The booklet is 3-hole punched in an 8 x 11 format which allows for easy updating. The list has been re-organized into a user friendly format which should make it more attractive to newer members and old timers alike. This is essential material for any serious DX'er. It's a "must" in every DX shack. Congratulations to Chairman **Don Jensen** and his entire committee for a job well done.

Clandestine DXpert **Mathias Kropf** provides his 1997 Clandestine Activity Survey. The activity of political clandestine stations on shortwave decreased by 50 Weekly Broadcasting Hours (WBHs) to 1460 WBHs worldwide, a drop of 3.3% when compared with last year. Looking at the developments on the various continents, clandestine activity to Asia increased by 4 to 965 WBHs, activity on the African continent increased by 31 to 316 WBHs while activity on the American conti-

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave, medium wave and longwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Contributions are also accepted via the Internet Relay Chat (IRC) channel #swl while the net is in progress. Net Controls Dave Kirby N1DK, Hausie WB4JSP, and Bob Curtis W1EXZ host an always lively gang of DX monitors. (Best heard in the eastern half of NAm) Net info is also available at <http://www.trsc.com/swl_net.htm>. If you miss the net, you can hear it in RealAudio on the Internet, on Dave Kirby's home page, <<http://www.ncweb.com/users/dkirby/>>. Dave also posts text versions of loggings.

ment dropped by 57 to 179 WBHs. When compared with 12 months ago the number of active target areas (countries) worldwide decreased by five to 21. The target areas that are no longer active are Saudi-Arabia, Egypt, Burundi, Morocco and Papua New Guinea. The three most active target areas worldwide are Iraq with 254 WBHs (-7 when compared with last year), North Korea with 238 WBHs (+28) and Iran with 204 WBHs (+25). Mathias has been publishing the survey annually since 1986.

From **Jeff White** we learn that the Fourth National Meeting of Mexican DXers will take place July 31-August 2, 1998 in the city of Tehuacan, in Puebla State—about three hours southeast of Mexico City by car or bus.

Our Motto is - "Unity and Friendship"

Contribute!

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

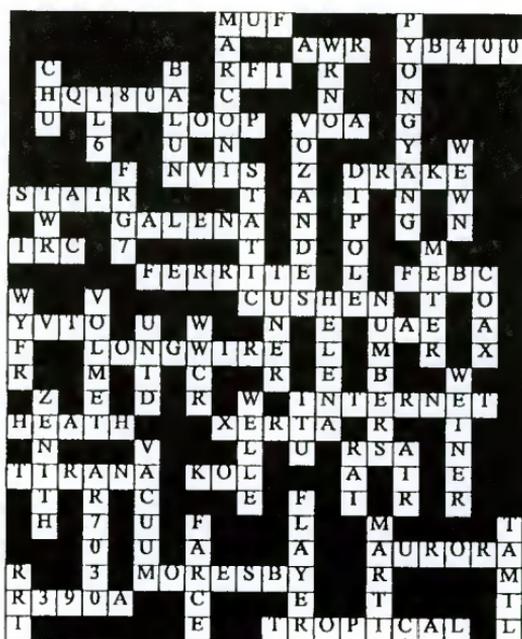
A tentative program for the DX meeting has been announced by organizer **Erika Guerrero Buendia**, including seminars on "Radio in Cyberspace," "Dxing in Mexico and the New Millennium," "Perspectives on the University Station," "Youth and DXing," "Tourism Promotion through Shortwave Radio," and "Culture on Shortwave Radio." Other convention sessions will deal with how to choose a receiver, how to make a reception report, how to form a DX club and how to make an external antenna. "Stamp Collecting and Shortwave," clandestine stations and environmental programs on shortwave radio are the topics of other seminars. There will also be a welcome dinner, a tour of Tehuacan and the surrounding area, and round table discussions with DX club leaders and radio station representatives. All shortwave listeners and broadcasters throughout Mexico and around the world are invited to take part in the Mexican National DX Meeting in Tehuacan. A basic knowledge of Spanish will be helpful, as most convention activities will be conducted in Spanish. If there is sufficient interest, there may be activities in English as well. The meeting site is accessible by very comfortable deluxe buses from Mexico City's international airport. Hotel and conference costs will be minimal in order to permit the maximum number of people to attend. For more information on the Fourth National Meeting of Mexican DXers, contact Jeff White, coordinator of international attendees:

At right: Answers to last month's special crossword puzzle, courtesy of Gary Thorburn.

Mexican National DX Meeting
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Miami, Florida 33152 USA
Telephone: +1-305-267-1728
Fax: +1-305-267-9253
E-mail: wrm@compuserve.com

Finally, we close with a bit of sad news sent to us by member Giovanni Serra in Italy: "unfortunately, I have to announce the sad news of the sudden death of **Alberto Gandolfo**, President of A.I.R. (Associazione Italiana Radioascolto - Italian listening association) at the age of 54."

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



Calendar Of Events

Feb'98 Convention. **New Zealand Radio DX League** will hold its 50th anniversary convention at Camp Iona starting on Thursday February 5th at 3:00 PM and conclude on Sunday February 8th. Information and registration form is available from Paul Ormandy, 33 Greta Street, Oamaru, New Zealand or via e-mail <paulorm@es.co.nz>.

Feb 20 Meeting. **Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.

Feb 20 Meeting. **Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 508-470-1971 or Internet: 74007.3434@compuserve.com. Check the BADX Web Page: <<http://www.grove.net/~badx/>>.

Feb 21 Meeting. **The Miami Valley DX Club** (all band orientation) meets at 1:00 PM. For more information plus this months meeting location contact Dave Hammer at 614-471-9973 or write to MVDXC, Box 292132, Columbus, OH 43229-8132.

Mar'98 Contest. **1998 North American DX Championships.** Further information will be published in the Journal or you can send a self-addressed stamped envelope to 1998 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.

Mar 8 Meeting. The **Tidewater SWL's** meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net

Mar'98 Convention. The **11th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 13-15 March 1997. Organized by the infamous "gang of three" (Messrs. Brown, Cones, and Field) this all wave gathering attracts about 200 hobbyists each year.

Mar 14 Meeting. The **Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-777-5296 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>>

Apr'98 Convention. The **35th Annual International World Wide Continental DX Association (IWWCDXA)** will be held in Tahiti at the Charlie Loudenboomer Estate on April 1, 1998 from noon until midnight. Charlie will lecture continuously during this 12-hour period on a variety of boring subjects some of which may actually pertain to shortwave radio. Registration fee is a modest \$150.00 with an extra \$50.00 charge for the traditional hamburger helper banquet. More information is available from Charlie at <cl@sucker.com>.

Jul'98 Convention. The **4th National Meeting of Mexican DXers** will be held in Tehuacan, Mexico on 31 July-2 August. All shortwave listeners and broadcasters throughout Mexico and around the world are invited. A basic knowledge of Spanish will be helpful, as most convention activities will be conducted in Spanish. For more information contact Jeff White, coordinator of international attendees, c/o Radio Miami International, P.O. Box 526852, Miami, Florida 33152 USA, Telephone: +1-305-267-1728, Fax: +1-305-267-9253, E-mail: wrmi@compuserve.com.

Aug'98 Convention. The 36th annual **European DX Council conference** will be held in Gothenburg, Sweden on 28-31 August 1998. It will be organized by the Swedish DX Federation. More details to follow.

Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: r.dangelo3@genie.com) or Ralph Brandi (Internet: ralph@mcs.com).

Musings

This column provides a forum whereas 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 - r.dangelo3@genie.com

Peter John Das, P.O. Box 370926, Reseda, CA 91337

Do you know of any way by which I could use the power wiring of my apartment house as a long-wire antenna for my shortwave radio? It seems to me that this wiring would collect a strong RF signal from radio stations worldwide, but my question is how could I tap off the RF signal for my antenna while blocking out the 120 VAC power from the radio antenna connection? Do you know of any equipment, device, or system by which I could utilize this wiring strictly as a long-wire antenna, without bringing any 120 VAC into the radio? My phone number is (818) 344-8589. I hope you can advise me of some way to pass the RF signal from the house wiring into the radio antenna connection while blocking out the 120 VAC from the radio.

Albert Arnold <arnoldaj@juno.com>

I have been listening to radio since I was 14. My first radio was a Hallicrafters S-120. When I went into the Service and was stationed in Alaska I purchased a Lafayette HA-600A communications receiver (1974). While I was in the Service my assignment was signal search and development using a R-390 receiver and other associated monitoring equipment. When I moved back to Virginia and finished my 4 years, I purchased a YAESU FRG-7700 (1984). I have been using it since. This X-mas my wife gave me a SONY ICF-2010 so I can take it with me when I travel. I joined your club to see what others listen to (I have been a member since September 97), I was a member of SPEEDX. (They folded sometime in 95 or 96.)

Enough about me. I enjoy your format and information in your Journals. I also subscribe to Monitor Times.

I can't say I dedicate much time to shortwave radio, but, my wife, seems to think so!!

Best regards, Albert

FRENDX: Twenty Five Years Ago....

Headquarters began looking for someone to act as a distributing editor for the Log Report. In March the Flashsheet is scheduled to reappear with Al Niblack returning to the helm for two issues per month. Larry Magne's Clandestine column featured South Vietnam's best-known clandestine station, Liberation Radio. In Al Sizer's Shortwave Center, Don Jensen provides "The Inside Story On Foreign Broadcast Information Service" while Dan Henderson writes about his visit to CKWX (CKFX). Rare QSL's from Mauritius, New Hebrides, Portuguese Timor, Spanish Sahara, and Clandestine station La Voix du Pathet Lao were reported in Gregg Calkin's QSL Report. Ed Shaw's Friendx Fotos featured pictures of Bill Whitacre, Joseph Helm, D.H. Perry, and Edward Breeden.

Randy Stewart, 4225 W. La Casa, Springfield MO 65802-5615
<jrs555t@wpgate.smsu.edu>

A few curmudgeonly thoughts to begin 1998: 1997 was the year I finally reached 100 SWBC countries verified (106 counting utes & hams)... but my reply rate was at best about 50%, what with obsequiously friendly stations (i.e. Voice of Free China, Radio Cairo) sending me tons of goodies but no QSLs in response to several reports; certain reports never reaching the stations at all because of faulty addresses (such as Radio Ancash in Peru). But it was also a year of exciting loggings for me (Kenya-4935 among others). I just got the 1998 World Radio TV Handbook, and once again this year its usefulness is compromised by their silly, cumbersome decision to separate "international broadcasts" into a section at the back of the book, rather than listing overseas-service transmissions in the main "by-country" section like they used to. I suppose it makes a handy reference for "world-band listeners" (as opposed to SWLs or DXers) who, say, are interested in Radiobras's schedule but don't want to have to wade through page after page of Brazilian domestic stations. However, many of us listen to BOTH. The most egregious boo-boo I spotted is their continued insistence that Radio Finland's U.S. office in Connecticut verifies reception reports! Did it EVER?? Once again, for the record: reports for YLE go to the PORI TRANSMITTER SITE.

I like to prowl area flea markets, and whenever I spot old copies of Popular Electronics I snap 'em up (can't ever find Electronix Illustrated, though...). In my most recent find, the July 1958 Pop'tronics, Hank Bennett's "Short-Wave Report" loggings section makes fascinating reading. There's a listing for Burma (Myanmar) with a NORTH AMERICAN SERVICE (!) in English at 1415 UTC (0915 EST) on 11764 & 7117.5. Brazzaville, Congo/ French Equatorial Africa also had a North American service... Radio Sarandi, Uruguay ran English UT Tuesdays 0100-0200 on 15385 (sigh). Then again, some things never change: Radio Australia is still using 9580 in our mornings, and after 40 years Iceland still uses 12175 certain times of the year!

Richard Cuff <rdcuff@postoffice.worldnet.att.net>

Hello from New Jersey! After a forced job change in mid-'96, I've recently started in a new position in Somerset, New Jersey. This will put me in the same general region as my former Allentown, PA haunts, and an easy ride to Kulpsville. We haven't yet sold our Baltimore home yet, which still requires me to keep a somewhat low profile in "Easy Listening"—but the column is in wonderful hands with John Figliozzi, and I'm grateful for his support.

I am blessed with a very fast Internet connection at work, and—as John mentioned in January's "Easy Listening" column, a fast Internet connection makes RealAudio a much more pleasant experience. Much of the RealAudio content is "on demand", which means you don't have to set a timer or be near a radio to catch your favorite program. Connections at a 16 kbps or greater bandwidth are quite audible.

From the broadcaster's perspective, Internet-based audio provides one huge benefit not available to the broadcaster using conventional over-the-air transmission: you can count "hits" and know how many are listening. Internetcasting also requires a much smaller investment than your typical multiple site, multiple megawatt transmitter facilities.

It's not shortwave, 'tis true, but it's an alternate way to listen to broadcasts and broadcasters one might otherwise miss. Ongoing development of Internet-delivered programming continues to blur the lines for our "hobby", particularly for those who follow programming and content. Fodder for 'Fest chat, if you ask me.

Please note my new E-mail address. This address is from one of those forwarding services, which means I can change ISPs without changing e-mail addresses.

Hope to see many of you in Kulpville!

73s—Richard

Donna Ring, 3110 Wisteria Avenue, Baltimore, MD 21214

I am proud to be a Shortwave Woman, or, more broadly, a Radio Woman. I make no apologies when I lug 3 portable receivers to a week's conference and must bring at least two—just in case something goes wrong—for an overnight or weekend trip. At the risk of being considered at least eccentric, and possibly suicidal, I always ask for a hotel room high up with a window that opens or a door onto a balcony, from which I may extend a long wire. When I'm tuning around listening to tropical band stations, my husband often walks in and teases: "There she is, listening to Radio Static International again." When I find a program on the BBC, Radio Canada, or Radio Netherlands I want to share with him and reception is particularly good, he always complains about fading and distortion. What is the explanation? Is he the exception to the rule? Am I some sort of freak? I don't think so. I believe that shortwave listening, like music, like language, like poetry is an art. Not everyone has the talent or the interest.

However, cultivated early by woman or man, it can become a life-long pleasure. Remember the days when the man at the local electronics store, even the local Radio Shack, knew how to fix things? In the fifties, my first shortwave experience as a child was my father's Hallicrafters with a homemade speaker mounted on a board. In 1970 I bought my own first receiver with my first three pay checks, 90 days same as cash. This was a Grundig "portable" weighing perhaps 25 pounds with great high fidelity sound which I treasured and kept till it dies 17 years later. During the fifties and early sixties, before FM, before the Walkman, before the CD player and the home computer, there were quite a few women ham radio operators in those days, while men built Heathkit Radios and repaired old junk in their garages. Ignorant of these arcane mysteries I tuned the shortwave bands and dreamed of exotic lands, totally alone in the hobby.

It wasn't till 1987 that I discovered the notion of keeping loggings, the precision of digital tuning, and the comradeship of shortwave enthusiast willing to share his expertise with me. Fourteen SWL conventions later and after 10 years of programs such as World of Radio, SWL Digest, DX'ing with Cumbre and Media Network, I feel reasonably confident that I know what I'm doing, but still hesitate to compete in the public DX arena, possibly because of all the years of untutored listening when I tuned to my favorite stations and programs at random. Quality is still more important than quantity. Over the years I have enjoyed listening, one-on-one or in small groups, with friends and acquaintances. But I let the men bag the catches—the glory of the kill is all theirs. I am only interested in savoring the meat, and I shall have the first delectable bite. At home on a lazy afternoon or late night binge, I love tropical band listening on my now state-of-the-art tabletop and outdoor antenna—African and Latin Music just doesn't sound the same without static crashes. Understanding Spanish and French, I love comparing major news story perspectives as I wipe the crumbs off my kitchen portable. It's boring washing dishes or cooking dinner without a radio.

NASWeb

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

So what is my point? Those of us, both men and woman, who are addicted to shortwave, whether as hard core DX'ers or east program listeners, mostly grew up in a different age. When we were children, television was in its infancy and radio was still king. Today's mass media leaves very little to the imagination and plug in, modular technology sparks very little scientific curiosity. Sound comes in perfect packages with no mystery inside. Today's youth have the world at their fingertips as they key into the Internet, amused by what they consider our outdated radio hobby. Perhaps if men had guarded less jealously what they perceived forty years ago as their exclusive domain, and shared this secret passion with more women, the shortwave hobby would not now be dying. Our children, accustomed to instant gratification and visual cues have no idea what they are missing. In my imagination I can travel any day to Ghana or Guatemala. I can analyze what they think of our president in Britain, India, or the Vatican. And, thanks to media and DX programs I know where to tune whenever I want to go there. Even those of us who seldom speak continue to listen.

Keep up the good work.

Sincerely, Donna Ring

Welcome to the following new NASWA members

Stephen J. Bass, Columbus, OH	D. Kevin Ikenberry, Tulsa, OK
Bill Bergadano, East Freehold, NJ	Robert S. Jackson, San Antonio, TX
Jarius Brown, Baltimore, MD	Matt Krueger, Glendale, AZ
Lawrence H. Bulk, Mullica Hill, NJ	Bill Massie, Canton, OH
George Clement KE4AK, Powder Springs, GA	Sandy Moritz, Henniker, NH
William E. Cohane Jr., Beverly, MA	Andrew Santimone, Windsor, MO
Mr. C. Collins, San Francisco, CA	Gregory J. Szpunar, Portage, MI
Norman Crane, Tucson, AZ	Joaquin Vargas Jr. MD, Rio Piedras, PR
William J. Ferguson, New City, NY	Mark Vorpahl, Clarksville, TN
David B. Goren, Brooklyn, NY	Robert E. Welch, Hattiesburg, MS
Mr. Vic Hogfeldt, West Haven, CT	Darren White, Hattiesburg, MS
Donald M. Hosmer, Dearborn, MI	

WORLD OF RADIO SCHEDULE, SHORT VERSION effective January 27:

NOTE: this is posted only when there have been changes since last time.

On WWCR Nashville, Thu 2130 9475 [through Feb; from Mar 15685], Sat 0700 5070 AND 3210, Sat 1230 5070, Sun 0730 5070, Mon 0500 NEW 5070, Tue 1330 15685.

On RFPI Costa Rica: Fri 2000, Sat 0400, 1100, 1800, Sun 0200, 0900, 2300, Mon 0700, Tue 1900, Wed 0300, 1000—on 15050-USB 24h, 7385 2200-1200, 21465 1200-2400. [Note the changes in hours and modes, implementation underway but may not be completed yet]

On WGTG, Georgia, UT Tue 0500 on 5085-USB. If the tape arrives before Monday additional unscheduled times may occur, such as UT Mon 0600 on 5085-USB or on 9400 Sat, Sun daytime. If the tape does not arrive until Tuesday, backup time is UT Wed at 0600 (Hauser, Jan 27)

Easy Listening

John Figliozi
45 Algonquin Road
Clifton Park, NY 12065-7703
Internet: jfiglio1@nycap.rr.com

As usual, all days and times are in UTC.

BBC World Service This Month

This column leveled some criticism at the BBC last month, but let's be clear about one thing. There isn't a radio network anywhere, let alone an international broadcast station, that produces the quantity, range and quality of programming the BBC does on a consistent basis month after month, year after year. This month's listings do nothing to diminish that well-deserved reputation.

Listings are for the Americas/Europe stream. Frequencies for North America at different times of the day include 5965, 5975, 6175, 6195, 9515, 9590, 9895, 11750, 11865, 15220 and 17840. In a few cases, programs can be heard via the Americas/ Europe stream but only on frequencies intended for Europe. These are denoted with an * and these frequencies usually are listenable in parts of North America at those times: 9410, 12095, 15485, 15565, 15575 and 17640. Times marked with an # means that the program can be heard in western North America via the Asia stream on 9740.

Premiering in February...

Beginning *Feb. 1, International Recital* returns for its fourteenth series with a program of concerts focusing on musicians from Europe and the Middle East. This 4-part series starts with songs and dances from the Shakespearean era with the Musicians of the Globe, the resident band of London's new Globe Theatre. The second recital is by Guher and Suher Pekinal, twin sisters from Turkey forming a piano duo who gave their first public concert in Istanbul at the age of six and entered the Paris Conservatoire at age nine. This will be their first broadcast concert in the UK for more than a decade. Next will come a concert of classical Arabic music performed by Tahkt Attourat in cel-

ebration of the 60th anniversary of the BBC's Arabic language section. The final concert in the series is by the Smith Quartet, which has broken new ground in music for a classical string quartet by collaborating with jazz and rock musicians. (*Sun. 1515*)

Also commencing *Feb. 1 and 3, The Corporate Handbook* is an 8-part series on how to succeed in the business world. This series, aimed as a guide for young aspiring professionals around the world, is part of the Learning Zone, the World Service's series of education programs. (*Sun. 2310; repeated Tue. 0915*)

On *February 7, 9 and 11*, the science series for youth, *The Lab*, presents a special program for St. Valentine's Day. There will be, among other love-related topics, scientific advice on how to make that person you fancy fall in love with you and a discussion of why romance is sometimes something more than boy meets girl. During other weeks, *The Lab* continues its eleven week run begun in January. (*Sat. 1945**; repeated *Mon. 1445, Tue. 0745*)

Starting *February 9 and 13*, in a new series of *Keep to the Path*, people with a special eye for the details of landscape take listeners into the British countryside on one of their favorite walks. The 7-part series begins in the mountains of the Lake District and includes visits to Devil's Ditch in Cambridgeshire, the Yorkshire Dales and the Cairngorms of Scotland. (*Mon. 0130; repeated Fri. 0630*)

Commencing *Feb. 23 and 27, Stanzas on Stage* offers a chance to hear the UK's top poets reading their own works, recorded live at London's Poetry Cafe, a center for Britain's thriving poetry scene. (*Mon. 0145; repeated 1445#, Fri. 0645*)

Starting *February 26 and 27*, *Life on the Road* accompanies the London-based Academy of St. Martin In The Fields to Mexico on a 12 day tour. Over five weeks, the programs focus on five different perspectives—that of players, the management, the soloists, the orchestral supervisor and the maestro. (*Thu. 0330*; repeated *Fri. 1515*)

Some continuing series...

Meridian is the World Service's arts program heard thrice weekly. *On the 14th, Meridian Feature* looks at the life and legacy of Bertolt Brecht, one of the most influential playwrights of the 20th century, on the occasion of the centenary of his birth. (*14th 0630*; repeated *2130, 16th Mon. 0230*)

On the last Friday of each month, *The New Europe* examines the transition from communism to capitalism in Central and Eastern Europe. (*Fri. 27th 1616*; repeated *2230*)

On *Composer of the Month* in February, Masterprize, the international composing competition is reaching its final stages. There are interviews of the finalists, along with performances of their compositions, and a chance to vote for your favorite by post and by Internet. (*Thu. 0730*; repeated *Fri. 0130*)

Performance this month presents a series of five programs about The Academy of Ancient Music, the ensemble formed in 1973 by the English scholar and harpsichordist Christopher Hogwood to specialize in the authentic performance of music from the Baroque and Classical periods. (*Wed. 1615*)

February's *Plays of the Week* feature the World Service's 1997 Playwriting Competition winners. Lisa Schlesinger's *Rock Ends Ahead* (*14th/15th*), the winning entry, is set in the American midwest and is a story about desire, small town frustrations and the aspirations that ordinary people harbor within seemingly mundane lives. The runner-up, Stephanie McCarthy's *Bird in the Camellia Tree* (*21st/22nd*), centers on Richard, a 54 year old schizophrenic who proves, even as family secrets—both mundane and disturbing—are revealed and tragedy looms, that his affliction is no bar to a full and compassionate appreciation of life. Asja Srnc Todorovic won the prize for best drama by a

writer for whom English is a second language. Her play, *In The Hollowing Circle* (*28th/Mar. 1st*), is a sensitively written and gripping psychological thriller set in Croatia with the backdrop of the recent conflicts in Bosnia-Herzegovina. This half-hour play is immediately followed by another competition runner-up, *Going for Mook* written by Willi Chen, which is set on the island of Trinidad where three young boys decide to earn some money by fishing for mook, a kind of clam. The first two plays in February are *Plantation* (*Jan. 31st/Feb. 1st*) by John Pilkington and *The Life of Galileo* (*7th/8th*) by Bertolt Brecht. (*Sat. 2230*; repeated *Sun. 0630, 1830**)

Off the Shelf features readings of *Loitering With Intent* by Muriel Spark (*2nd/3rd-13th/14th*); three short stories by Penelope Lively including *The Clarinettist* and *The Bride's Aunt* (*16th/17th*), *Crumbs of Wisdom* (*17th/18th*) and *The First Wife* (*18th/19th*); and *Air of Angels* by Susan Hill (beginning *19th/20th in 12 parts*). (*Mon.-Fri. 0715*; repeated *Tue.-Sat. 0445*)

Short Story this month includes three very different childhood experiences and a retelling of a terrible event in a people's history. The narratives originate from listeners in Laos, Australia, New Zealand and The Netherlands. (*Sat. 1245*; repeated *Sun. 0815, Mon. 0030*)

The musical general knowledge quiz, *Counterpoint*, returns for a 13 week run with Ned Sherrin in the chair beginning on the *7th and 9th*. (*Sat. 0130*; repeated *0730, 1230#, Mon. 1830*)

Series Continuing or Concluding From Previous Months...

Civilization and Wisdom of the World continue from December. *Foul Play* concludes its run from December. *The Learning World, What's News, The Lab, International Question Time, Just a Taste and Braving the Depths* continue from January. *From Where I Stand, Images of Britain, Best on Record, On the Rocks* and the *Off the Shelf* reading of *A Night to Remember* conclude from January. Consult January's EZL for details. [Sources: BBC World Service Press Information and BBC On Air]

Radio Netherlands Highlights

Documentaries

5th/6th—*Farming*. (No further detail available.)

12th/13th—*Portugal*. Portugal is strengthening its own commonwealth. It's links with South America (Brazil), Africa (Angola, Mozambique, others) and Asia (Macao and East Timor) have a visible impact on Portugal itself. Martha Hawley reports.

19th/20th—*The Company of Far Lands*. This program is the first in a series of four on The Dutch Maritime Empire hosted by Dheera Sujan. In 1594, nine merchants formed what was to grow into The Dutch East India Company as an effort to break the Portuguese monopoly in trading spices.

26th/27th—*The Cape of Good Hope: Tavern of the Two Seas*. The second in a series of four programs examining the history of The Dutch Maritime Empire embodied in the rise and fall of The Dutch East India Company. (Thu 0054 on 6020/6165 and 0454 on 6165/9590; Fri. 2354 on 6020/6165.)

Media Network

The program is now accepting contributions from listeners recorded in MPEG-3 audio and sent to the program via e-mail. You can download the software from the Internet that will allow you to encode material in this new format. Be advised that you will need an MPEG-3 recorder, as well as a player. Go the **Radio Netherlands** web site <<http://www.rnw.nl>> for further details. On the program this month:

6th—A news edition reviewing listeners' letters to the program. Do language translators on the Internet work? Jim Cutler launches Media Quiz 1998—have paper and pen handy for the clues are only given over the air! There is a review of a surprising new radio from Philips, as well as a profile of the company and its plans for the future.

13th—Clandestine radio specialist John Campbell discusses the strange signals emanating from the east of Holland. There is a report on the shake-up within Holland's FM

radio scene. Andy Sennitt has a selection of tuning tips and Mike Bird reports (as he does every week) on radio propagation conditions.

20th—What are solar mass ejections? Mike Bird investigates. We also learn about Australia's \$3 billion pay-TV disaster and why a satellite scheme for the Internet is doomed to failure.

27th—A follow-up program on problems with lightning strikes. The program welcomes input from listeners who have experienced a direct hit to their house. Did it damage your radio equipment and what do you do to protect your equipment from a recurrence. Send your stories to <media@rnw.nl> or to Media Network, Radio Netherlands, P.O. Box 222, Hilversum.

(Fri. 0054 on 6020/6165 and 0454 on 6165/9590) [Sources: *On Target* and Radio Netherlands web site]

China Radio Int'l Highlights

The *February 15* edition of *Music from China*, a program presented every Sunday UTC, will feature selections from the 1998 Spring Festival Evening Party, one of the most important traditional Chinese festivals. The gala performance is televised each year on Lunar New Year's Eve.

The *February 18* edition of *Voices from Other Lands*, a weekly cultural program about the world and its people presented every Wednesday UTC, looks at France's wine culture.

The *February 22* edition of *Chinese Folktales*, a program presented each Sunday UTC, tells the story of Wang who admired Taoism and aspired to the hard life of the immortals on Mount Laoshan and to learn the magic arts.

The *February 23* edition of *Song of the Week*, a program presented each Monday UTC, will feature a song sung by horsemen of the vast pasturelands of northeast China called "Play the Tambourine and Sing a Song".

The February 23 edition of *Listeners' Letterbox*, a program presented every Monday UTC, discusses unemployment and re-employment in China.

(To the East Coast of North America: 0300 UTC on 9690; 0400 on 9730; 0500 on 9560. To the West Coast: 0300 on 9690; 0400 on 9560 and 9730; 0500 on 9560; 1400 on 7405; 1500 on 7405)

The Voice of Russia

In a major cost-cutting move, the **Voice of Russia** has reduced its English language World Service from 24 hours to 16 hours a day. VoR also has made major reductions to the number of frequencies for many transmissions within that service and for the station's other services, as well. While all areas of the globe are affected, the effect for North American listeners is arguably the greatest (especially those on the east coast). VoR no longer broadcasts the World Service in English from 1000 to 1400 and 2200 to 0200 UTC, much of the latter considered "prime time" for eastern North America and especially so given the generally poor reception of VoR here outside those hours. According to the ODXA's Ivan Grishin, as reported by Glenn Hauser on his *World of Radio* program #924, VoR is audible in eastern North America, at present, only between 1400 and 1500 on 11695; 1900-2200 on 5940; and 0200-0600 on 5940, 7105 and/or 7125. My experience is identical except that I find that only 7105 is audible evenings at my location and only at best between 0200 and 0400.

As a result of these changes, VoR has also shifted some of its feature programs as follows (news on the hour for 11 minutes; on the half-hour for 2 minutes):

- 1411-Sunday Panorama; News and Views (Mon.-Sat.)
- 1432-Your Top Tune/You Write to Moscow (Sun.); Audio Book Club (Mon.); Kaleidoscope (Tue./Thu.); Russian by Radio (Wed./Fri.); Christian Message from Moscow (Sat.)
- 1911-Commonwealth Update (Mon.-Fri.); Program Announcements (Sat./Sun.)

1932-Christian Message from Moscow (Sun.); Alternative Programs (Mon.-Fri.); This is Russia (Sat.)

2011-Newmarket (daily)

2032-Moscow Yesterday and Today (Sun./Mon.); This is Russia (Tue./Thu.); Russian by Radio (Wed./Fri.); Christian Message from Moscow (Sat.)

2111-Sunday Panorama; Science and Engineering (Mon.-Sat.)

2132-Timelines (Sun.); Your Top Tune/You Write to Moscow (Mon.); Yours for the Asking (Tue.); Music At Your Request (Wed.); Folk Box (Thu.); Jazz Show (Fri.); Kaleidoscope (Sat.)

0211-Music and Musicians (Sun./Mon.); Commonwealth Update (Tue.-Sat.)

0232-Folk Box (Tue.); Yours for the Asking (Wed.); Jazz Show (Thu./Sat.); Music At Your Request (Fri.)

0311-Moscow Mailbag (daily)

0332-Your Top Tune/You Write to Moscow (Sun./Wed.); Timelines (Mon.); Kaleidoscope (Tue.); Audio Book Club (Thu./Sat.); Russian by Radio (Fri.)

If NASWA members on the west coast wish to inform me as to what hours VoR can be heard there, I would be happy to expand on this schedule in March's column.

In Brief...

Radio New Zealand International is apparently in trouble again. Despite its paltry US\$700,000 budget, some members of Parliament are questioning its necessity. To be effective, all correspondence in support of RNZI should be *faxed* to the Prime Minister at this number: + 64 4 473 7045....**Radio Vlaanderen Internationaal** has debuted a new program called *Rockspot* which briefly features a current Belgian rock band. The program replaces the discontinued *Living in Belgium* and airs to North America on Wed. at about 1313 on 13680....Go to the **Italian Radio Relay Service's** web site and listen to a special Christmas 1997 edition of the *Swiss Shortwave Merry-Go-Round* with Bob Zanotti and Bob Thomann (aka "The Two Bobs"). Sure would be nice if SRI would bring this one back on a regular basis!

Until March, good listening!



Listener's Library

T. J. "Skip" Arey N2EI

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Beverly, NJ 08010

Internet: tjarey@mosquito.com

Maybe we should name Rich D'Angelo to the masthead of this column along with Old Uncle Skip. I usually get to turn these pages over to Rich's ministrations a few times each year. I both glad for the break and for the great information he has to share. Lets see what he has for us this month.

Tropical Band List

Published by Willi H. Passmann, Germany

Reviewed by Richard A. D'Angelo

In September 1996, I reviewed a relatively new entrant into the shortwave publishing marketplace, Willi Passmann's Tropical Band List ("TBL"). Willi's publication hit the streets in 1992 and made a big impression around the DX world. The TBL quickly became a valuable DX resource. Back then I gave it high marks for accuracy and timeliness. That trend continues today.

The TBL provides over 1,600 entries of tropical band and home service stations operating between 2300 kHz and 7000 kHz. It contains 74 pages of information in A4 format (roughly 12" x 8 1/4"). The publisher continually updates his database and can issue the TBL on a moments notice. Therefore, you can obtain a "fresh" TBL direct from the publisher at any time! This list is revolutionizing the way reference materials are updated and distributed.

TBL is the most comprehensive listing of tropical band and home service broadcasting stations and it is very accurate. The ongoing editorial process updates the master database continually using information obtained from the Internet, club bulletins, major DX programs, and the publishers own personal monitoring activities. The TBL is the most

complete, up-to-date reference guide on the market today and it is available four times a year for those that need and/or want the latest information while DXing. This is truly an outstanding reference tool for the tropical band and home service station DXing specialist.

The TBL contains details of frequencies, operating schedules, power, identification announcements, languages, transmitter locations, and ITU country codes. It is divided into two sections. The first section, Part A, is sorted by frequency with continents and countries being the second and third sorts, respectively. The second section, Part B, is a sort by country with another sort by frequency within each country. The layout makes it easy to find parallel stations. In addition, the TBL contains valuable sunrise and sunset information for every known transmitter site which is a big help in greyline DXing. It is printed using a high quality laser printer which adds significantly to the clarity of the final product.

The editor began DXing in 1973 at the tender age of 13. He is an editor for the German DX club ADDX which has a membership of over 3,500. The club publishes a bulletin called Kurier. He is active internationally through various electronic newsletters such as Hard-Core DX and Cumbre DX and has gained a solid reputation for his DX reporting.

The current edition of the Tropical Band List can be ordered direct from the publisher (Willi H. Passmann Media Consulting, Oberhausener Str. 100, D-45476 Mulheim-Ruhr, Germany) for US\$15.00 in Europe and US\$20.00 to the rest of the world; a 4 edition subscription issued at three-month intervals costs US\$40.00 in Europe and US\$60.00 to the rest of the world. Although a little expensive, the TBL is well worth the extra money.

However, you may find you do not need four issues a year. My personal preference is for only two issues a year; one in September at the beginning of the DX season and a second edition in January during the peak of the DX season. However, there is an attractive alternative package. You can order the TBL on a single copy basis from the Ontario DX Association (P.O. Box 161, Station "A", Willowdale, Ontario M2N 5S8, Canada) for US\$15.00 to U.S. destinations and Cdn\$18.00 in Canada. This latter method is cheaper, more convenient, and allows you to order the time period desired. The ODXA receives a fresh supply of the TBL every three months.

Passmann's Tropical Band Listing is quickly becoming an indispensable reference guide for the serious shortwave broadcast DXer. It is loaded with up-to-date information in an easy to use format. It is extremely accurate, reliable and comprehensive making it an excellent value for your hobby dollar. I highly recommend this superior DX resource.

Now Rich beat me to the review of this book but I want "The Docs" to keep me in mind for the 1935-1960 installment because that's the era of Zenith's I'm into collecting.

Zenith Radio

The Early Years: 1919-1935

By Harold Cones, Ph.D. and John H. Bryant, FAIA

Reviewed by Richard A. D'Angelo

The Radio Professors have done it again! Fresh from their literary success, "The Zenith Trans-Oceanic: The Royalty of Radios," these two radio scholars, and well-known NASWA members, have searched the Zenith archives like no other individuals before them. Spending a good portion of their summers over a couple of years in Chicago pouring through a wealth of information, Cones and Bryant rescued and cataloged valuable corporate files. Their dedication and tireless effort is documented in this incredible piece of radio literature. They trace the beginnings

of Zenith to an agreement between two Navy radiomen who started business in 1919 as the Chicago Radio Laboratory ("CRL"). Later they were joined by the flamboyant "Commander" Eugene McDonald, who was credited with much of Zenith's success. Frankly, there is so much to tell that any review couldn't do more than scratch the surface.

The first third of the book tells the story of Zenith's early days in a clear and accurate manner. Using hundreds of period sources, later-published histories, theses and dissertations, interviews, archives, and McDonald's own personal files, the Radio Professors thoroughly document the early years. The middle section of the book is devoted to photographic portraits of mostly near-perfect examples of many radios built by Zenith between 1919 and 1935. The radios featured in this section were photographed by the authors in the homes of many prominent collectors of Zenith products. The portraits section provides a visual survey of the wide range of Zenith radios produced during these years. The third and final section of the book is made up of an illustrated catalog and database of the products of both the Chicago Radio Laboratory and the Zenith Radio Corporation. The catalog is probably the most complete collection of images from these radio manufacturers ever assembled. The database is the most complete listing of CRL/Zenith products ever compiled which the authors believe is the most correct ever produced and is sure to become the standard for scholars and collectors of Zenith products.

With access to the Zenith corporate archives and their discovery of the long sealed files of one of Zenith's founders, the authors tell for the first time the fully documented story of the Zenith Radio Corporation and the role of Commander McDonald and Zenith on early radio history. It presents a wealth of never before published photographs, documents, and information. This 224 page masterpiece contains 110 black and white photographs, 68 other illustrations, and 120 color portrait photographs of many of the rarest and most beautiful Zenith radios of the era.

Published by Schiffer Publishing, "Zenith Radio, The Early Years: 1919-1935" by Harold Cones and John Bryant is available direct from the authors for US\$29.95 plus US\$2.00 shipping and handling in the U.S.A., US\$3.00 in Canada, and US\$4.00 worldwide from:

The Radio Professors
P. O. Box 592
Stillwater, OK 74076 U.S.A.

Your purchase direct from the authors supports further research on Zenith plus pro-

vides you an autographed and numbered copy of this important book.

"Zenith Radio, The Early Years: 1919-1935" is an important piece of radio history in an extraordinary package. Whether you are a newcomer to radio or a long time veteran, this book will certainly appeal to the reader. You need to add this valuable reference resource to your personal radio-related library.

By the time you read this you should be packing for Kulpsville. I'm looking forward to seeing everybody once again.

Listeners Notebook Extra by Al Quaglieri

(The following items came in after the column was prepared.)

CLANDESTINE-ASIA Craighead is right about frequency/propagation: the higher frequencies would propagate better from Taiwan to Vietnam than the lower ones. Same the other way around for me here in Taiwan. The ID he heard ("...si er..thai...") should be "di er tai" which means second program, or second channel. New Star is generally regarded as coming from Taiwan and I have a hunch where the transmitters are located. The weather is really bad here right now, otherwise I would hop on my scooter and go there to take some pictures right now.

The other part which was slightly wrong was this: "mentioning CC surnames (Lio mentioned many times in every broadcast, and Ling mentioned often)." Sorry to say that Liu (correct pinyin spelling) means "six" and ling "zero."

Still think Mr. Craighead wrote a nice report and he has guts to guess the content with the little Chinese he knows. (Van Den Boogert-TAIWAN) [Hans has an excellent web page devoted to this station: <http://w2.dj.net.tw/~hansenglish/radio>]

SAUDI ARABIA Latest sked for *Broadcasting Service of the Kingdom of Saudi Arabia* (BSKSA):

0255-0600	GAP	3868U
0300-0500	SAP	9580v 3868L
0300-0600	HQ	17780 11935 9720v 9620 9555v

0400-0500	Somali	15165
0400-0600	Turkish	15060
0500-0530	SAP	9580v
0500-0600	Swahili	17760
0530-1700	SAP	10990L 9580v
0600-0900	HQ	11785 9530
0600-0900	GAP	11820v 11710v 10990U 9720v
0900-1200	GAP	15060 11820v 10990U
0900-1200	HQ	21495 17880 11785
1000-1200	Indonesian	21640
1200-1400	Urdu	15345
1200-1500	GAP	15380v 15230 15060 10990U
1200-1600	HQ	15280v 15165v
1400-1500	Bengali	15345
1400-1600	Persian	11730
1500-1600	Turkmen	9730
1500-1700	COI	11965 11950v 11780 10990U 3868U
1600-1700	Bambara	17775
1600-1800	HQ	11835v 11710v 9730
1700-1800	GAP	11965 11950v 11780 3868U
1700-2100	SAP	6020 3868L
1800-2100	HQ	11935 9705v
1800-2300	GAP	9870 9555 3868U

COI=Call Of Islam
GAP=General Arabic Program
HQ=Holy Qu'ran
SAP=Second Arabic Program
(BBCM)

Shortwave Center

Hans Johnson
206-A South Loop 336 West #231
Conroe, TX 77304
CompuServe: 73042,3644
Internet: 73042.3644@compuserve.com

Radio Canção Nova (Cachoeira Paulista, Brazil)



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Lorena - SP - Brazil
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Introduction

The Valley of Paraíba River is a long strip of flat lands in Brazil, just above the Tropic of Capricorn and near the Atlantic Ocean. From centuries, it has been the natural path between Sao Paulo and Rio de Janeiro. Several cities were born in this zone, from small to big ones.

Three tropical and shortwave stations operate in the Valley: Radio Difusora in Taubate, Aparecida in Aparecida and Canção Nova in Cachoeira Paulista.

Cachoeira Paulista is a quiet and small village with 24,000 inhabitants, at 127 miles from Rio and 121 from Sao Paulo. Its

economy is based mainly on livestock and agriculture. Besides its radio and TV station, the only noticeable organization in the city is a branch of the National Institute for Space Research, with labs for remote sensing (satellite images) and weather forecast.

The Early Days of Radio in Cachoeira Paulista

If you have an old edition of the World Radio and TV Handbook (prior to 1981), look at the Brazilian section and you will find Radio Bandeirantes of Cachoeira Paulista, 250 Watts on 1510 kHz. For thirty years, the old Radio Bandeirantes (former Radio Uranio) was only one more low-powered mediumwave station in a small city, just like many and many others in Brazil. Could someone foresee that this station would receive thousands of letters from its listeners someday?



This panorama started to change when Father Jonas Abib came to work for the Faculty of Philosophy in Lorena, close to Cachoeira Paulista. He began to join the young people for meditation,

The station.

At right, the Radio Canção Nova studios.

prayer and evangelization. This group, named Canção Nova, started to produce programs and hire airtime in the stations of Lorena, Cruzeiro, Cachoeira Paulista and Passa Quatro.



Some time later, the Bandeirantes Radio Network decided to sell its station in Cachoeira Paulista. After a campaign for donations, the Canção Nova Group finally purchased its own radio station on May 25th 1980.

To be precise, they bought just a little more than a radio channel. The signal barely reached the neighbour cities, 10 miles away. The studio was very old and no one could walk during live transmissions, due to the creak of the old boards in the ground. The transmitter was in a swampy area near Paraíba River and mud was a problem for everybody, except for an alligator found by the operator.

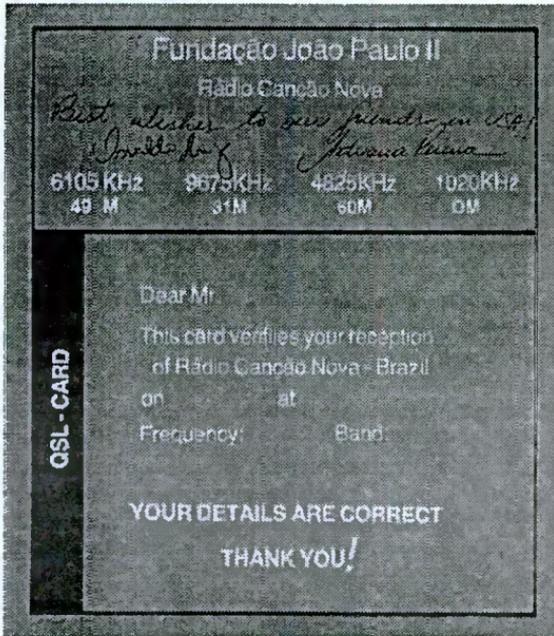
Building New Facilities

The first days were hard. Few people believed that an evangelical station would be successful, and the Canção Nova Group needed to convince the community. But thanks again to donations, Radio Canção Nova started to move to its new site, a small farm in a hill near the city. The new studio was made literally by volunteer manpower and donated materials. After the studio, other buildings were made along the years: a hangar for Masses and prayer, a restaurant, a lodging house, the Audio Visual Department and the TV studios. These buildings are surrounded by big trees, and the farm is a

pleasant place to go. Some weekend celebrations are attended by over 15,000 persons coming from everywhere.



At left, the shop, which sells books, tapes, compact discs, and other items.



West. The antenna for 31 m band uses 4 dipoles in a cubic array, while the 60 and 49 m band antennas consist of twin dipoles each one. There is also a project for an FM outlet, not yet on the air thanks to bureaucratic imbroglis in Brasilia.

Radio Canção Nova receives thousands of letters from its listeners, not only from Brazil, but also from Paraguay (from the *Braziguaysans*), Madeira Island and Portugal. If you send a reception report, don't forget to include one U.S. "greenstamp", because it is a non-commercial station, depending on donations to survive. All programs aim evangelization and you will hear no advertisements or pop music by tuning on them. Their slogan is "We spread out love through the air" ("Nos espalhamos amor pelo ar").

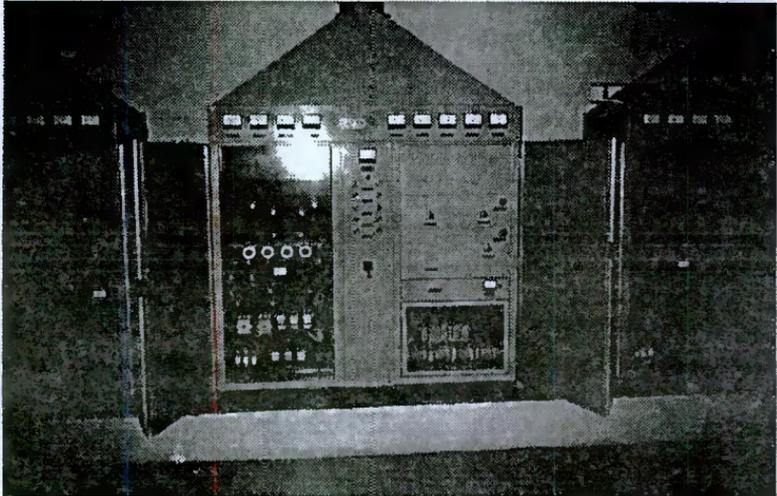
Radio Canção Nova Today

Radio Canção Nova is a department of a Foundation, João Paulo II, which has 160 persons, 30 of them working in the radio station.

To increase power to 10 kW, frequency was shifted from 1510 to 1020 kHz, and shortwaves came out in 1985. Other frequencies are 4825, 6105 and 9675 kHz. All transmitters provide 10 kW, but only 5 kW are used on 6105, because this channel is shared with Radio Cultura in Foz do Iguacu, in Southwest. The 49 m antenna is fixed close to a hill, used as a barrier to avoid propagation to the South and

At left, one of Radio Canção Nova's four transmitters.

To help writing program details, the speakers and their respective programmes are: Zezinho ("Madrugada Amiga"); Ze do Campo ("Rincao do Meu Senhor"); Adriana Pereira ("Manha Viva"); Luzia Santiago ("Clube do Ouvinte", "A Biblia no meu dia a dia" and "O Amor vencera"); Father Jonas Abib ("Estou no meio de Vos"); Alberto ("Falando de Vida"); Milton ("Ponto de Encontro"); Felipe Aquino ("No Coracao da Igreja") and Rogerinha ("Noite em Familia").



There are also prayers to Our Lady Aparecida, relayed from Radio Aparecida.

Radio Canção Nova also produces programs for the Rede Catolica de Radio, a national radio network, and uses a satellite to broadcast these programs elsewhere. Mr. Wellington Silva Jardim is the General Manager, Mr. Osvaldo Luis Silva is the Chief Journalist and Mrs. Adriana Pereira is the Artistic Manager.

TV Canção Nova is a more recent conquest of Fundacao Joao Paulo II. They are now hiring 11 hours of satellite per day and there are plans for cable TV.

The address of Radio Canção Nova is Rua Joao Paulo II s/n., Cachoeira Paulista SP Brazil, zip code 12630-000, phone + 55 (12) 561-2400, fax + 55 (12) 561-2074, e-mail cancao.nova@fastnet.com.br, homepage fastnet.com.br/tvcn.

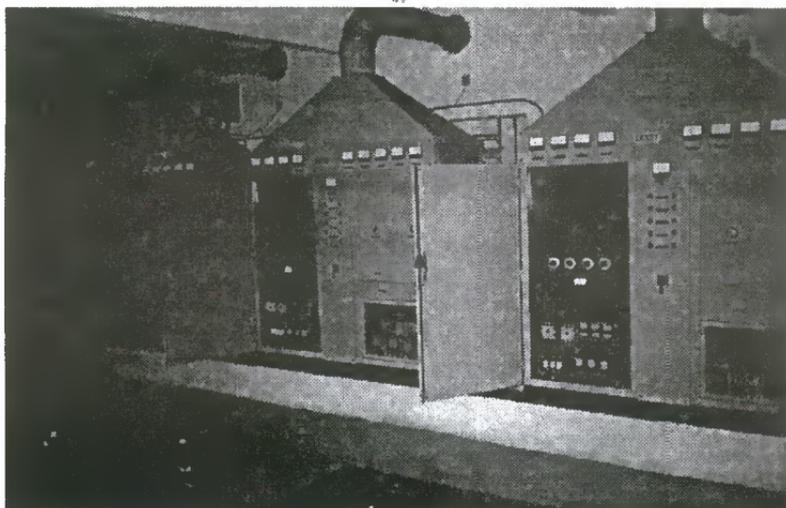
Conclusion

Despite few persons believed that a 100% evangelical and non-commercial station would survive in 1980, Radio Canção Nova



survived and grew up. Thanks to the efforts and donations of the community, the station is now one of the most important instruments of the Catholic Faith in Brazil.

Sincere thanks to Journalist Silva, who provided all informations for this article and allowed the author to take photographs everywhere.



(Production note: Photos from this story are available in color on NAS Web, along with others that could not be used.)

The station's four EASA transmitters operate on mediumwave, 60 meters, 49 meters, and 31 meters.

Adrian Peterson's Diary

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

The History of Broadcasting in Hong Kong

A major political change directly affecting the lives of more than 5 million people took place on July 1, 1997. The small dependent enclave of Hong Kong reverted to Chinese rule after more than one and a half centuries as a British territory.

Actually, Great Britain gained control of Hong Kong in three different stages. In 1839, Britain took over the island of Hong Kong at the end of the notorious "Opium War"; in 1860, the Kowloon peninsula was ceded to Britain as part of a settlement over trade disputes; and in 1898, China leased the New Territories to England for a period of 99 years.

This long lease, which was signed towards the end of the last century, expired at the end of June 1997. However, England gave back to China not only the leased New Territories, but also the other two sections of Hong Kong that had been gained in warfare.

The territory of Hong Kong covers more than 1,000 square miles, though only 400 square miles is land area. It is a rugged territory, made up of more than 235 islands, plus the mainland peninsulas. At the time of annexation last century, the whole area was no more than a series of small fishing villages. The name, Hong Kong, in the Cantonese language, means, "Fragrant Harbour."

Even though it was small and insignificant in its earlier years, Hong Kong today is noted as one of the major commercial capitals of the world and it is an important tourist destination for travellers from all over the world.

The usage of wireless communication began in Hong Kong around the end of World War I with the establishment of three spark gap transmitters. These stations were BXY on Stonecutters Island and BZV at Port Nolluth, which were both operated by the British navy; and VPS at the familiar location, Cape D'Aguilar, which was operated by the Post Office for international communications.

A series of test broadcasts was made in 1926 with the presentation of live concert programs, and the first broadcasting service commenced on June 30, 1928 with regular scheduling on 632 kHz using a power output of 150 watts. This new station was allocated the callsign 5HK, with the number "5" indicating the territory, and the letters "HK" representing Hong Kong.

This station was replaced soon afterwards by two other stations, which identified as GOW on the medium wave channel 1,000 kHz, and VPS3 on the longwave channel 38 kHz. The callsigns of these units were subsequently changed to the more familiar ZBW and ZBK, with programming on one channel in English and on the other in Chinese.

A series of experimental broadcasts on shortwave commenced in 1930 over a low powered station in the 49 metre band under the callsign ARI. Regular broadcasting on shortwave began in 1935 with the installation of a 250 watt transmitter under the exotic callsign ZBW. This low powered unit was replaced in 1938 by a very famous and still active 2-1/2 kw transmitter.

Under the Japanese administration of Hong Kong for a three and one-half year period from 1941 to 1945, the radio station was on

the air under the occupation call signs JQHA and JZHA, with apparently one call for MW and the other for shortwave. International radio monitors in Australia, the United States and New Zealand reported hearing the exotic little shortwave transmitter periodically, usually on the air in the international shortwave bands.

Following the war years, two program channels were established, one in Chinese and the other in English. Commercial broadcasting was introduced into Hong Kong in 1960, and the entire technical facilities were upgraded eight years later, in 1968.

It was at this stage, after 38 years of service, that the small and famous shortwave transmitter from 1938, ZBW was retired. However, many years later, in 1980, it was reactivated for weather broadcasts during the China Sea boat race from Hong Kong to the Philippines. This unit has generally been reactivated every two years for this boat race, including 1996.

The BBC London erected a shortwave relay station at Tsang Tui in 1987, using two Marconi transmitters of 250 kw. This station was closed in 1996 after just nine years of active service, and the two transmitters were removed and reinstalled in the new BBC relay station at Nakhon Sawan in Thailand.

The British Forces Broadcasting Service operated their own entertainment stations in Hong Kong from 1970 until recently. The medium wave unit operated on 1251 kHz,

and a small network of nine FM stations, ranging in power from 1 watt up to 10 watts, carried a relay of the programming to local army camps. This service was withdrawn in stages prior to the British withdrawal, first into temporary premises, then into a mobile van, and then onto a British naval vessel.

This is the current electronic scene in Hong Kong. There are seven 7 medium wave transmitters, more than 50 FM transmitters, 13 radio networks, and 5 networks of TV. In addition, there is the shortwave communication facility located at Cape D'aguilar, which houses also the famous 2-1/2 kw transmitter used occasionally for weather broadcasts during the boat races, and the shortwave facilities used for communication with aircraft and for Volmet weather forecasts.

The international radio world is now pondering several questions. "Will the boat races be held again?" "Will the exotic 1938 shortwave transmitter ever be on the air again?" "Will China Radio International place a shortwave station on the air in their newly acquired territory of Hong Kong?"

The AWR collection of QSL cards in Indianapolis contains several exotic QSLs from radio stations located in Hong Kong. These historic QSL cards include the BBC East Asian Relay Station, BFBS Hong Kong, Radio TV Hong Kong, several communication channels, as well as two picturesque cards from the exotic 2-1/2 kw unit used for the boat race broadcasts. 

FOR SALE: Watkins Johnson 8718A. Beautiful larg LED's, Silky smooth silver lead-weighted tuning knob, black front. The 8718A is the direct forerunner of the HF-1000. Used in Intel/Surveillance and monitoring facilities. Copy of specification sheet to serious bidder. See Universal Radio's receiver book for a summary of the 8718A. It's so rare it almost never appears on the used market. Fair Radio Sales is now asking over \$2000.00 for 8718's, I'm starting a bid at U.S. \$900.00. Certified check or money order only. I'll ship upon clearance. E-mail requests for additional information to <drnlr2ar@his.com>. Also Drake R8. Purchased new in 1993, but barely used and in mint condition. Has Drake R8 speaker and tech manual. Not a scratch and is in original box. Price \$600.00. Prefer pickup in DC, MD, or VA area but we can discuss shopping arrangements farther out. Also Sony SW-1. In original carrying case with external antenna, power supply, etc. Purchased two years ago in Singapore and barely used. The SW-1 is still used by journalists around the world who want a super-small, sensitive receiver that can fit in your shirt pocket. Asking \$200.00, I pay shipping. Contact Dan Robinson at <drnlr2ar@his.com>.

Digital SW Broadcasting (Part 6)

This month I will present some things that can cause errors in digital transmissions and some of the techniques that can be used to reduce or correct these errors.

First, let's define a new term. The "bit error rate" (BER) is the number of bits received incorrectly expressed as a fraction of the total number of bits transmitted. BER is normally expressed as a negative power of ten. If one bit in every hundred is in error, the BER is said to be 1×10^{-2} , one error in a thousand is 1×10^{-3} and so on. Three errors in a million is expressed as 3×10^{-6} .

Engineers define the signal quality in terms of the signal power in each bit divided by the noise power in a 1 Hertz bandwidth. This is called the energy per bit (E_b) to noise density (N_o) ratio or simply the E_b/N_o . The power per bit goes down as the bit rate goes up. So the E_b at a bit rate of 1000 bits per second would be 30 dB below the E_b of a 1 bit per second signal. Deep space probes are operated by NASA at data rates of as low as 8 bits per second to compensate for the weak signals they deal with. So one way to improve the quality of the digital signal is to reduce the bit rate. A reduction of 50% will cause a 3 dB improvement of E_b/N_o . That could be enough to go from a noisy to a clear signal in a digital transmission system. This threshold effect is similar to what you experience on a distant FM broadcast signal when it fades.

Figure 1 shows how the BER varies as a function of the E_b/N_o . Note that a change of only a few dB can mean the difference between no signal and an essentially error free signal. For voice transmission one error in a

thousand (1×10^{-3}) is fine. Spacecraft communications links normally are designed for error rates of better than one in a hundred thousand or 1×10^{-5} .

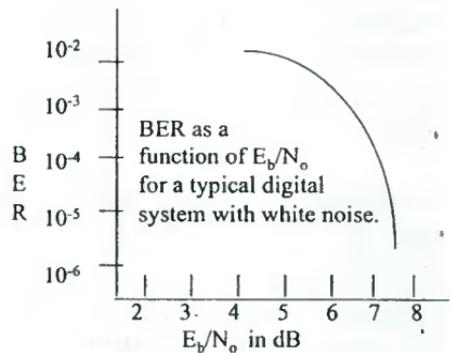


Figure 1 - The bit error rate declines rapidly as the power per bit increases. An increase of 3 dB can improve the error rate by a factor of 1000.

So far we have only accounted for the effect of random noise like you get from electronic components such as resistors, tubes and transistors. Statisticians call this kind of noise "additive white Gaussian" because the noise density function follows a Gaussian distribution curve. This property enables engineers to mathematically analyze and predict how a digital link will work in the presence of such noise.

There are other noise sources which do not lend themselves so nicely to mathematical analysis. The burst noise characteristic of automobile ignition systems, lightning, and

over-the-horizon pulsed radar like the old USSR woodpecker, are examples. Use of angle modulated techniques like frequency or phase shift keying can help mitigate against such noise just as analog FM is better in this type of noise compared to AM. Engineers use a technique called interleaving to help overcome burst errors.

Burst errors are hard to correct because they often obliterate many bits in a row causing the bit synchronizer in the demodulator to lose lock. To counter this problem, the interleaving process transmits the bits out of order. So bits 1, 2, 3, 4 etc. are sent as 1, 11, 21, 2, 12, 22, etc. The receiver reassembles the bits in the proper order before passing the signal to the bit synchronizer. A burst which is 3 bits long will only affect one bit out of every three making it easier for the bit synchronizer to stay locked. The process of restoring the bits to their proper order is called de-interleaving as you might have guessed.

Another form of distortion which can degrade digital transmission is differential phase delay. This term is also called group delay. When a broadband signal is transmitted, elements of the signal end up on different frequencies. The ionosphere may not propagate these frequencies at the same rate or over the same path causing the components to arrive at the receiver slightly out of phase. This phase shift causes smearing of the transitions between states leading to intersymbol interference. This interference makes it harder for the receiver to distinguish which state was sent. The problem gets worse using QAM as the order is raised from 8QAM to 64QAM for example. Methods of combating this distortion include reduction of data rate and selection of antenna patterns to minimize multipath effects.

As the signal travels through the receiver, the IF filters can also delay parts of the signal more than others. The mechanical filters we have all grown to love in our R-390A's for their steep sides are particularly bad for group delay. Group delay is something the human ear is relatively insensitive to so ana-

log receivers normally do not even specify this parameter. When using an R-390A to receive teletype transmissions, the group delay was not a problem due to the low data rate and narrow bandwidth of such signals. Filters in receivers designed for reception of high rate digital signals are specified to limit the allowable group delay. The Watkins-Johnson HF-1000 is one of the receivers with good group delay performance because the IF selectivity is implemented using digital signal processing techniques.

So if you were hoping to adapt your R-390A for digital reception by adding an outboard demodulator and processor, you will probably be disappointed. You may be able to get by with the 16 kHz bandwidth filter selected and use an active DSP filter in the add-on device to obtain selectivity without group delay distortion.

One thing we have learned over this series of articles is that the world of short-wave listening will be very different a decade from now. There will still be many weak analog signals from small stations in the jungles of the less developed world to satisfy our DX needs, but the person who enjoys clear listening to program content from all over the world will have a new and exciting window on other cultures. Music of other lands will be heard with a clarity now reserved to our FM receivers.

This installment concludes this six-part series on digital short-wave broadcasting. Watch this space for additional news as developments occur throughout 1998 and beyond. The next meeting of the DRM is scheduled for February in Beijing. There may be developments worth reporting in later editions of this column.

I hope this brief overview has given you some familiarity with the issues confronting the designers of tomorrow's short-wave broadcasting technology. You should at least now be familiar with the terminology used by the digital design community and have an appreciation for some aspects of this difficult transition. Until next time, stay tuned. 

NASWA Awards

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Howdy! I hope you Holidays were everything you wanted them to be and hope you managed to get some time at the dials. DX season started slowly for me this year—just too much work stuff interfering with the radio stuff—but got a major boost when I was part of the HATDX team at the DX Palace in Buxton, on the outer banks of North Carolina. The DX and the tuning oil flowed and a great experience was had by all. From this prime location we were able to log all the Indian transmitters as well as a buncha other really good catches. If you have not gone on a DXpedition you owe it to yourself to do it; not only is the radioing fun but so is the conversation and the occasion.

The new NASWA Country List is now available from the Company Store. This is the most user friendly list we have ever produced and is pre punched and ready for a notebook. But you might know that already. What you might not know is that we will soon be offering enhancements for the list: a map set and a logging system that can be put in the same notebook to help you form a system of your own. News about these materials will be coming your way in the next several months.

The 11th (!) Annual Winter SWL Fest will be held in Kulpsville 12-14 March and I hope you plan to attend. The program, which I will feature in this column next month, is nearly complete and will feature updated versions of some of our old classics as well as some brand new topics. At this point we have: Easy Listening with John Figliozzi and Richard Cuff; Antennas with Joe Buch; Pirates with George Zeller and Andy Yoder; Utilities with Mike Wolfson; Scanners with

the Scanner Scum; Mediumwave with Dave Schmidt; a beginners forum, and a new product review, being coordinated by Alan Johnson. Plan to bring along your Drake R8 or R8A for the Drake R8/R8A technical clinic. You will have the chance to learn how to get the most out of your classic receiver, plus the tech boys will perform several measurements (free) for you. There might also be a few international broadcasters about, if one were to know. If you have never been, ask someone who has.

And March is also the month for the North American DX Championships, to be held 20-22 March this year. It should prove to be an interesting challenge this time and will feature a new point multiplier as well as hollow state category.

The coveted NASWA greens this month go to the hardy bunch below. The awards business continues to go slow—the list below represents four months of applications—but some of the awards presented are real dandies. Among them are a new DX Centurion and a Master DX Centurion, both major plateaus in the hobby. Also you will find a recipient of one of our most elusive awards, the Master Indonesian DXer. To get this jewel, John had to hear and verify "one Indonesian shortwave broadcast station in 13 or more provinces or special districts, including one from at least 7 of the Indonesian broadcast countries." Just hearing one or two Indos is a major effort for many, so you can imagine the amount of time and work that went into this one. Then he followed it with the Master Sub Continental DXer, another really tough one. With any of the Sub Continental awards,

the hearing of the station is sometimes the easy part—waiting nine months to a year for the QSL (if it ever comes) is always the hard part. I just received my Port Blair QSL for a reception made at the last HATDX in April.

Don Dankert

Antarctica DXer
European Senior DXer
DX Centurion
Ecclesiastic DXer
All American DXer

Richard Davis

210 endorsement, Master DX Centurion
40 endorsement, Master European
24 endorsement, All VOA
65 endorsement, Master British Commonwealth
35 endorsement, All American DXer

Jill Dybka

Australian DXer

Richard Hankison

* Antarctica DXer

Gary Neal

All Continental QRP-50kW
30 endorsement/Senior Ecclesiastic

Jan Peterson

World Wide DXer
European Senior DXer

Barry Riddiford

Master DX Centurion/210 endorsement

Stokes Schwartz

European Senior DXer

John Sgrulletta

Senior Indonesian DXer
Master Indonesian DXer
Master Subcontinental DXer
20 endorsement, Master PNG
60 endorsement, Asian Continental DXpert
60 endorsement, African Continental DXpert

Harry Smith

65 endorsement, Senior Ecclesiastic
125 endorsement, Pirate DXer

Edward Stroh

All VOA DXer
Senior Ecclesiastic DXer

Robert Weiss

All Continental QRP-50kW

John Wilkins

Senior Venezuelan DXer

Darren White

World Wide DXer
DX Centurion
Antarctica DXer
European Senior DXer
North American Continental DXer
Ecclesiastic DXer
Senior Ecclesiastic DXer
All American DXer

So long for this time. Better get ready for the fest and the NADXC in March. Look for the best schedule and rules for the NADXC in next month's Journal. Happy Hunting! 

FOR SALE: Sangean 8T2-909 with Crane tuning knob modification. In mint condition with box and all accessories. Price \$175.00. Money order only, please. Cathy Barrick at (717) 486-3443.

THE 1998 NORTH AMERICAN DX CHAMPIONSHIPS (NADXC)
A Shortwave Listening Contest Sponsored by
The Association of North American Radio Clubs (ANARC)

PURPOSE

This contest is designed to promote the shortwave listening hobby and to provide those SWL's and DXers interested in competing an opportunity to participate in a carefully run, challenging contest.

ELIGIBILITY: The 1998 DX Championship is open to all DXers residing in North America [as defined by the country list of the North American Shortwave Association (NASWA)]. Members of the NADXC Administrative Committee are excluded from participation as well as any contestant who has won first place two times or more in the last five years.

LISTENING PERIOD, FREQUENCIES, AND TIMES: The contest listening period will begin on Friday, 20 March 1998, at 1900 EST (0000 UTC) and end Sunday, 22 March 1998, at 2359 EST (0459 UTC).

SPECIAL CATEGORY: This year there will be a special Hollow State category with prizes awarded to the top three contestants who compile their logs exclusively with hollow state equipment. If an analog hollow state receiver is used, the final score is to be multiplied by 1.3. For a digital readout receiver, the actual score should be reported.

PRIZES: Plaques will be awarded by ANARC to the top three finishers. All entrants will receive a participation certificate indicating that they competed in the 1998 North American DX Championships. The certificates for the top 20 will have their place of finish in the NADXC indicated on the certificate.

SCORING: Contestants are to log as many stations as possible from as many countries as possible within the prescribed listening parameters. The **first station** logged from each country= **1 point**. The **second station** from each country= **3 points**; each **additional** station from that country= **5 points**. To qualify for the contest, each contestant must present logs of five stations from each continent (Africa, Asia, Europe, North America, Oceania and South America) as a minimum—entries without these 30 logs will not be considered. These required countries are to be counted in point totals. Upon completion of the contest, multiply the point total by the number of countries heard to determine the final score. For contest purposes, all clandestine stations and hobby pirate transmissions will be considered one "country." A station is a shortwave broadcaster whose transmissions are intended for reception by the general public. Each transmitter site of a broadcasting organization will count as a separate station. Different services of the same broadcast organization do not count as separate stations. Transmissions of a single broadcast organization on various frequencies may only be counted once. The use of multiple frequencies does not create as many new stations as frequencies used. For country counting and station counting purposes, the country list of the North American Shortwave Association (45 Wildflower Road, Levittown, Pa 19057) will be the sole criterion.

Participants are required to submit a log to include country, station, frequency, time, date, SINPO, and the basis of station identification (i.e., spoken ID, interval signal, language, program, known//frequency checked, etc.). The required five countries from each continent should be placed at the beginning of the log.

Each contestant is required to total his own entry and provide a summary of the number of countries and stations claimed to support the point totals. The receiver(s) used in the contest must also be indicated. Logs will be judged on accuracy, completeness and neatness. If the judges cannot read a log, it will not be counted for scoring purposes. The decision of the judges is final.

FEES: An administrative fee of \$4.00 plus four \$0.32 stamps must be provided for each contest entry. All entries must be postmarked by Wednesday, 1 April 1998, and sent to: **Dr. Harold Cones, Two Whits Court, Newport News, VA 23606 USA**. Checks should be made payable to Dr. Harold Cones, not ANARC or NADXC.

Contestants will be notified of the results in June, and a list of winners will be sent to each of the ANARC member clubs for publication.

Good luck from the 1998 NADXC Administrative Committee - Harold Cones, Kris Field and John Fisher.

Listener's Notebook

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JUST A REMINDER to those of you who are Internet-capable...be sure to visit your editor's Interval Signal site (<http://www.albany.net/~alcue>), RealAudio plug-in required.

As ever, thanks to our myriad contributors for their help in making this month's column possible!

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ALBANIA 9939.9 TWR Relay 1617* Ending Armenian with ID "Trans World Radio, Monte Carlo" and mention of Yerevan, IS and off. Site assumed as per WRTH98, freq down from listed 9950. (27-Dec/Hill-MA)

ALGERIA *Radio Algiers International:*

1200-1300 English 15160v 11715v

1300-1400 Spanish 15160v 11715v

(BBCM) Arabic 7245 doesn't open until 1000 now. (17-Jan/Green-UK/WWDXC Top News/Bueschel-GER)

ANGOLA *Vorgan*—Voz da Resistencia do Galo Negro, presumably in UNITA's quarters in Jamba, Southern Angola, is now heard evenings on 6225 (ex 6220) surely to avoid the several ME jammers plaguing fq's around 6220 (+ on 60 m!). The possibility of actual transmitter site being outside Angola must not be ruled out, however. (Goncalves/DSWCI DX Window/Veldhuis-HOL) [Based on what evidence?—AQ]

Emissora Provincial Do Zaire, M'Banza Congo, was noted reactivated Nov 25th at 2049 with Portuguese talk and music. (Hernandez-TOGO/DXW/DX Ontario World Radio Report/Clark-ONT) [Frequency?—AQ]

ARGENTINA 15820U "De Coleccion"/R. Rivadavia 2332 talk in Spanish till 2335, when man in accented English announced, "This program, 'De Coleccion', that is broadcast through 1270, LS11, R. Provincia de Buenos Aires, Republic of Argentina, will send QSL cards to all those radio listeners [word missed] that are so kind as to send us proof of their reception of our signals. Write to 'De Coleccion', Post Office Box Number 96, Central Post Office Postcode 1900, La Plata, Argentina." Then back to Spanish. Next evening at this time, was carrying R. Rivadavia with a sports talk program called "Deportivas del aire," at 0003 (Dec. 30 UTC), ID of "Cubriendo todo el pais, transmite LR5, Radio Rivadavia, en 630 kilo-Hertz, Buenos Aires, Republica Argentina." Per Gabri-

el Ivan Barrera, this program is beamed to Antarctica on Sundays. Haven't seen 15820U reported, though. (28-Dec/Hill-MA) [per Barrera-ARG, 2 IRC's are required for QSL; address reports the the program's editor, Mr. Jorge Bourdet.]

ARMENIA *Voice of Armenia*, Suns only special in German retimed from 0930-1000 to 1000-1030, still on 15270. (28-Dec/PANVIEW-BUL/WWDXC 'Top News/Bueschel-GER) [Does this move or eliminate the English broadcast formerly occupying this time slot?—AQ]

V. of Armenia continues to claim English is at 2145 on 9965, but program actually begins at 2115. CRI is also on 9965 until 2127* (Hauser-OK)

AUSTRALIA Revised sked for the suddenly-slimmer *Radio Australia:*

0000-0100	English	17795 17750 15510 13755 13605 12080 9660
0000-0100	Vietnamese	15415
0100-0200	English	17795 17750 15510 15415 15240 13605 12080 9660
0200-0400	English	17795 17750 15510 15415 15240 13605 12080 9660
0400-0500	Chinese	17750 15415
0400-0500	English	17795 17750(SaSu) 15510 15240 13605 12080 9660
0500-0600	Cambodian	17750 15415
0500-0600	English	17795 17750(SaSu) 15510 15240 13605 12080 9660
0600-0800	English	17750 15510 15415 15240 13605 12080 11880 9660
0800-0830	English	17750 15510 15415 12080 11880 9710 9580 5995
0830-0900	English	17750 15510 15415 12080 9710 9580 6080 5995
0900-1000	English	17750 11880 9770 9580 6080
0900-1200	Tok Pisin	9710 6020 5995
1000-1100	English	17750 11880 9580 6080
1100-1200	English	9580 6080

1100-1330	Chinese	11880 9500
1200-1330	English	9770 9580 6080 6020
1330-1400	English	11660 9770 9580 6080 6020
1330-1430	Vietnamese	9500
1400-1430	English	11660 9770 6080 6020 5995
1430-1500	English	11660 9770 9500 6080 6020 5995
1500-1700	English	11660 9770 9500 6080 6020 5995
1700-1800	English	11880 9770 9500 6080 6020 5995
1800-2000	English	11880 9770 9500 7240 6080 5995
2000-2100	English	11880 9770 9500 5995
2000-2100	Tok Pisin	7240 6080
2100-2130	English	17795 12080 11880 9770 9660 9500 7240 5995
2130-0000	Indonesian	15415
2130-2200	English	17795 13755 12080 11695 9660 9500 7240
2200-2300	Chinese	15240
2200-2300	English	17795 15510 13755 11695 9660
2300-2400	Cambodian	15240
2300-2400	English	17795 15510 13755 12080 9660
2300-2400	Vietnamese	11695

(BBCM)

Australian Defense Forces Radio in English 0430-0630 new 15707U, 13525U not heard. (23-Dec/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

AZERBAIJAN /ARMENIA/KARABAGH (CLAN-DESTINE?) 9677 *The Voice of Justice from the Republic of Mountainous Karabagh* (country name as written on the envelope) replied to my reception report by a personal, partly detailed letter in 4 months. The original reply was written in what seems to be Armenian and has been translated on a separate sheet of paper into German on its way to my P.O. Box. My report of last Sept was sent to a self-fabricated address and obviously reached the station, now giving its correct address as:

Independent Radiostation Voice of Justice, Tigran Meds-Str. 23 A, Stepanakert, Republic of Mountainous Karabagh.

When I sent my report, I added ****via Armenia****, which might be better than just writing their self-declared country name on the envelope. v/s Mr. Lewon Hajrapetjan (spelling as given in the translated letter; BBCM once gave his name as Mr. Levon Ayrapetyan), station director, in his friendly letter told me some details about his station:

The Voice of Justice is an independent radio station, which started broadcasting on Aug 12, 1997, in the capital of the Rep of Mountainous Karabagh.

According to the letter, it is financed by some local businessmen, trying to calm down the conflict with Azerbaijan and working towards a peace agreement. Their possibilities of running the station are limited at the time, but they hope to increase their activities in the future. They are transmitting on 9677 kHz on Tue and Fri at 1500-1530 UTC, Wed and Fri at 0600-0630 UTC. When I heard them here in Germany several times during Sept 1997, they always had heavy modulation problems. (15-Jan/Kuhl-GER/WWDXC Top News/Bueschel-GER) 9677.08, Naghorny Karabakh Region, strong 0600-0628, modulation is still not perfect ("FMing"), but seems to be better than in Oct-Nov 97 (when last hrd). All programs in Azeri, but fragment of RS was hrd (interview with local administrator). Prgm mostly consists of local nx, reviews—M&W readers. Drifted to 9677.097 by the end of the progr. No official data about their power, but estimate not less than 50 kw. (7-Jan/Titarev-UKR/NU/WWDXC Top News/Bueschel-GER)

BELARUS Radiostanzya Belarus introduced a new schedule for broadcasts in German:

0530-0600	7105 7210 Th/Su
0630-0700	7105 7210 Su
2030-2100	7105 7210 We/Sa/Su
2130-2200	7105 7210 We/Sa/Su

(Ludwig-GER/DSWCI DX Window/Veldhuis-HOL)

3346L SSB Utility Relay 2206 Lots of emphatic talk in Slavic language by man, later joined by woman, with occasional pop vocals. Followed past 2235 and rechecked just after 2300, when it seemed that duplex voice traffic was now being transmitted. Very weak, with deep fades and echoey audio, all in a noisy stew. Overseas sources call this a R. Mayak relay, but it sounded more like a relay of a Belarusian domestic outlet such as R. ROKS. (3-Jan/Hill-MA) I think these are likely military transmitters, carrying the radio programs just to prevent other services from occupying the frequencies (and maybe to entertain the operators...). (Ludwig-GER/DSWCI DX Window/Veldhuis-HOL)

BOLIVIA 4409.4 R. Eco, Reyes 1114-1140 mx en castellano Id "Radio Eco contigo..." (31-Dec/Arrunategui-PRU/Chasqui DX)

4702.3 R. Eco, San Borja, Ballivan 0000-0020 22222 program *Saludos y mensajes por fin de ano, un servicio especial* ID "Esta con Radio Eco, siga con nosotros" mx Caballo Viejo. (31-Dec/Arrunategui-PRU/Chasqui DX)

4864.4 **Radio 16 de Marzo**, 1015-1025, Noted a man in comments here briefly before the signal started to fade in and out. Overall, the signal was threshold. (23-Dec/Bolland/DSWCI DX Window/Veldhuis-HOL)

5952.4 R. Pio XII (t), Siglo XXI 0215-0236 hablan en dialecto, mx en castellano, luego a las 0234

se perdio la senal. (8-Dec/Arrunategui-PRU/Chasqui DX)

6135.0 R. *Santa Cruz*, Santa Cruz 1040-1115 advs Crediaki, el credito mas facil del pais ID "En el aire Radio Santa Cruz la primera, es la radio que esta en todo lugar, en los 970KHz onda media y 6135KHz onda corta, Radio Santa Cruz la primera desde Santa Cruz, Bolivia" advs. (17-Jan/Arrunategui-PRU/Chasqui DX)

6155.0 R. *Fides*, La Paz 1102-1130 nx ID "Desde Radio Fides FM..." advs Banco de la Nacion de Bolivia, les brinda (24-Jan/Arrunategui-PRU/Chasqui DX)

9625.0 R. *Fides* 1831 station jingle and starting soccer program W/ "gool" sample in the intro. Canned anmt by man "Aqui comienza, Radio Deporte, un pais en sintonia,...cuarenta emisoras...de la mayor cadena deportiva, por Fides, Libertad e Infinita de La Paz..." Good. (4-Jan/Nigro-URU)

CAMBODIA "I checked 11940 every day for over two weeks for both the 0000 and 1200 broadcasts, but there was nothing on the frequency. Roland Schultz reported hearing it from the Philippines on 23-Nov. I should have been able to hear it since I was only 200 miles from Phnom Penh. I must have been in the skip, but it's hard to believe I never heard a trace of the signal." (Craighead-VIET) [Wendel, this could be the Asian version of the "WINB Syndrome," wherein most DX'ers on ECNA haven't heard a trace of the Red Lion, PA station in eons.-AQ]

CANADA 4820 *Radio Canada International* 1647 Subharmonic of 9640 readable with Fats Waller song and commentary in English. This is the third RCI subharmonic I've heard in the past few months: 4877.5 once, 4812.5 daily, and now 4820. (11-Jan/Hill-MA)

CENTRAL AFRICAN REPUBLIC 5035 *Radiodiffusion Centre Afrique*, Bangui, 1715, Chat between two men in African language and French, at 1730 announcement on Recessement followed by News in French by man and local announcement by woman, then followed by a presidential speech 1830-1900. NA(?) after the speech and just after that Bangui and Centre Afrique has been heard. Very weak -and at 1930 went off or covered by R.Tashkent S/on at the time. (23-Jan/Vaghjee-MAU/DSWCI DX Window/Veldhuis-HOL) 2055-2101* hilitve vocals & M announcer in FF with closing anmts at 2057; brass band anthem at 2100. Fair level. (25-Dec/Clark-ONT)

CHAD Per phonecall to the station [I'll bet that was an interesting phonebill!-AQ], *RNT* Ndjamena got a new final stage tube for the 60mb transmitter, but they do not plan to reactivate 4904.5 on a permanent basis. The freq will only be used as a possible

temporary replacement for 7120. (16-Jan/Roosen-GER/Passman/DXW/WWDXC Top News/Bueschel-GER)

6165 *RNT* Tchadienne, 2258, FF ID, Afro-Pop, NA, 2305 S-off./840 kHz MW. (17-Jan/Schneeberger via DXW/WWDXC Top News/Bueschel-GER)

CHINA *China Huayi Broadcasting Company*, Fuzhou:
0255-0700 Chinese 6185 4830
0855-1602 Chinese 6185 4830
(BBCM)

Jiangxi People's Broadcasting Station (Chinese: "Jiangxi Renmin Guangbo Diantai"):
0000-1500 Chinese 5020
2100-2400 Chinese 5020
(BBCM)

CHINA-TAIWAN It turns out the new English name for the former Voice of Free China is *RADIO TAIPEI INTERNATIONAL*, not "Voice of Tapei International" (Yamashita via Padula) or "Taipei Radio International" as reported earlier. I heard the new ID, "This is Radio Taipei International" at 0200 and 0300 UTC.

In Chinese, however, it is indeed TAIPEI GUOZI ZHESHENG, literally "Voice of Taipei International." In Japanese, the new name is TAIPEI KOKUSAI HOSO, a literal equivalent to the English name.

There was a lot of hot debate last year within the station about this name change. "Taipei Radio International" was first suggested but many didn't like it, and some insisted on "Voice of Taipei International," which many opposed on account of its strange wording. Apparently now it pushed through in Chinese, while in foreign languages the station took on the new name "Radio Taipei International." In VOFC's last Japanese transmission on Dec. 31, the outspoken main personality called this name change the biggest "disaster" of 1997! This kind of brutal honesty is what I love most about this station.

In English, the announced mailing address is unchanged from P.O. Box 24-38, Taipei, Taiwan, ROC. They usually use the P.O. Box in English and the street address in Japanese. (Ashimori-JPN/DSWCI DX Window/Veldhuis-HOL)

7107.6 *CBS Taiwan* 2332 man/woman dialog in Chinese; incredibly choppy, making it virtually impossible to read. Fairly strong at first but faded rapidly, then got clobbered by VOR/7105 s/on just before 2400. Also heard at 1200 on Jan. 3 with possible pips (though they might have been coming from an adjacent station) and ID by woman in Chinese; just as choppy as during evening reception. This exact freq was reported as Nei Menggu by a California DXer last fall, but WRTH98 shows all Nei

Menggu SW transmitters as inactive. Station IDed by Tony Jones. (1-Jan/Hill-MA)

As planned, Radio Taipei International commenced on 1 Jan, and this is the designator for the Foreign Language Network, External Services. The official schedule:

0200-0300	English	5950* 7130 9680* 11740* 11745 11825 15345 15600* 17750*
0200-0300	Spanish	15215* 17845*
0300-0400	English	5950* 9680* 11745 11825 15345
0400-0500	Spanish	11740*
0600-0700	Spanish	5950*
0600-0700	Thai	15270 15345
0700-0800	French	7520*
0800-0900	Indonesian	7130 11550
1100-1200	Japanese	7130 11745
1200-1300	English	7130 9610
1200-1300	Indonesian	11550 15345
1400-1500	Japanese	7130 11745
1400-1500	Thai	9610 11860
1500-1600	Vietnamese	11550 15345
1700-1800	Russian	9955
1800-1900	German	9955
2000-2100	Arabic	9630 11550
2000-2100	French	9610 15600*
2100-2200	German	15600* 17750*
2100-2200	Japanese	7130 11745 153456
2100-2200	Spanish	9610
2200-2300	Thai	7445
2300-0000	Spanish	15130* 17805*
2300-0000	Vietnamese	11550 15345

*=via WYFR, Florida. Schedule based in part on information appearing on the Asian Broadcasting Institute Web page, with typographical errors amended. (Padula/EDXP/Padula-AUS)

CLANDESTINE—AFRICA 6549.5 *Holy Koran Radio* 1655 Religious Program in Arabic, M announcement in Somali at 1727 followed by long religious talk, 1757 announcement and Koran recitation before s/off 1800*.

After that, *Voice of Lebanon* is heard on frequency. (9-Jan/Vaghjee-MAU)

Voice of Sudan, believed to broadcast from studios and transmitters in Asmara, Eritrea.

0400-0600	Arabic/English	12008U 9025 8000
1600-1800	Arabic	12008U 9025 8000

English is irregularly heard from 0515-0530 (BBCM)

CLANDESTINE—ASIA *Radio of the Provisional Government* (Cambodia) 5407 1130 stringed instrument IS, M ID twice, Cambodian talk W&M, 1227 instr mx, 1229 off. (23-Nov/Craighead-VIET)

New Star Broadcasting Station (China) 15388 13750 11430 9725 8300. Usually four frequencies

(15388 11430 9725 8300) for on-the-hour broadcast 2300-1500; nothing heard at 2200, I was unable to listen at 1600-2100. Some generalizations can be drawn from the several days I checked: the higher the frequency, the more often it was used and the stronger the signal (both day and night); the higher the frequency the shorter the broadcast—from about 10 minutes on 15388 to almost 30 minutes on 8300. Never heard two frequencies in parallel; they varied from about 5 to 30 seconds apart. At times they may have been carrying different programs, or were so far out of sync I was unable to make any connection. 0000 CC inst music, 0001 woman said "...*guangbo diantai...si er...thai...*" twice. (I think "Si er" is "4-2"). 0002 CC inst mx again, 2 more ID's W spoke, mentioning CC surnames (Lio mentioned many times in every broadcast, and Ling mentioned often) and groups of 4 numbers often repeated. Similar on half hours, but not heard as often and only 1 or 2 frequencies heard: 15388 13750 11430 and/or 9725. 8000 never heard. (16-Nov thru 1-Dec/Craighead-VIET) (see also LN Extra elsewhere)

"I was less than 500 miles from Myanmar, target area for the *Democratic Voice of Burma* 11850, but there was no trace of it at 1430, for nearly two weeks. I hear this regularly in Kansas since returning home. I wonder if this broadcast is directed toward North America rather than Asia." (Craighead-VIET)

CLANDESTINE—MIDEAST 6210 *Democratic *V. of Iran* *1827 I guess it's this one that comes on every day with a big carrier followed by what seems a tape loop of IDs and music, then Middle Eastern programming—but the audio is almost nonexistent, and there's only a faint het on scheduled // 5835. At any rate, both signals go off at 1901. (2-Jan/Hill-MA)

Voice of Rebellious Iraq (Arabic: Sawt al-Iraq al-Tha'ir):

0330-0600	Arabic	6020v
1300-1530	Arabic	6020v

(BBCM)

It's doubtful that *Voice of Southern Azerbaijan in Azeri* is operating via Dushanbe-TJK. The freqs of AZE and TJK are coordinated commonly. Both countries have friendly relations. Acc to VoIRI progrs, Iran is very hostile to AZE govt and president Geydar Aliev, because of the persecution of the Iranian minority in AZE. (2-Jan/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

3920U *V. of the Communist Party of Iran* 0434 Talk in Farsi interspersed with orchestral bridges (such as a few measures of "Bolero") every 5 minutes or so; followed past 0445. Nice signal here, coping with usual ham QRM as well as static; only fair on // 4376.5, which seemed DSB. (8-Jan/Hill-MA)

4760 V. of the *Iraqi People* 1943* Running a bit later than usual 1930-1935v* with orations and martial music; much too weak even to guess at language. Doesn't come through every day checked. ID based on recent European reports of this one around 0300-0400. (5-Jan/Hill-MA)

New freqs noted in the "Kurdish 73 mb" at 0350:

- 4160 *VoIraqi Kurdistan*
- 4150 *VoIraqi People - VoDemocracy*
- 4080v *VoPeople of Kurdistan* 0235-0655 & 1335-1755, //new v6025.2, (x3965-4060). VoPK progr: 1335 classical mx, 1345 Hymn of Kurdistan, 1350 prayer, 1357 ID, 1400-1600 and past 1700 Kurdish, 1600-1700 Ar progr. Repeated on next day morning resp. (2-Jan/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

CONGO—DEMOCRATIC REPUBLIC OF (Kinshasa) 15244.5 *RTNC* 1701 Talk in French followed vocal by woman at 1703; announcement by man at 1705 and into a couple of soukous numbers. Followed past 1715, but hard to read through stop from South Africa on 15240. (11-Jan/Hill-MA)

5066.35 *Voice of the People*, Bunia, 0503-0508, bits of talk in French by man and Afro vocal thru 5070 stop. Carrier strength unusually good; audio rarely detectable thru the adjacent QRM. Presumed on former R. Candip freq. (25-Dec/Clark-ONT)

CROATIA *Croatian Radio Shortwave* (Croatian: "Hrvatski Radio, Kratki Val"), Zagreb, all relayed via Jülich:

0000-0200	English/	9520
0200-0400	EE/Croatian	6120 5840
0700-1000	EE/Croatian	11730
2100-2200	Croatian	9590

(BBCM)

HRTV Zagreb 7185 noted 0955-1100 w/Christmas music, news in Croatian. (26-dec/Liangas-GRC/EDXP/Padula-AUS) 6175.4 Hrvatska RTV (Program 1), January 21, 0820, Croatian talk about religious matters, 0900 ID, local news, 0905-0907 English news bulletin >>[...] brought to you by the Croatian Information Center.<<. into program of classic music. (21-Jan/Kuhl-GER/DSWCI DX Window/Veldhuis-HOL)

ECUADOR 4779.8 R. *Oriental*, Macas 1045-1105 ID "5 48 de la mañana en todo el Ecuador Continental, a todos los amigos de Radio Oriental" program Alegria Ecuatoriana (4-Jan/Arrunategui-PRU/Chasqui DX)

EGYPT 4900 R. *Cairo* 2125 Man and woman in Arabic, Middle Eastern music. Strangely, although // 9850 was heard, presumed fundamental of 9800 was inaudible even though that channel was completely clear. (10-Jan/Hill-MA)

Radio Cairo GS in Arabic 0400-0700 nominal on 9620, noted often on half freq of 4810. //9770 & 9800, but also mixture signal on 9710 (9800/9620). (11-Jan/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

ERITREA 7085 V. of the *Broad Masses of Eritrea* 1754-1828* Vernacular talk by two men interspersed with mostly drum-heavy native vocals rather than typical Horn of Africa numbers. At 1814, brief announcement by woman, who returned at 1824 and declaimed till s/off (which is normally 1800*). Weak at first, fair by closed down, with intermittent QRM from ham SSB and RTTY. (30-Dec/Hill-MA)

9230 1557-1624* pres. *Voice of Truth*, IS—machine guns sound, piece of Quran, Ar talks, birds sound, talks on Haifa-ISR, about marine maneuver together with USA and Turkey at 1618, 1623 machine gun & detonation sounds IS, 1624 transmitter s-off. Weak, no S-meter reading at all. Thanks to Michiel Schay's tip. (7-Jan/Schulze-PHL/WWDXC Top News/Bueschel-GER)

ETHIOPIA 9560.2 *Radio Ethiopia*, Gedja, 1714-1718, M speaker in French with ID and talk. 22432 (22-Dec/Veldhuis/DSWCI DX Window/Veldhuis-HOL)

9704.20 *Radio Ethiopia*, Gedja, 1457, M speaker in Amharic followed by IS at 1458, at 1459 Radio Ethiopia ID by M speaker, followed by gong and news by M speaker in Amharic, at 1503 half minute silence, then continued with the news until 1505, followed by African horn style of music with Amharic M songs. Undermodulated. (28-Dec/van Rooy-HOL/DSWCI DX Window/Veldhuis-HOL)

Voice of the Revolution of Tigray from Kekelle—vs Dir. Fre Tesfamichael—who among other gave following schedule:

0400-0500	5500 6315	Mo-Fr
0400-0800	5500 6315	Su
0930-1030	5500 6315	Mo-Fr
1500-1600	5500 6315	Sa/Su

(Ekbloom/DSWCI DX Window/Veldhuis-HOL)

GEORGIA *Georgian Radio's* external service identifies itself in Russian as "Radiostantsiya Gruziya;" the English service announces itself as "Program Georgia." Following sked, based on monitoring, is effective until 29th March:

0500-0600	Georgian	6080	Tu/Th
0600-0630	Russian	11805	
0630-0800	Georgian	6080	Tu/Th
0630-0700	English	11805	
0700-0730	German	11805	
0800-0830	Georgian	11910	
0830-0900	English	11910	
0930-1000	English	11910	
1000-1030	Georgian	11910	
1600-1700	Georgian	5990	Sa/Su

1630-1700	English	6080
1730-1900	Georgian	5990 Sa/Su
1730-1800	English	6080
1800-1830	German	6230
1830-1900	English	6230
1930-2000	English	6230
2000-2030	German	6230
2030-2100	Russian	6230

(BBCM)

Tbilisi External Service noted with on 6240 with English 1930-2000, dreadful modulation (2-Jan/Padula/EDXP/Padula-AUS)

Voice of Hope relays:

1400-1530	English/Hindi	9310
1700-2100	English/Russian	6290

(BBCM)

6292 V. of Hope 1703 Up from normal 6290 with usual gospel stuff; fair at first, building to solid level by 1720 or so. (27-Dec/Hill-MA)

GERMANY DTK Jülich facility relay changes: *RVI* in Dutch to EaEUR 1700-1730 new7410 (x7255) *SRI* in GG/II/FF/EE 1830-2030 new7385, (x7410) (15-Jan/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

GREECE *VoGreece* in PP/SS/EE 2305-2350, on new11710, //9395 9425 11595. (31-Dec/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

GUYANA *GBC, Voice of Guyana*, is currently using 5949.45v kHz (down from 5951v) for both morning and evening transmissions. The 90mb channel of 3290 became silent about a week before Christmas. Evening reception is virtually impossible now, because VOFC (via WYFR) blankets 5950. (Clark-ONT/DX Ontario World Radio Report)

HUNGARY *Radio Budapest*:

0000-0100	Hungarian	11660 9835 6165 Mo
0100-0200	Hungarian	9840 6035
0200-0230	English	9840 6035
0230-0330	Hungarian	9840 6035
0330-0400	English	9840 6010
0400-0430	Russian	6005 3975
0430-0500	Ukrainian	6005 3975
0500-0530	Romanian	7260 3975
0530-0600	Croatian	5965 3975
0600-0630	Slovak	7155 3975
0630-0700	Serbian	9870 7155
1000-1100	Hungarian	21560 17805 15395
1100-1200	Hungarian	21560 17805 15395 Su
1200-1300	Hungarian	9840 7220 Su
1300-1400	German	9840 7135 SU
1400-1500	Hungarian	9840 7135
1530-1600	Russian	7180 5945
1600-1630	Croatian	5965 3975
1630-1700	Romanian	7185 3975
1700-1730	Ukrainian	5945 3975
1730-1800	Slovak	7190 3975
1800-1830	Serbian	9805 7255 Mo-Sa

1800-1900	German	9805 3975 Su
1830-1900	German	9805 3975 Mo-Sa
1900-2000	Hungarian	9840 3975
2000-2030	English	9840 3975
2030-2100	German	5965 3975 Mo-Sa
2030-2100	Serbian	9670 5965 3975 Su
2100-2200	Hungarian	9840 9670 3975
2200-2230	English	9840 3975
2300-2400	Hungarian	11660 9835 6165

(BBCM)

ICELAND *Rikisutparvid* Reykjavik schedule from 23-Dec:

1215-1300	11402 13860
1410-1440	11402 13860
1855-1930	5055 7735
1935-2010	11402 13860
2300-2335	9275 11402

(22-Dec/Rikisutparvid/Klink-GER/WWDXC Top News/Bueschel-GER)

INDIA *AIR Itanagar* was reactivated in December on 4990 kHz after being off-air for several months. Morning s/on is at 0025 with signature tune and Delhi news relays at 0030-0040 in Hindi and English, while the evening transmission is observed at 1200+ to 1630 s/off. *AIR Itanagar* serves the predominantly tribal state of Arunachal Pradesh from the hilly track on the northeast boundary of India. (Weerakoon-SRI/NU/DX Ontario World Radio Report/Clark-ONT)

List of stations heard on January 2:

3223	1430	<i>AIR Shimla</i> , Vernacular, Trad. Ind. Music
3245	1435	<i>AIR Luknow</i> , Vernacular, Trad. Ind. Music
3315	1440	<i>AIR Bhopal</i> , Vernacular, report.
3345	1445	<i>AIR Jaipur</i> , Vernacular, report. 0=2-3
3365	1450	<i>AIR Delhi</i> , Vernacular, Trad. Ind-Music
3390	1455	<i>AIR Gangtok</i> , Monot. song, -tent-
4760	1458	<i>AIR Leh</i> , Trad-Ind-Music
4775	1500	<i>AIR Imphal</i> , ID, News in vernacular
4820	1502	<i>AIR Calcutta</i> , Vernacular, News, QRM CHN, Tent
4840	1505	<i>AIR Mumbai</i> , Vernacular news
4850	1510	<i>AIR Kohima</i> , Vernacular, Trad-Ind.Music
4895	1515	<i>AIR Kurseong</i> , Vernacular, Trad-Ind. Music
4920	1520	<i>AIR Channai</i> , Vernacular, Trad-IND-Music
4940	1525	<i>AIR Guwahati</i> , Vernacular, Ind-Music, QRM RUS
4950	1530	<i>AIR Srinagar</i> , Vernacular, ID, News and report.
4970	1538	<i>AIR Shillong</i> , Vernacular, Talk, Trad-Music, QRM CHN

(2-Jan/Schneeberger/DSWCI DX Window/Veldhuis-HOL)

INDONESIA *Voice of Indonesia* sked, per BBCM this time:

0030-0100	Spanish	11785 9525
0100-0200	English	11785 9525
0200-0300	Indonesian	11785 9525
0300-0400	Arabic	11785 9525
0800-0900	English	11785
0900-1000	Malay	11785
1000-1030	Thai	11785
1030-1130	Chinese	9525
1130-1200	Japanese	9525
1200-1300	Indonesian	9525
1730-1800	Spanish	15150
1800-1900	German	15150
1900-2000	French	15150
2000-2100	English	15150

(BBCM)

2490.3 **RRI Ujung Pandang** 1845, Indo ballads at low level. (10-Jan/Foster/Numero Uno/Jembatan DX/Yamada-JPN)

3215.1 **RRI Manado** At 1710 Mention of Ramadan, short music and ID was often heard. Fair. (30-Dec/Yamada-JPN/Jembatan DX)

3241.5 **RRI Ambon(t)** 1239, low audio, though fair carrier with old Indo pop songs. Relayed Jakarta at 1300. Reactivated after long absence. (6-Jan/Foster/Numero Uno)

3325.0 **RRI Palangkaraya** 2215-2232 already nicely into audio w/EZL music at tune-in; 7-note IS theme on stringed instrument repeated 6 or 7 times at 2230, then M announcer as audio faded out. Fair level during peak which was best <2220>. (6-Dec/Clark-ONT) 2205 Woman in Indo, probably relay of Jakarta news. Audio level dropped sharply after 2206, when seemingly local programming featured instrumental number, vocal by woman, plaintive lagu by man. (4-Jan/Hill-MA)

3344.86 **RRI Ternate** 1257-1310, special Jakarta program // 3905, 4606.4, 4753.35, etc. Solid carrier; weak-fair audio peaking after local SR here. (7-Dec/Clark-ONT)

3395.1 **RRI Tanjung Karang** 2209 Lagu, then rather solemn-sounding discussion between two men in Indo. Theme at 2220, announcement, another lagu. (11-Jan/Hill-MA) 2255, instrumental mx announced by M just above QRN threshold; SCI three times at 2259, into W tlk at 2300. (13-Jan/Novello-NC)

3904.8 **RRI Banda Aceh** 1418 ID by M as "RRI Banda Aceh," then dangdut music. 1458 SCI. 1500 Jakarta news relay. 1511 short music then signed off. Poor. (21-Dec/Yamada-JPN/Jembatan DX)

3905.0 **RRI Merauke** 1258-1300, EZL music to local ID by woman; SCI at 1259:30 to Jak news at 1300. Strong signal. (25-Dec/Clark-ONT)

3959.70 **RRI Padang** 1839-1845, Bahasa Indonesia with local Indon music and light hearted talk between a Man and Women, with lot's of laughter. (24-Dec/Kecskes/DX Window/Jembatan DX/Yamada-JPN)

3960.8 **RRI Palu** 1520 with Christmas mx, such as "Away in the Manger." Rechecked at 1545, with more Xmas mx, "Joy to the World" and orch. ballads. (25-Dec/Kusalik/Numero Uno/Jembatan DX/Yamada-JPN)

3976.0 **RRI Pontianak** 2227 Presumed this one with woman singing seductive lagu reminiscent of a James Bond movie. IS of mi-fa-la-fa several times at 2229, pips at 2230, man in Indo. Choppy and QRM'd by hams. (11-Jan/Hill-MA)

3986.7 **RRI Surabaya** 1607, ID as "Radio Republik Indonesia Surabaya Programa Satu." Lasted till 1700*. (6-Jan/Foster/Numero Uno)

4000.2 **RRI Kendari** 1520-1535, Bahasa Indonesia, soft Indonesian pop hits, ID by woman at 1534. 22322 (16-Jan/Schnitzer/DSWCI DX Window/Veldhuis-HOL)

4003.2 **RRI Padang** 1600 lagu melayu. (other RRI station relayed Jakarta news.) 1601 suddenly switched to Jakarta news relay. 1605 local pops. 1629 IS. 1630 ID as "Radio Republik Indonesia Padang dengan Ikhtisar Berita Daerah," then local news. 1634 reading of Holy Koran. Fair. (28-Dec/Yamada-JPN/Jembatan DX)

4606.4 **RRI Serui** 1255, EZL vocal noted in passing. Weak-fair on rolling fades. (26-Dec/Clark-ONT) 1240-1340 & 1408, special Jak program, including some Xmas music, straight thru to anthem at 1330, //3905 and other eastern Indo's. Local man & woman announcers at 1331, then pop music. Excellent signal—way better than Ujung Pandang-4753.35. Best opening of the season, particularly to Irian Jaya/PNG. Still audible w/fair signal at 1408 recheck. (27-Dec/Clark-ONT/Jembatan DX/Yamada-JPN)

4777.12 **RRI Jakarta** 1325, still audio weak-fair with M announcer but not // the special program hrd on many eastern Indo outlets. (27-Dec/Clark-ONT/Jembatan DX/Yamada-JPN)

4777.12 **RRI Jakarta** talk by RRI W announcer. Weak. (31-Dec/Clark-ONT/Jembatan DX/Yamada-JPN)

4789.12 **RRI FakFak** 2110-2115, moderate carrier to bits of audio until wiped out by local QRM. Presumed but peaking exactly as it should. (25-Dec/Clark-ONT)

4845.1 **RRI Ambon** IS at 2129, ID by M at 2130 as "Radio Republik Indonesia Ambon dengan Berita Berita Daerah," then local news. Fair. (9-Jan/Yamada-JPN/Jembatan DX)

4920.1 **RRI Tanjung Pinang**, Holy Koran at 1555. SCI at 1559. Jakarta news relay. At 1604 ID by M as "Saudara bersama kami Radio Republik Indonesia Tanjung Pinang" then talk program like radio play. Poor. (2-Jan/Yamada-JPN/Jembatan DX)

4927.0 **RRI Jambi** 1635 local news by M including ID at 1636 as "Radio Republik Indonesia Jambi." 1641 local pops. Fair to poor. Changed from 4925kHz again. (28-Dec/Yamada-JPN/Jembatan DX)

4931.65 **RRI Surakarta** 1436-1501. Mx prgm, SCI at 1459. This stn listed as Saturday only. Weak. (27-Dec/John Fisher/Numero Uno)

5040.0 **RRI Pekanbaru** 1305 & 1315, Indo woman announcer at 1305; Arabic-influenced vocal at 1315. (27-Dec/Clark-ONT)

6025.1 **RRI Banjarmasin** 1815 telephone conversations and local pops. 1859 SCI. 1900 Jakarta news relay. 1908 ID by M as "Radio Republik...Banjarmasin," then local pops. Poor. (26-Dec/Yamada-JPN/Jembatan DX)

6070.97 **RRI Jayapura** 1312-1320+, listened to Koranic chants for Ramadan in the absence of any decent Trop Band signals! Fair, though touchy to separate from local CFRX-6070. No sign of highly irregular Biak-6153.8v nor long term inactive Nabire-6127.5, in spite of hope they might be back for Ramadan. (3-Jan/Clark-ONT)

7098.6 **RRI Yogyakarta** 2159 Up from reported 7098.2 with SCI and woman in Indo, presumably news; very weak and chopped up by a Venezuelan SSB traffic net and ham data transmissions. (27-Dec/Hill-MA)

7231.1 **RRI FakFak** 1320 & 1410, special program hrd //4606.4; still fair w/local program at 1410 recheck but most of the time buried under murderous ham QRM. (27-Dec/Clark-ONT)

7234.4 **RRI Palu**, local pops at 0826. At 0854 Closing annt by W including ID as "Radio Republik Indonesia Stasiun Palu," then signed off. Usually relayed program from Jakarta is heard at this time. Poor. (1-Jan/Yamada-JPN/Jembatan DX)

9525.0 **V.O.Indonesia**, after finished Chinese program at 1130, non-stop music program was heard. Japanese program should be heard at this time. At 2100 Indonesian program was started as usual. Good. (2-Jan/Yamada-JPN/Jembatan DX)

9552.4 **RRI Ujung Pandang**, around 0330 strong as ever, hrd past 0500. (17-Jan/Werdin-INS/WWDXC Top News/Bueschel-GER)

9565.0 **RRI Bonto Sunggu**, 1336-1346, Indonesian music, two M speakers in Bahasa Indonesia, mention of Jakarta. //15124.98 and 9630 (8-Jan/Veldhuis/DSWCI DX Window/Veldhuis-HOL)

9614.3 **RRI Samarinda**, 0458, lagu hiburan followed by 0500 Jakarta relay. Poor. (7-Jan/Foster/Numero Uno/Jembatan DX/Yamada-JPN)

9679.95 **RRI Jakarta**, Cimanggis 2215 Indo pop vocal in Programa Nasional Dua. Fair; noted // on 11750 (under BBC) and 15150 (under RCI). (25-Dec/Clark-ONT)

9741.7 **RRI Sorong**, relaying RRI Nasional with a radioplay produced by RRI Bukittinggi, at 0337 reverting to own program with ID "RRI Sorong program satu," hrd to 0500 when blocked by BBCWS s-on 9740. (17-Jan/Werdin-INS/WWDXC Top News/Bueschel-GER)

11750 **RRI Jakarta** Now back here, co-chan. BBC to S.Asia at 0900-1259. (Goonetilleke/Numero Uno)

11785 **V.O. Indonesia** 0232 Talks and local pops. 0258 Love Ambon. Poor. (23-Dec/Yamada-JPN/Jembatan DX)

15125 **RRI Jakarta**, Cimanggis 0254 SCI. 0255 special live program from Jakarta including chorus of National Anthem "Indonesia Raya" and speech by Vice President Tri Strisno. Fair. 15150kHz was not found at this time. (27-Dec/Yamada-JPN/Jembatan DX)

15150 **Voice of Indonesia**, Cimanggis. 1945, Indo ballads in FF svc. (5-Jan/Foster/Numero Uno/Jembatan DX/Yamada-JPN)

15150.02 **RRI Jakarta**, Cimanggis 2315 & 2345, talk by man in possible Javanese (certainly not B-H); later woman w/ID followed by instrumental music. Improving from fair to surprisingly very good level. (3-Jan/Clark-ONT)

RRI Manado on 3215kHz changed its sign off time from 1605 to 1300 since the end of December. (Yamada-JPN/Jembatan DX)

'Kang Guru' program in English heard on Mondays between 1000-1030 on **RRI Radio Nasional Dua** channels, including 9680,11750 and 11885. Sponsored by the Indonesian Australian Language Foundation, and gives postal address of Kotapos 3095, Denpasar. Program on 29 Dec focused on Australian aid projects in Indonesia. (Francis/EDXP/Jembatan DX/Yamada-JPN)

RRI Pontianak is audible on two SW freqs simultaneously: 3976 kHz is strong and clear here, but 3995.2 is weaker, mixing with another INS stn and suffering from a het. But it's Pontianak no doubt, 'cause both //MW 1233 on clear channel; all at around 1130. (16-Jan/Werdin/BCDX/Jembatan DX/Yamada-JPN)

IRAN Voice of the Islamic Republic of Iran, updated:

0000-0130	Tajik	7180
0030-0125	English	6055.4 9022 9685
0030-0130	Bengali	7130 7215 9750 6005
0030-0130	Spanish	6175 9650
0030-0330	Arabic	7190 9022 9685
0130-0200	Persian	7180
0130-0230	Spanish	6010 6055 6175 9650

KOREA—NORTH As of 14-Jan, aside from **Radio Pyongyang's** external services, the following broadcasts from NoKorea are regularly heard at my QTH in western JPN. Compiled from monitoring. All programs in Korean (Northern accent) only:

(1) **KOREAN CENTRAL BROADCASTING STATION** (Dom Sce) ID: "Choson Chungang Bangsong imnida."

2850	Pyongyang	2000-1800
3220	Hamhung	2000-1800, 1800-2000 PBS*
3350	Pyongsong	2000-1800
3920	Hyesan	2000-1800
3940v	Chongjin	(presumed) 2000-1800, 1800-2000 PBS*
3960	Kanggye	2000-1800
3970	Wonsan	2000-1800, 1800-2000 PBS*
6100	Kanggye	2000-0630, 1500-1800
9665	Pyongyang	2000-0930
11680	Kanggye	2000-1800

*) Relays Pyongyang Broadcasting Station

(2) **PYONGYANG BROADCASTING STATION** (For Koreans in SoKOR/JPN) ID: "Pyongyang Bangsong imnida."

3250	Pyongyang	2100-2300, 0100-0700, 1500-2030*
3320	Pyongyang	2100-1900
6250	Pyongyang	2100-0930, 1500-1900
6400	Kanggye	2100-1800

*) Relays Radio Pyongyang in JJ 2300-0100, 0700-1000, 1100-1400 (18-Jan/Ashimori-JPN/WWDXC Top News/Bueschel-GER)

LEBANON High Adventure's **Voice of Hope**, Marj Uyun, has the following schedule, all using 9960 kHz:

0400-0800	English*
0800-1100	English
1100-1300	Arabic
1300-1500	English
1500-1530	Persian
1530-1630	English
1630-1700	Georgian
1700-1730	Uzbek
1730-1830	Arabic
1830-1900	Russian/Turkish/Ukrainian
1900-2100	English
2100-0200	English*

* Dr. Gene Scott's University Network (BBCM)

6549.57 **Voice of Lebanon**, 2210 Pop/easy-listening western and middle eastern mx, occasional M announcement in AA, usual "Bridge Over the River Kwai" theme 2220, still going strong at 2335 recheck. (24-Jan/Novello-NC)

LIBERIA Another new shortwave operation from Monrovia appeared on 3450 kHz last November, running to 2200 s/off and opening again at 0500. It announces as **Radio Veritas Liberia**—a Catholic Media

Centre station, also citing 5470 and 7050 as other shortwave frequencies. (WOR/Hauser-OK/DX Ontario World Radio Report/Clark-ONT)

Star Radio in Monrovia was shut down by government authorities on Jan 7th, supposedly because its frequencies—3400 and 5880—had been assigned to its local partner, Radio Monrovia, which in turn had made them available to American-funded Star Radio which had been established in July, 1997, to provide a local independent news source. (RNMN/DX Ontario World Radio Report/Clark-ONT)

The closure of Star Radio appeared to be part of an ongoing government crackdown on the Liberian media which has drawn strong condemnation from human rights groups, diplomats and the church. The information ministry has dismissed the criticism as unjustified, saying that journalists and publishers who had fallen foul of the law had been properly charged in court. (Reuters via Sennitt/DSWCI DX Window/Veldhuis-HOL)

LITHUANIA In January I am no longer hearing **R. Vilnius** on 5880 at 0030 in English, just 5905 via Germany. So it seems they have decided to stick with the old frequency despite the heavy fax QRM! If 5880 was not suitable due to BBC on 5875, they should have kept looking. (Hauser-OK/WORLD OF RADIO) Back again on //5880 when checked Jan 19 and 20, also noted by Ivan Grishin (Hauser-OK)

MALAWI 5993.30 **Malawi BC**, Limbe, 1800, MBC news in English by M speaker with mentioning of Malawi at 1802. (30-Dec/van Rooy-HOL/DSWCI DX Window/Veldhuis-HOL)

MALAYSIA (SARAWAK) 5005.00, 2210 **RTM Sarawak** (t) with pop mx announced by W. "Jingle Bells" in English around 2220, W chatter for a while thereafter; back to mx 2228, but losing signal fast, and gone by 2230. Just before sunrise in Sib; listed *2200. (24-Dec/Novello-NC)

MALTA Voice of the Mediterranean (VOM) VOM's services to Europe are funded by the governments of Malta and Libya, but transmissions to other areas, which identify on the air as "Radio Melita" or "Valletta Calling," are financed by the Maltese government. The station currently broadcasts on shortwave via hired transmitters in Russia and Germany. This schedule is based on monitoring observations and information from the station.

0200-0330	English	17570 15550 Su
0330-0500	Maltese	17570 15550 Su
0500-0530	Japanese	17570 Su
0930-1000	Italian	9660 Su
1000-1100	English	9660 Su
1100-1200	Maltese	9660 Su
1200-1230	French	9660 Su
1200-1230	Italian	9660 Mo-Sa

1230-1300 German 9660 Su
 1230-1300 English 9660 Mo-Sa
 1300-1330 Arabic 9660 Mo-Sa
 2000-2100 Arabic 7440 Fr
 2000-2100 English 7440 Sa-Th
 2100-2130 French 7440 Su
 2100-2200 Arabic 7440 Sa-Th
 2130-2200 German 7440 Su
 (BBCM)

MONGOLIA 3961.3 *Mongol Radio*, Dalanzadgad, 0915, Mongolian M and W talks, folk song, jazzy vocal. Frequency drifting slightly upwards. Fair reception until 0935 re-check when it was covered by North Korean on 3960v. (3-Jan/Famularo-JPN/DSW-CI DX Window/Veldhuis-HOL)

MOZAMBIQUE 3282.6 R. *Mozambique*, Beira 2032 variety of mx to Maputo nx @2100. At 2105, chimes, R. Mozambique ID, more chimes and back to music. (30-Dec/Hill-MA)

9618.9 *Emissao Nacional*, Maputo, 2153-2206* Afro vocals and M announcer in apparent PP (severely distorted) to 2200 possible news. Instrumental anthem at 2205. Carrier cut 2207. Weak, terribly modulated audio from a very sick transmitter. Maputo doesn't seem to use a 4-note gong on the hour any more. No sign of Beira-9637v prior to 2200. (2-Jan/Clark-ONT)

MYANMAR 5985.9 Yangon, 1430 IS and woman opening the program with "Good evening" and ID as "**HEMA RADIO** Yangon," then frequency given, followed by a program on farming and commentary on Senior-Junior Citizen. After that Musical Program at 1515, fanfare and time check. ID/anmt "*This is Hema Radio; the news, read by Li Mong Seng,*" 1528 ID, Continuous western music, NA before went off. Reception was weak to fair (24-Jan/Vaghjee-MAU/DSWCI DX Window/Veldhuis-HOL)

6570.0 *Defence Forces Broadcasting Unit*, Taunggyi, 1320 Burmese folk music and songs. W speaker. Usual instrumental sign-off tune at 1329 and off-air at 1330 UTC. (29-Dec/Schaay-HOL)

7185 R. *Myanmar*, Yangon, 0015-0040 strong OC w/test tones at tune-in, *0030 with drums/local instruments, brief anmt by woman at 0031, then Burmese vocal to further opening anmts 0033-0034 followed by more vocals. Weak-fair but fading rapidly after 0040. (27-Dec/Clark-ONT)

NEW ZEALAND New RNZI schedule from 1900 3 Jan:

0459-0758 11905 Sa/Su
 0459-0815 11905 Mo-Fr
 0758-1206 9700 Sa/Su
 0816-1206 9700 Mo-Fr
 1206-1650 6105 or 6070 Occasional Use
 1650-1850 9810 Mo-Fr

1851-1950 11735 Su-Fr
 1859-1958 11735 Sa
 1859-2155 15115 Sa
 1951-2050 15115 Su-Fr
 2156-0458 17675 Su-Th
 2205-0458 17675 Fr-Sa

Sport that begins before 1500 use 6105 and sport scheduled after 1500 uses 6070. (RNZI/Padula/EDXP/Padula-AUS)

OMAN R. Oman, Doha in AA on new 9680 1400-1800, //15140 til 1600, 11740 fr 1600. (2-Jan/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

PAKISTAN Radio Pakistan Hindi service 1615-1700 using 6070 7485 9525 has been dropped. Replaced with a extended transmission 1100-1230 (x1100-1145) still on 7255 9515 13665. (17-Jan/Green-UK/WWDXC Top News/Bueschel-GER) Radio Pakistan Urdu 1330-1530 new 15376.5, //9650 11570. Arabic 1800-1845 v9424.6, 7460.1. (21-Dec/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

The seldom reported *Azad Kashmir Radio* in Muzafarabad (1kW) 3661v is opening early during the Ramadan period. Heard around +0025 past 0055 with early morning prayers. 4790 Azad Kashmir Radio—Tarakhel API-8 (Rawalpindi) S/on as usual at 0045. Evening transmission from Muzafarabad 3661v also heard +1500—1805. Weak signals but detectable. (3-Jan/Weerakoon-SRI/DSWCI DX Window/Veldhuis-HOL) 3663.03 0120-0150 weak DSB carrier at tune-in, building to quite respectable strength with a few threshold bits of audio (mostly talk) detected—peaking around 0145. In the clear at times using LSB. QRM'd and fading fast after 0150. Could this be Azad Kashmir Radio, down a bit from 3664.6v? AKR xmtr SR would have been at 0213. Called to Tony Ward who had much better audio on his 20 degree beverage, so directionality would also fit. (4-Jan/Clark-ONT)

4790.40 *Azad Kashmir Radio*, 1230 suspected with vocal mx and Qur'an recitations, riding above noise level with fades, QRN and occasional SSB comms. (15-Jan/Novello-NC)

PALAU KHBN/Voice of Hope Asia:

0730-1100 Chinese 9965
 0800-0900 English 9985
 0900-0930 Tagalog 9985
 0930-1030 Chinese 9985
 1030-1130 Korean 9985
 1100-1130 English 9965
 1130-1230 Japanese 9985
 1130-1200 Korean 9965
 1200-1300 English 9965
 1230-1300 Korean 9985
 1300-1400 Chinese 9965
 1300-1530 English 9985
 1400-1445 Vietnamese 9965

1700-1715 English 9965
 1715-1745 EE/Tagalog 9965
 1745-1800 English 9965
 (BBCM)

PAPUA NEW GUINEA 3335 *Radio East Sepik*, 1015-1030", ID, South Sea mx, oldies, "Happy New Year," they are active again, but shorter transmission time. (Schulze-PHL/WWDXC Top News/Bueschel-GER)

4890 *NBC Port Moresby*, 1207 noted back here with rock and country mx and semi-ID "The Voice of Papua New Guinea throughout the Pacific." Nothing but hams on 3925 this morning. (But Dec 31, back on 3925, and no 4890). (30-Dec/Novello-NC)

PERU 3234.9 *Radio Luz Y Sonido*, 0940, Andean music. TC and ID at 0944 by M. Fair (10-Jan/Kohl-brenner-PA/DSWCI DX Window/Veldhuis-HOL)

3339.9 *R. Altura*, Cerro de Pasco 1030-1050 mx ID "Radio Altura, te saluda" program *La Voz de la Esperanza* (program religioso) (28-Dec/Arrunategui-PRU/Chasqui DX)

4386.5v *Radio Nueva Sensacion*, Chiclayo, is a new station, using slogans such as "la radio musical-sima del norte peruano," "la radio que siempre esta contigo," "la radio que esta impactando en el norte peruano," 1115, drifting rather unpredictably, and with a somewhat muffled audio. First noted—and identified—by Rafael Rodriguez, Dec 28, but on a frequency in the 4390/5 vicinity, then silent until January 2. (2-Jan/Klemetz-COL/DSWCI DX Window/Veldhuis-HOL)

4460.8 *R. Nor Andina*, Celendin, Cajamarca 0025-0045 mx variada ID "Nuestros amigos del oriente, escuchan bien clarito Radio Nor Andina, llegan conversas las poderosas ondas de Radio Nor Andina del Peru" mx ID "Buenas noches amigos de Radio Nor Andina, estamos a fin de ano..." (31-Dec/Arrunategui-PRU/Chasqui DX)

4485.2 *R. Frecuencia VH*, Celendin, Cajamarca 0135-0206 mxf program avisos y comunicados ID "Por Radio Frecuencia VH, desde Celendin..." (8-Dec/Arrunategui-PRU/Chasqui DX)

4550.1v Unid Peruvian, around 1100, Huaynos, W speaker with TC's, but no ID, ads for establishments in Retama, Acobamba and Huamachucho would suggest this is oldtime R. Soledad on yet another spot. (2-Jan/Klemetz-COL/DSWCI DX Window/Veldhuis-HOL)

4562-4573v *Radio Gotas de Oro*, 0345-0415, At excellent levels with huyanos and announcements by M in perhaps Indian language. Frequency drifting up and down rather dramatically. (11-Jan/Rippel-VA/DSWCI DX Window/Veldhuis-HOL)

4572v *Radio Uno* is in Chiclayo, and MW frequency "14-30" just as their predecessor R. Gotas de

Oro would have it. Slogan "la diferente" is not that new, though, as the station shares it with R. Naylamp. 1580 kHz, SW off for the time being, at Lambayeque (within ground wave reach). Dec 14 morning show *Por las rutas del Per* ended at 1100, and then into kind of news magazine, called *Encuentros*. On Dec 21, unusual Christmas greeting by "Manual Santos Santos, maestro herbolario curande de Las Guarinjas." (21-Dec/Klemetz-COL/Dateline Bogota)

4774.9 *R. Tarma*, Tarma 1105-1200 program trasmiten la San Misa ID "Misa transmitida gracias a Radio Tarma, desde Tarma..." (4-Jan/Arrunategui-PRU/Chasqui DX)

4790.0 *R. Atlantida*, Iquitos 1053-1115 ID "5 y 55 de la manana, en su Radio Atlantida" mx program Asi canta el Peru ID "Atlantida, 40 anos en AM y 15 anos en FM...Atlantida, la voz del Peru en los cielos de America..." (28-Dec/Arrunategui-PRU/Chasqui DX)

4886.8 *R. Villarica*, Huancavelica 1309-1330 mx ID "Radio Villarica, una radio sin fronteras..." program *Enfoque veintiuno*. (24-Jan/Arrunategui-PRU/Chasqui DX)

4904.75 *Radio La Oroya*, 1030-1045, Signal was good at initial tune-in. Note a man in Spanish comments during period along with a mixture of music types. (23-Dec/Bolland/DSWCI DX Window/Veldhuis-HOL)

4914.43 *Radio CORA del Peru*, Lima 0825-0838 poor, vals peruano and canned ID. (17-Jan/TIN-JPN/Relampago DX)

4935.0 *R. Tropical*, Tarapoto, San Martin 0050-0118 ID "A seguir gozando por Radio Tropical..." program *deportivo advs ID Por Radio Tropical...* mx (9-Dec/Arrunategui-PRU/Chasqui DX)

4995.56 *R. Andina*, Huancayo, Junin, 2314 with pretty high Andean W vocals announced by man. Entertainment-quality listening. (14-Jan/Novello-NC)

5025.0 *R. Quillabamba*, Quillabamba 2145-2210 mxf ID "Por Radio Quillabamba, hoy esten atentos a los mensajes" program en quechua y espanol advs. (12-Dec/Arrunategui-PRU/Chasqui DX)

5046.3 *R. Integracion*, Abancay, Apurimac 110-1136 ID "Por Radio Integracion" program en quechua y espanol advs panaderia San Carlos, Cerveza Cristal ID "Radio Integracion 1050 KHz en toda su potencia informativa, desde Abancay." (8-Jan/Arrunategui-PRU/Chasqui DX)

5304.96 *R. La Imaculada*, Santa Cruz, Cajamarca 0050-0115 mx moderna, salsa ID "Desde el departamento de Cajamarca, provincia de Santa Cruz, transmite para toda la region Radio La Imaculada" advs ID "Atencion, para comunicarse en toda la region, use Radio Imaculada, que le atiende las 24 horas del dia" (12-Dec/Arrunategui-PRU/Chasqui DX)

0205 Dramatic M baladas, huaynos, comunicados with the "Feliz Cumpleaño" song and mentioning upcoming dates in January. Partial "...en Radio La Inmaculada" 0224. (24-Jan/Novello-NC)

5470.78 **Radio San Nicolas**, Rodriguez de Mendoza, was noted at 1103-1130 poor, folklore show with greeting for listeners, M ID as "Transmitiendo en doble frecuencias 5470kHz banda de 60 metros y 98.5MHz en frecuencia modulada en el sonido estereofonico, esta es Radio San Nicolas, la voz del oriente peruano, desde la progresista Provincia de Rodriguez de Mendoza, Amazonas, Peru." (10-Jan/TIN-JPN/Relampago DX)

5522.2 **R. Sudamericana**, Cutervo, Cajamarca 2238-2305 advs mx tropical ID "Desde Cutervo, Radio Sudamericana, en lo 1060 KHz onda media y 5525 KHz onda corta, desde sus oficina en Jr. Ramon Castilla 491, tercer nivel en la plaza de armas de esta ciudad, transmite Radio Sudamericana" program encuentro con la felicidad (27-Dec/Arrunategui-PRU/Chasqui DX)

5657.8 **R. Ilucan**, Cajamarca 2204-2230 program saludos y mensajes ID "Esta en el informativo de esta hora por Radio Ilucan..." (24-Jan/Arrunategui-PRU/Chasqui DX)

5819.2 **R. Victoria**, Lima 1105-1125 mx ID "Desde Lima, Peru, transmite Radio Victoria, una radio para todos" program radio periodico Nuevo Mundo ID "6 y 20 de la manana en Radio Victoria para todo el Peru..." (8-Dec/Arrunategui-PRU/Chasqui DX)

5969.8 **R. El Sol**, Lima 1130-1200 ID "Somos Peru, llegando todos los Domingos por Radio El Sol..." en // 900 KHz. (8-Dec/Arrunategui-PRU/Chasqui DX)

6087.9 **R. Chaski** unheard for several weeks; Dan Muth did reply to an e-mail months ago, but an ordinary reception report in Spanish sent by p-mail to Cusco has not been answered. (Klemetz-COL/Dateline Bogota)

6095.0 **R. Nacional del Peru**, Lima 1610-1625* ID ID "Radio Nacional del Peru, la primera emisora del Peru, siempre al servicio de la patria..." advs ID "Radio Nacional del Peru, tres frecuencias en un solo punto... la senal roja y blanca..." en // 840KHz. (17-Jan/Arrunategui-PRU/Chasqui DX)

6115.0 **R. Union**, Lima 1540-1605 mx romanticas LA, boleros advs Inca Kola ID "Union AM" program Union en la semana. En // 880KHz. (17-Jan/Arrunategui-PRU/Chasqui DX)

6188.1 **R. Oriente** 1140-1305 mx moderna y tropical ID "Radio Oriente..." mx ID "Estemos atentos a Radio Oriente..." (24-Jan/Arrunategui-PRU/Chasqui DX)

6203.5 **Radio Cusco**, Cusco, 0104-0115, Spanish, Man Announcer, Musical Program and Coments, time checks "ocho de la noche con diez minutos" ID "...de Cusco para todo el Per...Radio Cusco." (23-Dec/Eramo/DSWCI DX Window/Veldhuis-HOL)

6250.2 UNID 1140-1205 and 2200-2310, Program in Quechua, music in Spanish, ad for "Cerveza Arequipeña" (Arequipan Beer), Restaurante Man, lo barato Av. Los Incas 765 Unitas?... (Man, the inexpensive one, Avenida Los Incas 765 Unitas?...) I believe I understood the name, but they didn't identify another location. I believe I understood them to say "Radio Aclatas," although I couldn't distinguish the pronunciation very well. (8-Jan/Arrunategui-PRU/DSWCI DX Window/Veldhuis-HOL)

6261.0 **R. JL**,? 2350-0035 ID "Como siempre por su Radio JL" mx ID "Siempre en sintonia de Radio JL..." por momentos me parece escuchar JR. (23-Jan/Arrunategui-PRU/Chasqui DX)

6479.71 **Radio Altura**, 2330-2340, Giving ID as "Radio Uno" by man. Good signal as usual. (27-Dec/Wilkner/DSWCI DX Window/Veldhuis-HOL)

6535.7 **Radio Difusora Huancabamba** (p), 2250-2305, Spanish, huayno music, tent. ID by M at 2300. (27-Dec/Schnitzer/DSWCI DX Window/Veldhuis-HOL)

6675.6-6674.5 **R. Ondas del Rio Maranon**, Aramango, Amazonas, says they are on 6660 kHz, their sked being "6-10am and 3-8pm" Evening program include *Sanjuanitos* and *sanjuaneros* (the latter being the rhythm that pervades northern Peru these days; also labeled as "cumbia sanjuanera") and *Noches tropicales*. Spkr plays around with slogans and id's such as "Maranon, Ondas, su radio" or just "Ondas, su radio." Music is well-modulated, but speech below par. (Klemetz-COL/Dateline Bogota)

6725.5 **R. Satellite** still on old frequency, but anmts indicating a move to 4780 are now heard almost every night. (14-Dec/Klemetz-COL/Dateline Bogota)

6811.5 **R. Ondas del Rio Mayo**, Nueva Cajamarca 0050-0135 mx tropical, advs, ID "Ud. sintoniza Radio Ondas del Rio Mayo..." (2-Jan/Arrunategui-PRU/Chasqui DX) 1145-1150 fair,w/Cajamarcan folklore. At 1150 ID as "Somos Radio Ondas del Rio Mayo desde sus estudios ubicados en Jiron Huallaga 348 en el Distrito de Nueva Cajamarca, Departamento de San Martin." (10-Jan/TIN-JPN/Relampago DX)

6203.8 **R. Cusco**, Cusco 1635-1700 ID "Por Radio Cusco" mx advs ID "Desde Cusco, Per, transmite en 1460am Radio Cusco..." (17-Jan/Arrunategui-PRU/Chasqui DX)

6250.2 UNID 1140-1205 and 2200-2310 22222 program en quechua, mx en espanol advs Cerveza Arequipena, Restaurante Mana, lo barato Av. Los Incas 765 Unitas?... (creo entender ese nombre, pero no indican otro lugar ID creo entender que dicen Radio Aclatas, aunque no puedo definir bien la pronunciacion.) (8-Jan/Arrunategui-PRU/Chasqui DX)

6725.5 **R. Satellite**, Santa Cruz, Cajamarca 2348-0030 mx huayno y chicha program saludos y mensajes ID "Esten atentos a Radio Satellite de esta ciudad de Santa Cruz..." advs (16-Jan/Arrunategui-PRU/Chasqui DX)

7003.4 R. *La Voz de las Guarinjas*, Huancabamba 2330-2345 ID "6 de la tarde con 35 en Radio la Voz de las Huarinjas..." program *Anoranzas Andinas* mxf. (16-Jan/Arrunategui-FRU/Chasqui DX)

7040.5 R. *San Ignacio* back on the air with usual program, still closing down at 2300/2400, announcing freq as 7015 kHz. Manager and program host Cesar Colunche has been mentioning partnership with a Cadena Radial Nuevo Siglo, located in Chiclayo. (Klemetz-COL/Dateline Bogota)

7205.7 R. *dif Paraton*, Huarmaca, poor most of the day, occasionally past midnight but buried by QRM. (Klemetz-COL/Dateline Bogota)

7746.0 R. *Cristal* sometimes heard in broad daylight, so must be relatively high power. Canned ID: "Desde el distrito de San Hilarion, comprension a la provincia de Picota, region San Martin, repblica del Per, transmite R. Cristal, OAZ9A, 7745 kHz, banda internacional de los 41 metros, onda corta, desde el valle eminentemente productor, zona arrocera rio Sisa, llega a sus hogares con la mejor programacion e intervius conducidos por expertos locutores y periodistas que hacen a cada momento tu mejor entretenimiento, con amenidades, cultura, buena musica y la informacion al dia de los hechos y sucesos que suceden [sic] en San Martin, Peru y el mundo. Somos R. Cristal, la campeona en sintonia."—N. B. The slogan is a reference to Cristal brand of beer, labeled "la campeona de las cervezas." (27-Dec/Klemetz-COL/Dateline Bogota)

ROMANIA Radio Moldova International, all via transmitters in Galbeni, Romania:

0230-0255	Spanish	9400
0300-0330	Romanian	7500
0330-0355	English	7500
0400-0425	Russian	6135
0430-0455	English	7500
1200-1225	Spanish	15315
1230-1300	Romanian	9400
1930-1955	Russian	7500
2005-2030	French	7520
2030-2055	Spanish	7520
2100-2125	French	7520
2130-2155	Spanish	7520
2200-2225	English	7520
2300-2325	English	7520

(BBCM)

RUSSIA Schedule of Voice of Russia until 29 March 1998, English language programs. Brackets reflect transmissions that have likely been eliminated due to cutbacks in EE service since 1 January:

[0000-0100	7180 7125 7105 5940]
[0100-0200	7125 7105]
0200-0300	15425** 13665 13640** 12050**
	12030* 9580* 7345* 7105 5930
	5920(Mo/Su)

0300-0400	15425** 13640** 12050** 9580* 7345* 7175 7105 6150* 5940 5930 5920(Mo/Su)
0400-0500	13640** 12050** 12000** 9825** 9580* 7345* 7260* 7175 6150* 6065 5930 5920(Mo/Su)
0500-0800	13640** 12050** 12000** 9825** 9580* 7330* 7175 6150* 6065 6005 5930 5920 5905 *
0600-0700	21790 17795 17570 15470 15460 12055 12025
0700-0800	21790 17860 17795 17570 15470 15460 12055 12025
0800-0900	17860 12025 9875
0900-1000	17860 17795 12025** 9875 9835* 9825
[1000-1100	17860 17795 17755 15560 15470 12025 11880 11820 11655** 9875 9835* 9825]
[1100-1200	17860 17795 17755 15560 15490** 15470 15460 12065 12025* 11880 11820 11655** 9450* 6205]
[1200-1300	17860** 17795 17755 15560** 15535** 12065 11975** 11880 11820 11695* 11655** 9940* 9780* 9725* 7390* 6205 4730]
[1300-1400	17860** 15490,** 15460 11695* 9450* 4975 4730]
1400-1500	9840 9470 7130
1500-1600	9840 9830(Mo-Sa) 9635 9470 7235 7130 7115 5925 4975 4940 4730
1600-1700	12065** 11895** 9895** 9635 9585 9505 9470 7275* 7210* 7175 7115 6175* 6005 4975 4940 4730
1700-1800	15470** 15400 12065 9895** 9890 9880 9830* 9775 9765 9585 9560 9450 7440 7355 7325 7305 7275* 7255 7210* 7185* 7180 7175 7125 7115 6175 6130* 5965 5940 4920
1800-1900	12065** 9895** 9890 9585** 9450** 7440 7305 7180 7275* 7210* 7175 6130
1900-2000	12065** 9895** 9890 9585 9450** 9440 7490 7440 7325 7305 7275* 7255 7210* 7180 6130* 5965 5940 4920
2000-2100	9890 9820 9585 9450** 9440 7490 7440 7325 7305 7180 6130* 5965 5940 4920
2100-2200	9890 7440 7320 7180 7170 5965 5940 9890 7440 7360 7320 7205 7180 7125 7105 5965 5940]
[2200-2300	7180 7125 7105 5940]
[2300-2400	7180 7125 7105 5940]

*—until 28th February**—from 1st March 1998 (3-Jan/Voice of Russia website/JKB/WWDXC DX Magazine/Kubiak-GER)

Radio Russia (Radio Rossii):

0000-0100	Russian	5290 4895 4860 4820 4485
0100-0200	Russian	5290 4895 4860 4820 4485

0200-0300 Russian 7380 7335 7325 7220 6125S
6115M 6110M 5910M 5290
4485

0300-0400 Russian 7380 7335 7325 6125S
6110M 5910M

0400-0500 Russian 7380 7335 6110M 5910M

0500-0600 Russian 11990 9860 7335 7250M

0600-0700 Russian 12060 11720 9860 7335

0700-0800 Russian 12060 12045 11990 11720
9860 9720 5290 4895 4820

0800-0830 Russian 12045 11990 11720 9720
7220Y 5290

0830-0900 Russian 15455 13705 12045 11990
11720 9720 7220Y 5290

0900-1000 Russian 15455 13705 12085 12045
11990 11720 9720 7440
7250M 7220Y 5290

1000-1100 Russian 15455 13705 12045 11990
11720 9720 7440 7250M
7220Y

1100-1200 Russian 15455 13705 12045 11990
11720 9720 7440 7250M

1200-1300 Russian 15455 13705 12045 9720
7440 7345 7250M

1300-1400 Russian 15455 13705 12045 12000
9720 7440 7250M 6125S

1400-1500 Russian 15455 13705 7340 7250M
6125S

1500-1600 Russian 13705 7440 7340 6125S
5930 4820 4485

1600-1700 Russian 13705 12060 7340 6125S
5910M 5290 4820 4485

1700-1800 Russian 7340 5895K 5290 4895 4820
4485

1800-1900 Russian 12060 7340 5290 4895 4485

1900-2000 Russian 12060 5910M 5290 4895
4820 4485

2000-2100 Russian 7170M 5895K 4895 4485

2100-2200 Russian 7170 6060 6045M 5910M

2200-2300 Russian 7220Y 5290 4860

2300-2400 Russian 12045 7220Y 5290 4860

(BBCM) K=Krasnodar M=Moscow S=Samara
Y=Yekaterinburg

The UK's *IBC Tamil* is owned by Tamil Media Ltd, transmits from a Central Asian site from 0100-0300 on 7475. Languages are Tamil and English. (BBCM)

4860 *Chita Radio*, 1200 probably the one with six pips, last one slightly longer, at top of the hours; a few words in Russian by woman, then short organ swell and into talk. (30-Dec/Novello-NC)

Radio Novosibirsk, Novosibirsk Municipal Radio Company, Radio Slovo (Radio Word) from Novosibirsk and Radio Rossii from Moscow broadcast in Russian every day 0000-1850 on 3802U. (8-Jan/Yaremenko-RUS/WDXC Contact/WWDXC Top News/Bueschel-GER)

Radio Addin Kultura (Radio 1 Culture) in RR 0300-0900 & 1600-2200 7525, and 11630 0900-1600. But with different version via Blagovechtch-

ensk 1200-1600 5960. VoRussia noted at 1400-1500 on 9470, both En via Khabarovsk 100 kW 220 degr. Ru via Ekaterinburg 200 kW 100 degrees, to EaAS resp. SoEaAS.

VoRussia cut program duration due to financial reasons: French 1700-2100 (x1600-2200) English 0200-1000, 1400-2200 (x24 hrs) Albanian 1600-1630 (x1600-1700) Serbian 1630-1800 (x1700-1800 & 1900-2000) Greek 1900-2000 (x2000-2100) Polish 1800-1900 (x1700-1800 & 1900-2000) (15-Jan/PANIVIEW-BUL/WWDXC Top News/Bueschel-GER)

Foreign station relays over Russian shortwave sites:

0000-0100	<i>DW</i>	5925A 9815P 9865V
0030-0200	<i>TWR</i>	9825R
0100-0150	<i>DW</i>	7355N
0100-0300	<i>VOV</i>	5940K
0200-0250	<i>DW</i>	7355A
0200-0500	<i>VOM</i>	15550H 17570H Su
0300-0400	<i>VOV</i>	5905K
0500-0530	<i>VOM</i>	17570H Su
0500-0600	<i>BBC</i>	7370Y Mo-Fr
0600-0815	<i>MAR</i>	9905A
0700-0900	<i>MAR</i>	9905A Su
0800-1300	<i>WUN</i>	17590A
0830-0925	<i>RNW</i>	13700R
0900-0950	<i>DW</i>	7380R
0930-1030	<i>RFI</i>	7420R
0930-1125	<i>RNW</i>	7260P 9810R
1000-1050	<i>DW</i>	5895P 7390N 15525A
1000-1100	<i>BBC</i>	7330V
1000-1400	<i>DW</i>	7315N 7340N 9480N
1100-1300	<i>RFI</i>	7305R
1130-1425	<i>RNW</i>	7325P
1130-1530	<i>TWR</i>	7420R
1200-1230	<i>RVI</i>	6170P
1200-1300	<i>TWR</i>	5895V
1200-1300	<i>RFI</i>	7430N
1230-1300	<i>DW</i>	5925R
1300-1500	<i>VOA</i>	5910N
1300-1530	<i>BBC</i>	7330C
1300-1600	<i>DW</i>	9860K
1330-1355	<i>DW</i>	5895P 7305N
1330-1425	<i>RNW</i>	5930P
1400-1800	<i>DW</i>	7315A
1430-1650	<i>DW</i>	7305N
1600-1700	<i>CRI</i>	7130S
1600-2000	<i>DW</i>	5945A 7445M
1600-2300	<i>MAR</i>	7400A
1700-1730	<i>BBC</i>	5905Y
1700-1800	<i>BBC</i>	7390M
1800-1830	<i>CRI</i>	7130S
1800-1850	<i>DW</i>	5935A 5965K
1800-1900	<i>BBC</i>	7425S
1830-1930	<i>CRI</i>	7200M
2000-2030	<i>BBC</i>	5905Y
2000-2100	<i>IBRA</i>	5935A 7420M 7425M
2000-2100	<i>DW</i>	6000A
2000-2200	<i>DW</i>	5895R

2000-2200	VOM	7440M
2030-2100	BBC	5905Y Sa/Su
2130-2200	VOA	7300P
2200-2300	BBC	5905R 7330C
2200-2300	RFI	5945N 7315V
2200-2300	VOA	6090R
2200-2300	CRI	7170M
2200-2300	DW	7235N
2200-2400	DW	5925N 7375N
2300-2400	RFI	9830V
2300-0100	RFI	12025R
2330-0025	RNW	12090P

A=Samara (GPR-3) C=Chita (TCR-12) H=Khabarovsk (GPR-8) K=Krasnodar (TCR-4) M=Moscow (GPR-1) N=Novosibirsk (GPR-11) P=Petrovsk-Kamchatskiy (PKRC) R=Irkutsk (GPR-10) S=St. Petersburg (GPR-2) V=Vladivostok (TCR-6) Y=Yekaterinburg (YERC)

MAR=Radio Maryja, Poland VOM=Voice of the Mediterranean (Rudnev-RUS)

SENEGAL Radiodiffusion-Television du Senegal (RTS) broadcasts in French, Oulof (Wolof), Pulaar (Poular), Soninke (Sarakhole), Seereer (Serere), Joola (Diola) and Mandingue (Mandjackque).
0558-2400 . Multilingual 11800 Mo-Sa

(BBCM) [Another fairytale, based on info supplied by the station, whose new website (<http://www.primature.sn/rts/>) actually claims this 100kW transmitter is churning out RF 24 hours a day. Anyone anywhere actually heard it? I didn't think so. On the positive side, at least the website has a RealAudio feed of the station, which has been otherwise inaudible for many moons.-AQ]

SEYCHELLES FEBA Radio is using new 6140 for Telugu broadcast to India at 0100-0130. (Dasgupta-IND/DSWCI DX Window/Veldhuis-HOL)

SINGAPORE Services in addition to Radio Singapore International:

0000-1100	EE/"One FM"	6155
1400-1600	EE/"One FM"	6155
2300-2400	EE/"One FM"	6155
0000-1100	Malay/"Warna 94.2"	7245
1400-1600	Malay/"Warna 94.2"	7245
2300-2400	Malay/"Warna 94.2"	7260
0000-1100	Chinese/"95.8 FM"	6000
1400-1600	Chinese/"95.8 FM"	6000
2300-2400	Chinese/"95.8 FM"	6000
0000-1600	Tamil/"Olikkalanjam"	7170
2300-2400	Tamil/"Olikkalanjam"	7170

(BBCM)

SLOVAKIA Because of new satellite relay, AWR via Rimavaska Sobota has been cut to one transmission: 11610 at 0500 in Arabic. (Peterson-AWR)

SOMALIA 6770U R. *Mogadishu*, V. of the People 2050 Local vocal, Qur'an, march and off at 2059; weak and very noisy reception. Not a sign of Hargeisa today—or, in fact, any day since Dec. 30. (1-Jan/Hill-MA)

6866U R. *Hargeisa* 1851-1927* After several weeks of checking, finally nailed during excellent African low-band conditions. At tune-in, emphatic talk by woman or high-voiced man, then group chanting followed by short announcement and group singing. At 1904, Horn of Africa vocal by woman with choral accompaniment. Followed with mix of music and brief talks till 1918, when band played march, suggesting s/off. But no! Man resumed talking and continued to talk till 1927, when closedown came without ceremony. Very faint signal at first, building to almost fair by 1920. (30-Dec/Hill-MA)

SOUTH AFRICA Update to *Channel Africa* sked (LN 11-97)

1300-1455	English	9440 17675 17870(ex-15330)
1800-1830	English	15240
1830-1855	French	15240

(SENTECH/Wolf-OH/Kohnbrenner-PA)

TAJIKISTAN Radio Tajikistan is the external service of Tajik Radio, the state broadcaster.

0100-0200	Dari	4975
0200-0300	Persian	4975
0300-0345	Dari	9905 4975
0345-0400	English	9905 4975
0400-0415	Arabic	9905 4975
0415-0500	Persian	9905 4975
1400-1500	Dari	7245
1500-1600	Persian	7245
1600-1645	Dari	7245
1645-1700	English	7245
1700-1715	Arabic	7245
1715-1800	Persian	7245

(BBCM)

7515 *Tajik Radio*, fair signal at 0355 with religious-sounding reading in Tajik. Into RS at 0400 (which lasted till 0413), then a short piece of local mx, a brief silence, and back to Tajik at 0415./5800, which was marginally weaker. (13-Jan/Jones-PRG/NU/WWDXC Top News/Bueschel-GER)

USA KTNB—Trinity Broadcasting Network

0000-1600	English	7510
1600-0000	English	15590

(BBCM)

Here is the planned operating schedule for *WHRA* Greensbush, Maine. This schedule has been submitted and is currently pending F.C.C. approval. February 15, 1998 to March 29, 1998.

0300-0500	7465
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0500-0800 9400
 1800-2000 17655
 2000-2200 15460
 2200-2400 13760

(Brashier via Bueschel/DSWCI DX Window/Veldhuis-HOL)

WHRI - World Harvest Radio

Angel 1

0000-1000 English/Spanish 7315
 1000-1300 English/Spanish 9495
 1300-1800 English/Spanish 15105
 1800-0000 English/Spanish 9495

Angel 2

0000-0200 English 5745
 0200-0400 English 5770 Mo
 0200-0400 English 5745 Tu-Su
 0400-1000 English 5770
 1000-1500 English 6040
 1500-2200 English 13760
 2200-0000 English 5745

(BBCM)

WWCR, thru 28 February. One transmitter (marked ENGLISH-2) is used entirely by Dr Gene Scott's "University Network;" Another (marked ENGLISH-4) is used entirely by Brother R.G. Stair's Overcomer Ministry.

0000-0200 English-4 7435
 0000-0500 English-1 3215
 0000-1400 English-2 5935
 0000-1400 English-3 5070
 0200-1200 English-4 2390
 0500-1100 English-1 3210
 1100-2100 English-1 15685
 1200-1400 English-4 7435
 1400-1800 English-4 15600-(via Germany) 9475
 1400-2200 English-3 12160
 1400-2400 English-2 13845
 1800-2100 English-4 9475
 2100-2400 English-1 9475
 2100-2400 English-4 7435
 2200-2400 English-3 5070

(BBCM)

In case you just can't get enough of *The Overcomer Ministries/Brother Stair* [a strong indicator that something is terribly wrong in your life-AQ], here's their complete schedule:

0000-0200 7435-WWCR 7355-WRNO 5840-Jül
 0200-0300 7435-WWCR 7355-WRNO 7335-Jül
 5880-Jül
 0300-0400 7355-WRNO 7335-Juel 5880-Jül 2390-
 WWCR
 0400-0600 2390-WWCR
 0600-0800 9500-Jül 2390-WWCR
 0800-1200 2390-WWCR
 1200-1300 7435-WWCR 7395-WRNO
 1300-1400 15600-Jül 15185-Jül 7435-WWCR
 7395-WRNO
 1400-1600 15600-Jül 9475-WWCR 7395-WRNO
 1600-1700 15600-Jül 9475-WWCR 6040-Jül

1600-1830 7395-WRNO Sa/Su
 1700-1800 11650-Jül 9475-WWCR 6040-Jül
 1800-1830 9475-WWCR
 1830-2200 9475-WWCR 7395-WRNO
 2200-2400 7435-WWCR

(Arnold-VA/Kohlbrener-PA)

UZBEKISTAN Changes from mid Dec, *R. Tashkent* English 0100-0130, [& 0130 Dari, 0200-0230 Push-to] new5040, //5955 5975 7105 9540. German 1935-2030 new5025 replaced x6230 to avoid Dusheti-GEO. //5035 5060 7105 9540 11905. (15-Jan/PANVIEW-BUL/WWDXC Top News/Bueschel-GER)

6260 *Radio Yunost*, Tashkent, 1316, W Russian speaker talking a.o. about the weather, English pop songs, "After you're gone" (sounds like Barry Manilow), identification. (24-Dec/Schaay/DSWCI DX Window/Veldhuis-HOL)

VANUATU 4960.5 *R. Vanuatu* 0740 Up to this reading from usual 4960 with Bislama talk and a couple of short South Seas vocals. Soft instrumental at 0757, then talk past 0800; ID, if any, obliterated by QRN. Something weak on 3945 at the same time was probably NSB, Japan; I don't think Vanuatu normally runs two transmitters in parallel. (3-Jan/Hill-MA)

VATICAN Vatican Radio now listed for new 5945 to Americas, 0100-0230 Portuguese and Spanish, // 7305 9605. (Padula/EDXP/Padula-AUS)

VIETNAM 4959.7 *VOV*, Hanoi (National Network 2) 2148 Carrier till *2155 with delicate South East Asian instrumental; possible anthem at 2158. Another musical selection at 2200 faded down as W drill sergeant led wakeup exercises in Vietnamese, presumably counting 1-2-3-4 and exhorting listeners to pick up the pace. Listed 12035 not audible. Quite choppy but a lot better than the usual faint, unreadable showing. (6-Jan/Hill-MA)

6540.72 *Cao Bang Broadcasting Station*, Cao Bang province, 1318, Presumed this one, fading-in with talks and quite remarkable vernacular songs. Drifting and howling transmitter, sounds like a pirate station. At 13.58 UTC short announcement by W speaker and off-the-air. The ID sounds like: "Dai phat (...) thanh (...) Cao Bang." Thanks to Karl van Rooy tip! (23-Dec/Schaay/DSWCI DX Window/Veldhuis-HOL)

6621.52 *Hanoi 3* Hmong Service, 1156 accapella, solo M vocalization, until just before 1200. High, melodic IS once, short phrase by M, then theme and more talk. Back into vocal music at 1209 recheck; Off after 1230. // 5034.8v not audible. (21-Jan/Novello-NC)

7156.1 *Radio-TV Bac Thai*, 1227 Vietnamese instrumental music till 1230 M ID, "Da la dai Bac

Thai...," M/W talks thereafter. Nominal 7153. Fair-poor. (24-Jan/Famularo-JPN/DSWCI DX Window/Veldhuis-HOL)

ZAMBIA 3330 R. *Christian Voice* 0118 Man in heavily accented English hosting New Year's Eve festivities, playing uptempo pop vocals and sounding as if he might have imbibed a bit of the bubbly himself. Said they would be "celebrating the New Year in style...until 6 o'clock in the morning [0800 UTC]." Thought I heard mention of "Radio 2" at 0155 and definite "FM 106.2" at 0200, but severe QRM from CHU's lower sideband—which, in theory, is suppressed—made copy difficult. This kind of programming didn't sound at all like what one would expect from *Christian Voice*, so perhaps it was a relay of R. 2 for the occasion. (1-Jan/Hill-MA) 2250, *Christian prayers and gospel-type mx, promo for program "every Sunday at 20 hours Central African Time,"* no real formal signoff, just carrier cut after song ending 2205*. Used LSB to avoid CHU. (1-Jan/Novello-NC)

6265 **ZNBC** Lusaka, 2040 Solo/group drumming with occasional vocals, pips 2100, some talk, highlife mx, occasional "*Radio One*" semi-ID by man interspersed with talk in local language. Usual 4910 empty. Fair signal with utility QRM, splash from Greece-6260, and QRN. Guess increased use of this frequency, as heard again 24-Jan with ID at 0300. (21-Jan/Novello-NC)

UNIDENTIFIED 2559.84, 0240 fast-paced SS sports commentary, fading up to good level at times; R. Alajuela logged here by others in the past, but nothing noted in the vicinity of 5119 tonight. (24-Dec/Novello-NC)

3960 UnID 0803 Somebody with nonstop exotic local music, mostly high-voiced man "chant-singing" to the accompaniment of bongo-type drums. By 0915 or so, what I could hear of the music was more monotonous—just two notes, over and over, on a deeper drum. No speech noted at any time. Very weak and clobbered by ham QRM after 0845. Checked just before 0800 next morning, but not much readable through midsummer QRN levels, although it seemed the same type of music as at tune-in the previous morning. Surely too late for even extreme West Africa; unlikely RRI Palu (two hours before their sunset) or RRI Padang (three hours before theirs). Perhaps an Irian Jaya or PNG move? Definitely worth pursuing. (3-Jan/Hill-MA)

4535 UNID 0100-0110, Program with comunicados, with heavy QRM from UTE station. Some Andean music. I assume it's Ecuador because they mentioned Cutervo, Lajas, and other Ecuadorian cities. Too weak to identify (18-Jan/Escoto/DSWCI DX Window/Veldhuis-HOL)

4760 UnID 1935v* Someone here daily since Dec. 23 fading in around 1910 with man orating in unknown language; frequent short bridges of Central Asian music featuring flutes, also exotic solo vocals. Audio appears to be of telephone quality. S/off seems to vary between 1930 and 1935, although the signal is so puny that it's not always possible to be sure. This might be a clandestine or one of the AIR stations on extended sked—or how about Afghanistan, which I seem to recall used this freq some years ago with a s/off time of 1930. (Wishful thinking, no doubt.) (23-Dec/Hill-MA)

5720.51 Unidentified Peruvian, 1109-1130, Presumed to be the one. This is a toughy. Fades in and out with a man in Spanish comments. At 1117 a woman joins with comments. Signal was threshold. I need help with this one please. (23-Dec/Bolland/DSWCI DX Window/Veldhuis-HOL)

5730.07 Unidentified Peruvia, 1120-1140, Noted a man in comments. Gave an ID as, "San..." Didn't hear another during period. Music also noted. Signal was poor with crashes. (23-Dec/Bolland/DSWCI DX Window/Veldhuis-HOL)

15295v 1705+ Ranting AA speech punctuated by applause, AR music after about 1730. Oscillating carrier, FM'ing audio, and drifting frequency—from 15294.16 past 15296 in an hour. (26-Dec/Novello-NC)

VERIFICATION SIGNER ILLEGIBLE (PAW PRINT) The January 2nd edition of "The Sun" newspaper tells the story of a British woman who lost a surprise gift for her roommate. A cellular telephone.

Rachel Murray left the gift under the Christmas tree. Later she found only a pile of torn paper. She immediately suspected that friend Tony Dangerfield's bloodhound, Charlie, was the culprit.

So Murray started a frantic search of their flat. She found nothing but figured that if the phone were somehow turned on, she could dial the number and hope to hear it ringing. So Ms. Murray obtained the number from the telephone company. She dialed it and heard muffled ringing from...sleeping Charlie's stomach.

At first she thought Charlie was lying on the phone, but then realized where it actually was. So the dog was rushed to a vet for treatment. He told Murray and Dangerfield to let nature take its course. 24 hours later, Charlie was just fine. If you are wondering about the phone, it works just fine too! (The Sun/Amateur Radio Newline/Coletti-NY) [talk about passing traffic...-AQ] 

Pirate Radio Report

Chris Lobdell

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Stoneham, MA 02180-0146

Internet: lobdell@fiac.net

MV Electra Still In Port!

In case if you're wondering what has happened to the Allan Weiner-Scott Becker radio ship project, the answer is nothing! The tug boat is still tied up at the Bang Shipyard in East Boston, MA. According to Anita McCormick, the ship's captain is due on board by late February and the ship is expected to set sail in March. I guess we will all have to wait to see if the Electra is lost at sea during a late winter storm off Cape Hatteras or will it make it to the Caribbean safe and sound.

Pirates Try New Frequencies

Because of a proposed move by religious broadcaster WGTG to 6955 kHz, some pirates are experimenting with new frequencies. P.J. Sparx, of *WREC-RADIO FREE EAST COAST* has tested on 6850 kHz in both SSB and AM during January with good results. I understand another pirate plans to use 6875 kHz. So, keep both your receiver and your ears tuned to this area when scanning the bands, or you may miss something!

Lots of Logs!

Many thanks to all of you for sending in this great bunch of logs this month! Sorry I couldn't use them all.

MYSTERY RADIO, was heard in Vermont by new member Dick Pierce. He heard them on January 11th at 1150 UTC on 6955 kHz playing instrumental versions of pop tunes.

ONE VOICE RADIO, was noted January 1st at 1832 UTC on 6955 kHz. Joe, the announcer was talking about the Wharton stretching book. [R. D'Angelo-PA] They were also noted at 1625 UTC on the same date by Dave Krause in Ohio.

PIRATE RADIO BOSTON, was heard on December 28th on 6955 kHz AM around 1700 UTC. Op Charlie Loudenboomer was reading listener mail and playing "I Saw Daddy Kissing Santa Claus". [D. Pearce-VT]

RADIO FREE EUPHORIA, the pro pot station featuring Captain Ganja was noted around 1550 UTC on January 1st on 6955 kHz. He was promoting a pirate radio directory featuring a George Zeller centerfold. [D. Pearce-VT]

RADIO FREEDOM, a new one, was noted testing on the 1st of January 1998 at 1735 until 1750 UTC on on 6955 kHz in the AM mode. [J. Fisher-MA]

As we mentioned briefly last month, a new station calling itself *RADIO SAN MARINO INTERNATIONAL* was heard here in North America. John Fisher in MA noted them on 7580 LSB kHz at 2000-2103 UTC on December 20th. Jerry Berg- MA, Tom Sundstrom-NJ and Jay Novello in NC all heard them around 2029 tune in with a trumpet like IS just before 2100 UTC followed by multilingual IDs.

The operators, who set up maildrops in both Germany and Italy claim these broadcasts were from inside San Marino. There has been much discussion in the European DX press, that this might have been a hoax! I guess we'll just have to wait and see.

The *VOICE OF ANARCHY*, which claims to be Chicago based, was heard on the 31st of December at 2309 sign on with music by Chicago musicians on the usual 6955 kHz. [B. Wilkins-MO]

Many thanks for the logs. Until next month, Happy Pirate DX!



QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010



P.O.Box 510, 4010 Basel, Switzerland

f/d "Himeji Castle" cd. in 36 ds.

ASIATIC RUSSIA: Voice of Russia 9875 Christmas cd. in 44 ds. (Humenyk).

AUSTRALIA: Radio Australia 5995, 9580, 11800, 11855, 12080, 13605 13755, 15240, 15510 and 17795 via **Shepparton** and **Brandon** f/d cds. in 50 ds. w/ schedule and sticker. v/s N. Holyn. (Humenyk).

BELGIUM: Radio Vlaanderen 9925 and 13785 f/d "Painting by De Smet and Van Den Berghe" cd. in 60 ds. (Humenyk).

BONAIRE: Radio Nederlands 9845 f/d "Wooden Rotatable Curtain Antenna" cd. in 45 ds. (Humenyk-ONT)

CANADA: Radio Korea International 9650 via **Sackville** f/d "Chang-seung Human Face-Shaped Pillars" cd. w/ schedule in 2½ wks. (Loudell-DE). 11715 f/d "The Rooftile" cd.

QSL Summary: George Maroti Of 21 Prospect St., Mt. Kisco, NY 10549 has provided me with an extremely detailed listings of all NASWA QSLs from June 97 thru Dec. 97. Its on a hard disc and can be sorted by country, date, DXer, etc. It contains 991 entries on 34 pages. Its quite an accomplishment! George plans to continue it for 1998!

ANGUILLA: The Caribbean Beacon 11775 f/d ltr. w/ schedule in 126 ds.

v/s B. Monsell Hazell. (Humenyk).

ASCENSION ISLAND: Radio Japan 15400 w/ report forms and schedule. (Humenyk-ONT).

CERTIFICADO DE SINTONIA

La Emisora RADIO LUZ Y SONIDO de Huánuco-Perú ha comprobado que:

El Sr. Richard A. D' Angelo ha recepcionado su señal, de la banda de 49 ms.-6473 kilohertz, el día 9 / 12 / 94 a hrs. 20:40:00 con una potencia de 1000 vatios.



50 ANIVERSARIO RADIO NEDERLAND 45 COLONES



CORREOS - U.L. - 1987 - Y. POLUS

COSTA RICA

in 96 ds. w/ schedule. (Humenyk)

CHINA, PEOPLES REP. OF: China Radio International 9690 f/d "Bronze Turtle" cd. in 38 ds. (Levison-PA). 11650 via **Xian** f/d "Peace and Dove" cd. in 22 ds. w/ schedules in EG and SP. (Humenyk). **China National Radio** 4905 f/d "CRI Dragon King Pool" cd w/ handkerchief and personal note in 33 ds. v/s Xu Ming and Ying Lian. (Loudell-DE).

COSTA RICA: Radio Reloj 4832 f/d "Modernistic Clock" cd. (not like the older version) in 3 wks. for a SP rpt. and \$1.00. v/s Francisco Barabona G. (Loudell-DE).

CUBA: Radio Habana Cuba 13680 f/d cd. w/ ltr. and contest forms in 220 ds. (Humenyk-ONT).

ECUADOR: HCJB 21455 f/d "Special Mtn" designed cd. in 3 wks. for ms. (Loudell). 9745 f/d "The Horses" cd. in 1 mo. for ms (US). (Loudell). f/d "Australian Stamp Northern Dwarf Tree Frog" cd. in 1 mo. for \$1.00.

IMPASSIONNÉ ATAYON VOLCANO



FEBC RADIO INTERNATIONAL-"THE SOUND ALTERNATIVE"

station pennant. (Loudell-DE).

FINLAND: Radio Finland 11900 f/d "Antenna Site" cd. in 7 wks. v/s Raimo Makela. (Loudell-DE).

FRANCE: Radio France International 9790 f/d "Rotating Tower" cd. in 150 ds. w/ schedule. (Humenyk-ONT).

GEORGIA: Voice of Hope 9310 f/d "Gospel Scripture w/ Mosaic" cd. in 39 ds. w/ schedule. (Humenyk-ONT).

GERMANY: The Overcomer Ministry 5880 via Julich n/d ltr. w/ newspaper in

* 11 ds. for SASE and \$1.00 (Neal). **Deutsche Welle** n/d cd. in 1 mo. (Humenyk).

GOA: All India Radio 7250 via * **Panaji** f/d cd. via New Delhi in 1 yr. and 11 mo. and 3½ mo. after a f/up rpt. w/ cassette tape. Also sent along ms. v/s Devendra Singh, Deputy Director of Frequency Assignments. (Sgrulletta-NY).

GREECE: Voice of America 15255 via **Kavala** f/d "Alaska Leconte Glacier" cd. in 1 mo. (Humenyk-ONT).

GUAM: Adventist World Radio

* **EDXP** via **HCJB** 9745 f/d "Australian Stamp Brown Antechinus FDC" cd. in 3½ wks. for \$1.00. v/s Bob Padula, QSL Manager. (Loudell).

EUROPEAN RUSSIA: Voice of Russia 9840 via **Saint Petersburg** f/d cd. in 17 ds. for an E-mail rpt. (Neal-TX). 5940 via **Krasnodar** f/d cd. in 25 ds. for E-mail rpt. (Neal). 11695 cd. in 17 ds. for E-mail rpt. (Neal). **Radio The Voice of Vietnam** 7250 f/d gold and blue "Logo" cd. in 3½ mo. Also rcvd. sticker and a

CHANNEL AFRICA

thanks you for your reception report on their transmission from the Meyerton Transmitting Station

Date: 20.8.96 Time (UTC): 1500

Frequency: 7155 kHz

SENTECH

(Pty) Limited
Private Bag X06
Honeydew 2040
South Africa

Best Regards to Kathy Otto

Short-wave receiving meter - Meyerton Transmitting Station

Mahendra Vaghjee

5 Mc Irvine Street

Beau Bassin

MAURITIUS

SPECIAL OFFER: The response to this offer has been great - your comments are very much appreciated. We are now offering for 1998 the following: 1300 foreign stamps for \$10.00 plus we will throw in an additional 600 US stamps; for \$15.00 will get you 2300 foreign stamps plus an additional 600 US stamps. They make for great enclosures or gifts with your reception reports. Send your orders to your QSL Editor.



f/d cd. w/ schedule in 3 wks. (Raymond).

HAWAII: KWHR 17555 f/s "Special Test Broadcast" cd. in 10 wks. for SASE. v/s Loren Holycross, Engineering Staff. (Sgrulletta). f/d "Globe w/ Satellite Beam" cd. in 80 ds. (Humenyk-ONT).

HUNGARY: Radio Budapest 11905 via **Diosd** f/d "Mathius Church" cd. in 134 ds. (Humenyk-ONT).

INDIA: All India Radio * 3345 via **Jaipur** f/d "Ranghar Building" cd.

DEUTSCHE WELLE

DW

RADIO UND TELEVISION AUS
DEUTSCHLAND

RADIO AND TV FROM
GERMANY

RADIO Y TELEVISION
DESDE ALEMANIA

RADIO ET TELEVISION
D'ALLEMAGNE

in 289 ds. or 52 ds. after a f/up rpt. for a taped rpt. and ms. Reply was via Delhi. (Sgrulletta).

ISRAEL: Kol Israel 7465 f/d "Logo" cd. in 52 ds. w/ schedule. (Humenyk). 12080 same in 43 ds. (Humenyk-ONT).

ITALY: RAI f/d "Nude and April Painting" cd. in 1 mo. (Humenyk).

JAPAN: Radio Japan 9535 f/d "NHK Building" cd. w/ schedule and rpt. forms in 28 ds. v/s Y. Fushimi. (Humenyk). 13650 f/d "Maple Trees and Wild Monkeys" cd. in 24 ds. w/ schedule.

(Humenyk). **Radio Tampa** 3925 f/d cd. w/ note and sked.

VERIFICATION SIGNERS: Radio

One 4910 Luke L. Chikani.

Addr: P.O. Box 50015, Lus-

aka. **Radio Tanzania Zanzi**

bar 11734 Ali Bakiri Muon-

bwa. He does request \$3.00.

Radio Monte Carlo 9595 Alexi

Haisaniuk, Jefe Tecnico. **Radio**

Oriental 11735 same as above w/

Deborah Ibarra, Secretaria de Dir-

ecion. **Radio Portugal Internacional**

6130 Christiane Haupt, Secretary of the

French Service. Addr: Ap. 1011, POR-1001,

Lisboa. **Assyrian Voice** 9865 Roland T. Bidjamov,

Editor in Chief. Addr: Qala Atouraya, 25 Pyatnitskaya Street, Moscow

113326. **BSKSA** 11870 Suliaman Samnan, Director of Frequency Management.

SIBC 5020 John Babera, for General Manager....via PLAY DX.....Sam.

INTERNATIONAL

IBRA
RADIO



BROADCASTING ASSOCIATION

in 24 ds. (Humenyk).

KUWAIT: Radio Kuwait 9855 and 9880 via Kabd f/d "Don't Forget Our POWs" cd. in 68 ds. w/ schedule. (Humenyk).

LATVIA: Radio Latvia International 9535 2 f/d cds. w/ station penn-
* ant in 18 wks. for \$1.00. v/s Yogita Cimcus. (Maroti-NY).

LITHUANIA: Universelles Leben 9760 via Sitkunai f/d cd. w/ personal
* ltr. in 17 ds. for 1 IRC. (Neal-TX).

JORDAN: Radio Jordan 11690 2 f/d cds.

in 35 ds. for a taped rpt. cover-

ing 2 ds. reception. Also sent 2

IRCs. v/s Zawad Jada. (Stewart-MO).

KOREA, REPUBLIC OF: Radio Korea Inter-

national 15575 f/d "Rooftile" cd.

in 50 ds. w/ newsltr. (Humenyk).

NEW BRITAIN: Radio East New Britain

3385 f/d ltr. after a f/up rpt. for a

95 reception for \$1.00. v/s Ese-

kia Mael, Provincial Programme Man-

ager. (Colton-FL).

NEWFOUNDLAND: CRKN 6160 f/d folder in

15 mo. after 2 f/up rpts. I had to

phone the station and spoke to Mr.

Jerry Brett in their transmitter

dept. A FAX (709) 576-5099 yielded

the QSL. v/s S. Williams. (Maroti).

NEW GUINEA TERR: Radio Enqa 2410 f/d

prepared cd. in 47 ds. for SASE

(used). v/s Gabriel Palao, Station

Technician who used to work at

Radio Chimbu (Martin-CA).

NEW ZEALAND: Radio New Zealand Inter-

national 9700 f/d "Kiwi/Logo" cd.

in 3½ wks. for 3 IRCs. Also rcvd.

schedule and merchandise offers. (Loudell)

RADIO

2P32: *J. Yllera* mandyyu

TEATRO YCUA MANDYYU - 590-KHZ

Desde la misma Capital
de la Cordialidad

San Pedro de Ycua Mandyyu
Paraguay - Corazon de America

Una Emisora que Une Corazones
DEL PARAGUAY Y LAS AMERICAS

1978 - 1996

World Harvest Radio

LESEA BROADCASTING

Special Test QSL



KWHR - Naalehu, Hawaii
Antenna site located near South Point

NORWAY: Radio Norway International 7485 QSL via E-mail request in 1 mo. (Boulder-CA). 9560 f/d "Rosepainting Clock" cd. w/ schedule in 3½ mo. (Loudell). **Democratic Voice of Burma** 11850 via **Kvitsoy** f/d ltr. in 75 ds. for 1 IRC. v/s Nelson Ku, for Harn Yawnghe. (Flynn)

PAPUA NEW GUINEA: Radio Sandaun 3205 f/d ltr. in 1 mo. for \$1.00 v/s Paia Ottawa, Technician. (Colton).

PERU: Radio Santiago Ferguson, Frequency Director. (Loudell-DE).

* 5730 prepared cd. w/ personal 2 page ltr. by special delivery in 3 mo. for a taped rpt. and SASE. v/s Juan Tuchia Oscate, Alcade and also Guillermo Gomez Garcia, Director. Juan is the mayor of the zone or township and this station is his project and part of his governmental program. Addr: Municipalidad Distrito de Rio Santiago, Radio Santiago, Puerto Galilea, Provincia de Condorcanqui, Amazonas, Peru. (Lazarus-LA)...Verie nice report...Sam.

PHILIPPINES: VOA Tinang 11705 f/d "Greenville" cd. in 13 ds. v/s Dan Ferguson, Frequency Director. (Loudell-DE).

POLAND: Polish Radio Warsaw 11815 f/d "Warsaw" scene cd. w/ ltr., schedule and rpt. forms in 1½ mo. for \$1.00. (Loudell-DE).

ROMANIA: Radio Romania International 6155 f/d "Woman Costume from Vlasca Area" cd. in 65 ds. Also rcvd. pocket calendar and sked. (Humenyk-ONT).

RUSSIA: Voice of Russia

7350 "Arbat Square" cd. in 43 ds. (Bueneman-MO)

7360 "Kremlin" cd. in 44 ds. (Bueneman-MO). 15430

"Friendship House" cd. in 1 mo. (Levison).

RWANDA: Deutsche Welle 11810 n/d "Great Circle Map" cd. in 4 mo. for a FAXED rpt. cd. was sent from the UK. (Maroti-NY).

* **Radio Rwanda** 6055 p/d "Logo" cd. in 1 mo. for a FR rpt. and \$1.00. (Maroti).

SAO TOME: VOA Pinheira 4960 f/d "Colorado River" cd. in 1 mo. w/ VOA

guide. (Humenyk). 4750 f/d "Mt. Rainier" cd. in 24 ds. (Colton-FL). 6035 f/d "Rafting on the Poudre River" cd. in 3 wks. (Bueneman-MO).

SAUDI ARABIA: BSKSA 11935 f/d "Logo" cd. in 109 ds. w/ schedule and rpt. forms. (Humenyk-ONT).

SIKKIM: All India Radio

3390 * via **Ganqtok** f/d "Archaeological Survey" cd. in 284 ds. for a taped rpt. and ms v/s Devendra Singh, Assistant Director. C/V #234. (Sgrulletta-NY)..Hey John, if you hear it again, call me at (860) 589-0083..Sam.

SINGAPORE: Radio Japan 11860 via **Kranii** f/d "Maple Trees



Dear George Marot1

Thank you for your Reception Report of my Transmission detailed as follows:-

Date :8th March 1997, 12th March 1997
Time (UTC) :0405 to 0507, 0257 to 0330
Frequency 11.760Mhz

I have checked your Reception Report against our Transmission Schedule and have the pleasure of confirming it as correct.

The Eastern relay station consists of two sites 110km apart on the Island of Masrah. The North site has two 750KW Medium wave transmitters, on 702KHz and 1413KHz. The South site has four 100KW Short wave transmitters. It is the smallest of the World Service transmitting sites. Pictured above is the Short-wave site.

Your report will be included in our file of confirmed reports.

BBC On Air Magazine has full details of all BBC World Service Programmes and Frequencies

Chris Dolman (G4VJQ, A45XL)
SENIOR TRANSMITTER ENGINEER
B E R S
Masrah Island
Sultanate Of Oman

and Wild Monkey" cd. in 21 ds. w/ schedule. (Humenyk).

SLOVAKIA: Radio Slovakia International 9440 f/d cd. in 1 mo. (Raymond).

SOUTH AFRICA: The Investment Channel 6160 via **Meyerton** "SENTECH" cd. in 2 wks. for an E-mail rpt. v/s Kathy Otto. (Renfrew).

SOUTH AMERICA (Pirates):

* **Radio Blandenque** 7570

f/d cd. in 27 ds. for 2

IRCs. v/s Raul Gonzalez.

* (Eramo-ARG). **Radio Cochiquaz**

6980 f/d cd. in 28 ds.

for 2 IRCS. via Uruguay. (Eramo-)

SPAIN: Radio Liberty 7155 (ARG).

via **Playa de Pals** f/d ltr. in 88

ds. v/s David Walcutt, Operations Liaison. (Humenyk-ONT).

SWEDEN: Radio Sweden 7290, 9805, 13800

and 15240 f/d "60th Anniversary" cd.

in 20 ds. w/ schedule. v/s Ole Adlir.

SULAWESI: RRI Ujung Pandang (Humenyk).

4750 f/d prepared cd. w/ station seal in

25 ds. for an IN rpt. after numerous f/up

rpts. v/s Beni Koesbani. SASE was utilized

by the station. (Martin-CA).

SUMATERA: RRI Jambi 4927 p/d ltr. w/ prepared cd.

and ltr. in 71 ds. for \$1.00. v/s Buchari Muh-

ammad, Station Manager. (Flynn-OR). **RRI Tanjung**

Pinang 4920 f/d prepared cd. w/ station seal in 23

ds. for an IN rpt. and SASE (used). (Martin-CA).

THAILAND: Radio Thailand 15395 f/d "Thai Way of Life"

cd. in 106 ds. (Humenyk).

TURKEY: Voice of Turkey 9460 via **Gakular** f/d "Flower" cd.

w/ sticker and schedule in 136 ds. (Humenyk-ONT).

Voice of Meteorology 6900 p/d ltr. in 37 ds. for 2

IRCS. v/s Recep Yilmaz, Head of Forecasting

Department. (Eramo).

UKRAINE: Radio Ukraine International 6090

and 12050 f/d "Nezalezhnosty Square"

cd. in 32 ds. (Humenyk).

USA: Voice of Greece 17745 via **Green**

ville f/d cd. w/ site in 44 ds.

w/ schedule. for \$1.00 (Buer-FL).

KJES 7555 f/d cd. in 156 ds. v/s

Michael Reuter. (Humenyk). **WSHB** 9455

f/d "Antenna Complex" cd. in 135 ds.

v/s Judy P. Cooke, Staff. (Humenyk).

Radio NADECO 5070 via **WVCR** f/d sheet in

6 ds. for ms. v/s Martins Anyaegbu. (My-

ers-VA). **KVOH** 17775 p/d "Globe" cd. in 1

mo. (Humenyk-ONT).

USA (Pirates): KRAP 6955 f/d cd. in 52 ds. w/

newsltr. (Humenyk). **Radio Free East Coast / WREC**

f/d cd. in 46 ds. (Humenyk). **Radio Nonsense** 6955

f/d OSL sheet #23 in 46 ds. for 3 ms. (Neal-TX).

VENEZUELA: Radio Maracaibo 4860 f/d cd. in 65 ds.

* for an 82 reception! v/s Winter Denyite Monges.

Addr: P.O. Box 1.116, Barquisimeto 3001-A. Sent \$1.00

The v/s collects pennants and decals. (Flynn-OR)..Nice!

Radio Amazonas 4940 p/d cd. in 6 wks. for \$2.00 and US

stickers. (Myers-VA).

WEST BERLIN: Deutschlandfunk Radio 6005 f/d cd. w/ decal &

personal ltr. in 30 ds. for a taped rpt. and 2 IRCS. v/s

Ulrich Reuter. (Stewart-MO). (Colton-FL).

ZAMBIA: Radio Christian Voice 3330 p/d ltr. in 42 ds. for \$1.00

I have a few extra items but not quite enough to fill out another page. Best of QSLing.....Sam.

Net Notes

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

The BBC World Service audio is now available full-time on the Web. It appears to be the Americas stream.¹

The Voice of Free China turned into Radio Taipei International on January 1. Announcements that day indicated it is now part of the Central Broadcasting System. We found a CBS Web site² — as visitor number 8 — but so far we've not seen a page for RTI itself.

LaSEA Broadcasting has consolidated its Web URLs for WHRI and KWHR under one URL.³ The old URLs continue, but they are not being promoted on air.

KNLS, Alaska, changed to a new URL too.⁴ And Radio Vlaanderen Internationaal changed its Web address⁵ again, for the umpteenth time.

Radio Mexico International,

XERMX, appeared on the Web, promoting the site⁶ on its SW outlet on 9705 kHz. Another station appeared too: China Radio International.⁷

Kol Israel surfaced with another page⁸ giving its transmission schedule. This time the host is the Reshet Bet service. So far as we can determine, Kol Israel still has no e-mail capability of its own.

The very useful "Internet Guide To International Broadcasters"⁹ by Thorsten Koch and the Nordic Short-wave Center¹⁰ adjusted the URLs for consistency with the newspaper hosting these pages.

On the club front, the South Pacific Union of DXers changed its home site again.¹¹

Note that the preface "http://?" below is implied...

1. www.audionet.com/bbc/

2. www.cbs.org.tw/

3. www.whr.org/

4. web.knls.org/

5. www.brtn.be/rvimagic/

6. www.telecommex.com/imer/rmi.html

7. www.cri.cngb.com/

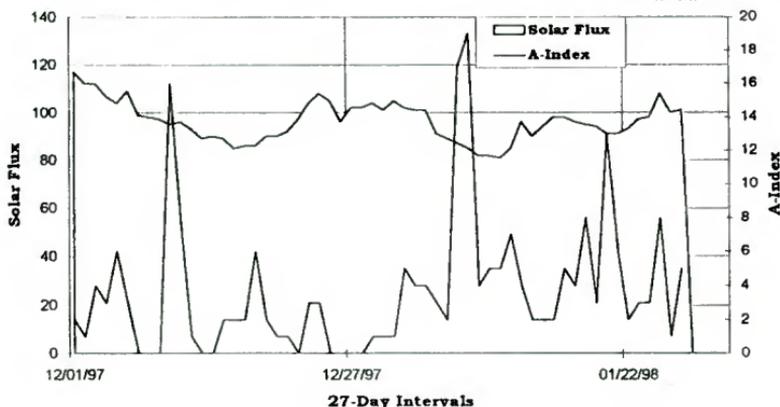
8. bet.netvision.net.il/tedarim.html

9. swl.sydsvenskan.se/iguide/

10. swl.sydsvenskan.se/

11. www.vds.com.au/~donley/spud.html

Solar Flux & A-Index: Dec '97 - Jan '98



Contributors' Page

Fred S. Kohlbrenner
2641 S. Shields St.
Philadelphia, PA 19142
Internet: fkoehl@ix.netcom.com

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA
Albert ARNOLD, Chesterfield, VA
Jerry BERG, Lexington, MA
Art BLAIR, Orangevale, CA
Brian BOULDEN, Fairfield, CA
Paul BROUILLETTE, Geneve, IL
Erik BUENEMAN, Hazelwood, MO
Jim CLAR, Rochester, NY
David CLARK, Thornhill, ONTARIO
Larry COLTON, Oldsmar, FL
Peter COSTELLO, Matawan, NJ
Wendel CRAIGHEAD, Prairie Village, KS
Pasquale DiBAISE, Portland, ME
Rich A. D'ANGELO, Wyomissing, PA
Nicolas ERAMO, Buenos Aires, ARGENTINA
Walt FAIR, Maracaibo, VENEZUELA
Ralph FAMULARO, Hyugo-ken, JAPAN
J. FINDLATER, Los Angeles, CA
Mark FINE, Remington, VA
Bob FRASER, Cohasset, MA
Bill FLYNN, Cave Junction, OR
Ron HOWARD, Carmel, CA
Bob HILL, Littleton, MA
Mark HUMENYK, Weston ONTARIO
David KRAUSE, Eastlake, OH
Art KRUGALUK, Wilmington, MA
Harold LEVISON, Philadelphia, PA
Steven MARTIN, CA
Paul McDONOUGH, Medford, MA
William McGUIRE, Cheverly, MD
Jim MOATS, Ravenna, OH
Mark MOHRMANN, Coventry, NY
Bob MONTGOMERY, Levittown, PA
Gary NEAL, Sugarland, TX
Ed NEWBURY, Kimball, NE
Jay NOVELLO, Wake Forrest, NC
Takayuki Inoue NOZAKI, Tokyo, JAPAN
Gary OTTESON
Denis PASQUALE, New Brighton, PA
Stephen PITTS, Minnetonka, MN
Stephen PRICE, Johnstown, PA
R8B AOR AR-7030 100' LW
FRG-7700 ICF-2010 Eavesdropper
R8 165' LW
NRD-515 LW
Sangean ATS-909 MFJ-956 LW
R8 20m random wire
ATS-803A MFJ-1778 G5RB antenna
R8 Sony 2010 Eavesdropper LW
R8A NRD-515/SE-3 ANC-4 Carolina Beam
AR3030 DX-390 YB400 70' LW Tun-4A
YB400 indoor LW
Sangean ATS-818CS LW
R8 HF150 FL-3 AD Sloper LW
Sony 2010 ICF-7600G LW's
Sangean ATS-909 40m LW
ICF-SW55 ATS-803A R5000 LW
FRG-7700 LW
Sony ICF-2003 ICF-SW100S 2m LW
R8 R7A DX-Ultra inverted V
NRD-535D Dymek vertical
Sony 2010/whip 120' dipole RW Loop
Magnavox D-2935 AN-60 antenna
Kenwood R600
R8 R70 YB400
DX-380
DX-440 48' indoor LW
NRD-535D 440' V beam @ 180 degrees
R388 DX Pro active antenna
Grundig YB-400
WJ-1000 R8 60'Sloper 20' loop
R8A LW's
Sony 2010 beverage antennas
NRD-535D FRG-7 Eavesdropper RW Loop

Ed RAUSCH, Cedar Grove, NJ	R8A R5000 Sony 2010 Eavesdropper
Bob RAYMOND, Nashua, NH	IC-745 40meter 1/2 wave vertical
Jim RENFREW, Rochester, NY	R8 A/D Sloper
Christos RIGAS, Wood Dale, IL	R2000 Sony 2010 and 2002 Sloper AN-1
Chuck RIPPEL, Cornland, VA	WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Doug ROBERTSON, Oxnard, CA	Sony ICF-SW40 whip antenna
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
John ROGERS, Belmont, MA	
David ROSS, Hamilton, ONTARIO	R8A Sherwood SE-3 2010 50' inverted L
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
John SGRULLETTA, Mahopac, NY	NRD-515 DX Sloper Mosley SWL-7
Randy STEWART, Springfield, MO	FRG-100 w/Collins filters
Tom SUNDSTROM, Vincentown, NJ	
Takayuki Inoue NOZAKI, Tokyo, JAPAN	
Mahendra VAGHJEE, Rose Hill, MAURITIUS	Lowe Europa 225E Sony 2010 LW ARA60
Sean WARNER, Minneapolis, MN	Drake SW8 Satellit 700 YB305 Sloper
Terry WOLF, Bellville, OH	Sony 2010 LW
Robert YAJKO, Leechburg, PA	R8-A 80' LW
Dan ZIOLKOWSKI, South Buffalo, NY	R8 Sloper SPS NRF-7 SEM QRM Eliminator

This months column contains the list of members contributing to the January and February issues. Loggings from Wendel Craighead were made while on a vacation to Bao Loc, Vietnam, a town about 200km east of Saigon.



WANTED: Hammarlund HQ-180 or HQ-180A or Kenwood from 1980's era (R-600, R-1000, or R-2000) or Radio Shack DX-302. Must be in good working condition. Please state price. Eric Bueneman, 631 Coachway Lane, Hazelwood, MO 63042-1347. Phone (314) 839-9751. E-mail <EricB631@juno.com>.

FOR SALE: Drake R8A in good working condition with manual. No scratches. Price \$800.00 including shipping in the United States. Donna Ring, 3110 Wisteria Avenue, Baltimore, MD 21214.

FOR SALE: Customized beam headings (from/to) and distances (MI/KM) to more than 480 WRTH transmitter sites including Russian Republics. ITU Country Codes included. Send your location or coordinates, \$8.00. 1996 NASWA Journals complete, \$16.00. 1996 "Passport to World Band Radio", \$10.00. WRTH '91, \$5.00; '96, \$10.00. All items include shipping (overseas shipping extra) Cashiers check or money order only, please. Al Drehman, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398 (not collect). E-mail <ADrehman@juno.com>.

WANTED: World Radio & TV Handbooks from 1950 to 1962 and 1964 to 1966. I will pay a minimum of \$10.00 per book in good condition, plus postage. Please respond to Jim Olson, 3442 North Cook Road, Powder Springs, GA 30127. E-mail <w4jo@mindspring.com>.

FOR SALE: DXtreme SWRL. The Short Wave Reception Log V2.0 (tm). Lets you log the stations you've heard, create reception reports, and track your monitoring station performance. SWRL features integration with Word, WordPad, or Write for the automatic creation of reception reports; a full range of inquiries; and an extensive on-line help system. Runs on 486SX+ PC running Windows 3.1 or 95. Regularly \$26.95, only \$19.95 USD (postpaid) for NASWA members. Demo is available. Write for data sheet or visit us on the web at <http://www.dxtreme.com/dxtreme>. DXtreme Software, 26 Langholm Drive, Nashua, NH 03062. E-mail <dxtreme@ix.netcom.com>.

Tropical Band Loggings

Sheryl Paszkiewicz

P.O. Box 152
Manitowoc, WI 54221-0152

- 2310 AUSTRALIA CAAMA 1/10 pops at 1220 (Ripp-VA)
2410 NEW GUINEA R Enga 12/25 1215 weak (Clar-ON) 1/10 1217 tlk weak (Ripp-VA)
- 2460h USA WANO 12/23 1130 IDs, pop mx (Mont-PA)
3220 NEW GUINEA R Morobe 12/31 1220 New Years greet, TC (Raus-NJ)
3230 S AFRICA SABC 1/9 2120 All Nite Jazz pgm, AK tlk (Kohl-PA)
3234.9 PERU Luz y Sonido 1/10 0940 Andean mx, TC, ID (Kohl-PA)
3240 SWAZILAND TWR 11/5 0340 organ mx, IS (Newb-NE)
3249.5 HONDURAS Luz y Vida 12/28 0401* EG rel, ID, addr (Alex-PA) 1/10 0232 Luis Palau segment, Guat pgm addr, ID (Berg-MA)
3255 S AFRICA BBC 12/29 0325 EG Network Africa, sports (Krau)
3280 ECUADOR LV del Napo 12/27 0308 mx pgm, ID, anmts (Brou) 12/18 0932 long tlks in Quechua, mx (Mont-PA) 1/10 0301 ID (Berg)
- *3282.6 MOZAMBIQUE Beira 12/30 2032 all kinds mx, PT anmts, relay from Maputo, ID, chimes (Hill-MA)
- 3286.6 JAVA RRI Madiun 12/18 0941 tlk, lcl mx, weak & tent (Mont)
3300 GUATEMALA R Cultural 12/29 0321 EG rel pgm (Krau)
3305 NEW GUINEA R Western 12/25 1245 Xmas mx, ID (Clar-ON) 1/2 1215 long tlk, island mx (Ripp-VA) 12/25 1300* PSAs, carols, ID (Raus-NJ)
- 3306 ZIMBABWE ZBC 12/25 0150 Xmas sked, Afr mx, tlk (Alex-PA)
3315 ADM ISL R Manus 12/26 1156 vcls, weak (Clar-ON)
3316 SIERRA LEONE SLBS 12/25 2305 lang tlk, fair (Clar-ON)
3325 NEW BRITAIN R Bougainville relay FM 100 12/28 1215 (Raus-NJ)
3325 SUMATRA RRI Palangkaraya 1/10 2159 SCI, ID, nx (Kohl-PA) 12/26 1215 EZL, IS, anmts (Clar-ON) 1/4 2205 IN nx, instls, vcls fair (Hill-MA)
- 3326.1 NIGERIA RN 12/26 2235 pop & rap (Clar-ON)
3330 ZAMBIA Christian Vo 1/1 2250 prayers, hymns, lcl TC (Nove-NC) 12/25 0230 rel mx, EG anmts, ID (Alex-PA) 1/1 0118 EG New Year festivities, pops (Hill-MA)
- 3339.9 PERU R Altura 12/28 0230 anmts, OA folk mx, weak (Alex-PA)
3344.9 MOLUCCAS RRI Ternate 12/27 1257 Jak pgm //others (Clar-ON)
3370 GUATEMALA R Tezulutlan 12/7 1130 ID, marimbas, class mx (Robi)
3375 BRAZIL R Educadora 12/18 0948 mx, ID, fair-good (Mont-PA)
3385 NEW BRITAIN RENB 1/10 1220 pops, tlk, island mx (Ripp-VA) 12/28 1310* //3325 (Raus-NJ)
- 3390 SIKKIM AIR Gangtok 12/28 1430 EG ID, FC, Western mx (Vagh)
3395.1 SUMATRA RRI Tanjungkarang 1/2 2155 SCI, ID, nx (Ripp-VA) 1/10 2225 lagu pops, fade (Kohl-PA)
- 3396 ZIMBABWE ZBC 1/10 0344 hilife, Radio 4 IDs, nx (Kohl-PA)
3400 LIBERIA Star R 1/03 0515 lang tlk, drums (Ripp-VA)
3663 UNID 1/4 0120 tlk, peak 0145, poss Azad Kashmir R direct (Clar)
3904.8 SUMATRA RRI Banda Aceh 1/9 2252 mx, tlk, SCI (Kohl-PA) 12/30 2315 tlk, seemed //15150, tnx Ward (Clar-ON)
- 3905 IRIAN JAYA RRI Merauke 12/25 1258 EZL, ID, SCI, nx (Clar-ON) 1/5 2031 instls, anmts (Hill-MA)
- 3905 NEW IRELAND RNI 12/31 1250 Everlys, ID (Raus-NJ)
3920U CLAND Vo Communist Party of Iran 1/8 0434 Farsi tlk, orch bridges //4376.5 (Hill-MA)
- 3925 JAPAN R Tampa 1/02 1245 JP tlks, Western pops (Ripp-VA) 12/30 *2017 chimes, JP ID, fair & echoey (Hill-MA) 1/4 1215 JP tlk, class piano mx, good (Clar-ON)
- 3925 PAPUA NBC 12/25 1150 Xmas mx, Karai ID, strong (Clar-ON)
3935 NEW ZEALAND ZLXA 12/28 0740 dialog, weak (Clar-ON)
3945 INDIA AIR Gorakhpur 12/30 1415 HD mx, NP nx, ID, Urdu nx, EG nx (Vagh-MAUR)
- 3961.3v MONGOLIA Mongol R 1/3 0915 MG tlk, folk mx, jazz (Famu-JP)
4050 KYRGYZ KR 1/5 1148 tlk lang, instl (Famu-JP)

4409.4 BOLIVIA R Eco 12/10 2240 old time dramatic mx, polka type, ID (Nove-NC)

4419.8 PERU R Bambamarca 1/02 0210 lang tlks, huaynos (Ripp-VA)

4449.9 BOLIVIA R Frontera 12/10 2310 disco mx, ID, TCs (Nove-NC)

4471.9 BOLIVIA R Movima 12/10 2340 comunicados, IDs, William Tell Overture, exc (Nove-NC)

4565v PERU Gotas del Oro 1/3 0903 anmts, folk mx, ID, drift (Alex) 1/11 0345 huaynos, anmts in lang (Ripp-VA)

4606.4 IRIAN JAYA RRI Serui 12/26 1255 vcls, better 12/27 (Clar-ON)

4686v VIETNAM unid stn 1/5 1048 VT tlks, instl, nx//5924.6 (Famu-JP)

4732.2 BOLIVIA R La Palabra 12/11 2310 rosary (Nove-NC)

4746.8 PERU R Huanta 2000 12/18 1020 SP ID, OA mx (Mont-PA)

4750.1t PERU R San Fran. Solano 12/28 0240 tlk, OA mx (Alex-PA)

4753.2 SULAWESI RRI U-P 1/02 2158 SCI, nx, 20 over (Ripp-VA) 12/31 2200* tlk, instls, SCI (D'Ang-PA) 11/4 1245 pops, IN (Newb)

4760 ANDAMAN 12/25 1530 AIR EG nx //4775, 4820, etc (Howa-CA) 12/31 1229 lcl anmt, EG nx //4800, 4920.1 (Clar-ON) 1/10 1134 SC mx, tlk, 1200 anmts (Kohl-PA) 1/10 1148 SC mx, tlk strong (Ripp-VA)

4760 CLAND Vo Iraqi People 1/5 1943* orations, martial mx (Hill-MA)

4765 BRAZIL R Rural 12/14 0203 PT rel, hymns (Flyn-OR)

4775 PERU R Tarma 12/18 1020 SP IDs, promos, ads (Mont-PA)

4775 SIKKIM AIR Gangtok 1/10 1210 SC mx, tlks (Ripp-VA)

4777 GABON RTV 2220 mx, FR nx, anmts, ID (Vagh-MAUR)

4777.1 JAVA RRI Jakarta 12/27 1325 anmt, weak (Clar-ON)

4778.5 GUATEMALA RC Coatan 12/27 0255 tik, ID, NA 0302* (Alex-PA) 11/1 1140 Indian tlk, organ, guitar (Newb-NE)

4779.8 ECUADOR R Oriental 12/4 1015 tlk, TC, folk mx, barking dogs, chicken & cow noises (Alex-PA)

4789.1 IRIAN JAYA RRI Fak-Fak 12/25 2110 fair (Clar-ON)

4810 ARMENIA Vo Armenia 12/23 2135 EG pgm //9965 (Nove-NC)

4815 BRAZIL Rdf Londrina 12/22 0005 rel pgm, hymns (Flyn-OR)

4815 BURKINA FASO RTV 11/24 0553 FR tlks (Newb-NE)

4815 CHINA CRI 12/28 1245 class piano mx //4883 (Clar-ON)

4819.2 HONDURAS LV Evangelica 12/27 0350 SP prayer phone in (Brou) 11/1 1147 peppy rel song, SP anmts (Newb-NE)

4820 BOTSWANA RB 12/27 0358 lang lcl & C&W mx, PSAs (Brou)

4820 INDIA AIR Calcutta 1/3 1556 EG cmtry //4850 (Famu-JP)

4832 COSTA RICA R Reloj 1/3 0420 LA pops, IDs (Brou)

4835 MALI RTV 11/24 0604 drums, FR vcls (Newb-NE)

4845 GUATEMALA R Kekchi 12/6 0050 tlk, Xmas mx, ID (Alex-PA)

4850 CAMEROON CRTV 12/27 2104 EG anmt, ID (Clar-ON) 12/21 2100 EG nx, FR tlk, Afr pops (Alex-PA)

4850 INDIA AIR Kohima 1/3 1551 EG cmtry, ID (Famu-JP)

4850 UZBEK RT 12/14 0205 Asian mx, xylo IS, poss ID (Alex-PA)

4855 BELARUS Mayak 12/31 1329 IS, RS anmt, mx, tnx Ward (Clar)

4860 INDIA AIR 12/12 1855 SC mx, Urdu anmt, vcls (Hill-MA)

4865 BRAZIL R Alvorada tent 12/13 0004 rel pgm, hymns (Flyn-OR)

4860 RUSSIA Chita R 12/30 1200 TP, RS tlk, organ, tlk (Nove-NC)

4865 CHINA Gansu 12/11 1155 CH tlk, 5+1 TP (Nove-NC)

4870 BENIN ORTB 12/13 2145-2303* FR tlk, Afr mx (Alex-PA)

4879.7 ECUADOR RN Espejo 12/27 0007 SP tlk, IDs, Xmas mx (Clar-ON)

4880 INDIA AIR Lucknow 12/11 *1215 IS, mx, tlk (Nove-NC)

4890 PAPUA NBC 12/29 1215 EG pops, TC, phone call (Krau) 1/03 1301 pop mx here instead of 3925 (Clar-ON) 12/30 1207 rock & C&W, ID (Nove-NC) 1/10 1300 mailbag, pops (Ripp-VA) 11/4 1235 rock mx, EG anmts, folk mx (Newb-NE)

4900 EGYPT R Cairo 1/10 2125 AR tlk, mx //9850, 9800 not hrd (Hill)

4900 UNID 12/11 1055 Andean folk mx, tlk, not La Oroya (Alex-PA)

4905 CHAD RNT 10/23 2055 FR phone in (Hume-ON) 11/24 0537 FR, Afr mx, percussion (Newb-NE)

4910 INDIA AIR Jaipur 12/26 1238 Hindi nx //4860 (Clar-ON)

4910 ZAMBIA ZNBC 1/03 0430 lang tlk, pop mx, Afr mx TP (Brou) 12/26 0257 Afr vcls, IDs (D'Ang-PA) 1/10 0317 hilife, C&W, lang anmts, IDs (Kohl-PA)

4915 BRAZIL R Anhanguera 12/28 2354 tlk, IDs, fair (Ziol-NY)

4915 GHANA GBC 12/26 2200 EG nx, Xmas carol, ID (Roge-MA) 11/11 2245 EG/lang hymns, ID (Newb-NE)

4920 INDIA AIR Chennai 12/31 1233 EG nx, mx pgm (Clar-ON)

4920 UKRAINE VoR 12/24 1945 EG rel, Bible story, mx (Alex-PA)

4926.5 BOLIVIA R San Miguel 1/1 0104 interviews, ID (Flyn-OR)

4930 TURKMEN TR 1/4 1456 TT tlk, Mideast mx, ment Asgabat (Famu)
 4935 PERU R Tropical 12/12 2356 Cotton Eye Joe song, ads, echo ID
 (Nove-NC)
 4939.5 VENEZUELA R Amazonas 12/24 0302 SP guitars, ID (Fly-OR)
 4940 INDIA AIR Guwahati 12/26 1233 EG/HD nx (Clar-ON)
 4940 SHRI LANKA Ekala 12/28 1255 tlks, SC mx coming in from AIR
 too (Clar-ON) 1/4 1228 SEAs mx, seemed EG tlc mixing w/AIR
 & China (Clar-ON)
 4950 KASHMIR AIR Srinagar 1/3 1435 EG nx, wx, chimes, ID (Famu-JP)
 4955 COLOMBIA RN 12/12 1050 mx, chimes, IDs, good (Ziol-NY)
 4959.7 VIETNAM VoV 1/6 2148 SEAs mx, anthem, wake up exercises
 w/presumed counting (Hill-MA)
 4960 SAO TOME VOA 12/31 0603 FR nx, current affairs (D'Ang-PA)
 4960.4 VANUATU RV 12/27 0720 C&W, tlc EG, island mx (Clar-ON)
 1/3 0740 lang tlc, island mx, ID obliterated (Hill-MA)
 1/11 1002* chorus, anmts, piano, ment Vanuatu (Kohl-PA)
 12/25 1105 rel tlc, anmt, NA (Berg-MA)
 4965 VIETNAM VoV 11/20 0705 EG, lang fair (Crai-VIET)
 4969.5 SABAH RTM Kota Kinabalu 12/26 2215 fair, some audio (Clar-ON)
 1/5 2156 instls, tlc & mx back & forth (Hill-MA)
 4980 VENEZUELA Ecos del Torbes 11/4 0240 folk mx (Newb-NE)
 4990 INDIA AIR Itanagar 1/6 1530 EG nx, ID (Howa-CA) tent 1/6
 1630* SC mx, anmt (Fly-OR)
 4990.9 PERU R Ancash 12/31 0440 lcl mx, ID (Roge-MA) 1/10 0430
 huaynos, 0500* (Ripp-VA) 11/4 0405 ID, Andean mx (Newb-NE)
 4995.6 PERU R Andina 12/14 1154 tlc, ID (Yajk-PA) 1/4 0302* huaynos
 tlc, ID, weak, abrupt off (Alex-PA)
 5003.5 RIO MUNI RN Bata 12/30 0610 SP tlc //6250.3 (Clar-ON)
 5005 MALAYSIA RTM Sibul 1/02 2113 Asian mx, tlc (Ripp-VA) 12/26
 2215 lang tlc, weak-fair (Clar-ON) 11/28 1200 nx, Koran //4895
 (Crai-VIET)
 5005 NEPAL RN 12/28 0113 vcl, nx 0115, mx bridges (Clar-ON) 12/29
 1416 EG world nx, ID //3230 (Famu-JP)
 5009.6 MADAGASCAR RM 1/7 0318 FR tlc, lang tlc, ID (Roge-MA) 1/10
 *0254 IS, NA, anmts (Kohl-PA)
 5010 INDIA AIR Thiru. 1/6 0120 Indian election coverage (Roge-MA)
 5020 SOL ISL SIBC 12/31 1255 chimes, Auld Lang Syne, PM msg (Raus)
 12/31 1255 minister msg, GSTQ, governor msg EG (Clar-ON) 12/31
 1323 EG tlc, mx bridge, tent (Ziol-NY)
 5025 CUBA R Rebelde 12/26 1248 tlks, drumbeats (Famu-JP)
 5025 UZBEK RT 12/29 1947 GM ID, FC, instls (Famu-JP)
 5030 COSTA RICA AWR 11/1 1152 EG Quiet Hour (Newb-NE)
 5035 CENT AFR REP Rdf 12/25 2101* hilife, FR anmt, brass band (Clar)
 5039.2 PERU R Libertad 12/11 0008 echo ID, rustic mx, tnx Veldhuis
 (Nove-NC)
 5040.1t ECUADOR LV del Upano 12/4 1117 exotic mx, nx, ads (Alex-PA)
 5040 SUMATRA RRI Pekanbaru 12/27 1305 anmts, AR like vcls (Clar)
 5047 TOGO Lome 11/24 0545 FR tlks (Newb-NE)
 5050.1 TANZANIA RT 12/28 *0155 IS, anmts, anthem, ID (Alex-PA) 1/10
 *0155 IS, SH tlc, NA, ID, prayer (Kohl-PA)
 5055 ICELAND ISBS 12/25 2153 Xmas bx, chimes, ID, tnx Ward (Clar)
 5066.4 CONGO Vo People 12/25 0503 FR tlc, Afr mx (Clar-ON)
 5076.7 COLOMBIA Caracol 12/27 0415 SP history of big bands (Brou)
 11/1 1156 SP ID, promo (Newb-NE)
 5100 LIBERIA RL 1/2 2140 lang tlc, EG ID, Afr mx (Roge-MA) 11/24
 0548 lang tlc, drums, mx (Newb-NE)
 5305 PERU R Frec Nueva 1/4 0210 anmts, pops, ID (Alex-PA) 1/3
 0152 SP anmts, mx, TC, ID R La Inmaculada (Eram-ARG) 12/9
 2355 rap, IDs, tnx Klemetz (Nove-NC)
 5407 CAMBODIA R Prov Govt 1/03 1205 tlc, mx (Ripp-VA) 11/23 1130
 string mx, IDs, instls, 1229* (Crai-VIET)
 5500 ETHIOPIA Vo Tigre Rev 1/10 0420 discussion (Ripp-VA) 0350
 flute mx, ID, nx (Roge-MA) 12/26 *0354 IS, ID, nx (D'Ang)
 5597.5 VIETNAM Lao Cai 12/14 1145 long vcl mx, tent (Nove-NC)
 5770 NICARAGUA R Miskut 12/10 0050 SP anmts, ballads, ID (Alex-PA)
 12/26 2303 anmts, vcls, IDs (D'Ang-PA) 12/10 1211 reggae
 version of First Noel, buenas dias, IDs (Nove-NC)
 5770 USA WHRI 12/31 0750 EG rel teaching (Krau) 12/27 0600 EG
 DXing w/Cumbre (Alex-PA)
 5810 USA VOFC 12/14 2236 listeners ltrs, mx (Krau)
 5825 USA WEWN 12/28 0150 EG mx, ID (Dibi-AT SEA) cool!--sp

International Band Loggings

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

- 5910 RUSSIA VOA relay Novosibirsk in CH *1300, RS-style test tones to 1258, f (Ziolkowski 12/28)
5925 VIETNAM V of Vietnam in VT 0700, violin, trumpet, piano sel, tlk (Craighead VIET 11/20)
5930 SLOVAKIA R Slovakia Int in EG 0115, listeners' mail, ID (Wolf OH 12/1)
5940 RUSSIA V of Vietnam relay in EG 0100, sked, ID, mailbag (Robinson TN 12/3, Trescher PA)
59494 GUYANA GBC in EG 0030, sked of Icl events, also hd 0840 w/Hindi vcls, f (Alexander PA 12/20)
59524 BOLIVIA R Pio Doce in SP 0005, phone tlk, chatter, ID, many "hellos", f (Alexander PA 1/4)
5955 GERMANY R Liberty relay in RS 0044, cmntry, //7220, hour xmsn s/on *0100 (Humenyk ONT)
5960 CANADA D Welle relay Sackville in EG 0140, "Inside Europe", ID (DiBiase AT SEA 12/28)
5965 CANADA BBC relay Sackville in EG 1245, short story "The First Man", g (Fraser MA 12/13)
5965 UNITED KINGDOM HCJB relay Skelton in FR 1940, preaching by OM, mx, f (Humenyk ONT)
5975 UZBEKISTAN R Tashkent in EG 1200, pgm sked, ads, vcls, f (Robinson TN 12/5, Newbury NE)
5980 MALAYSIA RTVM Sabah in EG 2330, ID, pop mx, interview, nx, exc (Craighead VIET 11/21-2)
59858v MYANMAR RM Yangon in lang 1326, tlk, fluted mx, IS, clock chimes, ID, nx? (Clark ONT 12/28)
5985 CONGO R Congo Liberte in FR 2105-2200*, hilife mx, speech, ID, NA at s/off (Rausch NJ 12/13)
5995 MOROCCO VOA relay in EG *0600-0700*, ID, nx, history of "I Love Lucy" (Findlater CA 12/10)
6010 ITALY RAI Rome in EG 0050, ID, rpt on milk farmers in Italy (McGuire MD, Newbury NE 1/1)
6025nf? ALBANIA R Tirana in EG 2200, nx, rpt on port of Durres, f (Rogers MA 1/1) in EG 1945, story on fighting crime in Albania, ID, press rpts, nx (Krause OH 12/21)
6045 PORTUGAL D Welle relay in EG 0647*, QTH, fqys, QRM (Krause OH 12/27, Trescher PA 12/19)
6055 SPAIN REE in EG 0100, IS, ID, rpt on massacre in Mexico (McGuire, Newbury 1/1, Trescher)
6055 RWANDA R Rwanda in FR 2101*, tlk, pops, ID's in FR, EG, lang?, fqys, NA, QRM Slovakia, f (Stewart MO 12/26, Rippel VA 12/29) in Vern 1626, Afro mx, reggae, tlk (Famularo JAPAN 1/3)
6060 MALAYSIA RTVM Miri Sarawak in lang 0001, rock mx, phone-ins, exc (Craighead VIET 11/26)
6071 INDONESIA RRI Jayapura in IN 1312, Koran chants for Ramadan, QRM CFRX (Clark ONT 1/3)
6085 GERMANY Bayer Rundfunk in GM 1813, Christmas choral singing, cmntry (Costello NJ 12/23)
60904nf? ALBANIA R Tirana in AL 0139, lcl mx, tlk, //7270, co-chan w/Carib Beacon (Costello NJ 1/2)
6105 COSTA RICA R Universidad in SP *1258, IS, Radio ICR ID, fqys, classical mx (Novello NC 12/9)
6130 LAOS Lao Natl R&TV in lang 1157, big bells 1200, long tlks, SEA mx bridges (Rippel VA 1/10)
EG lesson 1258, FR lesson 1239, orch anthem, ID, strong sig (Craighead VIETNAM 11/20)
6135 SWITZERLAND SRI in EG/GM 0031, ID, nx in GM (Levison PA) in SP 0230, nx (McGuire MD)
6135 BRAZIL R Aparecida in PT 0700, ID, excited anncr, BR mx, ment Sao Paulo (Findlater CA 12/10)
6155 SINGAPORE R Corp of Singapore in EG, traffic rpt, Beach Boys rx, f (Craighead VIETNAM)
6160 CANADA CKZU Vancouver in EG 1538, wx & road condx, sports (Howard CA 1/2) Only 500 w!
6165 INDIA AIR Delhi in Sindhi 1235, ext svce w/Indian pop mx, //11585 stronger (Novello NC 12/17)
6195 SINGAPORE BBC relay in EG 2200, ID, nx, cmntry on Pope's Xmas homily (Findlater CA 13/27)
6200 CZECH REPUBLIC R Prague in EG 0107, review of events in 1997 (Krause OH 1/1, Trescher PA)
62035 PERU R Cusco in SP 0104, mx pgm, cmntry, TC's, ID, f (Eramo ARGENTINA 12/23)
6205nf? NIGERIA R Kudirat in EG 1440, cmntry on democracy, lcl mx segments, ID (Costello NJ 12/21)
6220nf? ANGOLA VORGAN in PT 2130-0102*, on late for Xmas, usual s/off is o/a 2100, kids chorus, ID's "V de Angola", VORGAN ID at 2200, "Resistencia da Galo Negro" ID 2211, tlks, Afro pops, church service with mx & sermon, s/off w NA, g-exc (Alexander PA 12/24-25)
6230 GEORGIA R Georgia in RS 2056*, tlk, lite instrml mx, ID, f w/poor audio (Alexander PA 12/21)
6230 MONACO Trans World R in GM 0945*, relig pgming, IS, p, //7160 (Alexander PA 1/3)
6250 EQUATORIAL GUINEA R Nacional in Vern 0000-0102*, on late for Xmas, lcl relig mx, tlk, ID, s/off w/long NA (Alexander 12/25) on late for New Year's, phone-ins, 0004* (D'Angelo PA 12/31)
6260 GREECE V of Greece in GK 0155, mx, pips, tlk, //7450 (DiBiase AT SEA, Findlater CA 12/27)
6292nf? GEORGIA V of Hope in EG 1700-2100*, ID's, U.K. QTH, relig pgming, mx (Hill MA 12/27, Alexander PA 12/21, Krause OH 12/29, Fine 12/27)
6549 LEBANON V of Lebanon in AR 1848, tlk, song, ads, ID, nx, interview (Vaghjee MAURITIUS 1/6)
6570 MYANMAR Defen Forces BC in lang 1028, Burmese mx, OM ancr (Craighead VT, Sgrulletta NY)
67256 PERU R Satellite in SP 0035-0300*, comunicados, OA mx, ads, ID, long S Amer Indian chants, NA (Alexander PA 12/6, Rippel VA 1/2, Eramo ARGENTINA 12/23)
68115v PERU R Ondas del Rio Mayo in SP 0018, Span mx pgm, ID, TC's (Kohlbrener PA, Eramo ARG)
6900 TURKEY Turk Meteorological Stn in TK 0542, continuous lcl mx, vcls, ID by OM (Rippel VA 1/10)
69373 CHINA Yunnan People's BS Kunming in CH 2345, local CH mx, weak sig (Alexander PA 12/20)
7085 ERITREA V of the Broad Masses of Eritrea in Vern 1828*, tlks interspersed w/drum-heavy native vocals, ancmts by YL to s/off (normally 1800), some ham & RTTY QRM (Hill MA 12/30)
70986v INDONESIA RRI Yogyakarta in IN 2159, "SCI" & nx?, very weak & choppy sig (Hill MA 12/27)
7105 GERMANY D Welle Wertachtel in RS 0041, pop mx, cmntry, //9690, f (Humenyk ONTARIO)
7105 UZBEKISTAN R Tashkent in EG 2134, ID's, suggestion on how to contact stn (Costello NJ 12/22)

- 7115 THAILAND R Thailand in EG 0821, OM replying to questions re SE Asian econ problems & their impact on Thailand, into Thai lang 0829, pgms usually don't change on the hr (Craighead VT 11/25)
- 7150 UKRAINE RUI in EG *0100-0145, "Ukrainian Films Abroad", chorus singing (Robinson TN 12/5) in EG 0059, "Ukrainian Diary", mx (Flynn OR 12/29) in EG 0400, ID, jazz, sked (Findlater CA)
- 7185 MYANMAR R Myanmar Yangon in lang *0030, drums, chimes, lcl instrms, Burmese vcl, anmts, childrens' chorus, fade out rapid after 0040, f-g (Clark ONT 12/27, 1/3)
- 72311 INDONESIA RRI Fak Fak in IN 1215, choral mx, SCI & Jak nx, f-p, ham QRM (Clark ONT 12/26)
- 7285 POLAND Polish R Warsaw in EG *2050, tlk on Warsaw's Marriott Hotel, f (Robinson TN 12/9)
- 7345 CZECH REPUBLIC R Prague in EG 2245, jazz mx-live at lcl Prague nite clubs (Brouillette 12/20)
- 7325 AUSTRIA RAI Vienna in EG 0145, tlk on banning landmines, Mozart (Newbury NE, Trescher PA)
- 7335 GERMANY Overcomer Ministry relay in EG *0200, "Voice of the Last Day Prophet" relig tlk, repl 6025 fqy, //7355 (WRNO?) and 7435 (WWCR?) (Moats OH 12/2)
- 7400 RUSSIA R Maryja relay in PL 1602, ID "Tu Radio Maryja", nx, vg (Hill MA 12/23)
- 7405 CHINA China R Int in EG 1400, world & local nx, "China Report" (Krause OH 12/29)
- 7410 INDIA AIR in EG 1840, mailbag, ID, nx, local mx, // 11620 (Costello NJ, Yajko PA, Krause OH)
- 7415 BOTSWANA VOA relay in EG 2000, nx of attempted Nigerian coup, Afr svce (Sgrulletta NY)
- 7465 ISRAEL Kol Israel in EG 2000, Jerusalem taxi drivers on strike, exc (Robinson TN 12/10)
- 7500 ROMANIA R Moldova Int relay in EG 0330, ID, nx, cmntry, f-p (Alexander PA, Rogers MA 1/5)
- 7580 NORTH KOREA R Pyongyang in KR 0700, NA, ID, military mx, YL talk (Findlater CA 12/12)
- 7580nflsb SAN MARINO R San Marino Int in EG/IT *2000-2300*, IS, multilang ID's, anhmth, tlk in IT about San Marino, pop mx, EG ID, andc //11410 (Rausch NJ, Alexander PA, Sgrulletta NY all on 12/20)
- 77459nlf? PERU R Cristal in SP 0015-0300, tlks, ID, SP pops, OA folk mx, ID, weak (Alexander PA 12/28)
- 94948nlf? ABKHAZIA Repub of Abkhazia R in RS 0534-0650, domes vcl, jazz sets, tlk by OM, Mayak IS at 0559, pips, nx?, piano bar & band mx, fair w/QRM after 0600, rptd 5 kw xmtr (Clark ONT 1/6)
- 9505 CZECHOSLOVAKIA R Prague in EG 0820, tlk w/young architects re CZ bldgs (Krause OH 12/30)
- 9505 PHILIPPINES R Veritas Asia in IN 1200, EG ID's, relig pgm in IN, hymns, p (Rogers MA 1/2)
- 9540 UZBEKISTAN R Tashkent in EG 2032, nx, letters from listeners, Asian svce (Raymond 12/20)
- 9560 CANADA China R Int relay Sackville in EG 0500, rpt on US-China relations (McGuire MD 12/5)
- 9580 GABON Africa #1 in FR 2100, ID, highly animated OM w/ Afro pops, phone-ins (Findlater CA 12/14)
- 9585 BRAZIL R Globo Sao Paulo in PT 0816, Sunday mx show hosted by R Perez, v (Nozaki JP 12/14)
- 9605 MADAGASCAR R Netherlands relay in EG 1805, "Media Network" - West Europe's aid to East Europe's broadcasts after communism ends, "Newline" (Krause OH, Trescher PA, Fraser MA)
- 9610 TAIWAN Taipei R Int (former VOFC) in EG *1200, NA, ID, dedication of new stn (Rausch NJ 1/1)
- 9615 RWANDA D Welle relay in EG 2113, sports rpt, topics on Africa, mx, features (Krause OH 12/13)
- 9655 TURKEY VOT in EG 2303, TK goals in 98, econ stability, happy 98 (Newbury NE, Arnold VA)
- 9675 ITALY RAI Rome in IT 0135, nx, sports, ID at 0142, mx, (DiBiase AT SEA 12/29)
- 9680 THAILAND R Thailand via VOA xmtr in EG 0029*, "Environmental Report", f (Flynn OR 12/8)
- 9730 SRI LANKA SLBC Ekala in EG 1325, Xmas mx, oldies mx, chatter by OM, vg (Clark ONT 12/28)
- 9730 MYANMAR R Myanmar Yangon in EG 0648-0730*, Burmese pop sets, many ID's, nx, US pops, C & W mx, Asian stringed instrmts (Craighead VIETNAM 11/21)
- 97375 PARAGUAY RN del Paraguay in SP 1125, ID, nx, symphony (Montgomery PA, Levison PA)
- 9760 CYPRUS CBCC in GK 2215-2245, guitar IS, ID, soap opera in GK, abruptly off (Rogers MA 1/2)
- 9765 RWANDA D Welle relay in GM 2215, Strauss waltzes, operetta pats, //15275 (Newbury NE 1/1)
- 97803v YEMEN Rep of Yemen Radio in EG 1859, NA, into AR 1900, fair sig but poor audio (Fine 12/31)
- 9885 SWITZERLAND SRI in EG 2013, rpt on Basil Parapsychology Day, g, //6165 (Fraser MA 12/14)
- 9885 BOTSWANA VOA relay in EG 0300, ID, nx, Studio 38, tlk on irradiation of food (Findlater CA)
- 99399nlf ALBANIA TWR relay in Armenian 1617*, ID "Trans World Radio, Monte Carlo" and mention of Yerevan, IS at s/off, fqy down from listed 9950 (Hill MA 12/27)
- 9945 CHINA China R Int Xi'an in EG 1205, ID, nx, bubble jammer QRM (Montgomery PA 1/5)
- 9965 ARMENIA V of Armenia in EG 2130, tlk on significance of Xmas celebration (Raymond 12/25) in SP 0245-0315 (Eramo ARGENTINA) in Armenian/FR 2010, celeste IS (Flynn OR 12/17)
- 100598 VIETNAM R Hanoi Net 1 in VT 1230, lite VT pop mx, ID, nx (Novello NC, Montgomery PA 1/5)
- 11735nlf INDIA AIR Bangalore in Pushu *0213, IS, subcont mx, no pips on hr, weak sig (Sgrulletta NY 1/5)
- 11785 SRI LANKA D Welle relay in EG 2100-2150*, nx, cmntry on Euro \$, weak (Findlater CA 12/10)
- 120194v VIETNAM V of Vietnam in Thai 2320, lcl mx, vcls, tlk, 3 min s/off 2327, back on *2330 with EG xmsn, ID, tlk, sig was fluttery and poor overall, listed 30 kw (Ziolkowski NY 12/5)
- 12045 SRI LANKA R Japan relay in JP 1320, live? best w/singing/tlking, //11705 (Costello NJ 12/31)
- 13605usb/nlf CUBA RHC in EG 2050, "Mailbag Show"-books & videos available on Castro (Fraser MA 12/4)
- 13660 UNITED KINGDOM BBC Skelton in AR/EG 1245, lang lessons AR/EG, f (Humenyk ONT)
- 13680 BELGIUM R Vlaanderen Int in EG 1258, nx, wx rpt, interview, mx, IS (Arnold VA 12/19)
- 13710 INDIA AIR Bangalore in EG 1400, tlk re values, ID, cmntry by OM (Otteson PA, Humenyk ONT)
- 13730 AUSTRIA RAI in EG 1135, New Year's Day pgm in Vienna, great mx, f-p (Newbury NE 1/1)
- 13750 COSTA RICA AWR Alajuela in EG/SP, relig tlks & mx, EG to 1300, then SP (Arnold VA 12/19)
- 13805 NORWAY RNI in EG 1603, polit nx, features on Norway, Xmas mx (Fraser MA, Krause OH)
- 15125 SPAIN REE Noblejas in SP 2000, ID, nx, phone-in talk pgm at 2100, g (Findlater CA 12/12)
- 15135 RWANDA D Welle relay in EG 1942, sports show on auto racing, fqy, ID (Krause OH 12/26)
- 15160 ALGERIA R Algiers Int in EG 1200, ID, nx, cmntry, pop mx, g, //11715 weak (Alexander 12/19)
- 15240 SWEDEN R Sweden in EG 1430, "The Estonia Foundation" (Robinson TN 12/5, Humenyk ONT)
- 15250 ROMANIA RRI in EG 1305-1356, IS, nx, general tlk, interview, mx, sports (Arnold VA 12/10)
- 152445 CONGO R Nac Congolaise in FR 1830, patriotic songs re Mobutu, ID, nx (Rausch NJ 12/13)

- 15400 FINLAND R Finland in EG 1330, "Finland's Imperial History", womens' vote (Robinson TN 12/5)
 15565 CYPRUS BBC relay in EG 1415, call in show from around the world re abortion (Krause OH 12/14)
 17545 ISRAEL Reshet Beth Tel Aviv in HB 1425, nx, taped cmntry, ID (Humenyk ONTARIO 11/2)
 17575 FRENCH GUIANA R France Int relay in EG 1235, "Bottom Line" re European econ (Fraser MA)
 17620 FRANCE R France Int in FR 1430, nx briefs by OM & YL, //17605 nf?, exc (Humenyk ONT 11/2)
 17630 GABON Afrique No. 1 in FR 1443, mx by OM group, jingle, no sign of Dubai (Humenyk 11/2)
 17670 EGYPT Radio Cairo in AR 1448, wailing chants by OM, ID, p (Humenyk ONT 11/2)
 17675nf NEW ZEALAND RNZI in EG 0036, TC and pgm notes, "Chariots of Fire", f (Clark ONT 1/11)
 17675nf? SOUTH AFRICA Chan Africa in EG 1415, phone interview re electricity in S Afr (Humenyk 11/2)
 17725nf PORTUGAL RDP Int in PT 0758, light mx, choral anthem, ID, fqys, nx, f-p (Famularo JP 12/27)
 17745 EGYPT Radio Cairo in AR 1130, Cairo theme mx, YL tk; p (Famularo JAPAN 1/3)
 17755 ASCENSION ISLAND VOA relay in EG 2005, nx, interview, mx, IS (Arnold VA 12/31)
 17820 CANADA RCI Sackville, NB in FR 1509, taped interview by OM & YL, IS (Humenyk ONT 11/2)
 17830 ASCENSION ISLAND BBC relay in EG 1511, studio interview, //21660 (Humenyk ONT 11/2)
 17840 ANTIGUA BBC relay in EG 1600, Queen's Xmas message- events of 1977 (Newbury NE 12/25)
 17860 RWANDA D Welle relay Kigali in GM 2155*, OM w/nx, IS & ID at s/off, g (Findlater CA 12/11)
 21465usb COSTA RICA RFPI in EG 1840, environmental observations & poss remedies (Levison PA 12/1)
 21515 PORTUGAL RDPi Lisbon in PT/EG 1400, nx re aviation exhibition, g (Robinson TN 12/5)
 21610 JAPAN R Japan Tokyo in EG 0153, ID, mailbag pgm- sunspots finally returning? (Hill MA 12/27)

CLANDESTINE STATIONS

- 6205nf SOUTH AFRICA R Kudirat V of Democracy relay in EG 1949, ID followed by greetings of the season and a wish for peace in Nigeria (Costello NJ 12/27) ED: See R Kudirat item listed also above for the same fqy. Maybe one of these days I'll be able to figure out who's Cland and who is not!
 6210 MIDEAST Democratic Voice of Iran in lang *1827-1901*, hrd almost daily with a big carrier, then a tape loop of ID's, mx, and M East pgming, faint audio (Hill MA 1/2) ED: Xmtr in central Asia?
 6240 TAJIKISTAN(p) Dushanbet(p) relay of R Free Asia in Lao(p) 2200-2300*, EG ID's, lite pop mx, //7550 (Alexander PA 12/24, Berg MA) ED: See Jan LN for full RFA sked, p.30)
 6770usb SOMALIA R Mogadishu V of the People in lang? 2050-2059*, vocals, Qur'an march, p (Hill 1/1)
 7095 IRAN V of Southern Azerbaijan in lang 1702, mostly YL in Azeri rhetoric, M East guitar/strings mx, strong ham QRM obscured closing ID but hrd QTH & sked, weak w/fades Hill MA 12/13)
 7295 IRAN V of Islamic Revolution in AR *0330, AR mx, vocal anthem, Koran at 0333, mentions of Iraq, tk (anti-Saddam?), g, //7115, 6195 both mixing with other stations (Alexander PA 12/6)
 8300nf CHINA New Star Broadcasting Station 4, CH number station in CH(p) 2300.(Craighead VT 11/16) ED: See p.26 of the LN column in the November 97 NASWA Journal for further details.
 11605 UKRAINE(p) V of Oromo Liberation in lang? 1714-1759*, mix of tks by OM and YL & segments of local mx w/nice "Sagalee Bilisumma Oromo" ID at s/off, f (D'Angelo PA 1/1)
 11715 SOUTH AFRICA V of Free Nigeria relay in EG 1945, ID 1950, Indiana QTH for QSL's, station was rptd to change to 11645 (see p.29 Jan 98 LN) but still here on 12/27 (Fine VA 12/27)
 11940nf? CHINA V of China in CH 0830, Beethoven Emperor Concerto #5, tks by OM & YL, signal jammed on different days, loud buzz (Craighead VIETNAM 11/28)

TENTATIVE, PRESUMED, OR UNKNOWN

- 5905 GERMANY Welle West via DTK-Juelich(p) in GM/EG 0059, ID, TC, into pop Xmas mx-mostly in EG, pgm mostly in GM, EG greeting from Canadian soldier, QTH, 0300*, vg (Berg MA 12/26)
 6005 GERMANY Deutschland Radio(p) in GM 1345, tk, solo flute, TC, nx?, weak (Famularo JP 12/30)
 6125 RUSSIA R Rossii(p) in RS 1346, tk by YL, Tchaikovsky mx, opera mx, p (Ziolkowski NY 12/28)
 65495nf? SOMALIA Holy Koran Radio in lang 1655, relig tks and song, "Allaa Somalia Koran" has been hrd but did not hear any ID as Holy Koran Radio, recital of Koran at 1756, apparently running at same time as Voice of Lebanon on same channel. (Vaghjee MAURITIUS 1/9)
 6699v VIETNAM R Lao Cai(p) in VT 1100, band NA, OM/YL talks, Asian pop mx (Craighead VT 11/29) ED: Reporter says he will try to confirm ID by playing tape for Vietnamese friends)
 6866 SOMALIA R Hargeisa(p) in lang 1700-1848, Somali songs by OM, the only ancr of the pgm, heard "Somalia" many times, ID 1850, nx followed by prayer before s/off (Vaghjee MAURITIUS 12/7)
 6940 ETHIOPIA R Fana(p) Addis Ababa in lang 0349, flute & drum mx, weak sig (Brouillette 1/3)
 7285 VIETNAM V of Vietnam(p) in VT 2359, band NA, VT nx by YL mentioning Hanoi many times, fqys 0025, 3 minutes silence, NA again 0030, more nx, QRM from D Welle (Craighead VT 11/29)
 7370 TURKEY Turkiye Polis Radio(p) in TK 0522, TK mx, vcls, p with ute QRM (Rippel VA 1/10)
 9495 ABKHAZIA R Abkhazia(p) in RS? 0425-0549 f/o, tks, mx sels, weak signal w/QRM from RHC on 9505, hrd only 1 day. Either too weak or jammed on other tries (Sgrulletta NY 12/10) ED: See also Clark's logging listed above under same frequency.

NOTE: Too many loggings lately do not include sufficient details on program content to be truly useful to other members. Also, if an ID is not heard, please indicate alternative info to confirm the logging such as parallel fqy(s), IS, or whatever. I'm also receiving from time to time some loggings not indicating the time of day the station was hrd. It will be helpful to double check your data before mailing it in. I should stress that most reports I receive are excellent and appreciated.

6/96

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