

NASA

the
JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

VOLUME XXXVII NUMBER 4

APRIL 1997



Monitor MORE with advanced equipment from Universal Radio!

DRAKE

SW-2



**NASWA MEMBERS:
WE ARE PLEASED
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RECEIVERS!**

Dollar for dollar, the new Drake SW-2 has to be the best value in shortwave radio today. Here is a table top receiver, with a truly impressive array of features and capabilities, at a price that everyone can afford. Never before have you been able to get so much radio for so little money. Of course the SW-2 covers all longwave, medium wave (AM) and shortwave frequencies. Single sideband is easily tuned with separate LSB and USB positions. Amplitude modulated signals sound great through the front firing speaker. When a shortwave signal does start to fade you can engage sideband selectable synchronous tuning to stabilize and improve the signal. The capable memory system is nonvolatile and stores 100 channels (storing frequency, mode and detection). Memory recall may be accomplished by either keypad entry or by rotating the main tuning knob while in memory mode. Other refinements include: RF Gain, Tuning Bar Graphs, 100 Hz readout and Dimmer. Dual antenna inputs accept either a PL-259 coaxial or wire feedline. A mini earphone and 1/4" external speaker jack are provided. The optional remote lets you operate this receiver from across the room. The oversized digital display is large enough that you can actually see the frequency from across the room. Universal is excited to offer this exceptional radio value. The reliable, American-made Drake SW-2 carries a limited one year warranty.

Order #2222 \$489.95 (+\$7)

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- ◆ **Drake MS-8** This external speaker includes a 6 foot cord with plug #2846 \$48.95 (+\$4)
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Operate your SW-2 from across the room! This stylish remote does it all! Tune the radio up and down, control the volume, enter frequencies, change modes, mute and even dim the display!

SPECIFICATIONS

Frequency Range 100 - 30000 kHz
Power 12 VDC 1.5 A
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Antenna Impedance 50 ohm
Selectivity (-6dB) AM 6.0 kHz
 SSB/CW 2.3 kHz
Sensitivity <.5 µV SSB
	..... (10 dB S+N/N)
Intermediate Freqs.	..... 1st IF = 55 845 MHz
	..... 2nd IF = 455 kHz
Audio Output	..... 1 Watts at 8 Ohms
Standard Steps	..... 50Hz via Tuning Knob
	..... 5kHz Up/Down Buttons
Circuit Type	..... Dual Conv. Superhet.
Dimensions	..... 10.875" x 4.4" x 7.62"
	..... 276x111x194 mm
Weight	..... 5.8 Lbs. net (2.6 kg)

Shortwave Receivers Past & Present

Communications Receivers 1945-1996



- New 2nd Ed.
- 80 Chapters
- 350 Pages
- 600 Photos
- Printed Jan. 97
- Covers 1945 to 1996.
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This huge 350 page Second Edition includes over 500 shortwave and amateur communications receivers made from 1945 to 1996. Here is everything you need to know as a radio collector or informed receiver buyer. Entry information includes: receiver type, date sold, photograph, size & weight, features, reviews, specifications, new & used values, variants, value rating and availability. Seventy American and worldwide manufacturers are represented. Become an instant receiver expert!

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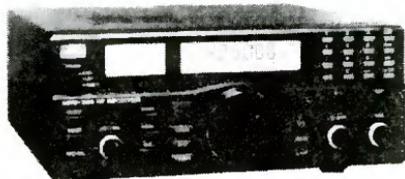
Chapter Titles:

Introduction, Buying A Used Receiver, Using This Book, More Information, Repair & Restoration, Allied, Ameco, AOR, Bearcat, Bharat Electronics, Cardwell, Collins, ComFocus, CPC, Cubic, Dansk Radio, Davco, Debeg, Drake, Eddystone, Elta, Eska, Galaxy, General Dynamics, Gonset, Hallicrafters, Hammarlund, Harvey-Wells, Heathkit, Icom, J.R.C., Kenwood-Trio, Knight Kit, Lafayette, Lowe, LTV Tecmo, Mackay, Marconi, McKay Dymek, Midland, Morrow, Mosley, Multi-Elimac, National, Norlin, Panasonic, PhaseTrack, Pierson-Holt, Plessey, Quality U.S. Tech., Racal, R.C.A., Raytheon, Realistic, Redfon, RF Communications, RFT, RME, Rohde&Schwarz, Rosetta Labs, Sears, Siemens, Skanti, Sony, Squires-Sanders, Standard, Sunair, Swan, Taiyo, Technical Material, Telefunken, TEN-TEC, Thomson-CSF, Transworld, Videotone, Mechlabor, Vigilant, Watkins-Johnson, Yaesu, Briefly Mentioned and Receivers That Never Were

JRC

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, 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. A built-in RS-232 port facilitates connecting a personal computer (4800 baud, 1 start bit, 8 data bits, no parity, 1 stop bit). Exact price is unknown at press time, but is expected to be under \$1000.



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COMMUNICATIONS CATALOG

Universal's free 1997 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:

1 800 431-3939

Another Winter SWL Festival is in the history books. About 185 enthusiastic hobbyists traveled to Kulpsville for this 10th annual event. The "gang of three" did another excellent job! My retirement as ANARC's Chairman on December 31st enabled me to visit with many more members than I usually get a chance to meet. It's not too early to begin planning your trip to Kulpsville next March. Check out the Calendar of Events for the early line.

At the Winter SWL Festival, our own **Marie Lamb** announced the recipients of this year's ANARC Awards. **Mark Connelly** was selected as the DX'er of the Year for his outstanding contributions to the field of international medium wave DX'ing. **Kirk Baxter** of the Association of Clandestine Enthusiasts was given a special Certificate of Recognition in honor of his outstanding work as system operator of the now closed ANARC BBS and for his 11 years of service to the hobby as president of the ACE. Well done gentlemen!

Special thanks to long time member **John Sgrulletta** for sending us a copy of the April 1966 edition of *Frendx*. It was John's sample copy. Unfortunately, he didn't keep any copies starting with his membership in May of that year. Remember, we are looking for back issues prior to the switch to all shortwave broadcast in August 1966. Any help from long time members/collectors is appreciated. Thanks John!

Via PLAYDX we learn that **Grigory Grigoriev** of Slantzy, Russia with 896 points won the 1996 Memorial Bernhard Gruendl contest. Congratulations!!! He was followed by **Vladimir Rozhkov** of Kansk, Russia with 755 points and **Mauno Ritola** of Lappeentanta, Finland with 751 points. Eleven DX'ers participated in the event.

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, ex-N8JQX, 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>.

The Longwave Club of America announced the winner of the 1996 H. John Clements Memorial Award in February's Lowdown. The recipient is long time member and frequent contributor **Max Carter**.

Fred Vobbe and the DX Audio Service celebrated the 144th edition of their audio magazine in March. It all began in April 1985 with C-60 tapes issued from Westland, MI. In the last 12 years, the operations were moved to Lima, the tapes were standardized to C-90's, and the editing is now done in an all digital mode. Congratulations to Fred and his staff for providing this important service.

Finally, a bunch of new items have been added to the Calendar of Events. I even managed to get some of them on the calendar correctly.

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



Our Motto is - "Unity and Friendship"

Calendar Of Events

- Apr 18 Meeting.** Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- Apr 18 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.
- Apr 19 Meeting.** Boston Area NASWA Chapter. The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 508-470-1971 or Internet: 74007.3434@compuserve.com. Check the BADX Web Page: <<http://www.grove.net/~badx/>>.
- May '97 Convention.** ODXA Convention '97 will be held at the CBC Broadcasting Centre in Downtown Toronto on Friday May 2 (Wine and Cheese reception) and Saturday May 3. Advance registration is \$15.00 Cdn. Mail to: Ontario DX Association, P. O. Box 161, Station A, Willowdale, Ontario, M2N 5S8, Canada.
- May 10 Meeting.** The Tidewater SWL's meet at 6:30 PM. For more information plus meeting location contact Joe Buch at 804-721-2782 or Internet: joseph.buch@dol.net
- Jun '97 Convention.** The 31st Annual European DX Council ("EDXC") Conference will be held on 6-9 June 1997 at the Hotel Lazne in the eastern part of the Czech Republic. It will be organized by the Czechoslovakian DX Club. Information can be obtained from Jaroslav Bohac, Jizerska 2900/11, 400 11 Usti n. L., Czech Republic; FAX +42 47 5211819, e-mail: khonzik@bbs.infima.cz.
- Jul '97 Convention.** IRCA Convention will be held in Costa Mesa, CA on July 25-27 at the Holiday Inn Bristol Plaza. Registration is \$35.00 which includes the banquet. Contact Mike Sanburn, P. O. Box 1256, Bellflower, CA 90707.
- Aug '97 Convention.** WTFDA Convention has been tentatively set for August 1-3. Convention host John Broomhall is exploring two sites: North Georgia mountains (about 75 miles from Atlanta) and in or near Metropolitan Atlanta. Activities include station tours, amateur TV demonstration, FCC Regional Field Office visit, guest speaker(s) and informal Q&A panel discussion. Further details when received.
- Aug '97 Convention.** NRC Convention will be held Labor Day Weekend (Aug. 29-Sep. 1) in Delaware. Further details and information will appear when received.
- Oct '97 Contest.** 1997 Adventist World Radio Contest. Further information will be published in the Journal or you can send a self-addressed stamped envelope to 1997 AWR Contest, c/o Dr. Adrian Peterson, Box 29235, Indianapolis, IN 46229.
- Feb '98 Convention.** New Zealand Radio DX League will hold its 50th anniversary convention sometime in February 1998. Exact dates and venue have not been established. Information from NRZDXL, P.O. Box 2956, Wellington, New Zealand. Further details and information will appear when received.
- 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 '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 over 200 hobbyists each year. See January's Journal for the registration form.

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

Contribute!

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

Musings

This column provides a forum wheras members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are are soley 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

John Sgrulletta, New York

In response to your request, I just came across my sample copy of *Frendx* which is the April 1966 issue. I joined in May of 66 but did not keep any early issues of the monthly bulletin.

I just got a QSL from Radio Integracao in Acre (State #15 QSL'd) and they sent a pix of the station, 3 postcards, a 3 color pennant with 1997 on it, a 3 page typewritten letter and self-prepared QSL card! This was in 11 months and no follow up was sent!

Keep up the great work at the Journal

73's, John

Francis George (WPE2NOD), 7101 Shore Road, Apt 5D, Brooklyn, NY 11209

I am a new member of NASWA having joined in March. I would very much enjoy hearing from a "pen friend" in England. Could you please mention this in your NASWA Notes column? (No, but this Musing should cover it, hi! -RAD) Also, do you know what happened to Bill Eddings? I was a member of NASWA in the 1970's.

Sincerely and 73's

(Bill Eddings past away in the early 1970's -RAD)

FRENDX: Twenty Five Years Ago....

Bill Eddings remained ill so the HQ section was under the direction of Dan Ferguson. The Board of Directors announced a change in the dues structure with first class delivery at \$10.00 a year possible thanks to the new offset printing process. Renewing for a fifth year were Alan Roth and F. Earle Hall. In the Shortwave Center, Ralph Perry writes about "The Sad Saga of Radio Telefis Eireann's Short-Lived Shortwave" while Al Sizer takes "An Honest Look at QSLs" and Ed Shaw explains the "Phenomenon of the Darkness Pattern." Gregg Calkin's QSL Report reflected returns from Burma, and the German Hydrographic Institute Time Signal Station. Jerry Berg submitted his last Log Report column in April. Larry Magne takes over the column in May.

Jim Renfrew <jimrenfrew@delphi.com>, 61 Wilcox Street, Rochester, NY 14607-3832

When I saw in the WRTH that it has an e-mail address, I took a chance and sent a QSL request via e-mail to Radio Christian Voice, Zambia. I have not had much luck getting any response to previous e-mail messages (usually a "bounce" message), and an e-mail QSL just doesn't look as nice as one received through the conventional mail. But the result was interesting enough to share with NASWA Journal readers! Hope you enjoy it too.

"Good day Jim,

"This is Phil Haggar, Station Manager for Christian Voice in Lusaka."

"Well, I can certainly confirm it was us you heard last weekend. And in a strange way, you have helped me!"

"We operate from a computer produced playlist, but, the presenters do like to put in their own music sometimes. According to the playlist, at 22 minutes past the hour, we had a Zambian gospel song playing, but here is your report:

>0422 UTC: Program of music. Although yours is a Christian station I could not readily identify any traditional Christian music. This program seemed to offer a more popular or "contemporary" variety of songs. The first song that I heard, at 0422, seemed to be a song in the Eric Clapton "white blues" style. There were few announcements."

"So I checked with the presenter, and guess what? He does like Eric Clapton style songs, and although our music library only has music by Christian artists, what you heard was a presenter bending the rules and so I have been able to have a brief chat with him about this!"

"But it was us and I will pass the email along to our Technical Department for you to receive a formal QSL."

"Thanks and regards."

"In Christ—Philip Haggar, Radio Christian Voice"

Nick Terrence <nterrenc@suffolk.lib.ny.us>

As we witness changes in the world of communication, I had a very basic thought. Even though there are budget constraints taking place with many major shortwave stations, a continent like Africa still heavily depends on this medium. In some situations, Africans need shortwave for survival. I have one analog am/fm/sw portable that I would be willing to donate to someone in Africa. Do you have any suggestions as to how I can do this? In fact, there are probably other NASWA members that may want to do the same. We could call it Radios for Africa. Perhaps they can be sent to a missionary for distribution. I would appreciate any help the membership can offer.

73, Nick

N4146b

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

Richard A. D'Angelo, 2216 Burkey Drive, Wyomissing, PA 19610
<r.dangelo3@genie.geis.com>

The 10th annual Winter SWL Festival was a big success. About 185 hobbyists ventured to this DX heaven for the 9th time. Messrs. Brown (and Mrs. Brown and family), Cones, and Field, the "gang of three," staged another incredible event that even had Gerry Dexter yelling, "Amazing!"

The program commenced early Friday morning with a long wave forum lead by our own Bob Montgomery. Scanners, pirates, utilities and easy listening were just some of the topics covered this year. The silent auction raised \$400.00 for Father John Eckert's African relief charity. The FEST concluded with the banquet on Saturday evening. A three piece jazz group kept the natives happy during the cocktail hour.

Of course, the real highlight was the annual midnight ride of Pancho Villa. During this year's record long broadcast, this wildly pirate recounted many of the highlights of the last 10 years as only Pancho could. It was a spectacular event which will go down in the annals of pirate broadcasting as "something special" (or something close to that...).

It's time to make plans to attend next year's Winter SWL Festival in Kulpsville. Watch the Calendar of Events.

73 -RAD

Welcome to the following new NASWA members

Setsuro Asai, Nagoya, JAPAN
Charles Furlong, Philadelphia, PA
Francis P. George, Brooklyn, NY
Milt Harker, La Crescenta, CA
Mr. Leonard Jasinski, Depew, NY
Terry Kelly, Santa Rosa, CA

David J. Kusneske, East Amherst, NY
Kenneth M. Levesque, Danvers, MA
Sam Maslaney Sr., Pittsburgh, PA
Jose Moura, Washington, DC
Andrew Ooms, Pine, AZ

WANTED: (1) 1989 Fine Tuning's "Procedings" or copies of antenna, receiver, and accessories sections from that edition. (2) September 1971 Ham Radio Magazine or copy of the article "Multimode IF Systems". (3) 6E5/6G5/6U5 Magic Eye tubes. Write or call to state price. Ed Kowalski, 10430 Collingham Drive, Fairfax, VA 22032-2608. E-mail edrk@ix.netcom.com. Phone (703) 435-6602.

WANTED: I'm looking for a "Stanley Tape Measure" transistor battery radio. If you have one and are willing to sell, please contact Stephen J. Price, c/o 1351 Oliver Avenue, Johnstown, PA 15909-1427.

FOR SALE: Watkins-Johnson HF-1000 with Grove SP-200 sound enhancing speaker. Price \$2500 plus shipping. Billy Wilcox, 6501 Leffingwell Road, Canfield, OH 44406. Phone (330) 533-2478.

Easy Listening

John Figliozi
45 Algonquin Road
Clifton Park, NY 12065-7703
America Online: JFigliozi
Internet: johnfig@earthlink.net

Lots to report on this month, so let's get right to it!

BBC World Service

As of March 30, the BBCWS has reduced its "streams" from five to three and has (again!) radically revised its program schedules. The former Americas and European streams are now combined. The South Asian and Asia-Pacific streams have also been joined. The African stream remains intact.

Because the program and time changes are so extensive, this month's column includes the new times for all regular programs and notes the series that have been discontinued.

Times listed are for the new Americas/Europe stream, unless otherwise indicated. Frequencies for North America at various times of the day: 5965, 5975, 6175, 9515, 9590, 9895, 11750, 11865, 15220, 17840. In some cases, one of a program's air times may be available via shortwave to only one area. These circumstances are denoted by * for the Americas only and ** for Europe only. European frequencies received well afternoons here in NY are 15485, 12095, 9410. 9740 carries the new Asian stream to western North America 1200-1600. Programs carried on this frequency only are denoted with a #.

Current Affairs

The global phone-in series, **International Question Time**, returns for an eight week run. Panelists change weekly; Sheena McDonald hosts. To participate, contact the BBC after 1200 each Sun. by phone (+44 171 379 7444), or by letter (Bush House, Strand, London WC2B 4PH), fax (+44 171 240 8776) or e-mail (worldservice.letters@

bbc.co.uk). Studio staff will return calls at the BBC's expense. *Listen live on Sun. at 1401.* A three-part series, **Policy and Prejudice**, examines how Western statesmen addressed Balkan questions in the early '90s and what historical assumptions shaped those policies. *Sun. until 13th 1701, repeated Tue. until 15th 0630, 1130.* In **Reports From the Silk Road**, Paul Bergne, a specialist on Central Asia and Britain's former ambassador to Uzbekistan and Tajikistan, takes a comprehensive look at that region and how the effects of Soviet rule and their five-year experience with independence have positioned them for the future. *Airing in 5 parts Sat. 1030, repeated Mon. 0430, 2130.*

New Times: Assignment—Thu. 1430#, 1830*; Fri. 0530** and 1030**. **Britain Today**—Daily 0045, 2115; Mon.–Fri. 1215, 1645. **From Our Own Correspondent**—(I) Sat. 1715, Sun. 0330; (II) Wed. 1515#, 1730, Thu. 0030, 1145. **Letter from America**—Sun. 0030, 0715, 1445 (latter time often pre-empted). **People and Politics**—Fri. 2130, Sat. 0230, 1130. **Seven Days**—Mon. 1230, 1730; Tue. 0130. **The World Today**—Mon.–Fri. 1715, 2230; Tue.–Sat. 0330**, 0615.

Arts

New Times: Meridian—(Books) Thu. 0230, 0630, 2130, Fri. 1530#; (Feature) Sat. 0630, 2130, Mon. 0230, 1530#; (Live) Tue. 2130, Wed. 0230, 0730; (On Screen) Tue. 0230, 1030, Wed. 1530#, 2130. **Spotlight**—Sat. 0155. **Discontinued: Book Choice, Good Books.**

Business and Finance

Global Business is a new 1/2 hour weekly series with interviews, features and discussions focusing on international business. *Sun. 0430, 1030.*

New Times: World Business Report (Review)—Mon.–Fri. (Sat.) 1205, 2105; Tue.–Sat. (Sun.) 0305. Discontinued: World Business Brief.

Classical Music

Composer of the Month features an appreciation of the life and music of Johannes Brahms but is now available only at 0730 Thu. (also 1530#), inconvenient times for all but those in the western time zones. But fortunately for lovers of Brahms' music, **Concert Hall** will present four concerts this month featuring (in succession) his Double Concerto, piano works, one of his Violin Sonatas and, in the fourth week, the Tragic Overture and St. Anthony Variations. The air time of 1515 Sun. (1515 Tue.#) should be more accessible for more listeners. **Performance** is a new weekly series examining the art of performance in all its aspects with portraits of some of the profession's greatest soloists, ensembles, conductors, musicians and venues. This first run is for five weeks and airs Wed. 1515.

New Times: Greenfield Collection—Tue. 1530. Music Review—Fri. 0730; Sun. 0230, 2130. Discontinued: Record News, Who's Who In Music.

Development and Environment

One Planet is a new 30 minute program focusing on these themes. Wed. 0530, 1030.

New Times: The Farming World—Wed. 0030. Discontinued: Development '97, Global Concerns, On the Move.

Drama and Reading

Plays of the Week (Sat. 2230, repeated Sun. 0530, 1830*) this month are:

Ashes to Ashes (60 min. on 5th/6th) offers the British dramatist Harold Pinter's 1996 play which was performed on the London stage last fall. Pinter directs the two actors that appeared in the original production, Steven Rea and Lindsay Duncan in this fascinating and sometimes horrifying two-hander. In honor of American playwright and novelist Thornton Wilder's birth 100

years ago this month, his classic play, Our Town (90 min. on 12th/13th), is presented this month. The Glass Menagerie (In two 60 min. parts on subsequent weeks 19th/20th and 26th/27th), one of Tennessee Williams' best loved plays, describes a mother's struggle to find a "gentleman caller" for her crippled and emotionally vulnerable daughter. Recorded at LA Theatreworks, this production features the same cast that performed the 50th anniversary revival of the play on Broadway. Television actor John Goodman narrates.

As a bonus this month, a one-act play by W. W. Jacobs is also presented. Entitled **Jerry Bundler** and set at the turn of the last century, the plot centers around a practical joke gone awry. Mon. the 7th at 0330.

Off the Shelf (Mon.–Fri. 1230#, 0715; Tue.–Sat. 0345**) features these readings: Cheri by Collette about the relationship between an aging courtesan and her young lover. (Beginning Mon. 7th and read in 8 parts.); In Penelope Lively's The Dream Merchant, he tries out one of his own dreams. (17th); In William Trevor's Widows, Catherine learns that her recently deceased husband wasn't all that he seemed. (18th). The Thirty-Nine Steps by John Buchan is a classic adventure tale of the hunt for a wanted man who is innocent. (Presented in 10 parts beginning Mon. the 21st.).

Short Story

Listeners from Sweden, the USA, Australia and Kenya provide this month's works which now air Sat. at 1245 and Mon. at 0030.

Education

Learning Zone presents The Making of Hamlet (Sun. 2310) and What's That You're Eating?, which examines personal tastes and feelings about food around the world (Fri. 1230). Discontinued: Voicebox.

Entertainment

The musical quiz **Counterpoint** (Sat. 0730, repeated 1230#, Mon. 1830*) returns for a twelve week run with Ned Sherrin conducting contestants through diverse musical topics.

Songs, Sonnets and Sounds of Laughter is an anthology of poetry, prose and song performed before an invited audience. *Its three week run starts on Sat. 12th 1901**, repeated *Mon. 0330***.

Features and Documentaries

A Cry in the Dark (*Tue. 0030, 1515*) features the sounds of local wildlife as recorded in five places around the world by naturalist Joanna Pinnock. **Everywoman** (*Wed. 1530*) is a new half-hour series and the first ever regular women's program on World Service. **On Your Behalf** (*Sun. 0130, Mon. 1515*) is also a new program and begins a 13 week run featuring Malcolm Billings in pursuit of answers to listener questions prompted by other BBC programs. Among this month's topics on **Outlook** (*Mon.-Fri. 1405, 1901*, 2305; Tue.-Sat. 0430***) is the legacy of Henry Ford (7th) and the fifth anniversary of EuroDisney (11th). **Pick of the World** (*Mon. 0130, repeated Fri. 0630*) returns for 13 weeks and offers a second chance to hear a segment of a BBC program you might have missed. For six weeks, Michael Kaye looks at the stories that lie behind the busy commercial facade of **The Streets of London** (*Sat. 0130, repeated Mon. 0615 and Fri. 1515*).

New Times: **Omnibus**—Mon. 0630, 1030; Thu. 0130. **Write On**—Sun. 1205 and 2105; Mon. 0305. Discontinued: **Network UK, Take Five**.

Media

New Times: **From the Weeklies**—Sat. 0030, 0715. **The Insider's Guide**—Fri. 1515#, 1730; Sat. 0145.

Popular Music

Jazz Expo (*Sun. 0730, repeated Mon. 1130*) seeks answers to the question, "What is this thing called jazz?". Malcolm Laycock guides. This is an eight part series that will be succeeded in June by a new half-hour program called **Jazzmatazz**, which the BBC is billing as a new approach to the presentation of jazz. A new eight week run of the heavy metal **Tommy Vance Rock Show** (*Sun#/Mon. 1530*) also starts this month. **The Vintage**

Chart Show (*Mon. 0730, repeated Thu. 2330*) revisits 1987, 1974, 1969 and 1961.

New Times: **A Jolly Good Show**—Sat. 1215; Sun. 0630. **Andy Kershaw's World of Music**—Sat. 2330 (also 1830 via African stream on 15400 kHz.) **Anything Goes**—Sun. 1130; 1930*. **John Peel**—Thu. 1530, 1930*. **Multitrack**—(Alternative) Fri. 1430, 1930*, 2330; (Hit-List) Mon. 1930*, 2330, Tue. 1430; (X-Press) Wed. 1930*, 2330, Thu. 1430. **Pop Short**—Sun. 2325. Discontinued: **Country Style, Folk Routes, Jazz for the Asking, Jazz Now and Then**.

Religion

New Times: **Focus on Faith**—Fri. 0230, 1130, 1930*. **In Praise of God**—Sun. 1215 and 2330. Discontinued: **Words of Faith**.

Science and Technology

Anatomy of Addiction examines why humans appear to be prone to addictions. (*A four week series commencing on Sun. the 20th at 1701, repeated Tue. 0630, 1130.*)

Science Update (*Sun 1501#, repeated Tues. 1730, Wed. 1230, Thu. 1515#*) is a new umbrella title encompassing five monthly science-themed programs. First, there's **Seeing Stars**, the monthly astronomy report. The second week features **Soundbyte**, which focuses on the Internet and other computer-related subjects. **Wildtrack**, on the third week, is a new monthly magazine for those interested in the natural world. And **Waveguide** returns with a look at international radio broadcasting on the fourth week of the month. Finally, when a month has a fifth week, **Science Feedback** answers listener queries about World Service science programs. **The Works** (*Mon. 0530**, Wed. 1830*, Fri. 0130*) is a new 30 min. program that looks at all things technological.

New Times: **Discovery**—Tue. 0530**, 1430#; Wed. 0130, Thu. 1030. **Health Matters**—Sun. 2230; Tue. 1230. **Science in Action**—Fri. 1430#, 1530; Sat. 0530, 1830*. **Science View**—Sun. 2305; Fri. 0455. Discontinued: **New Ideas**.

Sport

Football Extra is a new program designed to address the massive global interest in soccer. The program reviews the week's action, looks forward to the weekend matches, hears from the stars and profiles the key players. (*Fri. 1505*)

New Times: Sports International—Wed. 0630, 1130, 1430#. **Sports Roundup**—Sun. 0145; Daily 0315, 1745; Sun.—Fri. 1245, 2245; Sun.—Thu. 1505. **Sportsworld**—Sat. at 1405 (3 hrs. with news breaks on the hour.)

Youth

My Generation (*Sat. 1930**, repeated *Mon. 1430, Tue. 0730*) looks at the aspirations of the second generation of Indians, born in Britain of parents who migrated to the UK looking for work. **Touched With Fire** profiles four child prodigies, including Sonny Pike a 13 year old British soccer player who trains with Ajax Amsterdam. (*Series begins Sat 26th 1930**; repeated *Mon. 1430, Tue. 0730, Thu. 1615***.) **The Good Relationship Guide** is a new four-part series that seeks to steer young listeners through the issues that most young adolescents around the world face. (*Series begins Sat. 26th 1945**, repeated *Mon. 1445, Tue. 0745 and Thu. 1630***.)

New Times: Megamix—Tue. 1930*, 2330; Wed. 1430.

Radio Netherlands Documentaries

(0053 Thu./2353 Fri. on 6020/6165/9845; 0453 Thu. on 6165/9590.)

8th/9th—50th Anniversary Celebrations—Light Music and Jazz. Martha Hawley ruminates through the massive RN music library. 15th/16th—Gypsies in Holland. Helene Michaud's report on their fight for their rightful place in society. 22nd/23rd—Under African Skies. Jaldeep Katwala, RN reporter and Kenyan born, talks with Kenyan Asians about their pasts. 29th/30th—Violent Women.

Mindy Ran looks at the alarming rise in violent crimes committed by women in northern Europe.

Potpourri

BIG CHANGES are coming to CBC Radio in July and that means **RCI** will have big changes then as well. Drastic budget cuts will end programs like *Morningside* and *Sunday Morning*, among others. If you enjoy the current CBC fare on **RCI** and the **North Quebec Service**, you have fair warning: get your fill now...**NO ROOM** this month for the international holiday list, but be aware that **R. Bulgaria** will cover the run-up to crucial national elections being held mid-month and that the **BBC** will cover UK voting to take place in early May...**THE BATTLE for R. Australia** continues so far without resolution. If you haven't enlisted, do so now...**BILL BERGADANO** on rec.radio.shortwave reported that **DW** announced on 3/21 that *European Journal* will soon be replaced by a program called *Newslink*...**THE RECIPE** for Tomato and Beancurd Soup is featured on the *Cooking Show* (19th), the training of air stewardesses is the topic on *Listeners' Letterbox* (27th/29th), ancient history books from Wu State during the Three Kingdom Period are detailed in *Cultural Spectrum* (19th), the old Chinese tale about The Cowherd and the Girl Weaver known in the West as the stars Altair and Vega is featured in *Chinese Folktales* (12th), Mongolian folk songs are featured on *Music From China* (26th), and the *Song of the Week* (13th) is "The Love" which celebrates the love between children and parents, all this month on **China Radio International**...**JACQUES D'AVIGNON** reports that he has heard from a very reliable source that **RFI** will end the use of shortwave to North America completely and that this could (have) happen(ed) as soon as March 30.

Squeezed in all I could this month. Our discussion about shortwave service downsizing is deferred to next month. Until then, good listening!



Shortwave Center

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A Trip to Aparecida

by Pedro M. C. de Castro, Lorena - SP - Brazil

Introduction

Brazil is the largest Roman Catholic country in the world. There are religious celebrations in several cities, and the biggest one is the "Cirio de Nazare" feast, in Belem, State of Para.

Belem, however, is a big city with 1.3 million inhabitants, and the feast itself lasts only one day. What about a city with only 34,000 inhabitants which receives over 5 million visitors per year?

Where are the biggest Brazilian radio stations? In Brasilia, Rio, Sao Paulo, Belo Horizonte and other big cities, of course. But don't forget to include a small city in this list of giants. Take a look below to learn more about the phenomenon of Aparecida.

The Beginning

The first references on colonization of the site comes from 1640 (1). A statement from 1687, in a notebook of the Diocese of Rio de Janeiro, describes the Parish of Guaratingueta as a "village with 250 inhabitants and 61 houses".

Guaratingueta was a stop-over village for the travelers traveling to the gold mines of Ouro Preto, in Minas Gerais Province. In 1717, the Count of Assumar, governor of the Provinces of Sao Paulo and Minas Gerais, took a rest at the village with his retinue. The fishermen were charged to provide food for the

visitors, so they launched their boats on the Paraiba River.

The fishing was poor that day, so the three fishermen tried 3 miles upstream at the port of Itaguassu. At this site, the fisherman Joao Alves hauled in his net and found a little statue of Our Lady without the head. The next time he found the head of the statue, and soon he caught so many fish that the boat almost sank. This was the first miracle credited to the so-called Our Lady Aparecida (the Portuguese word for "Appeared").

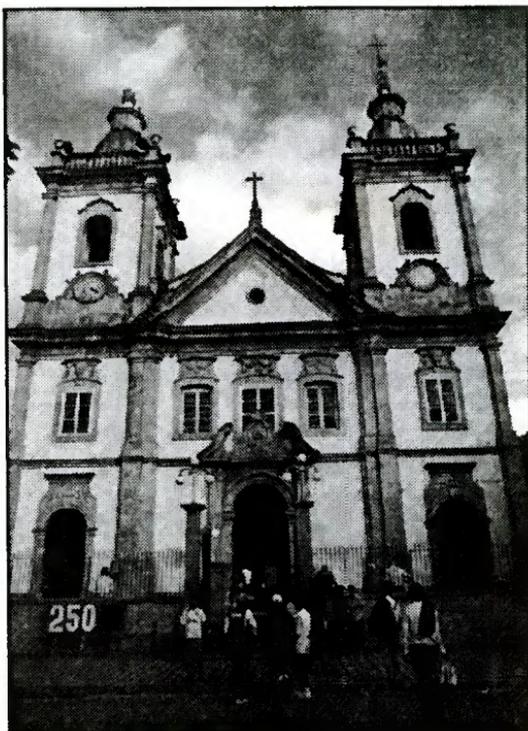


Figure 1: The Old Basilica

The clay statue was made by a monk around 1650 in Sao Paulo, representing the Immaculate Conception, a popular devotion in Portugal. No one knows how it was thrown in Paraiba River.

Felipe Pedroso, partner of Joao Alves, took the statue to his house and started the veneration of Our Lady with his family and neighbours. In 1732, he moved to Porto Itaguassu and took the statue to its first shrine, which was built by his son Atanasio.

Travelers spread out the fame of Our Lady Aparecida and the pilgrims started to come. The people decided to build a bigger church in the top of a hill near Porto Itaguassu to shelter the statue. The church was opened in 1745 when the statue was brought in from its former site and the village of Aparecida was born, as a district of Guaratingueta.

Faith and Devotion Grows

Newspaper articles from Guaratingueta, Sao Paulo, Rio de Janeiro reported in the 19th century on the pilgrimage to Aparecida. The Frenchman artist Jean Baptiste Debret depicted the pilgrims in 1827, as well as other European artists, while journalists and scientists wrote references in their personal diaries. Some decades later, a new church became necessary, and a bigger one was opened in 1888, on the same place of the former one. It is known today as the "Old Basilica".

In 1895, the German Redemptorist missionary, Father Lorenz Gahr, wrote to a friend in Bremen, stating that Aparecida had 1,300 inhabitants and received 150,000 visitors per year, according to local newspapers.

The City of Aparecida...

Aparecida was a district of Guaratingueta until 1928, when it became an independent municipality and elected its first mayor. With an area of 60 sq. miles and at an elevation of 1700 feet above sea level, its present population is 34,000. Located on the highway connecting Sao Paulo and Rio de Janeiro, its distance to Sao Paulo is 110 miles and to Rio is 160 miles (2).

Although the Redemptorist missionaries once again noticed they needed a larger shrine as early as 1926, the site of the new church, the Pitas Hill, wasn't prepared until 1946. The first brick was laid eight years later.

Fifteen million bricks and 110 thousand cubic feet of concrete later, the shrine looks like a cross with 70,000 sq. feet of area and a central dome at 200 feet high. At the north side, a tower with 3600 sq. foot (60 x 60 ft), 17 floors and 300 feet high. The church is so large that the whole population of Aparecida can comfortably visit the church at same time. A viaduct, for pedestrians only, connects the old and the new Basilicas.

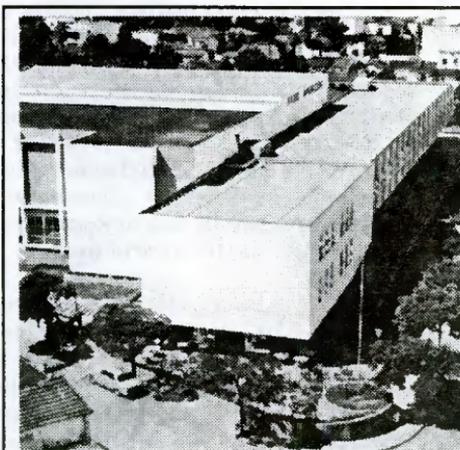


Figure 2: Radio Aparecida's QSL shows their home



FUNDAÇÃO N. SRA. APARECIDA

RÁDIO APARECIDA

ZYE - 236

1185 KHZ
25 M
9830 KHZ
31 M
6135 KHZ
49 M
5035 KHZ
60 M
820 KHZ
DM
90.3 MHz
FM

APARECIDA - SÃO PAULO - BRASIL

QSL - CARD

DEAR MR.

THIS CARD VERIFIES YOUR RECEPTION OF

RADIO APARECIDA. ZYE - 236 - BRAZIL

on _____ at _____

Frequency: _____ Band: _____

YOUR DETAILS ARE CORRECT. THANK YOU!

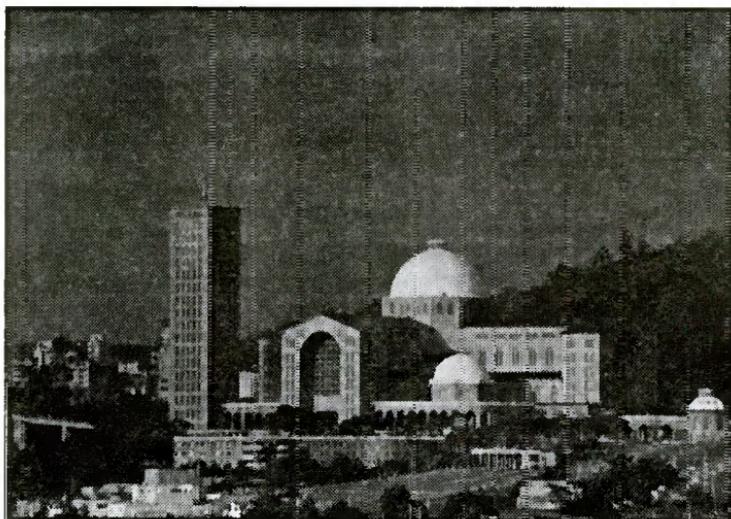


Figure 3: The New Basilica. Radio Aparecida's antennas are on the hill behind the basilica, off to the right.

Pope John Paul II himself blessed the shrine in 1980, and now Aparecida is visited by more than 5 million pilgrims per year (3).

...and Radio Aparecida

The Vicar of Aparecida, Father Oscar Azeredo, was the first to ask for permission to set up a radio station in Aparecida early in 1936 (4). However, the Archbishop of Sao Paulo took 14 years to agree to the idea. The Basilica of Aparecida was allowed to request permission to the Federal Government only in 1950.

Radio Aparecida finally came to the air on Sept. 8th 1951, with 100 watts on 600 kHz. At first, the studios were installed in a building aside the Old Basilica but, four years later, they were moved to a bigger building, with 3 floors, near the old studios.

The first transmissions in the tropical bands began in 1952, and on other shortwave bands in 1954, reaching the whole country. A Club of Associates, now with 800,000 members, was founded in 1955, in order to join the listeners and proclaim the Gospel through the devotion to Our Lady Aparecida. The program "Clube dos Socios", on the air since 1955, is still among the most popular of

Brazilian radio. Another tropical band frequency was added in 1968.

For the second time, R A faced the need for bigger studios, so they moved to a brand new building in 1975. This new building is huge, with 30,000 sq. feet, 6 studios and an auditorium for 1,200 persons, near the New Basilica. Soon, the medium wave

channel was shifted to 820 kHz, and Frequency Modulation began in 1977. Today, the first site of R A is a book shop and the second one is the Police Station of Aparecida.

There are now 79 persons working at the station, and the frequencies and powers are: 820 kHz 10 kW, 5035 kHz 10 kW, 6135 kHz 25 kW, 9630 kHz 10 kW, 11855 kHz 7.5 kW and 90.9 Mhz 50 kW.

The goal of the programs on shortwave, with national coverage, is the catechism and evangelization. The programs on Mediumwave consist more of music and news, and the FM programs are almost essentially musical, aiming at specific listeners. The "Encontro DX", produced by Cassiano Macedo, is the only Brazilian program for DX'ers, and has been on the air since 1986. It is broadcast on Saturdays at 2300 UTC (2200 summer time) on medium and shortwave. Some news of the "Encontro DX" is sent to Radio Miami International and The Voice of Russia.

Radio Aparecida receives over 3,000 letters per month, from all over the country. Letters from abroad number about 15 to 20 per month, several from Germany, but also from Cuba, United States, Netherlands and Italy. Correct reception reports are confirmed with

a QSL card in English. R A is a non-profitable organization (a Foundation). Its goal is the promotion of citizenship, moral, cultural, religious, artistic, literary and scientific education of the Brazilian people.

The address of Radio Aparecida is Avenida Getulio Vargas nr. 185, Aparecida SP Brazil, zip code 12570-000, phone (012) 565 -1133, fax (012) 565 -1138.

Recent Achievements

Radio Aparecida is now producing a regional news program named "Sao Paulo no Radio", which is relayed by several other stations in Sao Paulo State, linked by satellite, forming the Rede Paulista de Radio (Paulista Radio Network). R A is also one of the headquarters of a national network, the Rede Catolica de Radio, with 120 stations in the whole country. The other headquarters of this network are Radio Difusora in Goiania, America in Belo Horizonte, Clube Paranaense in Curitiba, Maua in Sao Paulo and Cancao Nova in Cachoeira Paulista.

Two new stations were recently purchased by R A: they are Radio Educadora Santa Rita (ex- Radio Educadora Rural) in Fernandopolis, 1490 kHz, and Radio Difusora Monte Aprazivel, 780 kHz, in Monte Aprazivel, both in Sao Paulo State. These stations broadcast their own programs for 12 hours and relay R A for 12 hours per day.

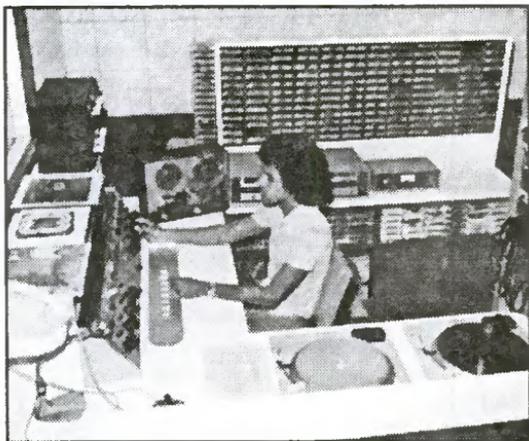


Figure 4: The studios of Radio Aparecida.

Conclusion

Our Lady Aparecida is in the heart of every Brazilian. Many people are named Aparecida or Aparecido, alone or combined with Maria, Jose and other names. The name is also part of the Brazilian colloquial vocabulary, as an exclamation of surprise.

Through constant progress, keeping in close contact with his listeners, providing entertainment, the Gospel and the message of Our Lady Aparecida to the farthest corner of the nation, Radio Aparecida is partially responsible for this devotion. But in this case, not by miracle. Just by work and faith.



References

- 1- Brustoloni, Father Julio, C.S.S.R. - Santuario de Aparecida - Editora Santuario - Aparecida - 1991.
- 2- Guia Brasil 96 - A Brazilian touristic guide - Editora Abril - Sao Paulo - 1996.
- 3- Guia Turistico de Aparecida 1997 - Markgraf Edicoes - Aparecida - 1997.
- 4- Radio Aparecida 45 anos - A newspaper published by Radio Aparecida to celebrate its 45th anniversary - 1996.

For those interested in knowing more about Brazilian radio, there is an excellent article named "Dxing Brazil - A North American Perspective", by John Fisher, published by Fine Tuning's Proceedings in 1989. Except for the name of the President, this is still a valuable article.

The author acknowledges the attention devoted by the personnel of Radio Aparecida during his visit, specially Mr. Eriberto Carvalho, speaker, and Father Joao Batista de Almeida, Administrative Manager. 

Listener's Library

T. J. "Skip" Arey N2EI

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Waterford Works, NJ 08089

Internet: tjarey@mosquito.com

By the time you all read this the Tenth Annual Kulpville Convention will be history. No doubt I picked up a few interesting items at the show that I'll share in a future installment of this column. Of course if you beat me out of anything at the silent auction or won any prizes that I would have prized, you should take a few minutes to write a review for your fellow NASWAs and send it in. But first lets see what's in the box under my desk that came courtesy of the American Radio Relay League.

THE ARRL ANTENNA COMPENDIUM VOLUME 5

with 3.5" Diskette

Edited by

R. Dean Straw, N6BV

200 Pages

\$20.00

The American Radio Relay League

225 Main Street

Newington, CT 06111-1494

ISBN 0-87259-562-5

All too many shortwave monitors throw up a piece of longwire and leave it there until the acid rains corrode it into oblivion. Such folks are missing out on half the fun of playing radio. Fiddling around with antennas is a cheap way to improve your chances of hearing that rare DX station you've been hunting for. Now that we are firmly into Spring, it's a good time to try hanging some new antenna designs to get ready for the next sunspot cycle.

Volume Five of the Antenna Compendium is a collection of 41 articles devoted to various aspects of antenna design and construction. While the applications listed are ham radio frequency oriented, most of what you will read is easily adapted to shortwave monitoring and VHF/UHF scanning.

This book shows the resourcefulness and creativity that makes amateur radio the great hobby that it is. In many cases, you will discover excellent antenna designs that, pur-

chased commercially, could cost hundreds of dollars. Instead you will find out how to brew your own with a trip to the hardware store and surprisingly few dollars in your pocket.

If your listening runs toward the tropical bands, you should take a look at adapting some of the designs shown for the 75, 80 and 160 meter ham bands. You can string some serious wire for these regions and create directional arrays that will fill your walls with NASWA award certificates. The book's consideration of "wire-beam" designs has a lot of potential for the serious shortwave monitor. One design that receives two treatments in this book is the "Half-Square" antenna. This unique design allows you to create a vertically polarized antenna for low band listening without the traditional need for great height.

If you have a bit of real estate or if you are planing a DXpedition, you will want to take a look at The N6BV 75/80 Mete Quad. This wire bean antenna can be scaled to any frequency you need and can create an excellent directional pattern. The is also the design of K4ERO's Stacked Double Zepp. This antenna draws heavily on existing shortwave broadcast technology to provide yet another unique antenna to go after those hard signals.

If you are interested in beam construction there are several articles that will point you to new thinking, particularly W5THT's uses of PVC plastic for antenna construction. Or, if you really want to shake up the neighbors, how about W8NWF's designs for HF Discones?

As a sideline, if you also monitor in the VHF/UHF spectrum, you will find a series of antenna designs worth considering to improve your ability as a scannist.

The book includes an entire section on antenna modeling and analysis that can be applied to many applications beyond the

designs within this book. Included with the text is an IBM-PC-compatible 3.5 inch disk containing a series of popular antenna development programs.

The latest volume in the ARRL Antenna Compendium series is a winner worth reading by any radio hobbyist who want to move beyond that simple longwire. Better yet, why not join the amateur radio ranks and see how some of these puppies work in transmit mode?

Speaking of which, the ARRL has also come out with a new training manual for folks who want to get the highest class of amateur radio license.

**THE ARRL EXTRA CLASS LICENSE
MANUAL FOR THE RADIO AMATEUR**

Edited by Larry D. Wolfgang, WR1B

359 Pages

\$12.00

The American Radio Relay League

225 Main Street

Newington, CT 06111-1494

ISBN 0-87259-539-0

I sort of hung out at the Advanced Class level for almost fifteen years before I got up the nerve to take a crack at the Extra Class. What had always thwarted my efforts up to that point in time was that I tried to get by just memorizing the question pool. Finally I sat down and actually read the ARRL License Manual and LEARNED the theory that the question pool was based on. I walked out of the test site with a perfect score on Element 4B, but I also had internalized a great deal of radio knowledge that would serve to make me better in all my radio hobby pursuits. Sure, the League's manual has the latest question pool, it's in the back. But much more importantly it has page after page of study material and information that will allow you to breeze through the questions just as I did. Included are great studies of radio wave propagation, Digital mode operation, satellites, advanced electrical principles, practical circuits and antennas. Everything is presented in a friendly, easy to understand manner so you get a sound understanding of the ideas behind the questions. Even the dreaded math needed to get through the test is taught in a manner that will teach you

without making you break out in a cold sweat. If you're ready to go all the way in the amateur radio world, this book is the tool you will need. Oh yeah, there is that little matter of the IC code requirement. This book also gives you a few hints on breaking through the barriers that stand in the way of 20 wpm copy.

Okay, so you've got your ham license now its time to try one of its greatest challenges. QRP (low power) operation. To get there you will want a little help for a fellow NASWA member and a few of his friends.

QRP POWER

Compiled by Joel Klieman N1BKE

and Zack Lau KH6CP/1

\$12.00

The American Radio Relay League

225 Main Street

Newington, CT 06111-1494

ISBN 0-87259-561-7

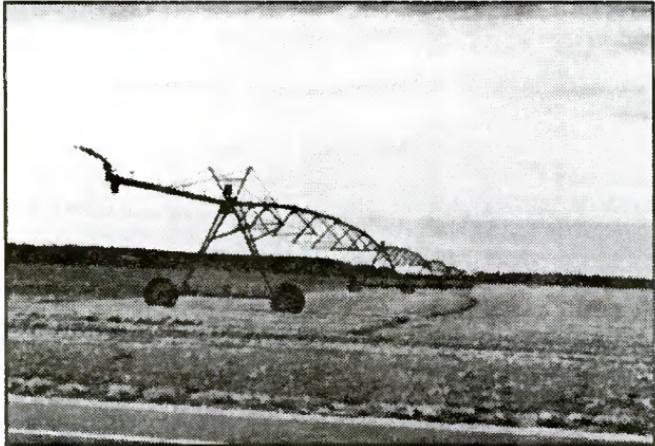
As shortwave broadcast monitors, we are used to listening in on stations that throw a few megawatts around the world. Well how about sending out a signal that is just 5 watts? Or maybe a signal that is even lower power such as 200 milliwatts. We're not talking B.B.C. here folks, we are talking the greatest challenge in the radio hobby. QRP operation has grown by leaps and bounds in the past few years largely due to the fact that many very inexpensive transceiver kits have come on the market. QRP Power is a compilation of many recent articles from the pages of QST that trace this resurgence of interest in low power operation. AS you open the book you will find several article by NASWA's own Rich Arland K7YHA. Rich give the reader a clear understanding of the philosophy and practice of QRP. This is followed by a series of articles on how to get into constructing your own radio equipment. You see another aspect of QRP is that half the fun is building your own gear. From there, its right into a whole series of excellent QRP construction projects. If you never thought you could construct a working transmitter, take a look at WA3ULH's design. You will be able to construct a one watt transmitter right from the article. And remember, one watt is pretty respectable QRP power. There is a lot of fun wrapped up in the pages of this book. 

The Rotary Beverage Antenna

We interrupt our series on mobile SW listening this month to bring you some hot news from the NASWA Research Lab (NRL). The NRL always can be counted on to come up with some new innovation to enhance your radio listening. It does puzzle me, however, that they always seem to announce their most amazing developments at this time of year. Maybe it has something to do with those cold winter nights at their facility on the banks of the Potomac. The mobile SW listening series will continue next time with a description of several antenna options available to the mobile SWL.

The Beverage antenna has long been recognized as the best for Dxing the tropical bands. The Beverage provides directionality, reducing noise and interference arriving from undesired directions. Yes, the Beverage does require a good bit of real estate. A decent Beverage for the 90 meter SW band (3.2-3.4 MHz) should be at least 450 meters (or about 1500 feet) long.

The problem the NRL addressed in their research is a simple one. "How do you receive signals from different areas of the world without putting up a separate Beverage for each direction?". Listeners on the USA East Coast might need a separate antenna for each of Europe and the Middle East, Africa, Central Asia, South America, South Pacific and Eastern Australia, and the Far East. That's six different antennas adding up to more than a mile of antenna wire. The NRL's new invention allows reception



from any direction with only one length of antenna.

Our NRL engineers developed a Beverage antenna that can be rotated to point in any desired direction. A prototype is shown in the picture. The antenna is actually a large-diameter pipe that rotates around a central coupling device. This coupling contains a magnetically coupled matching transformer to which the feedline and a water supply connects. The feedline is direct burial coax similar to the RG-6 used for satellite receivers. The antenna is supported on triangular frames that in turn ride on rubber-tired wheels to provide insulation.

Rotation is accomplished by water-driven hydraulic motors. The antenna is actually a large diameter pipe through which water flows at high pressure. The water sprays out along the length of the antenna through small turbines to provide the basic motive force for each of the wheels. The water spray falls harmlessly to the ground where the moisture increases the soil conductivity and thus the efficiency of the antenna.

Moving water was chosen as the power source to eliminate a source of noise that would be present if electric or gasoline motors had been chosen. Water consumption only occurs while the antenna is moving. The antenna should only need to rotate once per day as the sunrise/sunset line moves around the earth. Cost of water will vary depending on your location.

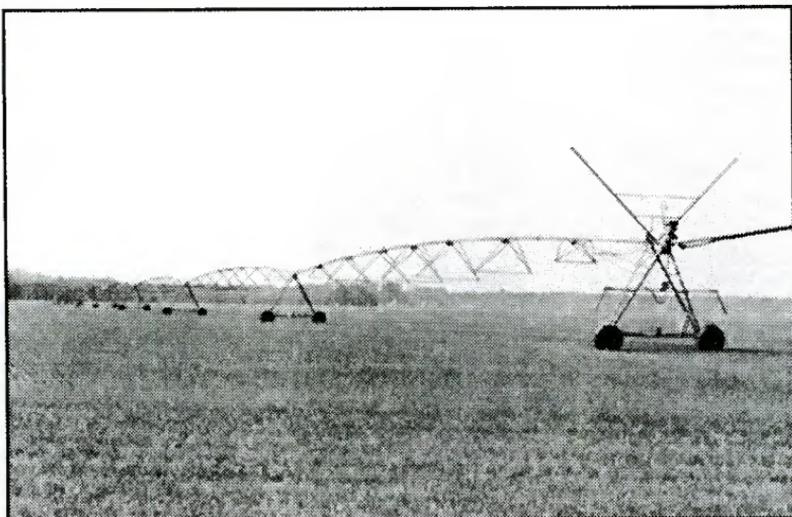
NASWA's engineers found that spraying salt water considerably enhances the ground conductivity compared to fresh water, but good sources of salt water are hard to find in many areas. The Environmental Protection Agency has also raised objections to salt water runoff from the NRL antenna farm. The equipment has been designed to withstand the corrosive effects of salt water for ten years of normal use. There is also no reason liquid fertilizers could not be injected into the water supply to permit crops to be grown under the antenna.

Any Beverage antenna should be terminated at the far end in a 500 ohm resistor connected to ground. The termination absorbs energy arriving from the back of the antenna. Maximum front-to-back gain ratio can be achieved by careful adjustment of the terminating resistor value. The rotary Beverage uses a wire dragging along the ground at the far end. The contact with the ground is not very good but the resistance is in series with the terminating resistor so a few more ohms won't hurt much. The terminating resistance can be reduced

to compensate for ground contact resistance. The purist could drive several stakes into the ground to permit a better connection at each favored direction but connection to the stakes would require a hike to the antenna each time the direction is changed.

This antenna is now being field tested at many rural locations. You might just happen upon one of our test sites the next time you are out driving in the country. If you do, stop the car and go over and take a close look. On second thought that might not be advisable. I have received word that due to budget cuts at NRL, they have been doing some of this research under contract to the government. Many of the receiving sites you will see are in fact government receiving sites disguised to look like working farms. We all know how nervous those feds get when you go snooping around their facilities. In fact tests are in process at many locations to phase together multiple rotary Beverage antennas into large phased arrays with correspondingly higher gain and directivity. Keep a lookout for these sites in your travels.

The design plans for building your own rotary Beverage antenna should be available from the NASWA store. Contact Kris Field at the address on the back cover of this magazine for pricing and delivery information. The store also sells a critical parts kit including pre-assembled hydraulic turbines, matching transformers, gear trains, rubber-tired wheels, irrigation pipe and direct burial coax. Sorry, this offer is only available to NASWA members. If you are reading this article on the ANARC web site, why not consider joining NASWA so you can help fund its many activities designed to enhance your enjoyment of SW radio.



Equipment Reviews

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Internet: 76665.1756@compuserve.com

The Target HF-3 Communications Receiver

For some reason, the last few receivers that I've had the opportunity to review have followed the dictum that "less is more", some in terms of controls (the AOR AR7030) or in features (the Drake SW-1). This month's review receiver is a minimalist on both counts.

The Target HF3 is the model designation used by the UK firm of AKD for the receiver they distribute. Lowe Electronics designates the model they sell as the SRX 100. The price for the AKD version is 160 pounds, or about \$240 at current exchange rates. The Lowe Web page gives a price of \$240 for their radio. The review unit was loaned to me by NASWAN John Wagner.

Small And Simple

The HF3 is housed in a gray plastic case that measures 2 1/2 x 7 1/4 x 7 inches (HxWxD). No weight figure is given in the specifications, but my guess would be around a pound. There is a top-mounted 3 1/2" speaker. The front panel contains a non-illuminated LCD which displays the tuned frequency (to one kilohertz) and a bargraph S-meter. The front panel controls consist of knobs for Power/Volume, Clarify (fine-tuning for SSB reception) and Tuning. There are four pushbuttons for mode and memory function. That's it! On the back are a "barrel" jack for 12V DC power input, a 1/8" headphone jack, a RCA jack for antenna input (nominal impedance 70 ohms) and an attenuator switch. An AC adapter is included, although the one with the review radio was labeled as 230 volt input and was fitted with a UK-style three prong plug with an adapter for US outlets. I used my bench supply to power the review unit.

Current consumption is rated at 300 milliamps. A thirty foot wire with attached RCA plug is provided for use as an antenna.

The Specs

The HF3 covers 30 kHz to 30 MHz, without gaps. It uses the now standard dual conversion design with the first IF at 45 MHz and the second at 455 kHz. The main tuning is synthesized in one kHz steps, but the clarifier control allows adjustment of ± 800 Hz. The main tuning rate is dependent on the speed at which the tuning knob is turned—either 10 kHz, 100 kHz, 1 MHz or 10 MHz per revolution. This is pretty handy for scooting around the bands, since there is no keypad tuning. Sensitivity is rated at one microvolt (but the test parameters are not specified) and selectivity is given as 3.8 kHz for SSB and 6.0 kHz for AM (no skirt measurements are given and I could only find a single ceramic filter on inspection of the circuit board). The spec sheet states that AM detection is via a quasi-synchronous detector but no explanation of this is given in the manual. Audio output is rated at 2 watts.

Operation

On power-up, the HF3 tunes to the frequency that is stored in the single memory channel. The receiving mode (USB, LSB or AM) is chosen by the Up/Down Mode pushbuttons. The desired frequency is selected via the tuning knob and the volume is adjusted as desired. Pretty basic, eh? If signals are too strong, or if there is interference from local broadcast stations, the attenuator can be switched in. I found the audio quality to be

quite satisfying, probably due to the relatively wide bandwidth filter used in the radio. When I first used the radio, I thought that the sensitivity was poor, but I discovered that the adapter I was using for the antenna connection was not making proper contact. Repositioning the adapter cured the problem. The variable rate tuning is somewhat "twitchy"—sometimes I would shift the frequency by several hundred kilohertz when I only wanted to move it just a few kilohertz. The memory scheme used is somewhat annoying as well. Pressing the "RCL" button tunes the radio to the frequency stored in memory, but there is no way to return to the VFO frequency short of retuning the receiver.

Although AM reception was acceptable (although being able to select a narrower bandwidth filter when needed would be nice), SSB reception was less satisfying. When trying to use the ECSS technique to reduce adjacent channel interference, the receiver has to be retuned due to the way the SSB offsets are setup. This means that the operator cannot instantly switch between upper and lower sidebands to see which offers the best reception. More importantly, I was unable to easily adjust the clarifier control to get exact zero-beat—there seemed to be a residual "grumble" to the signal no matter how slowly I adjusted the Clarifier control. For actual SSB signals (such as hams), the clarifier worked much better, although the IF filter is too wide for more than casual listening on the ham bands. The audio quality on SSB did not seem as good as that on AM signals—I'm not sure whether this is due to distortion in the product detector or because of the time constants of the AGC system.

Portable Operation

John Wagner sent me the items he uses for SWL'ing from his car, namely a Palomar

Super Snooper whip antenna and a Radio Shack window antenna mount (Catalog No. 20-023). The antenna mount has a BNC jack and the Palomar antenna has a SO-239 connector, so UHF male to male and UHF to BNC adapters are also required to make this setup work. I powered the radio from a 12 volt lantern battery to avoid noise from the car's electrical system and did not make a ground connection to the car's body or chassis. I was quite surprised to find that this "lash-up" actually worked quite well for listening to the major international broadcasters. There was plenty of signal strength and no noticeable ignition noise. It was definitely a temporary setup as I just threw the radio and battery on the passenger seat. Tuning the HF3 while driving is definitely not advised, due to the variable rate tuning, which means the display, rather than the road, must be watched. I also did not test the antenna arrangement at highway speeds, but John tells me that he has had no problems. Where a similar setup might really shine is as a quick and dirty DXpedition—drive out in the country where the noise levels are low, pop the antenna on a window of the car and DX away!

Summary

It's hard for me to know what to say about the Target HF3. It certainly works well within its limits and it is certainly compact. However, it does have its limits, such as the lack of more than one memory, no keypad tuning, a single (and wide-skirted) IF bandwidth in AM mode and poor ECSS reception. There are several similarly-priced portables on the market today that offer more tuning flexibility and equal performance in a smaller package. The distributor's address is AKD, Unit 5, Parsons Green Estate, Boulton Road, Stevenage, Hertsfordshire, SG1 4QG, UK. The phone numbers are (1438) 351710 or (1438) 357591. 

FOR SALE: Kenwood R-5000 with superior YK88A1 AM Filter. In "like new" condition with manual. Only selling to buy a new receiver! Price is \$595 including shipping in the 48 states. Call Rick Bowers at (908) 654-1580 (evenings or weekends) or email to <rickbowers@worldnet.att.net>.

Listener's Notebook

Al Quaglieri
 P.O. Box 888
 Albany, NY 12201-0888
 FAX: (518) 453-0864
 Internet: alcue@albany.net

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ALBANIA Radio Tirana observed: EE 1715-1726 6185 7155; GG 18301857, FF 1900-1927, EE 1930-1957 all on 6270 7270. (8-Mar/Radio World/Van Oudheusden/EDXP 44/Padula-AUS) 7160 R.Tirana *0145-0200* Nx w/ co-chnl R.Ukraine. Both on freq to NAM. *0230-0300* on 6140 drifting +- 0.8KHz. (8-Feb/Price/Cumbre 127)

As the crisis across Albania deepened, the programs of Radio Tirana's external service were unheard from 13-17 March. The English service resumed on 17th March with the announcement: "Hello and welcome back to this English broadcast. We resume our broadcast in English after several days' suspension because of the troubles affecting Albania recently." (BBCM)

Radio Tirana announced on 20th March that the following summertime schedule for English broadcasts would come into effect on 30th March 1997:

0145-0200	6115	7160
0230-0300	6140	7160
1845-1900	7270	9570
2100-2130	7110	9515

(20-Mar/R. Tirana/BBCM)

Trans World Radio relays: via Cerrik, Albania:

0500-0515	Kurdish	11635
0515-0530	Polish	9510
0830-0845	Hungarian	9490 Mo-Fr
0845-0900	Czech	9490 Fr
0845-0900	Slovak	9490 Su-Tu/Th
1030-1100	Slovak	9490 Fr
1340-1410	Russian	9665 11635 Sa
1340-1440	Russian	9665 11635 Fr
1340-1455	Russian	9665 11635 Tu-Fr
1355-1455	Russian	9665 11635 Su
1500-1530	Polish	9485
1502-1517	Armenian	9950 12080 Fr-Sa
1502-1532	Armenian	9950 12080 Su-Th
1535-1550	Ukrainian	9970 Fr-Sa
1535-1620	Ukrainian	9970 Su-Th
1600-1645	Farsi	9665 12085
1700-1715	Lithuanian	9495 Su-Tu
1702-1717	Russian	9665 11635 Su
1702-1747	Ukrainian	9665 11635 Mo-Sa
1717-1747	Belarus	9665 11635 Su
1800-1815	Russian	7240 9475 Fr

via Shijak, Albania:

0515-0530	Polish	7385 Th-Tu
0830-0845	Hungarian	7385 Mo-Fr
0845-0900	Slovak	7385 Su-Tu/Th
0845-0900	Czech	7385 Fr
1030-1100	Slovak	7385 Fr
1500-1530	Polish	7385
1535-1550	Ukrainian	7385 Fr-Sa
1700-1715	Lithuanian	7385 Su-Tu

(7-Mar/TWR Europe/WWDXC/Bueschel-FRG)

ALGERIA Radio Algiers International Service:

1300-1400	Spanish	15205v-(announced)
		15160v 11715v
1400-1500	English	15205v-(announced)
		15160v 11715v

(BBCM)

ANTARCTICA 15475.9 LRA36 Radio Nacional Arcangel San Gabriel, 20052048* with LAM music and ballads w/anmts by woman, talk by man in Spanish 2025-2035, canned ID by woman seemingly in English at 2043 and seemingly off mid-song during vocal by man at 2048. Mostly weak/fadey signal. Feb 15 * Vastly better signal next day from 2024 tune-in with clear ID anmt by woman in English in progress, then repeated in French at 2025. Travel talk in English at 2043, same in French at 2048. Full closing ID's at 2055 in Spanish, followed by English and French with fanfares mixed in. Upbeat closing signature song played in full to 2103, whereupon carrier was promptly cut. Fair to good signal all the way! Announces AM mode but this was actually USB+suppressed carrier. (16-Feb/ClarkCAN/Cumbre 127)

ARGENTINA No trace of LV19 Radio Malargue, 6160v or LRA6 Radio Nacional Mendoza, 6180, both checked during the second half of February, both stations are inactive due to transmitter problems, per to phonecalls to the technical departments. (Barrera-ARG)

AUSTRALIA Australia's communications minister, Richard Alston, has indicated that Radio Australia may survive in a reduced form despite a recommendation that it be closed to save money. Senator Alston said the government is keen to keep a radio presence in the Asia-Pacific region if a low-cost way can be found. However, he said a Senate inquiry ex-

aming Radio Australia will report back to parliament too late to be acted upon, just a week before the federal budget. (16-Mar/RA/BBCM)

Three world broadcasters have indicated they are keen to lease shortwave transmission capacity into Asia if Radio Australia is forced to cut its broadcasts.

Radio Australia's transmission manager, Nigel Holmes, says the Voice of America, the BBC World Service and Deutsche Welle have written to Radio Australia expressing interest in any spare shortwave transmission capacity. Mr. Holmes says this is despite claims by the minister for communications, Senator Richard Alston, that shortwave is becoming much less significant.

Mr Holmes says at a time when Australia is considering closing its international radio service, other countries are spending hundreds of millions of dollars to boost their coverage and signal strength in the Asia-Pacific region. (17-Mar/RA/BBCM)

AUSTRIA Radio Austria International in English:

0030-0100 9655
0300-0330 9655 9870 13730
0430-0500 6155 13730
0730-0800 6155 13730 15410 17870
0930-1000 15455 17870
1230-1300 6155 13730
1630-1700 6155 11855 13710 13730
2130-2200 5945 6155 13730

(Bueneman)

BELGIUM RVI Brussels amendments in its tentative Z97 schedule from

March 30th, as announced in Flemish "Golfgids" progr: 1200-1400 to NoAM 13785 kHz, due to Damascus on 13610. 15585 kHz to SoEaAS. French 0700-0730 on 15545 kHz also. Sports special on Sats 1800-2100 on 13645 kHz. Schedule not fixed yet. (8-Mar/RVI/WWDXC/Bueschel-FRG)

BHUTAN Bhutan BC Service now noted on 6030 (in place of 6035) at 0500-1000 with EE at 0800-0900. (8-Mar/das Gupta-SRI/EDXP 44/Padula-AUS)

BOLIVIA

4719.8 R. Abaroa 1040-1100 fade with excellent signal (21Feb/Wilkner/Cumbre 127)

4924 Radio San Miguel, Riberalta 0230 Pop-music & talk in Sp, with full Id as "Radio San Miguel, la voz del Vicariato Apostolico de Pando". S/off at 0255. Also noted on 4923 for a while. 242 (21Feb/Pijpers/Cumbre 127)

4924.3-4922.3vRadio San Miguel, Riberalta, drifting once again after several months on 4926.5. (Klemetz-COL)

4939.2 Radio Norte, Montero, has been producing audio almost every night (in the absence of Venezuela's R Amazonas) from about 2300. S/off

0125, w/canned ID's, where phone numbers and postal address was given, one was in Spanish as you would expect, and the other one was, believe it or not, in English. No NA. Very tough copy due to distorted audio. (2-Mar/KlemetzCOL)

4945.0 R. Illimani, La Paz; 0125-0200 ID "Ya son las 9 y 30 de la noche en la emisora del estado.. Radio Illimani desde la Paz.." mx moderna (26-Feb/Arrunategui-PRU/Chasqui DX 94)

BRUNEI "RTB itself has no short term plans to operate in the short wave band however I believe that there is a possibility that frequencies have been reserved for Brunei Darussalam in connection with longer term proposals which may or may not be implemented. Sincerely, Ralph Harper, Head of Engineering Secretariat, RTB". (13-Feb/Letter to Marc VissersBEL/DXW/EDXP 44/Padula-AUS)

BULGARIA Sked for Radio Bulgaria through 25-October:

0000-0100	Bulgarian	7480 9415 9485 11660
0100-0200	Spanish	9415 9700 11660
0100-0300	Bulgarian	7480 9485
0300-0400	Bulgarian	6035 7430
0300-0400	French	9485 11720
0300-1700	Bulgarian*	7670 9850
0400-0430	Greek	6140 7115 Su-Fr
0400-0500	Greek	6140 Sa
0400-0500	English	9485 11720
0415-0500	Turkish	5945 6040 7345 Mo-Fr
0430-0500	Albanian	6140 7115 Su-Fr
0500-0600	Serbian	6140 7115 Mo-Fr
0500-0630	Turkish	7375 Sa
0500-0630	Turkish	6040 7115 Sa-Su
0515-0600	German	9485 11825
0600-0700	French	9485 11825
0630-0730	Albanian	5895 Sa
0630-0900	Serbian	5895 9475 Su
0730-0900	Serbian	5895 9475 Sa
0800-0900	Greek	5930 7135 Su
1000-1100	French	11605 13630
1000-1100	German	11660 15185
1200-1300	English	13790
1200-1400	Bulgarian	6195 7310
1400-1500	Russian	7425 9775 11855
1400-1500	Bulgarian	6195 7310 11760 13715
1500-1545	Serbian	5850 5860
1500-1700	Bulgarian	7425 9775
1515-1615	Arabic	9430 11625
1545-1630	Albanian	5850 5860
1615-1700	German	9700 11720
1630-1715	Greek	5850 5860
1700-1800	French	9700 11720
1700-1800	Bulgarian	7425 7495 9775
1700-2100	Bulgarian*	7670
1715-1800	Italian	5850 7510
1715-1800	Turkish	5860 7355 7455
1800-1900	Russian	7425 9775
1800-1900	Bulgarian	5850 5860 7455 7495
1800-1900	German	9700 11720

1900-1945	Albanian	5850 5860
1900-2000	English	9700 11720
1900-2000	Bulgarian	7495
1915-2015	Spanish	9500 11660
1945-2030	Greek	5850 5860
2000-2045	Italian	7495 7510
2000-2100	French	9700 11720
2015-2115	Arabic	11660 13710
2030-2115	Serbian	5850 5860
2100-2200	English	9700 11720
2115-2200	Italian	5850
2115-2215	Spanish	11660 13710
2300-2400	English	7480 9435
2300-2400	Spanish	9415 11660

(8-Mar/R. Bulgaria/WWDXC/Bueschel-FRG)

BURUNDI 6140v R. Burundi Off? Untraced. (Valko + Johnson-HI/Cumbre)

CAMBODIA 6089.7 Domestic Service TENTATIVE Steady here, but rarely good enough to get any audio. 1055 instrumental up-tempo song then very weak talk at 1057 by man. 11940.4 National Voice of Cambodia 1308 music, low modulation. 1315 bit of Vietnamese talk by woman, open carrier briefly and off. (Valko + Johnson-HI/Cumbre) 1245 w/ SEA SingSong w/ W vocals. M annr. Peaking nicely at 1300 w/ 2+ 1 time pips when they were promptly wiped out by Romania sign-on. (9-Mar/Rippel/Cumbre)

CHILE Local time will change in Chile on 29 March in this year for the first time, this delay, because of the dry season in Chile. From 29 March, =UTC-4. (6-Mar/Barrera-ARG/EDXP 44/Padula-AUS)

This week I visited the former transmitter site of R. Nacional now owned by Christian Vision, they are now adjusting and testing the station. The 8x100KW Harris transmitters will be repaired. The three Log Periodic antennas will be used and are already OK, but two of the four curtains will not be used any more due to their catastrophic state (those beamed to Americas). They are not permitted to use the frequencies of R. Nacional and are currently trying new ones. If this is a problem the transmitters may be moved to another country, but if everything works out OK they will starting test transmissions at the end of April and official broadcasts in October. (7-Mar/Asenjo-CHILE/Cumbre/EDXP 44/Padula-AUS)

CHINA - TAIWAN VOFC, Tainan site on 9955, will change antenna characteristics soon. 300 degree antenna will be replaced by 325 degrees, to strengthen signal in Northern Europe. German 1800-1900. (25Feb/Klink-FRG/BCDX/EDXP 44/Padula-AUS)

Revised sked for VOFC to Europe includes: GG 1900-2000 9955, GG 21002200 5810 9985, EE 2200-2300 5810 9985, Fr 2000-2100 9610 9985, CC 1857-1957 9955 9985 17760. Some freqs are via the WYFR Florida relay - not specified. (8-Mar/Radio World/Van

Oudheusden/EDXP 44/Padula-AUS)

CLANDESTINE - MIDEAST Freedom Radio, first heard in February 1997, appears to share facilities with the Iraqi Communist Party station, voice of the Iraqi People. ID is "The Freedom Radio Station, Voice of the Communist Party of Iraqi Kurdistan" (Kurdish: Era Ezgay Azadiya, Dengi hizbi Shuyu'i Kurdistan Iraq).

1630-1730 Kurdish 7695 39053955v

(BBCM)

Harim Radio, "Voice of the regional government of Iraqi Kurdistan". (Kurdish: Era Radiyo Harim, dangi hukumati harimi Kurdistan Iraqa) was first heard in February 1997. (In December 1996, Voice of Iraqi Kurdistan, which broadcasts on the same frequency at other times, announced that the Kurdistan government would launch its own radio station "in the near future" and that it would broadcast on short-wave 75 meter for one hour a day.) 1400-1530Kurdish 4070

(BBCM)

The pro-Rabbani anti-Taleban radio station which identifies itself as Radio Afghanistan has been heard again since 22nd February, having been unheard for about two months. Freq varies from 7080-7100 kHz and sked is 0730-0830. Station announces second broadcast at 1330-1430 on same freq. (BBCM)

Voice of the Iraqi People (Arabic: idha'at sawt al-sha'b al-iraqi; Sorani Kurdish: Era Dengi Gel-y Iraq) describes itself as "the Voice of the Iraqi People, the voice of democracy and progress, the radio of the Iraqi Communist Party". In the past, it has broadcast regularly in Sorani Kurdish, as well as Arabic.

0400-0530 Arabic 7695 3905-3955v

1730-1830 Arabic 7695 3905-3955v

(BBCM)

CLANDESTINE - USA The RFA Mandarin service during its transmission from 2300-0000 has added 11970, this is from the VOA transmitting station in Delano, California. It's RFA's first use of a US based facility. VOA has not used California transmitters for broadcasts to China for many years, as better signals can be heard from the VOA relays in the Philippines and Thailand. RFA does not have permission of those two countries for access to those VOA relay facilities. (1Mar/Communications World/Ogrizek + Francis - AUS/EDXP 44/Padula-AUS)

The US government funded Radio Free Asia began broadcasting in Korean on 4 March. This is the fifth of seven planned RFA language services. RFA Korean is transmitted 2200-2300 on 7530, 9455, and 9650; 1530-1630 on 7520, 9955 and 11600. For the RFA Mandarin service, the Delano frequency at 2300-0000 has changed frequency. 11870 replaces 11970, and RFA Mandarin is using a Delano frequency from 1500-1700, it's 9805. RFA Mandarin has added its

third hour, 1600-1700, which time has recently vacated by VOA Mandarin in an agreement between the two stations. (8Mar/Communications World/Ogrizek-AUS/EDXP 44/Padula-AUS)

The RFA schedule is very dynamic! I have attempted to compile this composite schedule, integrating the recent changes made on 4 March, using data sourced to Nagoya DXers Circle, BC-DX, HFCC W96, and intuition!

Burmese 0030-0130 7455 7515 7530

Vietnamese 0030-0130 5865 7415 9910-KHBN

Tibetan 1300-1400 7355-Dushanbe 9440-Dushanbe

Vietnamese 1400-1500 5865 6240 7520 9930-KWHR

Burmese 1500-1600 6240 7540 9440

Chinese 1500-1600 6240 7495-Dushanbe 7530-Dushanbe 9455-KHBI 9910-KHBN 9805-Delano

Korean 1530-1630 5855 7520 9980 11600

Chinese 1600-1700 7495 7530

Korean 2200-2300 7495 7530 7550 9455-KHBI 9650

Chinese 2300-2400 7495-Dushanbe 7530-Dushanbe 9650 9910-KHBN 11870-Delano, 13800-KHBI

Tibetan 2300-2400 7415-Dushanbe 7550-Dushanbe

HFCC skeds show freqs and languages, but omit all reference to sites and powers! Somewhere in there are Armenian relays! (Padula-AUS/EDXP 44)

COLOMBIA

H3100 HJZI, MCI Radio, Bogota, is gone. Not the slightest spur noted when checking. (24-Feb/Klemetz-COL)

H4449.3 Third harmonic of Radio Cocorna', 2330 with Catholic mass. Heting Bolivia's Radio Estacion Frontera, 4449.9, which at this time carries a gospel prgr in Portuguese. (7-Mar/Klemetz-COL)

CONGO 5985 R.Diff.TV.Congolaise,Brazzaville 0500-0530 M in French reading news & comments; weak WYFR audible, growing stronger & almost swamping Congo in the end. Fair to weak. (Pijpers, March 14).

COTE D'IVOIRE "ELWA" has been applying for license to use SW from Abidjan as part of a consortium of Protestant groups, and the govt has virtually confirmed that the consortium will get the license. Though they have been applying for four years, and the govt has been slow to respond, the license has been "an inch away for some time" and could be in hand by March or April. "Everything is ready to roll" except the tower, which won't go up until the license is rcvd. However, it could be up in a few days, permitting test xmsns very quickly. Programming and staff are in the works. Again, not solely an SIM project, but they have been spearheading it. Part of setting up one stn for Protes-

tants, one for Catholics (already on the air), one for Muslims, in the Ivory Coast [not necessarily all on SW, I presume--JB]. (Interview with John Shay [sp?], Sudan Interior Mission/DXPL/NU/DSWCI DX Window)

CYPRUS

From: mustafa tosun, brt@cc.emu.edu.tr

To: Christoph Ratzer, ratzer@ping.at

Dear Mr. Ratzer,

You are saying in your message that you should be one of the first to detect Bayrak Radio II (Bayrak International) on SW. In fact, you are the very first person to report a reception after 14 January 1997, when test transmissions were started.

The transmissions lasted until 14 February. The HF Transmission equipment is being renewed lately. Therefore, it will take a few more months before regular transmissions begin.

Meanwhile, the utilization of a new frequency is being evaluated. May I ask you to supply me with any information you might have, on the spectrum of 49 m. band in your area? I would like to know the real situation in terms of available frequencies. Thanking you, (Ratzer/DSWCI DX Window)

CZECH REPUBLIC Radio Prague English sked thru October 25:

0000-0027	5930 7345
0100-0127	6200 7345
0300-0327	5930 7345
0330-0357	9480 11600
0700-0727	7345 9485 9505
0900-0930	15640 17485
1030-1057	7345 9505
1300-1330	13580 17485
1600-1627	5930 17485
1700-1727	5930 15640
2000-2027	5930 11600
2130-2157	9440 9495 11600
2230-2257	7345 11600

(24-Mar/Bergadano)

DENMARK Radio Denmark, thru 26-October, all programs in Danish:

0030-0055	7465 9560 9985
0130-0155	7465 9560 9985
0230-0255	7465 9560
0330-0355	7485 9565
0430-0455	7485 7570 9980
0530-0555	7485 13805
0630-0655	7180 7295 9590 13805
0730-0755	7180 9590 13805 15245
0830-0855	13800 15170
0930-0955	13800 15170
1030-1055	9480 15625
1130-1155	7295 15625
1230-1255	9590 13800 13805 15605

1330-1355 9590 13800 13805 15650
 1430-1455 13800 13805
 1530-1555 9980 11840 15230
 1630-1655 9980 9985 13805 15600
 1730-1755 7485 9985 15220 15340
 1830-1855 7485 9590 15220
 1930-1955 7485 13805 15340
 2030-2055 7485 7540 9590 15340
 2130-2155 7205 11675
 2230-2255 9405
 2330-2355 7275 9405 9480

(15-Mar/Koie-R. Denmark)

ECUADOR

2480.2 Radio Sonorama, Riobamba (2 x 1240) 1043 SS, this is the UNID from Cumbre 127. Andean mx, M anncr, canned ID "Hacia Riobamba...provincia... Chimborazo... 26...somos Radio Sonorama, una frecuencia de mucho gusto." Fair to good signal. Even stronger Mar 12 0943 with ments of "Riobamba" (8Mar/Mohrmann/Cumbre)

3283.3 La V del Rio Tarqui is not on the air at present. (Klemetz-COL)

3360 V del Upano, 0047 into distance education program. Usually not on at this hour of the day. (19-Feb/Klemetz-COL)

4770.1 R. Centinela del Sur, Loja; 1137-1155 nx ID "Por Radio Centinela del Sur"advs y nx sobre el circulo periodstico de Loja y su periodo de trabajo en 1997 y sobre el rea de salud # 1 NOTA: Hay interferencia de R. Tarma quien por la cercana y su potencia fue necesario escucharla en USB (26Feb/Arrunategui-PRU/Chasqui DX 94)

5060.2 Radio Progreso, noted reactivated 1950, very poor, but growing into a fullfledged signal by 0030, Mar 8, when they ended one of their typical esoteric prgrs. (7-Mar/Klemetz-COL)

HCJB sked thru 26-October:

0000-0300	Quichua	3220 6080
0000-0400	English	9745
0030-0100	French	9410
0115-0130	Tajik	5860 Su-Th
0130-0200	Uzbek	5860 Su-Th
0200-0430	Russian	5860
0400-0700	English	9745
0430-0500	Japanese	9765
0430-0500	German	5860 9415
0500-0515	Kikongo	9765 Mo-Fr
0500-0515	Ukrainian	5865 9380
0515-0700	Russian	5865 9380
0530-0600	Slovak	9420 Mo/Fr
0530-0600	Czech	9420 Tu-Th/Sa-Su
0600-0630	German	9765
0630-0700	French	9765
0700-0730	Spanish	9765
0700-1058	English	9645
0730-0930	English	5865
0800-0930	Portuguese	6125

0830-1000	Quichua	3220 6080 6110
0930-1000	German	6125
1000-1400	Quichua	3220 6080
1030-1400	Spanish	6050 9765 11960
1100-1600	English	12005 15115
1130-1200	Japanese	9415
1400-0500	Spanish	6050 15140
1500-1800	Portuguese	15295
1800-1830	Czech	12025 15550 Tu-Th/Sa-Su
1830-1900	Slovak	12025 15550 Mo/Fr
1900-1930	German	12025 15550
1900-2158	English	11960
1930-2000	French	12025 15550
2000-2130	Arabic	12025 15520
2130-2228	Spanish	9380 12025
2130-2400	Quichua	3220 6080 9745
2200-2300	Japanese	11615
2230-2300	Russian	12005
2300-0000	German	12005
2300-0230	Portuguese	11615

HCJB also broadcasts 24 hours per day in upper sideband on 21455kHz. (HCJB/WWDXC/Bueschel-FRG)

ETHIOPIA Radio Ethiopia External Service in EG broadcasts 1600-1700 on 7165, 9560 and 11800 kHz. News is at 1630 every day. There is also a relay of the external service Monday through Friday at 1030-1100 on 5990, 7110 and 9705. Address for reports: External Service, Radio Ethiopia, P.O. Box 654, Addis Ababa, Ethiopia. (Radio Japan Media Roundup/Cushen/NZDXT/Lamb/Cumbre)

FRANCE Amended sked for RFI: French to Africa "Service Afrique"

0430-0457	3965 4890
0530-0557	3965 5945 9790
0630-0657	3965 5945 7135 9790 11700
2130-2157	3965 5945 6175 7160 9790, 15300

French to Europe:

1100-1145	6175
1700-1800	6175
1800-1900	3965 6175

(3-Mar/Radio World/Van Oudheusden/EDXP/WWDXC/Bueschel-FRG)

GEORGIA High Adventure Ministry, The Voice of Hope, noted on NF of 7520 from unidentified site since the end of February at 1915-2100 s/off in English. ID "The Voice of Hope for all Europe". Good signal. 6280 carries another px at this time. The announced address is: Voice of Hope, PO Box 109, HR4 9XR, England. (28-Feb/N. Pashkevich-RUS/EDXP 44/Padula-AUS)

FAX from station advises site as Dusheti (Georgia), 100 kW, antenna 302 degrees to W. Europe. Full address is Box 109, Hereford, HR4 9XR, England. FAX: 01432-263-408. (9-Mar/Rausch/NU/EDXP 44/Padula-AUS) S/off varies between 2000-2100 (EDXP 44/Padula-AUS)

For Z97, Voice of Hope (KVOH origination) plans to use 9310 (ex-7520) 1900-2100, with 100 kW, 302 degrees, to Europe, from Tbilisi. (18Mar/George Jacobs and Associates/EDXP #45/Padula-AUS)

9494.79 Abkhaz Radio TENTATIVE 0428 Open Carrier, 0430 Interval signal played three times and then talk by man. 0433 instrumental music. Usually just a het most evenings. (Valko + Johnson-HI/Cumbre)

GERMANY Deutsche Welle English schedule:

0100-0150	6040 6145 9640 11810
0200-0250	7285 9615 9690 11945 11965 12045
0300-0350	6085 6185 9535 9615 9640
0400-0450	5990 6015 7225 9565 11765
0500-0550	5960 6045 6185 9615
0600-0650	11915 13790 15185 17820 17860 21680
0900-0950	6160 12055 17715 21680
1100-1150	15370 15410 17765 17800
1600-1650	6170 7185 7225 9735 9875 11810 13690 17800
1900-1950	7250 9640 9670 9735 11785 11810 13790
2000-2050	7170 9615
2100-2150	7115 9670 9735 9765 11785 11865 15135
2300-2350	5980 7235 9690

(direct)

Deutsche Welle noted being reported as saying their Ext sces have now returned to the planned normal as transmitters in Kigali, Rwanda, and Trincomalee, Sri Lanka are fully operational after being targets in local civil strife. The need to press ahead with automation at these relay sts will mean fewer staff being sent from Germany. This move will figure well with management plans to cut costs which are needed due to reduced funding from the German govt. (Fitzsimons-UK/WDXC Contact/WWDXC/Bueschel-FRG)

Programs of private shortwaver West Coast Radio Ireland originate in the studios of Mid West Radio in Co Mayo (Ireland) and are broadcast via a 100-kW Deutsche Telecom transmitter at Juelich, Germany.

0100-0200	English 5910 Th
1500-1600	English 5970 Sa
1800-1900	English 11665 Th

(BBCM)

GREECE VOA relays cut, MW boosted. In response to the Albanian government's cut-off yesterday of the VoA's Albanian-language broadcasts on local stations, VOA today stepped up its MW broadcasts to the crisisridden Balkan nation. In addition to its two hours of daily Albanian language broadcasts on SW, VOA may now be heard in Albania at 792 MW [via VOA's Kavala-GRC relay transmitter], from 0600-0630, and 17001730. (3-Mar/BBCM/AGDX/BCDX/EDXP 44/Padula-AUS)

GUAM Until the end of W96, KSDA has added 11895 2200-2300, replacing 9495. (George Jacobs and Associates/EDXP #45/Padula-AUS)

HONDURAS 4910 LV de la Mosquitia - Cumbre reported that this one was about to go back on the air a few weeks ago. I haven't heard anything, so I called the to see what had gone wrong. To my surprise, I was told that they had tested all 3 of the station's transmitters on the air and that they hadn't had any problems. I replied that I hadn't heard it in Colorado nor had I seen any logs of it. I was told that they had heard it in Mississippi (I am not sure if he meant recently or not). Is anybody hearing this station? The schedule I was told is the same as before, 2300v-0300v. (21Feb/DIRECT/Johnson/Cumbre 127)

INDIA AIR noted with two additional channels - 1330-1500 in EE to South Asia on 9545 // 11620 13710. Also 11715 added at 0130-0229 in Nepali // 3945 6045 7250 9550. (Alok das Gupn reactivated. First noted 26/2, sign-off time is now 1515. (6-Mar/Yamada-JPN/EDXP 44/Padula-AUS)

3290 Definitely AIR Gangtok in Sikkim is having problems. Not heard on many checks in February but heard on 18/2 at 1325 with Tibetan type music, again on 20/2 at 1520. However 22/2 not at all. This transmitter has been somewhat erratic thruout. This must be quite frustrating to DXers who go on DXspedition hoping to catch this out of many such. 22/2 Following Indian s.on with Interval signal and the usual procedures. (Goonetilleke/UADX/DSWCI DX Window)

AIR regionals in the trop report. Monitored the following, all stations either site ided (id) or monitored English news (news) in // to other AIR outlets. Also noted a few changes to the W96 sked.

3223 Shimla id 1741*, not 1710.

3245 Lucknow id *1430, not 1415.

3277 Srinagar, not here but 4950

3305 Ranchi untraced

3315 Bhopal id3345 Jaipur id

3365 Kurseong untraced here, 4895 instead.

3365 Delhi id, EE news at 1530

3390 Gangtok sick transmitter, id by Valko

3945 Gorakhpur news

4760 Port Blair id

4760 Leh off? Untraced?

4775 Imphal news

4790 Itanagar id

4800 Hyderabad id

4820 Calcutta id
 4840 Mumbai id
 4850 Kohima news
 4860 Delhi Off? Russian dominating the freq.
 4880 Lucknow news
 4895 Kurseong id
 4910 Jaipur id 1415*
 4920 Madras news
 4940 Guwahati news
 4950 Srinagar news EE news at 1530
 4970 Shillong id, plenty of EE programming
 5010 Thirupuram still off? Untraced.
 5050 Aizawl id, Valko very happy. (Valko + Johnson-HI/Cumbre)

INDONESIA

3124 RPD Halmahera 1115 pan flute music, then talk by man with music in background. Jakarta news at 1200, but through 1300 with pops. I think Dave got at least a partial id. Heard till 1432*. (Valko + Johnson-HI/Cumbre)

3142.1 RRI Sorong PRESUMED pops through 1030, then 1100, when I said enough. (Valko + Johnson-HI/Cumbre) here, but still a fair signal. St was off for a few days, and usually s/off is after Jakarta nx around 1515*. (7-Mar/Martin/Cumbre)

3205 RRI Bandung. I have been unable to hear this so I had a friend in Indonesia call the station. Station personnel told him that they are off due to technical difficulties. (Atkins/NU/Cumbre/YamadaJPN/Jembatan DX #16)

3231.8 RRI Bukittinggi. 1503 Jakarta nx relay. 1512 Local traditional mx. Poor. (24-Feb/Yamada-JPN/Jembatan DX #16)

3295.33 RRI Samarinda 1430-1440+, M anc with a quick site ID, then into a radio drama pgn. UTE QRM as usual 3325.0 RRI Palangkaraya. 1534 Dangdut mx. Suddenly s/off at 1545.Fair. (16-Feb/Yamada-JPN/Jembatan DX #16)

3344.85 RRI Ternate 1445-1516*, Indo balads/pops, site ID by M at 1458, SCI, and Jakarta nx. Closing anmnts, gone by 1516*. Inactive the last few days, possibly xmt repair? Huge signal again, strongest 90mb Indo here. Gone are any chances of hear AIR Jaipur now! (6-Mar/Martin/Cumbre)

3946 RRI Tanjungkarang PRESUMED pops right through 1600, but Indonesian talk and Sci at 1658. Couldnt get local id, though. (Valko + Johnson-HI/Cumbre)

4000.1 RRI Kendari. 1546 Kroncong mx. 1549

Closing anmt. S/off at 1550. Fair. (16-Feb/Yamada-JPN/Jembatan DX #16)

4606.3 RRI Serui. 1300 Jakarta nx relay. 1307 Local pops. S/off at 1326. Poor. Reactivated. (2-Mar/Yamada-JPN/Jembatan DX #16)

4696.9 RKIP-Surabaya.1433 Wayang kulit. Poor. (1-Mar/YamadaJPN/Jembatan DX #16)

4766.0 RRI Medan. 1450 Local pops. 1459 RPK. 1500 Jakarta nx relay. Fair. (25-Feb/Yamada-JPN/Jembatan DX #16)

4789 RRI Fak-Fak 2011 Indo covers of EE pops such as "Show A Little Kindness" and "Don't Stand so Close to Me." (1-Mar/Ormandy/Cumbre)

5059.13 RRI Yogyakarta 1450-1515*, Gamelan mx pgn, with W anc at 1459. SCI, to Jakarta nx. Site ID at 1514 by same W anc at end of nx, closing anmnts, gone by 1515. Station has been off for some time now, maybe xmt repairs? Much improved signal, second only to 4753v RRI UP. (21-Feb/Martin/Cumbre 127)

6071 RRI Jayapura still going strong at 1800. (Valko + JohnsonHI/Cumbre) 7231.0 RRI Fak Fak. 1445 Tk by M. 1446 EG pops. Suddenly s/off at 1450. Poor. (1-Mar/Yamada-JPN/Jembatan DX #16)

RRI Pekanbaru on 5040 reactivated. Sign off time is now 1515. (26Feb/Yamada-JPN/Jembatan DX #16)

RRI Medan changed sign off time from 1500 to 1515. (YamadaJPN/Jembatan DX #16)

RRI Tanjungkarang on 3395.1 changed sign off time from 1600 to 1700 in February. (Yamada-JPN/Jembatan DX #16)

RRI Jakarta on 15150 broadcasts Programa Nasional Satu instead of Programa Nasional Dua. (Yamada-JPN/Jembatan DX #16)

IRAN VOIRI Teheran adjusted their 9590 with 9585 at 1330-1430 Urdu causing cochannel to DW-Trincomalee at the same time. (15Mar/Dasgupta-IND)

VOIRI partial updated sked:

????-2240	Bosnian	7100 9022
0600-1100	Arabic	5995
1100-1225	English	11875 11930 15084 15260.4
1330-1425	Urdu	6175 7115
1330-1425	Chinese	6050 7215
1430-1525	Bengali	7115 7215
1530-1625	English	7215
1700-1725	Swahili	9685

(1-Mar/Panivew-BUL + Bueschel-FRG/BCDX/EDXP #45/Padula-AUS)

IRAQ Republic of Iraq Radio (Arabic: "idha'at jumhuriyat al-iraq"):

0255-0015	Arabic	9715v-irreg 7150v-irreg 4615v-irreg
0315-2130	Kurdish	6560

1700-2000 Arabic* 9750v-unconfirmed 3935

*=Mother Of All Battles Radio (BBCM)

ITALY RAI sked thru 26 October:

0050-0110 Spanish 9575 11880
 0050-0110 English 6010 9675 11800
 0110-0125 French 6010 9675 11800
 0110-0125 Portuguese 9575 11880
 0130-0305 Italian 6010 6110 9575 9675
 11765 11800 11880
 0305-0325 Spanish 6010 9575 9675 11800
 11880
 0330-0350 Russian 5975 7270 9670
 0350-0410 Ukrainian 5975 7270 9670
 0400-2200 Italian/3 7175 "Radiodue"
 0400-2200 Italian/2 6060 9515 "Radiouno"
 0415-0435 Amharic 11905 15400
 0415-0440 Italian/EE 5975 7270
 0430-1200 Italian 6110
 0435-0510 Italian 11905 15400
 0445-0505 Lithuanian 5975 9670
 0510-0530 Somali 11905 15400
 0510-0530 Romanian 5975 7240
 0535-0555 Arabic 11905 15400
 0535-0555 Russian 9670 11800
 0600-1200 Italian 7240
 0600-1300 Italian 15240 21520
 1000-1100 Italian 11925
 1320-1355 Albanian 5990 7240
 1330-1355 Arabic 6035 7290 9670
 1400-1415 Slovene 5990 7240
 1400-1430 Italian 15250 17780
 1415-1435 German 5990 7240
 1435-1455 Croatian 5990 7240
 1500-1520 Turkish 5970 7240
 1500-1525 Italian 5990 7290 9670
 1520-1540 Greek 5970 7240
 1530-1555 French 5990 7290 9755
 1540-1600 Bulgarian 5970 7240
 1555-1625 Italian 5990 7290 9755
 1605-1625 Russian 9670 11800
 1630-1655 French 7235 9670
 1630-1655 Arabic 9690 11880 15245
 1700-1800 Italian 7235 9745 11840 15230
 15320
 1805-1825 German 5990 7130 9670
 1815-1830 Czech 6110 7145
 1830-1845 Slovak 6110 7145
 1830-1905 Italian 15250 17780
 1845-1905 Polish 6110 7145
 1910-1930 Somali 9745 11840 15250
 1910-1930 Serbian 5955 7145
 1935-1955 Hungarian 5955 7145
 1935-1955 English 6015 7230 9670
 2000-2020 Swedish 7180 9755 Mo/Wed/Fr
 2000-2020 Danish 7180 9755 Su/Tu/Th
 2000-2020 Russian 6035 7145 9670
 2000-2020 Esperanto 7180 9755 Sa
 2025-2045 Arabic 6035 7290
 2025-2045 English 7120 9710 11840

2050-2110 Portuguese 6110 7290 9710 11840
 15250
 2110-2130 Spanish 6110 7290
 2115-2135 Romanian 5970 7120
 2135-2155 Czech 5970 7120
 2135-2155 Arabic 6110 7290
 2155-2210 Slovak 5970 7120
 2200-0400 Italian/1 6060 "Notturmo dall'Italia"
 2200-2225 English 6150 9565 11815
 2210-2225 Polish 5970 7120
 2230-0050 Italian 6010 9575 9675 11800
 11880

(RAI Web site)

Italian Radio Relay Service, Milano, summer transmission schedule: 050005307125 Sa-Su (Russian)

0500-0830 3955 Mo-Fr
 0530-0730 3955
 0730-1330 7125 Russian
 1330-2000 3955
 2000-2200 3955

Transmissions are in upper sideband mode, with reduced carrier, using 10 kilowatts. (direct/EDXP #45/Padula-AUS)

According to the January issue of Adventist World Radio's listener newsletter "Current", the Italian Government has granted approval for a private shortwave station in Italy to Adventist World Radio. The bulletin, received March 10, via AWR-Asia, states approval was granted January 23, 1997. The station will be built on a farm 40 kilometers north east of Forli. Ground breaking is anticipated for late 1997, and completion is expected by the year 2000. (24-Mar/Ziolkowski/EDXP #45/Padula-AUS)

JAPAN NHK Radio Japan Z97 in English: Newly introduced services:

0600-0700 5975UK 7230UK 9835 12030 15230
 1700-1800 7110UK
 2100-2200 13630

English GS schedule changes: Usual Sackville-CAN 5960 kHz time shift to 0100-0200 (from April 7th). UK Skelton change 0500-0600 7230 (x6150). 0500-0530 13630 & 15230 (x9835&12000) kHz. Moyabi-GAB relay 07000800 15230 (x15165) kHz. GS deleted at 0300-0400, 1400-1500, and 2300-2400. (16-Mar/NHK RJ Media RoundUp/WWDXC/Bueschel-FRG)

KIRIBATI 9810U Radio Kiribati NEW FREQUENCY After several days of not understanding why we couldn't hear them on 9825, I rang them. According to station personnel, they moved here because listeners on Christmas Island complained of poor reception. Operating here with 1 kW, but only from 0530-0930 (not at other times Kiribati is on). Per monitoring, the English hour is at 0600 starting with R. Australia news. The constant cutting off of the transmitter, according to Valko, is probably a VOX feature on the transmitter that causes it to cut

off if no audio is detected. (Valko + Johnson-HI/Cumbre)

KOREA - NORTH 2349.5 KCBS Sariwon // 2850 at 1208. 4404.9 Radio Pyongyang Unlisted for this service, but heard in English at 1114. // 6575. Uses this channel for several hours. 5700 KCBS New Frequency? I dont recall this one listed anywhere. // 2850 as early as 0900. (Valko + Johnson-HI/Cumbre) [probably a harmonic - AQ]

KOREA - SOUTH RKI Seoul changes in English sce periode Z97 from March 30th, relay site changes only. Schedule of direct bcs fr Seoul transmitter remaining same. RKI via Skelton will be retimed from 1930 to 2100-2130 , still on 3970 kHz. Sackville 1130 to be retimed at 1030-1100 on 11715 (x9650) kHz then. (16-Mar/RKI Feedback/WWDXC/Bueschel-FRG)

LAOS 6973v Luang Prabang The listed Nei Menggu that is suppose to operate around here was untraced, so if you here a station around here, you probably got this guy. Sked is *1030v-1400* and they run // to 6130 from 1200 (including the gongs) until about 1230. (Valko + Johnson-HI/Cumbre)

LIBERIA Liberian Communications Network was heard Feb 1 at 0715 in English with traditional music, ID and frequency anmt, citing 5100 and 6100 kHz. While the announced sked says they switch to 6100 at 0300, obviously this is not the case. (Sellers/World Radio Report - DXO/SerraIT)

MALAWI 5993.3 MBC heard at 0410 as well as 1805 when they had English news. Nothing heard on 3380. (Valko + Johnson-HI/Cumbre)

MEXICO 15120 XERTA (p) 1630-1730 Continuous salsa/rap crap music with no announcements of any kind. Signal is quite good, audio good, music selections do not compare to the great stuff on XERMX. This station could quickly undo the positive cultural image projected by R. Educacion, XERMX, and the old Radio Universidad from the University of Sonora, Hermosillo that provided the only source of off-air classical music to the southwestern USA for at least two decades. (25-Feb/Buch/Cumbre 127)

MOLDOVA Radio Moldova International in Romanian to N. America scheduled Mon-Fri 1230-1300 on 9400. (8-Mar/Radio World/Van Oudheusden/EDXP 44/Padula-AUS)

MONGOLIA Z97 sked for Voice of Mongolia:

0830-0900	Russian	15170
0900-0930	English	15170
0930-1000	Mongolian	15170
1000-1030	Chinese	15170
1030-1100	Japanese	15170
1130-1200	Mongolian	12085
1200-1230	Chinese	12085
1230-1300	English	12085
1300-1330	Russian	12085

1345-1415	Japanese	12085
1430-1500	Chinese	9720 12085
1500-1530	English	9720 12085
1900-1930	Russian	9720 12015

The Voice of Mongolia provides QSLs for every qualifying reception report, and 9 different QSLs are available. Reception reports and letters should be sent to the language sections (i.e. English section), Voice of Mongolia, C.P.O.Box 365, Ulaanbaatar 13, Mongolia. Two IRC's or 1\$ to cover postage expenses would be appreciated. I am the Mail Editor at the English section and would be very happy to assist you further. Thank you for your cooperation. (20-Mar/Batbayar-VOMongolia/DXW/EDXP #45/Padula-AUS)

A new Mongolian independent station has commenced operations on shortwave. It announces itself as "Radio Blue Sky" and has been heard from 1300 until sign-off at 1500, on 4850. Transmissions have included halfhour news segments in En produced by Radio Mongolia, and En language lessons. (NDXC/Padula-AUS/EDXP/Cumbre 127)

MOZAMBIQUE Radio Maputo, the external service of Radio Mozambique has this nominal schedule:

1100-1130	English	11835-anncd 11820-anncd
1800-1900	English	4855-anncd 3265-anncd

(BBCM)

As for Radio Mozambique's domestic services: The National Program is only observed irregularly on shortwave: Frequencies used in the past include (all variable) 11818, 7242, 6112, 5110, 4867 and 3210 kHz. Radio Mozambique also operates regional and provincial stations throughout Mozambique. Beira A prog. is heard on 3370v/6025v and Beira B on 3280v/9637v.

0245-0330	Portuguese	4855-(irreg)
0330-2210	Portuguese	9619v 4855-(irreg)

(BBCM) Noted on 6110.9 and 9618.9. (Clark-CAN + Conradie-RSA)

Radio Mozambique Emissao Nacional

0245-2210	Portuguese	15295v-daytime [local] 9619v 6110v 3210
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Radio Mozambique Maputo & Gaza Interprovincial Program

0250-2210	Port/Tsonga	4925v-(4906-4925)
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(BBCM)

3210 Radio Mozambique Maputo 1850-1910 PP lively PP vocal MX T/S I/D Frequencies NX 44343 (improved Audio) (20-Mar/Clemitsorn/DSWCI DX Window)

According to last MOZ feature I made the following observation of Radio Mozambique on 15293.66 at 14:12. language was Port. and they broadcasted a sportsprogram. (14-Mar/Lindenthal/DSWCI DX Window)

NETHERLANDS Radio Netherlands Summer '97 English schedule:

0030-0125 6020F 6165B 9845B
0030-0125 5905T 7305A* 9855T 11655A
0130-0225 5905T 7305A* 9855M/T 11655M/A#
0230-0325 9855M 11655M
0430-0525 6165B 9590B
0730-0825 9720B 9820B
0830-0925 9720B 9820B
0930-1025 12065P 13710I
1030-1125 6045W 9860N 12065P 13710I
1130-1325 6045W 9860N
1330-1525 9890M 12090M 15585T
1730-1825 6020M 7120M 11655F
1830-1925 6020M 7120M 9895F 11655F 15315F 17605B
1930-2025 6020M 7120M 9895F 11655F 15315F 17605B
2330-0025 6020F 6165B 9845B

*=until 4-May, #=after 4-May A=Alma Ata, B=Bonaire, F=Flevoland, I=Irkutsk, M=Madagascar, N=Nauen, P=Petropavlovsk-Kamchatskiy, T=Tashkent, W=Wertachtal (direct)

NEW ZEALAND Radio New Zealand International sked, through 3-May:

0459-0758 9795 Sa-Su
0459-0816 9795 Mo-Fr
0759-1206 9700 Sa-Su
0817-1206 9700 Mo-Fr
1207-1650 6070 occasional sport use
1650-1851 6070 Mo-Fr
1852-1951 9795 Su-Th
1852-1958 9795 Fr-Sa
1952-2306 11735 Su-Th
1959-2306 11735 Fr-Sa
2307-0458 15115

(Sainsbury-RNZI)

NORTHERN MARIANAS ISLANDS Monitor Radio KHBI schedule for Z97 (which came into force on March 4):0800 15665; 0900 15665 13840; 1000 15725 15665; 1100 9355 9430; 1200 9355 9430; 1300 9355 13840; 1400 9355; 1500 9355; 1600 11550 9385; 1700 11550 9385; 1800 9355 9385; 1900 9355 9385; 2000 11860; 2100 13840; 2200 15665; 0000 15725 15665. (6-Mar/Matt Francis/EDXP 44/Padula-AUS)

NORWAY Radio Norway International sked thru 26 October:

0000-0030 7465 9560 9985
0100-0130 7465 9560 9985
0200-0230 7465* 9560*
0300-0330 7485 9565
0400-0430 7485* 7570 9980
0500-0530 7485 13805
0600-0630 7180* 7295* 9590* 13805*
0700-0730 7180 9590 13805 15245*
0800-0830 13800 15170*
0900-0930 13800 15170
1000-1030 9480 15625

1100-1130 7295 15330 15625
1200-1230 9590* 13800* 13805* 15605*
1300-1330 9590 13800 13805 15650
1400-1430 11850 13800 13805
1430-1500 11850
1500-1530 9980* 11840* 15230
1600-1630 9980 9985 13805 15600
1700-1730 7485 9985 15220 15340
1800-1830 7485* 9590* 15220*
1900-1930 7485 13805 15340
2000-2030 7485 7540 9590 15340
2100-2130 7205 11675
2200-2230 9405*
2300-2330 7275 9405 9480

* English on Sundays (Grimdalen-NRK)

PAKISTAN 4790.5 Azad Kashmir Radio 1428 Koran, then talk by man. 1430 Chorus singing mentioning Pakistan and Kashmir again and again. Talk by man followed but didn't catch an id. 1459 type-writer theme music, 3 time pips and id "Yeh Radio Pakistan Hai". // 5027 at this time, but not after 1530. 1600 same type-writer music and pips, but English news now. // 5027 again but not // by 1639. 1643 id as "Program (Rubatan) Azad Kashmir Radio". 1700 just like 1500, carrying Urdu news from Radio Pakistan. (Valko + Johnson-HI/Cumbre)

R.Pakistan noted on the new 7235v(7231 7237 etc) // 9516 at 0030-0130 Hindi. (15-Mar/Dasgupta-IND/DSWCI DX Window). Radio Pakistan in English 1600-1630 replaced 9903 by v9513.6 kHz. Urdu 1700-1800 new 9485 (x11570.1). Turkish 1700-1800 new 9510.6 varies up to 9513.6 kHz. Indonesian 0900-1000 new v15026.3 (x15566.2) kHz. (1-Mar/PanviewBUL/WWDXC/Bueschel-FRG)

PAPUA NEW GUINEA The NBC has struggled for funds and has been forced to commercialize their two national services, the Karai and Kalang services. For those that don't know the Karai service is now 24hours. Between the hours of 1200 & 1940 the Karai Service carries the Kalang Service. It appears that the provincial (Kundu) stations will in time carry commercials (Baxter/OZDX/Martin/Cumbre) Karai national service has extended its use of 9675 to 0900, formerly 0700. First noted on 8-March. ID's reference "Voice of Papua New Guinea." (18-Mar/Francis/EDXP #45/Padula-AUS)

3205 Radio Sandaun 1142-1202* Chit-chat-ty M's Pidgin w/ mx; ID at close and "Good Night Now" @ 1159; children's choir @1200 and then band anthem; off @1202 (8-Mar/Frodge/Cumbre)

3315 Radio Manus 1120 M preaching in Pidgin EE asking listeners to contact him. Pidgin ID at 1130, followed by more preaching. (11Mar/Cumbre)

3335 Radio East Sepik 1120 M & W w/ public svc annnments in Pidgin, then ID & pop mx. (11-Mar/Rausch/Cumbre)

3385 R. East New Britain 1100-1115 IS at 1100 followed by news in E until 1115, then back to island music which was DJed by female. (12-Mar/Hester/Cumbre)

PARAGUAY 5975 R. Guaira, regular every day. Sign on varies a bit, between 1000 to 1200. Often off on Mondays or at least s/on quiet late. Now also asking for report for the SW outlet: "Villarrica como protagonista en el iter mundial, atraves de R. Guaira y sus ondas cortas, en 5975 kilociclos banda de 49m. Escribanos informando la calidad de recepcisn. Nuestra direccisn, Alejo Garcma y Presidente Franco, telefonos 2385 y 2130, Villarrica Paraguay". I call the station, where they said that the transmitter used now is a new one, and power used at the moment is 1kW. The station said the SW outlet usually are an untill 00:00 . But I have often heard it untill arnd. 01UTC. On: <http://swl.sds.se/hotnews.html> there are one audio file in WAV format of R.Guaira, recorded 6 of March at 1420 of the SW outlet. Paraguay changed to normal time (UTC -4) on March 2nd. (Iversen-PAR/DSWCI DX Window)

5976 R. Guaira 1159 Finally could get this one. Man asking for rpt, "...5975 Kcs, banda de 49 metros. escribanos reportandonos la calidad de nuestras emisiones." Low modulation and het, also R.Guaruja, Florianopolis on 5980 makes reception difficult. (19-Mar/NigroURG/DSWCI DX Window)

PERU

3234.8 Radio Luz y Sonido, Huanuco, 0026 with "La hora huanuquena", which is aired from 7-8 pm, speaker said. Ads for Comercial San Miguelito, wholesale agents for Cusquena brand of beer. (13-Feb/Klemetz-COL)

3283.3 Estacion Wari is audible most mornings from approx. 1000, rarely at night. First noted on this fq Feb 5, 2335 to past midnight, as reported in the Spanish language version of Dateline Bogota, Fechado en Bogota, Feb 12/97. Reactivated in June of last year, on 3280.6, the stn moved to 3281.6 on Oct 29 and is now to be found on 3283.3, probably at sufficient distance from Ecuadorian La V del Rio Napo, 3279.9, which would otherwise produce a nasty het in the stn's coverage area. (Klemetz-COL)

3339.95 R. Altura, Cerro de Pasco, Pasco Traditional-sounding music with multiple plucked string instruments and melodic vocal. Interrupted in mid-song by M 0152 with ID: "...frecuencia...Una sola...Radio Altura, un emisora al servicio del pais". (24Feb/Novello/Cumbre 127)

4004.9 Radio La Voz del Campesino, a new pirate station first noticed by FA, is located in San Miguel de El Faique, in the Province of Huancabamba, Department of Piura. The town is located at an altitude of 1060 meters. With a population of about 9000, it is a quiet and pleasant town, conserving the aspect of an old Spanish village with houses

roofed with tiles and straws. It is not a particularly interesting place for foreign travellers. The station uses a "FRANVEL" brand transmitter of an output of 250 Watts, which was formerly used by Radio Grau in Huancabamba. (TIN/EDXP 44/Padula-AUS) R La V del Campesino, a new station first noticed by Arrunategui, noticed in Bogota, 2355 until 0100*. No comms, only music, TC's and ID's (carefully avoiding info regarding the station QTH) plus two personal messages, one of which (inadvertently) revealed the probable station QTH, "en esta localidad de El Faique". Sked given at s/off as 2200-0100. Name of owner appeared to be Alberto Soto Santos. Not too bad a signal into Bogota; is on most nights, and DJ seems friendly with the people at Radio San Miguel de El Faique, the new one that took over last month after Radio Sensacion, on 6895.3. ("Alto Piura", mentioned by PFA as the QTH, is the general coverage area of the station. El Faique is in the mountainous area of Huancabamba province, which in turn belongs to the "departamento de Piura"). (18Feb/Klemetz-COL)

4420.3 Radio San Juan, unheard for a fortnight, now back Mar 2 with selection of tropical dance music, canned ID's and live TC's. S/off 0003* (Mar 3) with a long canned ID. (2Mar/Klemetz/Cumbre)

4567v Radio Gotas de Oro, Chiclayo, has certified my reception from last year (on 4524) by means of a letter. Letterhead shows "drops of gold" (liquid, not solid...) and signature is illegible. Secretary Celia Purizaca Suxe knows what DXing is about, so letters can be addressed to the station, in care of her, Calle Primero de Mayo 278, Urb. Urrunaga, Distrito Jos Leonardo Ortiz, Chiclayo. Return postage would be appreciated. A pennant is in the making, says Celia in a separate message. (Klemetz-COL)

4775.0 R. Tarma, Tarma; 1157-1225 ID "Por Radio Tarma, la primersimaa...". nx el rio Mantaro ha bajado su caudal en un metro...px Radio Noticia ID "Estimados oyentes a lo largo y ancho del Per, Radio Tarma esta llegando ntidamente con Radio Noticias" advs Cemento andino (26-Feb/ArrunateguiPRU/Chasqui DX 94)

4279.4 R. Cajamarca, Cajamarca; 1127-1150 nx ID "Aqu estamos presentando Onda Informativa por Radio Cajamarca, amigo visitante cuando vengas a Cajamarca, no te olvides de visitar nuestros centros tursticos..". nx px Onda Informativa (28Feb/Arrunategui-PRU/Chasqui DX 94)

4764.0 R. Chincheros, Chincheros, Apurimac; 1154-1230 px La Hora Municipal advs se avisa a todos lo ganaderos de Chincheros que estn interesados en la inseminacin artificial, inscribirse en la oficina administrativa del Ministerio de Agricultura de Chincheros hablan en quechua y espaol ID "Siempre por su Radio Chincheros.." (28-Feb/Arrunategui-PRU/Chasqui DX 94)

4790.0 R. Atlántida, Iquitos, Loreto; 1135-1218 hablan sobre la salud el cuerpo humano por medio del naturalismo ID "Por Radio Atlántida..." (27-Feb/Arrunategui-PRU/Chasqui DX 94)

5498.1 Radio Las Lajas 0048 Messages and comunicados. "Atencion en esta localidad de Lajas..." mentioning their usual slogan: "Radio Las Lajas la pionera del dial" (18-Feb/Rodriguez/Cumbre 127)

5575.3 R. San Juan, (Ten. Bagua Grande); 0205-0305 mx ID "Radio San Juan que transmite desde Bagua Grande (Creo entender Bagua...) mx ID "Radio San Juan, llegando a sus receptores ntidamente" px Boleros del Recuerdo. s/off 0300* (26-Feb/ArrunateguiPRU/Chasqui DX 94)

5645.9 La Voz de San Antonio, Bambamarca 0320 Andean mx w male in Spanish. "San Antonio" noted, still presumed. Unstable & weak signal, just above noise level. Still on at 0410. (26Feb/Pijpers/Cumbre 127)

5775.2 A new one is Radio San Juan, Lonya Grande, Provincia de Utcubamba, departamento de Amazonas, until s/off 0319 with NA. Studio address sounded like 28 de Julio 420. - Seems to s/on fairly late, around midnight. Speakers seems fairly confident, do not play hide-and-seek, and they do give their own names on the air. Lonya Grande is "la capital del cafe", it was said. They say they are on 1150 kHz during the day. (1Mar/Klemetz-COL)

6045.3 R. Santa Rosa, Lima; 1229-1300 ID "7 de la maana con 30 en Radio Santa Rosa..." nx sobre el proyecto de titulacin de los campesinos ID "En Radio Santa Rosa le presentamos el comentario de la semana" (26-Feb/Arrunategui-PRU/Chasqui DX 94)

6261.1 UNID Peruvian, Mar 16, from 0055 to past 0200 when weakening considerably. Annoying QRM from the Greek on 6260. Seems to ID as "JL / or: "JR"/ Radio". Varied music and almost no ads, although I noted one for "Bar bodega Cucharon, Jr. Tupac Amaru sin numero". No clear indication of QTH. I haven't had anything on this channel for ages, and this stn does not seem to ID as Radio Juanjui". (15-Mar/Klemetz/DSWCI DX Window)

6479.8 Radio Altura, finally taped good ID at 0112. Good s7 signal. Rapid fire speech, difficult to pick out IDs. Had been trying for more than a week on this one. At this time of the year the grayline is perfectly placed, and the signal peaks s9+ at sunset, drops in level about an hour later, then picks up again early evening. (10-Mar/Sundstrom)

6725.6 R. Satellite, Santa Cruz, Cajamarca 2355 Long lists of comunicados by M announcer, ID's interspersed along with telephone number. Occasional musical selections. Loud signal on all antennas, hard to believe this is 300w, per WRTH 97, tonight. (23-Feb/Novello/Cumbre 127)

6895.3 Radio San Miguel, San Miguel de El Faique also uses a "FRANVEL" brand transmitter of 250 Watts, which was formerly used by Radio Sensacion in Huancabamba. Until now, the station has not replied to my reports.(2-Mar/NozakJPN/EDXP 44/Padula-AUS)

PHILIPPINES Revised sked for Radyo Pilipinas, Manila:

0230-0330	English	11885	15120	15270
0330-0400	Filipino	13720	15330	17730
1730-1930	Filipino	11815	15190	

(5-Mar/Coceani-AUS/EDXP/WWDXC/Bueschel-FRG)

PORTUGAL RDP Internacional sked:

0000-0430	Portuguese	11840	9635	9600	9570	6150
0430-0500	English	9570	6150	Tu-Sa		
0430-0500	Portuguese	11840	9635	9600	9570	6150 Su-Mo
0600-0900	Portuguese	9780-(fm 0700)	9630-(fm 0745)	6130	Mo-Fr	
0800-1000	Portuguese	17595	Sa-Su			
0800-2100	Portuguese	21655	15515	9780	9615-(0900-1030)	6130 Sa-Su *
0900-1300	Portuguese	9780	6130	Mo-Fr		
1000-1200	Portuguese	21655	17680	15515	Mo-Fr	
1205-1300	Tetum	17595	Mo-Fr			
1300-1400	Portuguese	17595	Mo-Fr			
1300-1430	Portuguese	21515	Mo-Fr			
1300-2100	Portuguese	17745	15200	Sa-Su		
1430-1500	English	21515	Mo-Fr			
1600-1900	Portuguese	21515	Sa-Su			
1700-2100	Portuguese	9815	9780	6130	Mo-Fr	
1800-2200	Portuguese	21655-(to 2100)	15515	Mo-Fr		
2100-2130	English	9815	9780	6130	Mo-Fr	
2130-2200	French	9815	9780	6130	Mo-Fr	

(BBCM)

RUSSIA According to an E-mail from Khabarovsk, the Komsomolsk-naAmure station is active on the following frequencies: 5920, 6020, 6065, 9565, 9670 and 9675. No times mentioned and no information on whether they broadcast home or foreign service programs. (1-Mar/Ritola/EDXP 44/Padula-AUS)

4040 Evenkiyskaya GTRK Kheglen (Kheglen stands for Milky Way), Tura has local programs at 0100-0200, according to both listening and verification received today. V/S is B. Yuryev, Company Engineer. (14-Mar/Ritola/EDXP #45/Padula-AUS)

According to a verification from TRK Kabbalktelera-dio, Nalchik transmits in Kabardin on Wednesdays and Sundays and in Balkarian for fellow countrymen in the Near East on Thursdays at 1830-1900 on 1170, 5905 and 7130 Shortwave frequencies were said to be seasonal, these may already be summer frequencies. Listening observations in February gave MW frequencies 1089 and 1170 and a shortwave frequency of 6005 kHz. The V/s was Kamal Makitov,

vice chairman. (22-Mar/Ritola/EDXP #45/Padula-AUS)

Voice of Mediterranean frequency change: 7390 now replaced by new 12060 // unchanged 7440; 12060 signs on at 1930 with Voice of Russia German service, at 2000 into Voice of Mediterranean. Site: HFCC lists Almaty, but in fact these outlets may be from the Samara site. (28Feb/Lieberwirth-FRG/Ludwig/EDXP 44/Padula-AUS) 2000-2100 English, 2100-2130 French, 2130-2200 German (16-Mar/Sundstrom)

Voice of Russia is reducing its Russian language broadcast output, from 18 to 10 hours daily. Operational span now: 2100-0100, 0300-0400, 0500-0700, 1600-1800, 1900-2000. (8-Mar/Radio World/Van Oudheusden/EDXP 44/Padula-AUS)

Joe Adamov recently answered a listener's question on 'Moscow Mailbag' about the reduction in short-wave broadcasting by the Voice of Russia. Adamov said that VoR now had three times less transmission capacity to the United States. The Russian Ministry of Communications owned the transmitters, not VoR. (6-Mar/Matt Francis/EDXP 44/Padula-AUS)

SAUDI ARABIA BSKSA schedule as compiled BSKSA info and BBCM observations. Valid until 4th May 1997.

0255-0600	General Sce	7150
0300-0600	Holy Koran	11870 9720v 9620 9555v
0300-1500	Second Pgm	9580v
0600-0900	Holy Koran	11785 9715 9530
0600-0900	General Sce	11710v
0900-1200	General Sce	15060 11820v
0900-1200	Holy Koran	21495 17880 11785 9715
1200-1500	General Sce	15380 15230 15060
1200-1600	Holy Koran	15280v
1500-1700	Call of Islam	11950 11910 11780
1500-1700	General Sce	11950v 11910 11780
1600-1800	Holy Koran	11710v 9730
1700-1800	General Sce	11910 11780
1800-2200	Holy Koran	11935 9705v
1800-2200	General Sce	11935 9870 9555

(BBCM)

SEYCHELLES FEBA Radio to 25 October 1997:

0113-0158	Tamil	7350
0158-0228	Telugu	7350
0200-0215	Urdu	9785 Sa-Th
0200-0230	Urdu	9785 Fr
0215-0230	Punjabi	11695 Sa-We
0215-0230	Sindhi	9785 Sa-Th
0230-0245	Hindko	9785 Mo
0230-0245	Pushto	11695
0230-0245	Siraiki	9785 Tu-Th
0230-0245	Baluchi	9785 Fr-Sa
0245-0300	Dari	11695
0300-0330	Farsi	11695
0315-0345	Swahili	9820 Fr
0315-0400	Swahili	9820 Sa-Th
0345-0415	Arabic	11695 We/Fr/Sa

0345-0430	Arabic	11695 Su-Tu/Th
0400-0415	Portuguese	9420 Th
0400-0430	Portuguese	9420 Fr-We
0430-0500	Dari	15555 Fr
0500-0558	Tagalog	15555 Sa
0530-0600	Sinhala	15555 Fr
0800-0815	Oriya	15540 Th
0800-0830	Tamil	15540 Su
0800-0900	Telugu	15540 Sa
0800-0900	English	15540 Fr
0815-0900	Hindi	15540 Th
0830-0900	Malayalam	15540 Su
0900-0915	Kannada	15540 Sa
0915-0930	French	15430
0930-0945	Malagasy	15430 Sa-Su
1000-1058	Tagalog	15540 Fr
1100-1130	Arabic	15540
1130-1200	Afar	15540
1145-1200	Tsangla	15445 Sa
1200-1205	Creole	11675
1200-1230	Tibetan	15445
1205-1220	French	11675
1230-1245	Nepali	15445
1245-1300	Naggpuria	15445 Th
1245-1300	Mundari	15445 Fr-We
1300-1315	Kui	15445 Su/Tu
1300-1315	Oriya	15445 Mo
1300-1315	Bhili	15445 Fr-Sa
1300-1330	Tamil	9810
1300-1330	Oriya	15445 We-Th
1300-1330	Malayalam	11600
1315-1330	Bhojpuri	15445 Fr-Tu
1330-1345	Marwari	15445 Fr
1330-1345	Chattisgarhi	15445 Sa-Th
1330-1345	Gujarati	11600 Su-Th
1330-1400	Gujarati	11600 Fr-Sa
1330-1400	Sinhala	9810
1345-1400	Hindi	15445
1345-1400	Marathi	11600 Su
1345-1400	Punjabi	11600 Mo-Th
1400-1415	Urdu	11600
1400-1443	Urdu	9810
1415-1445	Bangla	15445
1415-1458	Hindi	11600
1443-1458	Urdu	9810 Su
1443-1458	Hindko	9810 Th-Sa
1500-1515	Tulu	7270 Th-Fr
1500-1515	Konkani	7270 Tu-We
1500-1515	Badaga	7270 Su-Mo
1500-1530	English	11600 Tu-Sa
1500-1530	Kannada	7270 Sa
1500-1545	English	11600 Su-Mo
1500-1600	English_network	9810 Mo-Sa
1515-1530	Kannada	7270 Su-Fr
1530-1545	Nuer	11675 Fr-Mo
1532-1547	Makondi	9795 Th-Mo
1545-1600	Dinka	11675 Fr-Mo
1600-1630	Amharic	9865 Fr-Su
1600-1630	Guragena	9865 Mo
1602-1617	Hazaragi	11600
1613-1643	Swahili	9810 Th

1613-1658	Swahili	9810
1617-1632	Dari	11600
1630-1700	Amharic	9865
1702-1732	Somali	11745
1702-1732	Somali	9810
1702-1747	Arabic	9440
1802-1832	Farsi	9455
1832-1847	Azeri	9455 Fr-Mo
1833-1848	French	9500 We
1833-1903	French	9500 Th-Tu

(FEBA web site)

SLOVAKIA AWR has resumed the evening English transmissions from Rimavska Sobota-SVK, but is now only 30 mins 2100-2130 on 6055 kHz incl. AWR Wavescan on Suns. Wavescan is now heard Suns at 0500 on 5905 kHz, previously during the second half hour of this transmission. (Barracough-UK/WDXC Contact/WWDXC/Bueschel-FRG)

AWR-Europe is testing on 13680 1400-1430 Eng and 1430-1500 Punjabi to India replacing 9465. Now evening transmission to S.Asia is :

0130	Nepali	9465
0200	Punjabi	11610
0230	Hindi	11610
0300	Urdu	11610
0330	England	11610
0400	Farsi	13715
1330	Dari	13580 Su
1430	Nepali	13580
1500	Punjabi	13580
1530	Hindi	13580
1600	Urdu	13580
1630	English	11600
1700	Farsi	11600

(15-Mar/Dasgupta-IND/DSWCI DX Window)

SOLOMON ISLANDS Solomon Islands Broadcasting Corp. "Radio Happy Isles"

0000-0730	9545 5020 1035
0730-1130	5020
1855-2000	5020
2000-2400	9545 5020

News in English at the top of most hours, plus relays of RA/RNZ/BBCWS news. (BBCM)

SOMALIA has a pipe into Maui. The numbers at the end represent how I would rate reception of these compared to the other Somalis. All of these (including Hargeisa) are USB, plus carrier.

6543.8 Holy Koran Radio *1500 (1600 Fri)-1800* Varies widely, also heard on 6534.8 and 6570, but usually here. Closing announcements and Koran before close. transmitter Fming on at least one day. 6732 Radio Mogadishu Voice of the Somali Pacification *1500 (1530? Fri)-? Always faded out before foreign language segments started. Steady here.

6822 Radio Mogadishu Voice of the Somali Republic Weakest of the lot *1600?-1800* seeming-

ly. Steady here. 6890 Voice of the Masses of the Somali Republic *1500 (1600 Fri)-? Co-channel PRC at first, but clear by 1700 when they seem to have news in Somali.

7537.7v Radio Hargeisa, a station I have dreamed about since 1976. Heard as early as 1640 fade in and usually till 1800* Ided by Valko one morning as Radyo Hargeisa and about a million mentions of Somaliland (the only time I slept during the whole Dxpediton) This one is constantly drifting and was as high as 7539 by sign off. There is also a steady het on 7535.4 so watch out. This guy is USB and carrier and is drifting rapidly, one had to constantly retune. (Valko + Johnson-HI/Cumbre)

SOUTH AFRICA The Stocks and Funds network was still not on the air in March. In Febr the company has not registered with the Atlanta Business Licencing Dept. Jerry Hoffman, station owner, was given a two year prison sentence in 1971 for a \$1 million fraud involving mortgage payments and barred from security actions in New York. He was declared bankrupt four years later. The company was evicted Jan 15th from studios at the Protestant Media Centre by court order for non payment of rent. Hoffman claimed Febr 20th they would be on the air in "a couple of weeks". (RNNM/WDXC Contact/WWDXC/Bueschel-FRG)

SPAIN The new schedule of Radio Exterior de Espana:

0000-0100	Spanish	5970 6125 9540 9620 9745 11815 11880(Su-Mo) 11945
0000-0200	English	6055
0100-0200	Spanish	3210 5970 5990(Th-Sa) 6125 9540 9620 11945
0115-0145	Sefardi	11775 We
0200-0400	Spanish	3210 5970 5990(Th-Sa) 6055 6125 9540 9620
0400-0500	Spanish	6055 6125 9540 9620
0415-0445	Sefardi	9690 We
0500-0556	English	6055
0500-0700	Spanish	7275 9650 9760 11890 11920
0800-0900	Spanish	12035
0900-1000	Spanish	9620(Su) 12035 15110 17715 17755
1000-1100	Spanish	9620B 12035 15110 17715 17755
1100-1200	Spanish	3210(Mo-Fr) 9620(Su) 9630(Mo-Fr) 11815(Mo-Fr) 12035 15110 17715 17755
1200-1300	Spanish	3210(Mo-Fr) 9620(Su) 9630(Mo-Fr) 11815(Mo-Fr) 11910X 12035 15110 17715 17775 21570
1300-1400	Spanish	3210(Mo-Fr) 9620(Su) 9630(Mo-Fr) 11815 11910X 12035 15110 17715 17775 21570

1400-1600	Spanish	5970(Sa-Su) 9620(Su) 11815(Sa-Su) 11880(Sa-Su) 12035 15110 17715 17775 21570	1600-1650	English	6170 7225
			1600-1755	German	9655
			1700-1750	Persian	9575 11705
			1800-2000	German	9655
1600-1700	Spanish	5970(Sa-Su) 9620(Su) 11815(Sa-Su) 11880(Sa-Su) 12035 15110 15210(Mo-Sa) 17715 17775 21570	1900-1950	English	7250 9670
			2000-2050	Portug.	7250 9670
			2000-2155	German	9655
1700-1730	Russian	9620 Mo-Fr	2100-2150	English	9670 11785
1700-1800	Spanish	5970(Sa-Su) 6140(Sa-Su) 7275 11815(Sa-Su) 11880(Sa-Su) 17715 17755 21570	2200-2250	Indones.	5980
			2200-2355	German	9715
			2300-2350	English	7235
			2300-2350	English	5980 7235
			(Bueschel-FRG/WWDXC)		
1700-1900	Arabic	15110	SWAZILAND Trans World Radio sked through 26th		
1730-1800	German	6125 Mo	October:		
1800-1900	French	6125 Mo-Fr	0300-0330	Ndebele	3200
1800-1900	Spanish	5790 6140(Sa-Su) 7275 9745 11815 17755 17805(Sa-Su) 17870	0300-0330	Swahili	4760
			0300-0345	Shona	3240
			0330-0345	Swahili	4760 Sa
1825-1855	Sefardi	6130 Mo	0333-0404	Amharic	7215M Sa-Su
1900-2000	Spanish	5970 6140(Sa-Su) 7270 7275 9630 9745 11815 17805(Sa-Su) 17870	0333-0404	Oromo	7215M Th-Fr
			0333-0404	English	7215M Mo-We
			0400-0415	Lomwe	6100
1900-2000	French	6045	0400-0430	German	4775 3200-(not Jun/ Jul/Aug)
2000-2100	English	6125 11775 Mo-Fr			6040
2000-2200	Spanish	5970 6140(Sa-Su) 7275 9630 9745 11815 17805(Su) 17870	0400-0430	Chewa	6040
			0430-0500	Chewa	6040
			0430-0500	Tumbuka	6040 Tu/Fr
2000-2200	Arabic	6045 7270	0430-0600	English	6070 4775 3200
2200-2300	Spanish	5970 6045 7270 7275 9630 9745 11815 11880	0600-0700	Freq	11730 9650 4775
			0600-0700	English	11730M 6100
2200-2300	English	6125 11775 Sa-Su	0700-0735	Freq	9650 4775
2300-2400	Spanish	5970 6125 9540 9620 9745 11815 11880 11945	0735-0805	Freq	9560 9500 6100 4775 Sa
					15195
2300-2400	French	6055	1400-1415	Urdu	15195
			1420-1425	Portuguese	7315 Mo-Fr
X=via Xian, China B=via Beijing, China (REE/ WWDXC/Bueschel-FRG)			1440-1510	Portuguese	7315
			1440-1510	French	7200
SRI LANKA Deutsche Welle Trincomalee Z97 sched- ule:			1510-1525	Makua	7315
0000-0059	Russian	9640 11705	1510-1555	Malagasy	7200
0000-0200	German	9795	1525-1540	Lomwe	7315
0100-0150	Bengali	9615 11965	1528-1543	Yao	7265M
0200-0250	English	9615 11965	1540-1555	Tigrigna	9500 Su/Fr
0200-0300	German	9795	1540-1555	Lomwe	7315 Mo-Th
0600-0650	English	17820 21680	1543-1558	Sena	7265M
0600-0800	German	21640	1600-1630	Kirundi	9850M
0800-0955	German	21640	1600-1630	Tshwa	5965 3240-(not Sat/ Sun)
0900-0950	English	17715	1600-1630	Chewa	5965 We-Mo
0900-0950	Persian	21695	1600-1630	Portuguese	3240 Sa-Su
1000-1050	Chinese	15185 21640	1600-1630	Tumbuka	5965 Tu
1000-1200	German	17845	1600-1830	English	9500
1100-1125	Indones	11705 17820	1630-1645	Shangaan	3240
1200-1355	German	17845	1630-1700	German	3200
1230-1300	Japanese	15225 17820	1630-1700	Oromo	9850M Mo-Sa
1330-1355	Chinese	11835 17820	1630-1700	Borana	9850M Mo
1400-1425	Indones.	9535 11865	1640-1655	Somali	9650M
1400-1600	German	9655	1700-1730	Tigrigna	9850M
1430-1515	Urdu	6170 7225	1700-1800	Swahili	5965
1515-1600	Hindi	6170 7225	1730-1745	Pedi	3200 Sa-Su

1730-1745	Sotho	3200 Fr	0700-0730	Italian	9885 11860 13635
1730-1800	Amharic	9850M	0700-1000	French*	6165
1745-1800	English	3200 Mo-Fr	0730-0800	German	9885 11860 13635
1800-1815	Swahili	5965 Sa-Su	0830-0900	Italian	9885 13685 17515
1800-1830	Ndebele	3240	0900-0930	English	9885 13685 17515
1800-2015	English	3200	0930-1000	French	9885 13685 17515
1810-1825	Kinyarwanda	9850M Sa	1000-1030	German	9885 13685 17515
1830-1900	Shona	3240	1000-1030	English*	6165 9535
1830-1900	Nupe	9510M	1030-1100	Portuguese	9885 13685 17515
1845-1900	Umbundu	6115	1030-1100	German*	6165 9535
1900-1915	Ndau	3240	1100-1130	English	13635 15414 17515
1900-1915	Portuguese	6115	1100-1130	French*	6165 9535
1900-1915	Lunyaneka	6115 Sa	1130-1200	Italian*	6165 9535
1900-1915	Kikongo	6115 We-Fr	1130-1200	French	13635 15414 17515
1900-1930	Lingala	9525	1200-1230	German	13635 15414 17515
1900-1930	Yoruba	9510M	1200-1300	English*	6165 9535
1900-1930	Portuguese	6115 Su	1230-1245	Italian	13635 15414 17515
1915-1930	Luchali	6115 Sa	1300-1330	English	7230 7480 13635 15120
1915-1945	Portuguese	6115 Mo-Fr	1300-1500	Italian*	6165
1930-1945	Chokwe	6115 Su	1330-1400	French	7230 7480 13635 15120
1930-1945	Kafunga	6115 Sa	1400-1430	Italian	7230 7480 13635 15120
1930-2000	Fulani	9510M	1430-1445	German	7230 7480 13635 15120
1930-2000	French	9525	1500-1530	French	12075 13635 15530
1945-2000	Kimbandu	6115	1500-1730	German*	6165
2000-2005	Portuguese	6115 Mo-Fr	1530-1600	German	12075 13635 15530
2000-2015	French	9525 Sa-Su	1600-1630	English	12075 13635 15530
2000-2030	Hausa	9510M	1645-1700	Italian	9885 12075 13635
2030-2057	Twi	9510M	1700-1800	Arabic	9885 12075 13635
2100-2130	Arabic	7215M	1730-1800	German*	6165 9905
2130-2145	Arabic	7215M Su	1800-1815	French	9885 12075 13635
			1800-1830	Italian*	6165 9905
			1815-1830	German	9885 12075 13635
			1830-1845	French*	6165 9905
			1845-1900	Italian	9885 12075 13635
			1845-1900	French*	6165
			1900-1930	English*	6165
			1900-2000	Arabic	9885 12075 13635
			1930-2000	Romansch*	6165
			2000-2030	English	9885 12075 13635
			2045-2100	Italian	9870 9885 9905 11640
			2100-2130	French	9870 9885 9905 11640
			2130-2200	German	9870 9885 9905 11640
			2215-2230	French	9885 9905 11650
			2230-2300	German	9885 9905 11650
			2300-2330	Italian	9885 9905 11650
			2330-2400	Spanish	9885 9905 11650

M=via Meyerton (BBCM)

SWEDEN Radio Sweden in English:

1730-1800	9590 13800 Su
1730-1830	6065 13800 Mo-Sa
1930-2000	6065
2030-2100	6065 13625 Sa/Su
2130-2200	6065 9430

(direct)

SWITZERLAND Swiss Radio International, through 25-October:

0030-0100	German	6135 9885 9905
0100-0130	English	6135 9885 9905
0130-0200	Spanish	6135 9885 9905
0200-0230	French	6135 9885 9905
0230-0300	Spanish	6135 9885 9905
0300-0315	Italian	6135 9885 9905
0330-0400	German	6135 9885 9905
0400-0430	English	6135 9885 9905
0400-0445	French*	6165 9535
0430-0500	English	9905
0430-0500	French	6135 9885
0445-0500	Italian*	6165 9535
0500-0515	German*	6165 9535
0500-0530	Italian	6165 9885 9905
0515-0530	English*	6165 9535
0530-0600	French*	6165 9535
0600-0630	English	9885 11860 13635
0630-0700	French	9885 11860 13635

*=HS for Europe (direct)

SYRIA Radio Damascus is now back on 13610 kHz, Arabic 0600-1500.

Russian German French English 1700-0015 . Clan-destine st "Voice of Iraq" in Arabic noted till 0530 on v9950 kHz. (1-Mar/PanViewBUL/WWDXC/Bueschel-FRG)

TAHITI 15167v RFO-Tahiti still on, but weak even here with a pile of wire and an all water path. Congrats to those who have heard this at any distance recently. (Valko + Johnson-HI/Cumbre)

TAJIKISTAN Latest sked for Radio Tajikistan, Dush-anbe, external services:

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)

TANZANIA 5985 Radio Tanzania in Swahili noted here at 0350 and 1800. News at 1800. Reactivated or just not many reports on this one? (Valko + Johnson-HI/Cumbre) S/off 2100* (12-Mar/Clemiston/DSWCI DX Window)

THAILAND Radio Thailand now on new 9535, ex 7295, to Scandinavia EE 1900-2000, GG 2000, 2015 Fr, 2030 En, 2045 Thai. (2-Mar/Radio World/Van Oudheusden/EDXP 44/Padula-AUS)

6149.4 Royal Palace Station PRESUMED 1048 instrumental music, almost classical. Only fair, but clear. 3 minute long songs continued without a break. 1059 Very weak talk by woman, time pips but not sure if they were theirs. Blocked by *1100 KNLS on 6150. Improved by 1134 with light vocals, Carpenters tune, "A bridge over troubled waters", etc. 1157 brief talk by man (Thai) and then sax music (perhaps the King himself, I understand he is a sax player) and off at 1158. (Valko + JohnsonHI/Cumbre)

TURKEY Since 17/2, two transmitters at TRT's Cakirlar site are out of service, and TRT has temporarily stopped the SSB transmissions from Emirler (except English 6135 during 2300-0000), as well the Turkish program on 9460 to Europe during 2200-0800. Also, some programs have been transferred from Cakirlar to the Emirler site. Turkish on 15385 at 1700-1000 seemingly off. Night services in foreign languages are shortened to use a single transmitter only. German EMR 6035 LSB, English EMR 5965 LSB, French EMR 7240 LSB, are all OFF the air.

Turkish noted at 1800-2100 on 5980 6120 7110 9460 9560. Russian 1800-1900, Serbo-Croatian 1900-2000, both on 6135. German at 1830 on 5950 only, English follows at 1930 on 6000, French on 7255 and 7270 at 2030-2125. (25-Feb/Klink-FRG/BCDX/EDXP 44/Padula-AUS)

6900.09 Turkish Metrological Station (t) @ 0506 with Middle Eastern type chants. Into W anncr. Could copy this on Carolina 80M beam when my 40M dipole wouldn't hear it. The 80M Carolina Beam works better in most situations than anything I now have in the air. (18-Mar/Rippel/DSWCI DX Window)

7370 Turkish Police Radio 0745 Turkish songs, only one short announcement in Turkish at 0757 (9-Mar/Koutamanis/Cumbre)

UGANDA 4976 and 5026 are both on, but 5026 doesn't have English news at 0400 as listed. (Valko + Johnson-HI/Cumbre)

UNITED ARAB EMIRATES UAE Radio, Dubai, EE to Europe now 25 minutes: 1030 13675 (ex 13665) 21605 15395 17630; 1330 21605 15395 17630; 1600 11795 15395 17630 (2-Mar/Radio World/Van Oushusden/EDXP 44/Padula-AUS)

UNITED KINGDOM The BBC recently announced the successful completion of sale of its Home Service Transmission business to Castle Transmission Services for 244 million pounds. The proceeds of the sale will be invested in the BBC's transition to the digital age. Included in the deal are 500 staff and some 738 HST sites including equipment. The BBC is also proposing to privatise its World Service transmission business. Last November, Merlin Communications International, a management and employee buy-out team, was named as the preferred bidder for the WS business. The sale includes the WS program delivery service (67 staff plus access to the Bush House control room), WS transmission operations (270 staff) and operation and maintenance of seven overseas sites (but not the sites themselves which will be retained by the BBC and Foreign & Commonwealth Office), as well as four UK sites. The deal also includes commercial contracts for hiring out transmission capacity in the UK and/or overseas. (6-Mar/Matt Francis/EDXP 44/Padula-AUS)

The BBC Albanian FM relay has been discontinued, in favor of SW. BBC World Service is extending its SW broadcasts in Albanian following the closure of its FM relay yesterday (Sun 2nd March). The transmitter on Mount Dajti in central Albania was switched off after the declaration of the state of emergency throughout the country at 1630. From today there will be three daily SW transmissions to Albania from the UK and Cyprus. In addition to the usual transmissions at 0630 & 1800, the 1415 program, normally on FM only, is being switched to SW. Last month, the BBC extended the 1800 transmission from 30 to 45 mins on weekdays. BBC Albanian broadcast resumed in 1992 after 25 years off the air. The BBC Albanian Service can be heard at 0630 on 7210, 9915 & 11780; at 1415 15215 & 11680, at 1800 6050, 7210 and [cut off -AQ] (3Mar/AGDX/BCDX/EDXP 44/Padula-AUS)

BBC new frequency for GG to Europe 1630-1700 6010, parallel: 3955 1296 648. (2-Mar/Radio World/Van Oushusden/EDXP 44/Padula-AUS)

URUGUAY

4620H CV154, R. Centro, Cardona, Dpto. de Colonia, (3x1540) 1147 Ads, promo, Gloria Estefan mx and ancm: "Seguimoscompartiendo la manana

en radio" Good/Fair. (8Mar/Nigro-Uru/DSWCI DX Window)

4641H CW116, R.Agraria, Cerro Chato, Dpto. de Treinta y Tres, (4x1160) 1037 w/ ID in progress: "...R.Agraria, desde Cerro Chato, Uruguay". Anmct y male: "A partir de este momento cuando son exactamente las 7 - 37 minutos, ahora en R. Agraria, para todo el territorio nacional estamos dando comienzo a nuestro encuentro con la musica tipica y folklorica, juntos para compartirla aqui en el punto 1160 de su dial". Folk mx. (7-Mar/Nigro-Uru/DSWCI DX Window)

9595.1 R. Monte Carlo 0037 Thought to be this one with romantic folksounding vocals and announcements in Spanish by man and woman; seemingly an ad in there, too. Weak to fair level at first, though pounded by slop from BBC/9590 and (especially) Lisbon on 9600. Around 0050, suddenly dropped sharply in strength; still there after 0100 but completely unreadable. (16-Mar/Hill)

9650.2 CXA42, Em Cd de Montevideo, "la radio del carnava!l", most nights between 2300 and 0030 when buried by carrier. Tough to read, mainly due to "low key" speaking habits, especially when reading ads ("frases"). Totally devoted to the coverage of carnival "murgas" and their performances; not even international football /soccer/ matches will make them change their minds. (Klemetz-COL)

USA VOA Hindi 0030-0100 is now using 6170 7295(ex 9650) 9650-THA (ex 11835). The new 7295 is co-channel with Radio Malaysia and also often by Pakistan 7290. (15-Mar/Alok Dasgupta-IND/Padula-AUS/EDXP #45)

KNLS tentative sked thru 28-September:

0800-0900	English	9615
0900-1000	Russian	9615
1000-1100	Mandarin	9615
1100-1200	Russian	6150
1200-1300	Mandarin	7365
1300-1400	English	7365
1400-1500	Mandarin	9615
1500-1600	Mandarin	7355
1600-1700	Mandarin	7355
1700-1800	Russian	9615

(KNLS Web site)

For Z97, Japanese services from KWHR are listed:

0900-1030 Sat on 9930, 2200-2330 Mon-Fri on 17510, 1200-1300 Sun on 9930. Vietnamese programs are 1400-1430 daily on 9930. (23Mar/Coceani-IT/EDXP #45/Padula-AUS)

WINB, the mighty Christian voice of Red Lion, PA, operates thusly:

0000-0300	English	11950
1700-1900	English	15715
1900-2200	English	11740
2200-0000	English	11950

(BBCM)

Shortwave station WRMI in Miami, Florida has received a construction permit for a new antenna beamed to North America. The new antenna -- a rotatable log/yagi -- has two beam positions authorized by the U.S. Federal Communications Commission. The first position is an azimuth of two degrees, which is centered on Toronto, Canada, and will cover eastern North America. The second position is an azimuth of 284 degrees, which is centered on the city of Hermosillo in northern Mexico. This position will cover western North America, roughly from Vancouver to Mexico City.

Jeff White, WRMI general manager, says that work has already begun on the new antenna, and he's hopeful that it can be on the air within the next few months or so if all goes according to schedule.

The FCC construction permit also allows WRMI to add a second 50,000-watt shortwave transmitter in the future. The first priority, however, according to White, is getting the new antenna up and operating. WRMI is currently operating a 50,000-watt shortwave transmitter on the frequency of 9,955 kHz with a corner reflector antenna beaming 160 degrees from Miami towards the Caribbean and Latin America. With the addition of the new antenna, WRMI will be able to provide virtually complete primary coverage of the entire Western Hemisphere.

The station is owned by Radio Miami International, a privately-owned company which is not affiliated with any government, political or religious organization. It sells airtime to a wide variety of clients who produce information, entertainment, political, religious, and cultural programming. (21-Mar/White/DSWCI DX Window)

WWCR sked from 6-April thru 31-May:

Transmitter #1

0000-04003215 (-0405 Mo-Fr)

0400-10003210 (0405- Mo-Fr)

1000-230015685

2300-24009475

Transmitter #2

1200-0100 13845

0100-1200 5935

Transmitter #3

1300-2300 12160

1100-1300 7435

2300-1100 5070

Transmitter #4

1200-2300 9475

0100-1200 2390

2300-0100 7435

(WWCR Web site)

VIETNAM Voice of Vietnam now on 9840 and 15010 (ex 12020), 27 minutes, EE to Far East 1330; Africa 1600; Europe 1800 1900 2030; FF to Asia 1300; FF to Europe 1830 1930 2100. (2-Mar/Radio World/Van Oudheusden/EDXP 44/Padula-AUS)

I was able to monitor the following Vietnamese regional stations and I recorded most of the sign-on/off for them. The ids are my best guess, but if someone knows Vietnamese, I would be happy to share my tapes. 4677v *1000-1500* Lao Cau Poor modulation and just cuts the feed at sign off. // Hanoi 5924v from 1400-1500. 4739v *1200-1400* Son La, poor modulation. 5030 No chance to hear the reported Hmong service here, China dominates the freq with a weak Malaysia underneath. 5597v *10001500* Lao Cai // 6702 at times.// Hanoi 5924v from 1400-1500. Weak modulation. 6531 *1200-1400* Cao Bang Anthem type music at sign on. Modulation ok. 6548v *1030-1200* Yen Bai Anthem type music and alternating man and woman talking. Modulation ok. 6702v See 5597v. (Valko + Johnson-HI/Cumbre)

ZAIRE Radio Star has been renamed 'Voice of the People', noted on 5066 with news (also in French) 0430-0500 and 1500-1530. (8-Mar/Radio World/Van Oudheusden/EDXP 44/Padula-AUS)

5066 A radio station identifying itself as "Voice of the People" has been heard broadcasting from Bunia, in northeastern Zaire, using the same short-wave frequency (5066 kHz) used by the Bunia-based educational station Radio Candip (see below).

The following station identification in French was heard at 0430 on 18th Feb on 5066 kHz:

"Hello, dear listeners. Following is the local news from the Voice of the People broadcasting from Bunia, Ituri [northeastern Zaire] sub-region in the Democratic Republic of Congo. Bulletins will henceforth be broadcast from 1500 to 1530, resuming the following morning from 0430 to 0500" .

The town of Bunia is in territory controlled by the Zairean rebel alliance led by Laurent Kabila.

The radio's use of the name "Democratic Republic of Congo" further suggests that it is rebel-controlled or affiliated.

"Voice of the People" is the same name used by a radio which has been heard broadcasting on FM from

Goma, and is also similar to the pro-rebel "Radio of the People" station which has been heard broadcasting on FM from Bukavu in eastern Zaire.

Following the station identification in French cited above, "Voice of the People" from Bunia broadcast a five-minute news bulletin in French, followed by repeats of the same bulletin in Swahili, Lingala and vernacular languages.

The radio then broadcast music interspersed with local public service announcements. At 0528 the radio broadcast the following station identification for Radio Candip, Bunia, followed by detailed schedules of educational programming for Radio Candip:

"Following is the schedule for Radio Candip broadcasts from 16th February 1997, Monday to Saturday."

(Radio Candip is an educational station operated by the Centre d'Animation et de Diffusion Pédagogique - Candip - in Bunia. For a report that Radio Candip had come under Zairean rebel control in December 1996.) (BBCM monitoring research 18 Feb)

ZAMBIA Roger Stubbe of HCJB shed some light on plans for an expansion of the station's broadcasting activities in Africa in an interview with Ken MacHarg of the 'DX-Partyline' on 1/3. He said that an application was 'pending' for a 'middle-sized' station in Zambia. Possible languages for the station included Portuguese, English, French and possibly some Spanish as well as vernaculars. However, we shouldn't hold our breath- Stubbe indicated that things are moving very slowly, probably because of local sensitivities about basing an international SW station in the country. Although the privately-run 'Christian Voice' is already operating, its primary audience is domestic with programs in English only. Stubbe made reference to an application by another organisation in another country which had been in the works for some five years, and was still unresolved. (6-Mar/Francis-AUS/EDXP 44/Padula-AUS)

UNIDENTIFIED 2340 1137-1144 w/ CenAm ranchera ballads, Brief M/W drama type feature, then into marimba song. Faded quickly and did not come back in several checks. Probably 2x1170 harmonic. Maya de Barillas on 2360 was in very well at the same time, so good conditions into CenAm. (21-Feb/Moore) (21-Feb/Moore)

Pirate Radio Report

Chris Lobdell

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Hello and welcome to the April edition of THE PIRATE RADIO REPORT. I hope all of those of you who made it to the 10TH WINTERFEST in Kulpsville had a great time. I understand there were several FM and shortwave pirate signals to be heard throughout the festivities. Your editor hopes to be in attendance next year.

In this edition, we'll be presenting a book review on a new publication hot off the press co-authored by pirate veteran Andy Yoder.

Electra Radioship Project Is On Hold

As you may recall from earlier articles written in the subject that Allan Weiner in conjunction with Scott Becker was working on a radioship which was to be launched last winter. This project is currently on hold.

Anita McCormick, who is a friend of Weiner's, has told us that one of the major backers of the project was a preacher [no, not Brother Stair] that has been backing away from the deal. At the present moment they need about \$20,000 to \$30,000 US \$ to get the ship ready and on the air.

Your editor hopes to speak with Allan in the next few weeks, so hopefully I'll have some more information for the May issue of THE PIRATE RADIO REPORT.

Access To The Airwaves Due Out In April

The biography of Allan Weiner as told to Anita Louise McCormick should be out by the time your read this. We have to have a review for you no later than the June edition of this column.

Book Review

Pirate Radio Operations by Andrew Yoder and Earl T. Gray. [Loompanics Unlimited, soft cover, 1997, 364 pages].

Veteran author Andrew Yoder is no stranger to pirate radio. In 1990 he wrote *PIRATE RADIO STATIONS, Tuning In To Underground Broadcasts*. This book was the first to give a comprehensive history of shortwave pirate activity in North America. In 1996, Yoder's *PIRATE RADIO, The Incredible Saga Of America's Underground Illegal Broadcasters*, was published.

This book was basically an updated version of his first book and included information on pirate activity in other areas of the world. A CD was included which contained short audio clips from various pirates.

In Andrew Yoder's latest book, which is co-authored with the help of Earl T. Gray, the authors go beyond the history of pirate radio and take us into the mind of the pirate, into his studio and transmitter room and on location into the woods. If anyone out there was interested in setting up their own pirate station, this would be the book to help. The information is not technical, in that there are no detailed plans or schematics for construction of your own shortwave transmitter. That type of information will have to be found elsewhere.

There are chapters on outfitting a studio in which Yoder goes through the basics of telling us what a pirate studio should have for tape decks, mixers, turntables, microphones and how they should be located for ease of use.

Then there is a chapter for production. How do pirates put programs together? Yoder and Gray comment on various formats that range from a couple of guys playing music and BSing to the slick original comedy formats used by stations such as The Voice Of Laryngitis and K2000.

There is an excellent chapter on antennas. The techniques and formulas for building your own dipoles, verticals and the like are covered in detail, as is a chapter devoted to broadcasting on location in the woods, at a state park or behind your local K-Mart!

Yoder and Gray also give us a rather detailed behind the scenes look at the FCC, the equipment they use and DFing techniques employed in the past to track down pirates.

The book closes with a chapter on safety issues to make sure you don't electrocute yourself while tinkering with a transmitter. There are several reference lists in the back of the book to enable the reader to locate radio parts, tubes, etc as well as a complete list of North American and European maildrop addresses.

If you have more than just a casual interest in pirate radio, *PIRATE RADIO OPERATIONS*, is a book you should add to your radio collection. It can be ordered through Cabinet Communications, Box 642, Mont Alto, PA 17237. The price is \$18.00 plus \$2.00 shipping, PA residents please add \$1.20 sales tax. Be sure to tell them your read about the book here in THE PIRATE RADIO REPORT.

Radio Free Speech Calls It Quits!

Well, it was just a few months ago that Dick Pistek of The North American Pirate Relay Service [NAPRS] closed down after 4 years of operation, now we hear from Bill O. Rights that he will be leaving the air shortly. We'll have to say good-bye to the likes of Earl Pitts [not the accused CIA spy!] and the Reverend Holy Moley.

RADIO FREE SPEECH has been one of the most active stations over the past couple of years and has managed to make it to Europe, even though they only use 10 watts of power in the AM mode. Bill is currently airing his "Farewell Broadcast". If you hear it, the station will send you a special QSL in return. You can address your reception reports to either Box 109, Blue Ridge Summit, PA 17214 or Box 1, Belfast, NY 14711. This is one station that will be missed.

George Zeller To Speak In Toronto

Pirate DXpert, Monitoring Times editor and co-author of the annual PIRATE RADIO DIRECTORY will be a speaker at the ONTARIO DX ASSOCIATION'S convention in Toronto, Ontario. This will take place on May 3rd at the CBC Broadcasting Center, located across the street from the SkyDome and the CN Tower. For more information about this event, please contact Ken Alexander by email at: kena@interlog.com. [Info from Free Radio Weekly]

Loggings....

Gee, we only got one logging this month, from our friend down in Argentina, Gabriel Ivan Barrera, known affectionately as GIB to his DX friends. He heard New Zealand's KIWRADIO on 7475 kHz USB on 9 March 1997 at 0701 UTC s/on. Programming consisted of relays of ROCK-IT-RADIO and RADIO MARABU.

Reception was poor in Argentina until 0831 s/off.

Pirate Poll!

Don't forget to either drop me a post card or email me with a list of your top three pirates. Also, if you have a particular show by a pirate which stands out as a favorite of all time, mention that as well. The deadline for entries is June 1st, so write today!

Until next month, Happy Pirate DX! 

English Schedules

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Prepared March 28.

Albania: Albania has been in the news this past month. The country has been torn apart by riots caused by citizens affected badly by a failed pyramid scheme.

Radio Tirana was off the air for a few days in March due to the troubles in the country. Radio Tirana announced the following summer schedule for English broadcasts effective on March 30:

0145-0200 6115, 7160
0230-0300 6140, 7160
1845-1900 1458, 7270, 9570
2100-2130 1395, 7110, 9515

Further, we found the Web site of the Albanian Telegraphic Agency at <http://www.telpress.it/ata>. There are news stories by date, in English. If you have a decoder, ATA "prints" on 9133 kHz during the European morning and mid-day hours. The decoder settings are 50 baud and 500 Hz shift.

Australia: The Sydney Morning Herald of March 28 reports:

"The Government has agreed to a plan by the Minister for Communications, Senator Alston, to scale back Radio Australia to an English-language service delivered via the Palapa satellite and costing only \$3 million.

But while the decision will help the ABC meet the \$55 million funding cut imposed on it in last year's Budget and due to take effect on July 1, the national broadcaster still faces having to make substantial cuts to its domestic programming to meet the total savings."

Bulgaria: We have conflicting info for the MA service this summer as indicated by the "f" below. I would think the higher 11720 frequency would be used, but check it out for yourself.

North America:
0400-0500 11720/7480 9485
2300-2400 9435 11720/7480

East Asia:
1200-1300 13790

Europe:
1900-2000 9700 11720
2100-2200 9700 11720

(Bill Bergadano & Jim Frimmel)

Israel: Israel shifted to summer time in mid-March, and changed its frequencies March 30. Via Daniel Rosenzweig, the Kol

Israel English language broadcasts:

0400-0415 7465, 9435
1400-1430 15650, 12080
1900-1925 7465, 9435, 11605

Japan: Radio Japan's fiscal year ended March 31. Staff and program budget cuts are being implemented. The cause of all of this is the financing necessary for an international television service in Japanese and English.

Though the permanent RJ staffers will not be laid off, some or all freelancers will go. This includes Mari Kishi, the host of "Media Roundup". Another is a non-Japanese co-host of the weekday "Magazine Hour" shows.

The "Media Roundup" show ended March 23. "Magazine Hour" and the Saturday "This Week" shows will probably be affected as well. (tnx Ian McFarland)

Lithuania: Radio Vilnius' new sked eff 3/30 is 0030-0100 UT on 5910 (Jim Frimmel).

USA: Glenn Hauser's "WORLD OF RADIO" has new air times on WWCR. The entire schedule is: Thu 2030 15685, Sat 0530 5070, Sat 1130 7435, Sat 1300 15685, Sun 0730 5070, Sun 0900 3210, Sun 2330 5070, Tue 1230 15685. These air times are effective April 6. (direct)

WIIRI cancelled the UT Fri 2330 Cumbre DX show as it moves some programs around for the summer season.



After more than a decade of collecting English language schedule data and writing receiver control software, in March we closed this component of our business. Other obligations and time constraints made this decision necessary. Mark Fine (mfine@crosslink.net) of Fineware is continuing to provide schedules data via the Internet. No print version is available.

As we will not have the schedules data to continue this column nor the time to collect same, this is our last "schedules" column. Watch for an announcement from Dr. Harold Cones, NASWA's Managing Editor.

We continue to design Web pages for WWCR and other customers, and write for Australia's "Radio and Communications" magazine, Radio Netherlands and the WRTII.

Thank you for all your support these past years. I appreciate it.

<http://www.trsc.com>

QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010

RADIO ABC/DENMARK - QSL

Dear Ed Rausch

Thank you very much for your reception report concerning reception of the international service of Radio ABC which we are pleased to confirm.

Date of reception: Oct. September 18 1998
Time of reception: 0800 UTC
Frequency: 7370 kHz
Transmitter site: Bolshakovo, Krasningrad
Power: 120 kW

Remarks: Thanks for the report. The QSL card/Denmark is yours & picked up.

Radio ABC, P.O. Box 174, DK-8900 Randers, Denmark.
Tel: +45 86401222 • Fax: +45 86403522 • E-mail: mail@radioabc.dk

SPECIAL OFFER: Your QSL Editor is offering foreign postage stamps to use as enclosures with your reception reports. We are offering 600 stamps for \$5.00; 1300 stamps for \$10.00 or 2000 stamps for \$15.00. With each \$5.00 order we will include absolutely free at least 300 US stamps, most of them will be commemoratives. That's a total of 900 stamps for \$5.00; 1900 for \$10.00 or 2900 for only \$15.00. Please try to include two or three dollars extra for shipping costs. Thank you.....Sam.

ARMENIA: Radio Miternachtsgruss 15400 via Radio Intercontin-

* ental 15400 rcvd. 2 prepared cds. signed and stamped in 3 mo. after a f/up rpt. for \$1.00 v/s Paul Richter. Transmitter site is Kamo.

* (Kusalik-ALB). Radio Free Asia 7530 via Kamo n/d 2 page ltr. w/o site confirming receptions in 2 mo. Stickers rcvd. (Barto-CT). Voice of Armenia 9965 pink "50th Anniversary" cd. w/ personal ltr., schedule and postcard in 6½ mo. for 2 IRCs. v/s Mr. Levon Ananikian, Manager. (Mohr-

ASIATIC RUSSIA: Radio Nederland 7285 via mann. Petropavlovsk f/d cd. in 2 mo. (Barto-CT).

AUSTRALIA: Radio Australia 9710 via Shepparton f/d "Sunrise at Shepparton" cd. w/ sticker, calendar & schedule in 46 ds. (Weissborn-TX).

BELGIUM: Radio Vlaanderen International 13610 f/d "Adoration of the Magi" cd. w/ site in 47 ds. (Rogers-MA)

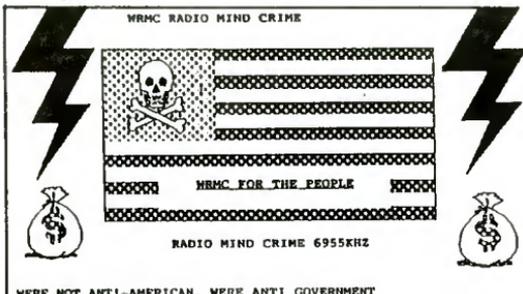
BENIN: L'Office de Radiodiffusion et Television du Benin 5025 via Parakou colorful p/d cd. in 3 mo. for a FR rpt. (Barto). 7210.2 via Cotonou same in 3 mo. (Barto).

BOLIVIA: Radio

Santa Cruz 6135 f/d ltr. w/ penant and sticker in 3 mo. for a SP rpt. and \$1.00 v/s Ma. Yolanda Marco E., Secretaria. (Maroti-NY).

Radio Fides 4845

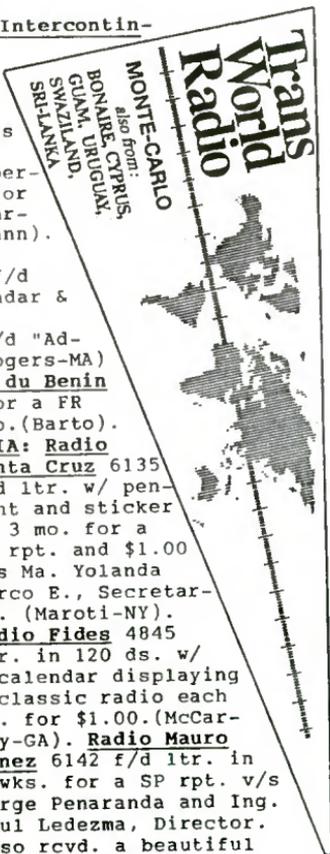
ltr. in 120 ds. w/ a calendar displaying a classic radio each mo. for \$1.00. (McCarthy-GA). Radio Mauro Nunez 6142 f/d ltr. in 5 wks. for a SP rpt. v/s Jorge Penaranda and Ing. Raul Ledezma, Director. Also rcvd. a beautiful poster. (Barto-CT).



THIS LETTER IS TO CERTIFY A 100% QSL TO THE STATION OF

Daniel C. Mc Carthy

THIS CONFIRMATION LETTER IS CONFIRMATION OF THE FIRST BROADCAST OF FREE RADIO
WRMC RADIO MIND CRIME





ZD7RSD



Radio ST HELENA

TURNS ME ON!

9900 f/d cd. in 182 ds. w/ personal note. (Brown-IL).

ENGLAND: VOA Woofferton 7170 f/d "Poudre River" cd. in 2 wks. (Maroti-NY). **Radio Canada International** 9555 f/d "50th Anniversary" cd. in 18 ds. (Rogers-MA).

ENGLAND (Pirate): Greater Manchester Celtic Radio 7375 f/d cd. in 82 ds. via the Merlin drop. (Kusalik-ALB).

ETHIOPIA: Voice of the Tigray Revolution

5500 and 7515 f/d ltr. w/ colorful postcard in 5 wks. v/s Fre Tesfamichael, Director. (Barto-CT).

EUROPEAN RUSSIA: Voice of Russia 7360 and 7400 f/d "Pushkin" cd. w/ personal ltr. and postcards in 2 mo. v/s Elena Frolovskaya. (Barto).

FRENCH GUIANA: Swiss Radio International 9905 f/d "Schaffhausen" cd. in 28 ds. (Brown-IL). **China Radio International** 13685

NOTES: Pedro M. C. de Castro from Brasil sent along some very fine QSLs and illustrations. He also edits a small column for DX

Clube Paulista. I guess you realize what we editors go through each month. Thanks for the pennant and sticker... Sam. Your QSL Editor is in need of current addresses for utility stations: WLO, WNU, CTP, SVB, GKB, OST and LPD.... Thanks.

VOICE OF THE MEDITERRANEAN
 St. Francis Reception Form - P.O. Box 143 Zetland, C.A.B. ST. HELENA
 Tel: 74000 74001 Fax: 741501

Dear Listener,
 Thank you for your reception report of our transmission
 on 9.11.96
 at 89.01 kHz
 frequency 7440-7380 kHz
 We are very glad to verify herewith your report.

MAHENDRA VAGHJEE
 SMC IRL
 BEAU BASSIN
 MAURITIUS

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

No. 3/196/EIII Dated 10.12.96

Dear Sir/Madam,

We gratefully acknowledge and confirm your Reception Report

Date 17.96 Frequency 4950 kHz
 Time 19.31 Station Radio Kashahr

Yours faithfully,
 Director (Freq. Assignments)

f/d "Terracotta Warriors" cd. in 59 ds. for a SP rpt. Also rcvd. calendar and a SP sked. (Weissborn-TX)

HUNGARY: Radio Budapestout of order. Hi!

9840 f/d "Floral" cd. in 3 mo. (Padula). f/d "Matthais Church" cd. in 97 ds. (Brown-IL).

GERMANY: Trans World Radio 7155 via **Julich** f/d

* cd. in 6 wks. (Padula). **Adventist World Radio**

9835 via **Julich** f/d cd. in 6 wks. (Padula).

Sudvestfunk 7265 ltr. in GM in 23 ds. (Buene-

man-MO). same in 65 ds. (Rogers-MA). **Radio**

Telefis Eireann 12055, 13820 and 15600 via **Julich** f/d multi-colored cd. w/ decal and ltr. in 2 mo. v/s Wesley Boyd, Director of Broadcasting Developments. (Barto-CT). 15600, 9815, 21550, 13820 and 12055 same as above in 2 mo. (Barto).

GUAM: KSDA 7455 f/d "25th Anniversary" cd. in 27 ds. for 2 ms. (Schwartz-NC). **Trans World Radio** 7465 f/d "Philippine Sea Sunset" cd. in 1 mo. for ms. (Schwartz-NC).

GUYANA: Voice of Guyana 3290 p/d ltr. w/ XMAS cd. in 5 wks. for \$1.00. v/s Indira Anandjit. Addr: P.O. Box 10760.

ICELAND: INBS 7735 and (Maroti-NY).

9275 f/d "Blue Lagoon" cd. in 6 wk

INDIA: All India Radio (Barto).

5010 via **Thiruvananthapuram** f/d

ltr. in 45 ds. for 2 IRCs direct

from the station. (Schwartz-NC).

ITALY: RAI 6005 f/d "Gian Lorenzo Ber-

nini" cd. in 10 mo. (Dacus-ARK).

JAPAN: Radio Canada International 11705

via **Yamata** f/d cd. w/ schedule &

sticker in 1 mo. (Barto-CT).

JAVA: Radio Republik Indonesia 9525

f/d "Tana Toraja" cd. in 2 mo.

for an IN rpt. (Barto-CT).

JORDAN: Radio Jordan 11970 f/d cd.

in 3 mo. after a follow-up rpt.



VERIFICATION OF RECEPTION

This is hereby to verify that

Mr. Mahendra Vaghjee

has correctly monitored the signals of
 The Central Broadcasting System of
 The Republic of China

in BEAU-BASSIN, MAURITIUS
 on 3335 KHz
 from 1453 to 1515 UTC
 on October 31, 1996





Bayerischer Rundfunk

via
Neal

for \$1.00. Station also sent a second QSL to make sure I got the first one! (name?)

KASHMIR: All India Radio 4950 via
* **Srinagar** "Brahmesvara Temple" cd.
in 175 ds. (Vaghjee-MAUR).

KAZAKHSTAN: Radio Almaty 9560 p/d cd. in
* 44 ds. v/s Bapiyeva Gulzhiyan. I think
the transmitter site is in the Ukraine.

LATVIA: Radio Latvia 5935 f/d (Paszkiwicz-WI).
f/d "Seasons Greetings" cd. in 48 ds. for 1
IRC. (Neal-TX).

LIBYA: Radio Jamahiriya 15415 cd. in 89 ds. for a
rpt. to the Malta address. Lytle-TX).

MALI: China Radio International 15110 via **Bamako** f/d
"Pagoda" cd. w/ site in 1 mo. (Maroti-NY). 9710 f/d
cd. in 44 ds. (Brown-IL).

MALTA: Voice of the Mediterranean 7440 and 7390 f/d leadlets, stickers &
cd. of "Mgarr Island" in 30 ds. for 1 IRC. (Vaghjee-MAUR)...Russia relay.

MEXICO: XERMx Radio Mexico Internacional 9705 cd. in 60 ds. w/ a personal

NOTES: Franz Schwartz Jr. from Wilmington, NC says DXing has been up and down over the
years. He is currently in an up stage. Good! Keep the reports coming in to the QSL
Column...Sam. Long time contributor **Marlin Field** in Hillsdale, MI has come to

the aid of **Carl Mann**. Use this address for re-
ports to KAIJ: KAIJ - Shortwave, Rt. 3,
Box 120, Frisco, TX 75034. Thanks
Marlin...Sam.

ltr., paper pennant,
schedule and stickers.
v/s Juan Mort. (Vaghjee).

MOLDOVA: Voice of Russia

7125 via **Kishinev** f/d
"Kosmos Hotel" cd. in 46
ds. w/ schedule and a per-
sonal ltr. v/s Mrs. Eugen-
ia Stepanova, Letters De-
partment. (Weissborn-TX).

* **Radio Moscow** 7105 via **Maiac**
f/d "Kremlin" cd. in 70 ds.
w/ personal ltr. v/s Olga
Troshina, RM World Service.
(Kusalik-ALB).

MONGOLIA: Radio Ulaanbaatar 9745

"Archery and Wrestling" cd. w/
personal ltr. in 45 ds. v/s

TO: *Henry Weissborn*

We wish to thank you for your reception report. We
have found it correct and hereby acknowledge it with this
thank-you card.

Date	Time UTC	Frequency kHz
5 Oct 96	0110	9745
6 Oct 96	0030	9745
7 Oct 96	0109	9745

We appreciate your interest in our program and invite you
to write again.

WORLD RADIO

John U...
Chm Volkhard - Director

Hotel QSLs overbooks the Pils

David O'Connor. (Vaghjee-MAUR). 12085 "Mongolian Horses"
cd. in 1 mo. (Padula-AUST).

NAMIBIA: NBC 3290 ltr. w/ schedule and postcard in 90 ds. for 1 IRC. v/s
P. Schachtschneider, Manager. (Vaghjee).

PALAU: Voice of Hope 9965 f/d ltr. w/ stickers in 150 ds. for 1 IRC. (Vagh-
jee-MAUR).

PHILIPPINES: Radio Veritas Asia 7105 f/d "Year of the Family" cd. in 2 mo.
w/ calendar and schedule for \$1.00. v/s Ms. Cleofe Labin-
dao. (Maroti-NY). 9505 via
Palauig f/d cd. w/ schedule
and brochure in 2 mo. (Barto).

RHODES: Voice of America 7115
f/d "Georgia" cd. in 45 ds.
(Neal-TX).

**RUSSIA: Radio Ukraine Internat-
ional** 5915 f/d cd. in 5 wks.
after a f/up rpt. via FAX.

* (Name?) **Islamskaya Volna** 9880
f/d "Kremlin" cd. in 71 ds.
for 1 IRC. Name means Islamic
Wave. (Kusalik-ALB).

KCHZ-FM & SW

Halloween Broadcast QSL

Confirming your reception of the 1996
KCHZ **Yukon Jack Halloween Special!**
October 31, 1996, 0200-0400 GMT

KCHZ-FM KCHZ-SW
104.7 MHz 6955 kHz/USB
250W ERP 500W ERP

Audio processing for both transmitters. Dorian
Optimod 8100A1 with X12 multiband compressor

THANKS FOR LISTENING!
via Lobdell

Jack
Jack Cheeseo - KCHZ (K-Chense)





Das Wort - die kosmische Welle

Postfach 5643 - 97016 Würzburg - Germany
Tel 0049/931/5903 0 Fax 3903 229

QSL CARD Number:

Thank you for your reception report of our transmission:

in 6. spc - from R. Ritzkow

on A. 12.15.75

at 1300-1430 UTC

freq: 4740

which is in accordance with our schedule.
We hope that you will continue to enjoy our program.

Edward Rausch
17 Vunderberg Pl
Cedar Grove, N.J. 07007

* **Radio Rukhi Miras** 12075 f/d "Pushkin" cd. in 71 ds. for 2 IRCs. (Kusalik-ALB)

SAINT HELENA: Radio Saint Helena 11092.5 cd. of ZD7rsd w/ map in 65 ds. for 1 IRC. (Vaghjee-MAUR)

SAIPAN: KHBI 9430 f/d "Antenna Array" cd. in 2 mo. for \$1.00. (Maroti-NY).

SAO TOME: Voice of America 4960 and 11975 f/d ltr. from v/s Charles Lewis direct from the site in 1 mo. for \$1.00. (Maroti-NY). f/d "River Rafting" cd. in 20 ds. (Ziolkowski). 11975 "Le Conte Glacier" cd. in 1 mo. (Padula-AUST). 7290

f/d "Niagara Falls" cd. in 5 wks. (Barto). 4750 f/d "Golden Isles" cd. w/ sticker and pennant in 1 mo. (Barto). 4750 f/d personal ltr. in 5 mo. for a rpt. direct from the site. v/s Manuel Neves, Transmitter Plant Technician who welcomes reports. Addr: Box 522, Sao Tome e Principe. (Lobdell-MA).

SOUTH AFRICA: Radio Nederlands 11655 via **Meyerton** f/d "Flevo" cd. in 4 wk * (Padula). **Channel Africa** 3345 f/d "Satellite Antenna" cd. in 6 wks. v/s Kathy Otto. (Padula).

SPANISH MOROCCO: Voice of America 9680 via **Breich** f/d "Colorado Rafting" cd. in 1 mo. (Padula).

SWAZILAND: Trans World Radio

4760 via **Mpangela Range** f/d cd. in 1 mo. (Barto-CT).

SWEDEN: Radio Sweden 11650

f/d "Lund" cd. in 41 ds. (Brown-IL). 11650 and 15240

Radio Misión Internacional

Frecuencias: 1480 AM - 5890 SW

Comunicando el Evangelio Completo!

Wayne Downs
Director

via Edward Rausch

15 de enero 1997
comayagua p c
gonduras c a

Muy estimado y fiel oyente, Edward Rausch recibes las mas altas bendiciones de nuestro gran señor Jesucristo. Estoy muy agradecido y al mismo tiempo emocionado, por ese reporte tan positivo, que confirma nuestra Señal en la onda corta. **SOY WAYNE DOWNS** pastor de la Iglesia y director de radio M I aquí en preciosa pnduras.

Te contare algo de gonduras de nuestro ministerio Misionero. **MISIONES INTERNACIONALES** es una Organización para el establecimiento de iglesias del Evangelio Trabajamos en Mexico, Asia, Sur America, Bolivia, parte de Africa, centro y America y los Estados Unidos, nuestra oficina esta en "San Bernardino California. El Misionero y presidente es el "summo James Planck estamos haciendo un esfuerzo para entrar en multitud de costas atlanticas de Nicaragua, con una "alcora del Evangelio completo este año 1997 podria no hemos terminado de construir la radio aquí en gonduras tenemos una Torre de 100 pies de altura por la "M por falta de fondos no lo hemos terminado todavía. Tenemos sistemas autorizados para transmitir en 5000 giga de potencia en la onda corta solo "estamos hablando con 200 watts por ciertas limitaciones que esperamos superar muy pronto. Espero que estas informaciones te motivan a interesarte en el Grupo de señores que oran por nosotros y nos apoya "conocivamente con lo que Dios puede bendecirte.

gonduras es un país de mas de cinco millones de habitantes, has del 65 por ciento Escucha la radio, los problemas son típicos y similares a otros países, familias divididas, mujeres solteras y abandonadas por falta de hombres fieles y responsables, hijos en la calle, y en los Bricos, Problemas económicos muy serios, bastante bosque y tierra que todavía no ha sido trabajada.

estoy enviando el Calendario de escritorio que espero que sirva para poder de acuerdo de nosotros, en sus oraciones y podemos mantener lasos de amistad a través de las Cartas.

Sinceramente,
Wayne Downs

VERIFICATION SIGNERS: Radio Andes

4777 Sr. Francisco Quisbert Salinas. Addr: Calle Final Uruguay, s/n, Casilla 16, Uyuni, Depto. Potosi. **Radio Brasil Central** 4985 Sergio Rubens. **Radio Esperanza** 6090 Eleazar H. Jara. Addr: Casilla 830, Temuco. **Radio TV Congolaise** 5985 Zaou Mounda. **Adventist World Radio - Costa Rica** 5030 Rosaura Barrantes B., Secretaria. **HD201A** 7600 Jose Olmedo Moran, Director. **United Christian Broadcasters** 6202 Graeme Wilson, Technical Manager. Addr: P.O. Box 255, Stoke on Trent, ST4 8YU, UK.

f/d "Reindeer" cd. in 16 ds. (Schwartz-NC).

TADJIKSTAN: Radio Free Asia

6240 via **Orzu** (presumed) n/d 2 page ltr. w/o site confirmation but confirming reception in 2 mo. Stickers rcvd. (Barto-CT).



**Radio México
Internacional
XERMX-OC**

TAHITI: RFO Tahiti 15167 f/d cd. w/ 2 stickers for \$1.00 in 136 ds. (Neal-TX).

TAIWAN: Central Broadcasting System 3335 f/d cd. in 35 ds. (Vaghjee). **WYFR** 9280 via **Paochung** f/d "Staff" cd. in 3 wks. (Barto-CT).

THAILAND: Radio Thailand 11905 via **Pathum Thani** f/d "Elephant" cd. in 82 ds. for ms. v/s Am-porn Samosorn, Chief. (Dacus-ARK).

TURKEY: Voice of Turkey 9655 f/d folder type cd. in 61 ds. for 1 IRC. Schedule and stickers rcvd. (Weissborn). 11810, 9560 and 9655 via **Emirler** f/d blue "Logo"

NOTES: Henry Lazarus reports from the Big Easy that he has received two QSLs from VOA - Sao Tome. One from the HQ in Washington DC and one directly from the site. Henry also says that he has directly benefitted with new QSLs by availing himself of our stamp enclosure offer. It was a medium wave station but we won't hold that against him. Hi! **Denis Pasquale** sent along another batch of foreign stickers. Thanks. They will be used in a future QSL Column.....Sam.

folder cd. in 3 mo. w/ schedule. (Barto-CT).

URUGUAY: CXA42 Emisora Ciudad de Montevideo 9650.0 f/d "Casa-pueblo" cd. w/ decal in 1 mo. for a SP rpt. v/s Aramazd Yizmeyian, Director General. (Barto-CT).

USA: WYFR 15355 f/d cd. in 5 wks. (Barto). 15565 f/d "Staff" cd. in 1 mo. (Barto). 17555 f/d cd. in 3 wks. (Barto). 11740 f/d cd. w/ schedule in 6 wks. (Barto). 5950 f/d cd. in 3½ wks. (Barto). f/d cd. in 1 mo. (Barto). 15565 f/d cd. in 1 mo. (Barto). 11665 f/d cd. in 5 wks. (Barto). **KXBT** 1630 via **Vallejo, CA** f/d



24 DECEMBER 1996
11905 kHz
0604-0624 UTC

**RADIO NEW ZEALAND
INTERNATIONAL**

wks. (Barto). **Voice of Free China** 5950 f/d "Maopitou, Kanting National Park" cd. in 1 mo. (Brown-IL). **Radio Free Asia** 7415 and 7550 (sites yet to be determined) n/d 2 page ltr. confirming reception in 2 mo. Stickers rcvd. v/s "The Staff"....This ltr. is slightly different from the one listed under Armenia. I get the feeling we will not get sites from these RFA guys. (Barto-CT).



USA (Pirates): Razorback Radio 6955 red paper QSL in 7½ mo. for \$1.00. v/s Ferrill T. Hogg. (McCarthy-GA). **WGLR** 6955 sheet QSL in 39 ds. (McCarthy). **X-Files Radio** 6957 QSL # 11 in 2 mo. via the drop. (Kusalik) **Polka Shortwave** 6955 QSL #36 in 13 mo. via their drop. (Kusalik). **Radio Eurogeek** 6956 QSL #31 in 2 mo. via drop. v/s Chuck Putz. (Kusalik). **Pirate Radio Boston** 6955 "Beavis & Buttthead" cd. in 37 ds. for \$1.00. v/s Charlie Loudenboomer. (McCarthy) **Radio KAOS** 6955 f/d QSL Certificate in 6 wks. for 3 ms. v/s Joe Mama. (Maroti-NY)...more madness to follow.

Radio México
Internacional
XERMX-OC
49 mts. 5385 kHz
31 mts. 9705 kHz

Up Your Radio Shortwave 6952 f/d color "Allan Sherman Project" commemorative sheet in 1 mo. for 3 ms. v/s Woody B. Serious. (Maroti). **KIWI Radio** 6955 via **NAPRS** f/d cd. in 15 ds. via the NZ addr. Station literature and stickers rcvd. v/s Graham Barclay. (McCarthy). **WRMC Radio Mind Crime** 6955 QSL sheet #9 w/ ltr. in 86 ds. Station says my rpt. was the furthest. (Kusalik-ALB). ltr. in 83 ds. for \$1.00. (McCarthy-GA). **6YVOS Voice of Smoke** 6955 f/d "Jerry Garcia" commemorative sheet in 16 mo. for a rpt. in ACE (I think?) (Paszkievicz-WI). f/d cd. of "Haile Selassie and the Lion Flag" in 1 yr. v/s Pig pen Marley. (Kusalik).

UZBEKISTAN: Radio Tashkent 5975 f/d "Map"

VERIFICATION SIGNERS: Kenya Broadcasting Corporation 4935 Martin Ouma Ojwach, Senior Supr. Electronics. Addr: Maralal Station, P.O. Box 38, Maralal...The v/s is interested in taped reports and suggests that they be sent to him and not to the standard Nairobi address. **Radio Mexico International** 9705 Juan Mort. **Radio Moldova International** 7500 V. Vasilica, Head of Department English Service. **NDC** 3270 P. Shachtschneider, Chief Engineer. **FRCN Ibadan** 6050 Dare Polarin, Principal Public Affairs Officer. **Radio Reina de la Selva** 5486 Jose David Reina Noriega, Gerente General.....via PLAY DX.....Sam.



CFRX-CFRB QSL

Thank you for sending us your reception report which we are pleased to confirm.

SHORTWAVE

8 070 MHz 49 metre band
Carrying CFRB's programs 24 hrs/day
1,000 watts - omni-directional antenna

HF AM 1910

1010 kHz mediumwave
50,000 watts - directional antenna

DATE: Dec 23/96

TIME: 06:00 - 06:15 ut

Signed: *Steve Cassidy*
Ontario DJ Association

Thanks Henry 93
Official QSL Manager:
Owen DE Radio/CFB
P.O. Box 181, Station A
Windsor, Ontario, Canada M9B 5Z8
(905) 876-8888 ext. 4012 2757 2759
Internet: 737373453@compuserve.com
Licensing: PSE 010-0700-9000
The DX Change Home Service (910) 444-7070
VA3XZ Receiver: 442-375 (405 516 T)
Smsd \$2.00 w/ 4 PCs to receive a sample
of our monthly magazine
Station Address:
CFRB Radio
1 St. Clair Ave. West
Toronto, Ontario, Canada M5V 1L8
Main Switchboard (416) 594 9311
CFRB Address Line (416) 872 CF78
CFRB Newsroom (416) 961 8717
CFRB Toll Service (416) 872-7070
Toll Free 1-800-561-CFRB
Fax (416) 373 5630

cd. w/ schedule and pin in 7 wks. (Maroti-NY). **Radio Nederland** 5905 via **Tashkent** f/d cd. in 2 mo. w/ schedule. (Barto-CT).

VANUATU: Radio Vanuatu 4960 f/d cd. in 1 mo. for \$1.00. (Myers-VA).

VATICAN: Radio Vatican 7305 f/d "Rotating Antenna" cd. in 2 mo. (Weissborn-TX).

VENEZUELA: YVTO 5000 f/d cd. w/ brochure and form ltr. in 6 wks. for a SP rpt. v/s Cn. Jose Fuentes Gortia, Director. (Barto-CT).

VIETNAM: Voice of Vietnam 9840 white cd. w/ "Map" and a greeting cd. in 55 ds. (Vaghjee-MAUR).

WEST IRIAN: RRI Wamena 4870.9 p/d "Dani Head Man" cd. in 11 mo. for an IN rpt. (Barto-CT). **RRI Merauke** 3905 f/d prepared cd. in 25 ds for an IN rpt. and ms. v/s Drs Tuanakotta S., Kepala Seksi Siaran. (Sgrulletta-NY).

YUGOSLAVIA: Radio Yugoslavia 9580 f/d "Map" cd. in 183 ds. (Brown 7230 blue and white cd. from the Listeners Club of RY in 2 mo. (Padula-AUST).

ZAMBIA: Radio Christian Voice 3328 p/d ltr. in 38 ds. for \$1.00. v/s B. Phiri. (Dacus). 3330 n/d form ltr. in 6 wks. for 2 IRCs. (Moore). same in 28 ds. for \$1.00. (McCarthy-GA).



La Voz Evangelica de Honduras

Apdo. en Tegucigalpa 3252 Tel. 34-3488 al 70
 Apdo. en San Pedro Sula 2336 Tel. 57-5030
 Honduras, Centro America Fax: 33-3933

Direccion Cablegrafica
VOZEVHON

Tegucigalpa H.D.C. 23 de Diciembre de 1996

Apreciable Oyente: Henry Jelskorn

Es un gusto para nosotros tener un contacto con usted a través de la correspondencia. Además de comunicarnos quisiéramos saludarlo y confirmarle la sintonía de H.R.V.C. LA Voz Evangelica de Honduras.

Los siguientes datos que nos sirven son los siguientes:

País: USA Lugar: Houston, Texas
 Simpo: 5267 Hora UTC: 05:10-5:55
 Programa: Platicando con el Sacerdote Fecha de sintonía: 11 de diciembre 1996

See you next month.... *Sam*

Scoreboard

Jerry Lineback
220 West Third
Garnett, KS 66032

Greetings and welcome to the SCOREBOARD. The SCOREBOARD is a quarterly feature of the NASWA JOURNAL. In it, DXers, from beginners to seasoned pros get to share their progress in the hobby. C/H = countries heard and C/V = countries verified. Country counts should be made according to the NASWA Radio Country List. You must update at least once a year to remain on the SCOREBOARD. When updating, please update all totals. The SPOTLIGHT this quarter is on Europe. Welcome to new contributors and thanks to all who support the SCOREBOARD by listing your totals. Next deadline is May 15 for the June issue. The Spotlight then will be on North America.

For those interested, I can be reached by E-Mail using
jalinebk@kanza.net 73 JL

Name, State	Total C/H	Europe C/V	Best European QSL C/V
Dan Henderson, MD	243	233 45	43 WMR Scotland
Marlin Field, MI	240	237 46	46 EMR 6235
Jerry Berg, MA	238	236 47	46 Polish Pathfind
William Flynn, OR	238	222 45	41 R. Dublin Int.
John Sgrulletta, NY	230	230 44	44 WMR Scotland
Steven Lare, MI	228	207 43	43 Karelo-Finnish
Nobuaki Takahashi, Japan	226	201 39	36 R. Andorra
Terry Palmersheim, WA	224	213 43	41 WMR Scotland
Richard A. D'Angelo, PA	220	213 45	44 Karelo-Finnish
Sheryl Paszkiewicz, WI	217	210 42	42 WMR Scotland
Paul Buer, FL	217	204 44	42 R. Dublin
Ron Howard, CA	215	200 34	34 RIAS Berlin
Niel Wolfish, Ont.	214	163	
Fred Kohlbrenner, PA	213	189 43	42 WMR via Andorra
Christos Rigas, IL	212	193 43	43 Petrozavodsk
Jerry Klinck, NY	212	189 34	33 R. Fax
Stephen E. Pitts, MN	207	196 38	37 Iceland
Jerry Lineback, KS	206	108 38	29 Andorra
Charlie Washburn, ME	204	163 41	39 R. Andorra
Stephen Price, PA	187	161 39	38 Sicily
Allan Loudell, DE	182	153 39	37 R. Minsk
John C. Eckert, PA	179	162 39	37 R. Stella Int.
Daniel McCarthy, GA	178	154 40	37 R. Dublin Int.
Ross Comeau, MA	175	142 41	38 WMR Scotland
Bill Bergadano, NJ	175	120	
Gary Froemming, AZ	175	43 38	14 RID Russia
Andy Rugg, Que.	173	155 43	41 NIRS 6273
Richard Hankison, KS	164	141 35	33 VoMed, Malta
Scott Helm, KS	163	115 36	33 DLR 106
Carl Radtke, WA	153	153 31	31 Albania
Philip Atchley, CA	151	104 30	27 Iceland
Dan Ziolkowski, NY	150	63 36	21 Iceland
Wally Peters, MN	142	114	
Bob Raymond, NH	137	110 33	31 R. Mayak Moscow
Robert E. Gearing II, FL	135	105	VoMed, Malta
Joseph P. Zobro, MI	130	94 35	32 Luxembourg
John S. Brown, OK	121	111 34	30 Poland
Jill Dybka, TN	112	84 32	28 R. Luxembourg
Gary R. Neal, TX	94	69 31	28 R. Croatia
Don Dacus, AR	65	31 26	19 R. Dniester
Kelvin Buechert, MB	50	20 25	10
Signee Hoffman, CA	39	28 15	12

Contributors' Page

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LOGGINGS CONTRIBUTORS-NEXT DEADLINE IS MAY 1st

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	AOR AR-7030 100' LW
Gabriel Ivan BARRERA, Buenos Aires, ARG	NRD-525 32m dipole
Michael BEU, Austin, TX	DX-160 Palomar Loop
Jerry BERG, Lexington, MA	R8 165' LW
Erik BUENEMAN, Hazelwood, MO	ATS-803A homebrew antenna
David CLARK, Thornhill, ONTARIO	R8A ANC-4 Carolina Beam
Ralph FAMULARO, Hyogo-ken, JAPAN	ICF-SW55 ATS-803A R5000 LW
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
Bill FLYNN, Cave Junction, OR	R8 DX-Ultra inverted V
Bob HILL, Holliston, MA	Sony 2010/whip 120' dipole RW Loop
Hans JOHNSON, Englewood, CO	R8 2-500' LW's
Harold LEVISON, Philadelphia, PA	R8 R70 YB400
Gigi LYTLE, Lubbock, TX	
Ken MALTZ, Syosset, NY	
Steve C. MARTIN, CA	
George MAROTI, Mt. Kisco, NY	Sony 2010 30' dipole MFJ-956 tuner
William McGUIRE, Cheverly, MD	DX-380
Kevin MURRAY, Holliston, MA	R8 AOR 7030 Beverage and loop antennas
Gary NEAL, Sugarland, TX	Grundig YB-400
Ed NEWBURY, Kimball, NE	WJ-1000 R8 60'Sloper 20' loop
Denis PASQUALE, New Brighton, PA	Sony 2010 beverage antennas
Stephen PITTS, Minnetonka, MN	NRD-535D FRG-7 Eavesdropper RW Loop
Ed RAUSCH, Cedar Grove, NJ	R5000 Sony 2010 MFJ-959 Eavesdropper
Jim RENFREW, Rochester, NY	R8 2010 MJF-959B A/D Sloper
Christos RIGAS, Wood Dale, IL	R2000 Sony 2010 and 2002 Sloper AN-1
Chuck RIPPEL, Comland, VA	R390A R8A R1051H SP-600 51S-1 LW's
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
John ROGERS, Belmont, MA	
Allan ROSEWARNE, Rolling Meadows, IL	FRG-8800 Eavesdropper
Mike RYAN, Bangkok, THAILAND	
Giovanni SERRA, Anzio, ITALY	NRD-525 AD Sloper
Mahendra VAGHJEE, Rose Hill, MAURITIUS	Lowe Europa 225E Sony 2010 LW ARA60
Henry WEISSBORN, Houston, TX	Grundig YB500 Drake SW-1 30' LW
Dan ZIOLKOWSKI, South Buffalo, NY	R8 Sloper SPS NRF-7 SEM QRM Eliminator

The 10th Winter SWL Fest has come and gone. More than 150 folks attended, and the usual great time was had. I enjoyed meeting many of you as you visited the NASWA table, and am already looking forward to next years gathering.

The deadline for next months contributions will be May 1st. Please remember to mail your contributions early. Items received after the deadline will be held over for the following month. The normal 10th of the month deadline schedule will resume in June.

73's till next month.



Tropical Band Loggings

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

- 2310 AUSTRALIA ABC 2/9 1045 EG tlc but poor (Buen-MO)
 2340t CHINA Fujian PBS 2/29 1251 CH tlc (Beu-TX)
 3220 SOUTH AFR Channel Afr 1/4 0319 sports, mx, ID (Serr-IT)
 3223 INDIA AIR Shimla EG 2/8 1656 instls, ID, nx //others (Serr-IT)
 3223 UNID 2/10 1313 flute sounded Indian, Shimla? (Pitt-MN)
 3232 SUMATRA RRI Bukittinggi 2/27 1450 rel pgm, mx, IS, nx (Vagh)
 3245 INDIA AIR Lucknow 2/27 1502 HD tlc, nx, ID 1515 (Vagh-MAUR)
 3260 PAPUA R Madang 3/14 1130 C&W, TC, ID (Raus-NJ)
 3265 SUMATRA RRI Bengkulu 2/27 1506 IN tlc, mx, long tlc (Vagh-MAUR)
 3270 NAMIBIA NBC 3/6 0315 US pops, EG nx cmtry, wx (Ripp-VA) 1/7
 2031 tlc, pops //3289.9 (Serr-IT)
 3280 ECUADOR LV del Napo 2/27 1023 tlc, mx, 1118 ID (Buen-MO)
 2/18 1030 ID, programa Cristiano, prayers, amigo song (Robi)
 2/22 0250* tlc, HC mx, ID, NA (Alex-PA)
 3290 GUYANA GBC Radio 3/4 0610 tlc, soul, jazz, fair (Buen-MO)
 tent on 3290.03 VOA pgm 0400 2/9 sev VOA pgms, no Guyana
 pgms, Guyana itself noted other times on 3290.03 (Alex-PA)
 3300 GUATEMALA R Cultural 3/4 0355 Thru the Bible, ID, read John
 3:16, Insight for Living (Buen-MO) 2/24 0240 US mx, ment
 Guat. in EG (Serr-IT)
 3305 NEW GUINEA R Western 2/22 1159* mx, drums, horn (Murr-MA)
 3315 ADMIRALTY R Manus 3/11 1120 EG preacher, ID (Raus-NJ)
 3315 INDIA AIR Bhopal 2/10 1327 SC mx, lang tlc, flute, ID (Pitt)
 3325 GUATEMALA R Maya 3/2 1027 rancheras, ID, ment Guat. (Buen-MO)
 3330 ZAMBIA Christian Vo 2/13 0415 EG gospel mx, jingle ID (Maro-NY)
 3/5 0444 ID, LSB full PBT got rid of 70% CHU on R8A (Ripp-VA)
 2/16 0400 EG anmts, FC, gospel mx, jingle IDs (Alex-PA) 2/22
 1812 chant, poor (Serr-IT)
 3335 NEW GUINEA R East Sepik 3/11 1120 PD PSAs, ID, pops (Raus-NJ)
 3335 TAIWAN CBS 2/22 1821 long tlc, poor (Serr-IT)
 3340 PERU R Altura 2/23 1100 Mx, ID 1104 (Beu-TX) 3/2 1104
 anmts, ID, folk mx, fair (Alex-PA)
 3345 INDIA AIR Jaipur 2/2 0028 instl, TP, anmts, nx (Serr-IT)
 3356 BOTSWANA RB 1/4 0340 pops, EG anmts (Serr-IT)
 3360 GUATEMALA LV de Nahuala 2/16 0304* anmts, marimba (Alex-PA)
 3365 INDIA AIR Delhi 1/14 1841* mx, anmts, ID, nx (Serr-IT)
 3375.4 BRAZIL RN Sao Gabriel 3/6 1025 TC, ID, FC (Raus-NJ)
 3376 BELARUS R Mayak 2/15 2232 jazz, IS, RS tlc, vcls (Hill-MA)
 3380 GUATEMALA R Chortis 2/16 0358* anmts, pops, IDs (Alex-PA)
 3385 NEW BRITAIN RENB 3/11 1100 preaching, drums, ID, nx (Raus-NJ)
 3390 SIKKIM AIR Gangtok 2/14 1200 ID, anmts, exotic mx, still
 testing, many EG IDs, nx, oldies (Ryan-THAI)
 3396 ZIMBABWE Radio 3 3/3 0314 TCs, Afr pops, ID (Ripp-VA)
 3439.9 UNID 2/23 0312 ballads, march, SP anmts, harmonic? (Hill-MA)
 3550h CUBA R Rebelde 3/2 0855 ballads, anmts //710, 5025 (Alex-PA)
 3635t SULAWESI RPD Buol Tolitoli 2/10 1427 poss IN tlc (Flyn-OR)
 3970 ENGLAND R Korea 2/23 1935 EG nx, ID, SW Feedback (Famu-JF)
 3976.8 KALIMANTAN RRI Pontianek 2/26 1110 tlc, tone IS (Murr-MA)
 2/18 1509 Jakarta nx relay, world datelines, QRN (Flyn-OR)
 4010 KYRGYZSTAN KR 2/2 1627 tlc, ID, mx, drama? (Serr-IT)
 4035 TIBET Xizang PBS 1500 EG pgm! ment pgms for overseas listeners
 to be hrd in future! (Ryan-THAI)
 4070 CLAND Vo Iraqi Kurdistan 2/8 0405 AR or KK, mx (Alex-PA)
 2/2 1647 hymn, Koran, strings, IDs, flute (Serr-IT)
 4120.1 CLAND Vo Peop Kurdistan 2/23 0403 AR tlc, fanfares, ME vcls,
 ment "sha'ab al-kurdistan" (Hill-MA) 2/8 0405 ME mx, tlc
 f-g (Alex-PA)
 4418.9 PERU R Bambamarca 1/26 0231 ads, msgs, ID, folk mx (Barr-ARG)
 on 4419.5 3/1 0405* tlc, folk mx, canned IDs, NA (Alex-PA)

3/4 0235 folk mx, concert promo, ID (Raus-NJ)
 4450.3 CLAND Vo Natl Salvation 1/19 1528 KR tlk/mx //4557 (Serr-IT)
 4460.8 PERU R Norandina 1/26 0246 folk mx, greet, ID (Barr-ARG)
 2/26 0353 Andes drums, mx, weak (Flynn-OR) Any Andes candies?
 4485 RUSSIA R Rossii 2/25 1900 RS nx, tlk //5290 (Ryan-THAI)
 4500 CHINA Xinjiang PBS 2/9 0021 tlk/mx, p-f (Serr-IT)
 4545 KAZAKHSTAN KR 3/9 0117 vcls in patriotic musical, anmt (Hill)
 4567.2 PERU R Gotas de Oro 2/26 0300 echo ID, huaynos (Maro-NY)
 4599.2 BOLIVIA R Villamontes 1/24 1040 ads, ID, QTH (Barr-ARG)
 4606.4 IRIAN JAYA RRI Serui 1055 Macarena, pop mx, IN tlk (Famu-JP)
 4649.9t BOLIVIA R Santa Ana 2/12 0015 march, ID, special for Shrove
 Tuesday? (Flynn-OR)
 4696.9 JAVA RKIP Surabaya 3/10 1307 nx, //RRI, NA, p-f (Famu-JP)
 4735 CHINA Xinjiang PBS 2/27 1535 drama, mx, nx (Vagh-MAUR)
 4740 TAJIKISTAN Vo Russia 2/18 1450 lang mx, IS, NA, EG nx 1500
 site tentative (Flynn-OR)
 4754 SULAWESI RRI U-P 2/27 1545 IN mx, IS, nx & off (Vagh-MAUR)
 4755 BRAZIL unid 2/2 0046 songs, anmts, TC (Serr-IT)
 4765 BRAZIL unid 1/18 0152 tlk, jingles, mx (Serr-IT)
 4770 ECUADOR Centinela del Sur 2/24 1120 SP love songs (Lytl-TX)
 4770 NIGERIA RN 3/6 2235 Brubeck, jazz, ute QRM (Famu-JP)
 4775 INDIA AIR Imphal 2/10 1337 tlk/vcls (Pitt-MN)
 4777 GABON RTV 3/4 2255 tlk, ment Gabon, lite mx in FR (Buen-MO)
 4780 ECUADOR R Oriental 3/2 1045 native mx, IDs (Buen-MO) 2/20
 1004 NA, anmts, ID, HC mx (Alex-PA)
 4790.5 PAKISTAN Azad Kashmir R 1/19 1609 nx, ID, chants (Serr-IT)
 4795 BRAZIL R Difusora 3/8 2304 EZL, rancheras, low audio (Hill-MA)
 4800.5h ARGENTINA R Armonia 1/24 1052 folk mx, ID (Barr-ARG)
 4805 BRAZIL unid 2/9 0041 Braz dance mx, ment Rio (Serr-IT)
 4815 BURKINA FASO RTV Burkina 2/17 2205 FR nx, ID, hilife, "Le
 Panorama de La Litterature Orale" (Maro-NY)
 4815 ECUADOR R Buen Pastor 3/13 0205* ballads, ID (Raus-NJ)
 4820 HONDURAS HRVC 3/4 0508 contemp Christian mx, sermon, IDs (Buen)
 4825 GUATEMALA R Mam 3/5 0455 on late w/story, mx, IDs (Buen-MO)
 4830.6 PERU R Lircay 3/1 2332 pres w/OA vcls, TCs (Hill-MA)
 4832 COSTA RICA R Reloj 3/6 0710 TCs, ID, pop mx f-exc (Buen-MO)
 4840 INDIA AIR Mumbai 2/10 1428 tlk/SC mx, TP, ID (Pitt-MN) 1/6
 1730* chorus, anmts, IDs (Serr-IT)
 4845.1 BOLIVIA R Fides 3/2 1050 tlk on phone, ID //6155, 9624.9 (Alex)
 3/15 0505* rancheras, ID, NA (Raus-NJ)
 4850 INDIA AIR Kohima 3/17 0140 diff IS, SC mx, ID (Raus-NJ)
 4850p UZBEKISTAN UR 2/15 0010 ME mx, tlk //7105 (Alex-PA)
 4860 INDIA AIR Delhi 2/17 0130 TP, ID, SC mx (Ripp-VA) 2/15 *0024
 IS, vcl, tlk lang, SC mx (Alex-PA) 3/17 0025 wailing, ID
 nx (Raus-NJ) 2/9 1743 Indian mx, tlk, anmts (Serr-IT)
 4870 BENIN ORTB 3/5 0600 FR tlk/mx p-f. Sent tape. (Buen-MO)
 4875 BRAZIL R Roraima 2/19 0314 rel, hymns, poss ID (Flynn-OR)
 1/11 0339 rel tlk, hymns, sermon (Serr-IT)
 4890 PAPUA NBC 3/3 1009 native mx, EG tlk, ment Pt. Moresby (Buen)
 4890.5 PERU R Chota 2/16 0418* anmts, rustic mx, ID, NA (Alex-PA)
 3/7 1133 nx during PNG xmsn break (Famu-JP)
 4895 INDIA AIR Kurseong 2/23 0057 IS, anmt, chorus, mx (Hill-MA)
 4900 CHINA Vo Strait 1/6 1601* CH pops, anmts, TP, ID (Serr-IT)
 4902 SHRI LANKA SLBC 1/12 0133 tlk, chant (Serr-IT)
 4904.5 CHAD RNT 2/22 1735 tlk/mx, ID, fair (Serr-IT)
 4910 ZAMBIA ZNBC 2/9 0409 hilife, IS, lang tlk, drums (Renf-NY)
 0350-0500 fair sig (Lytl-TX) Tnx Gigi--sp
 4915 BRAZIL R Anhanguera 1/18 0024 nx, TC, jingles, ID (Serr-IT)
 4915 GHANA GBC 1/17 1802 nx, ID in EG (Serr-IT)
 4919 ECUADOR R Quito 1/11 0404 nx, TC, anmts, ID (Serr-IT)
 4924t BOLIVIA R San Miguel 3/3 1015 lots of tlk (Famu-JP)
 4927 SUMATRA RRI Jambi 2/10 1436 Special Ramadan pgm, SCI (Flynn)
 4935 KENYA KBC 2/27 1705 EG rel on divorce, mx, ID, ad (Vagh-MAUR)
 4944.9 BRAZIL R Difusora 2/23 2316* tlk, sfx, ID (Alex-PA) nice one
 4950 KASHMIR AIR Srinigar 2/27 1730 EG sked, into HD, muslim song
 ID (Vagh-MAUR)
 4976 UGANDA RU 2/24 0405 EG nx not //5026, good (Clar-ON) 2/16
 0355 Afr pops EG/lang anmts, EG nx, ID (Alex-PA) 2/27 1743
 long list of names, press conf rpt, football scores (Vagh)
 4980 VENEZUELA Ecos del Torbes 3/2 0950 "La Musica de Venezuela"
 pgm, IDs (Buen-MO)

4985 BRAZIL R Bras Central 1/18 0109 songs, jingles (Serr-IT)
4990.9 PERU R Ancash 3/1 0504* anmts, ID, OA mx, exc (Alex-PA)
5005.6 PERU R Jaen 2/6 2350-0011* tlk, OA mx, fair (Alex-PA)
5009.5 MADAGASCAR RM 2/16 *0259 drum IS, ID, poor (no name) 3/1
*0256 IS & muddled tlk, mx (Renf-NY) 2/23 *0255 IS, NA
ID, chorus, prayer, sermon (Alex-PA) 3/5 *0255 IS on xylo,
NA, ID, tlk (Ripp-VA) 1/30 1810 chants, tlks (Ryan-THAI)
5019 COLOMBIA Ecos del Atrato 2/16 0118 tlk/mx, ment Quibdo (Renf)
2/24 0405 ballads (Serr-IT)
5019.9 PERU R Horizonte 3/1 0125* Andean mx, rel tlk (Alex-PA)
5020 SOLOMON SIBC 3/15 1115 pop mx, trop disturbance warning for
Guadalcanal Prov. ID (Raus-NJ)
5030 CHINA CNR 1/20 2140 CH mx, anmts, poss ID, jingles, tnx Hill
(Serr-IT)
5030.1 COSTA RICA AWR 2/24 0343 rel story, chorus, ID (Serr-IT)
5035 UZBEKISTAN R Tashkent 1/15 2030* GM pops, ID (Serr-IT)
5035.1 BRAZIL unid 2/24 0322 phone calls, mx, poss ID (Serr-IT)
5040 UZBEKISTAN R Tashkent 2/23 0112 EG interview //7105, 7285(Hill)
2/4 *1430 IS, ID in CH, Uzbek mx, *1530 in lang (Ryan-THAI)
5050 INDIA AIR Aizawl 2/4 1730 EG nx to 1735* (Ryan-THAI)
5050 ECUADOR R Jesus 2/16 0334 w/Super Poder slogan (Renf-NY)
3/9 0822 mx, big ID w/Francisco Stereo (Berg-MA)
5054.9 FR GUIANA RFO 1/8 0256 pops, nx, ID, tlk (Serr-IT)
5055 PAKISTAN RP 2/22 *1430 IS, recit, ID, fair (Famu-JP)
5075nf CHINA Vo Pujiang 2/26 1325 ment Deng Hsiao Ping, speech (Famu)
5163 CHINA CNR 3/2 1135 CH tlk, good //weak 6890 (Alex-PA)
5385.2 PERU R Huarmaca 2/23 0302* anmts, IDs, folk mx, NA (Alex-PA)
you get xtra points for spelling it right--sp
5498 PERU R Lajas 2/11 0102 fast tlk ment Moyobamba, ID (John-CO)
5500 CLAND Vo Tigray Rev 2/9 0355 IS, slogan, ID (Renf-NY) 2/7
1601* 3 speakers in lang, brief mx, anmts (Flynn-OR) 2/16
*0356 IS, lang tlk, folk mx (Alex-PA)
5560.6t PERU R El Sol 2/11 0055 pops, tlk (John-CO)
5619.2 PERU R Ilucan 2/23 0015 echo anmts, OA mx, IDs (Alex-PA)
5645.9 PERU LV de San Antonio 1/26 0218 greet, ID as R San Ant. (Barr)
5700 PERU R San Ignacio 3/3 0230 ballads, ID, good (Ripp-VA)
5775.2 PERU R San Juan 3/3 0330* ballads, ID, NA (Raus-NJ)
5860 ECUADOR HCJB 3/6 0816 Woman to Woman pgm, promo, ID (Buen-MO)
5890 GERMANY R Vilnius Relay 2/16 *0000-0100* GM into EG Press
Review, strong (Renf-NY)
5890 USA R Marti 2/9 1105 SP nx, features, IDs, test? (Buen-MO)
5895 CROATIA Croatian R 2/17 2300 EG ID, nx, into Croatian (Robi-TN)

Thanks to all including first time contributor GIGI LYTLE. This column should give you plenty of target stations to go after. Next deadline in Manitowoc will be April 18. Hope everyone had a Happy Easter.

This month we had contributions from 11 states, 1 Canadian province & 4 countries. I'm surprised at some of the LA stations that are being hrd in the evening.

FOR SALE: 1962 National Radio NC-190 general coverage receiver (with manual), has both Ham and International Broadcast bandsread fine tuning feature. I'm the second owner, and this classic tube set is in very good working condition. I hate to part with it, but I'll sell it for \$175 including shipping in the 48 states. Call Rick Bowers at (908) 654-1580 (evenings or weekends) or email to <rickbowers@worldnet.att.net>.

International Band Loggings

Wallace C. Treibel
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- 5930 CZECH REPUBLIC R Prague in EG 0005, IS, ID, sked, nx (Rosenware IL 2/17, McGuire MD 3/4)
- 5960 CANADA Deut Welle relay in EG 0130, rpt on Kurdish refugees in Germany (Newbury NE 2/27)
- 5970 COSTA RICA RE Espana relay in SP 0356, tk, ID, s/off, splash from BBC 5975 (Buенeman MO)
- 5958S MYANMAR RM in Bamar? 1233, tk, local songs, f until BSB Thailand *1300 (Famularo JP 2/16)
- 6035 BELGIUM RVI in EG/DT/FR 1004, nx, sports, wx, press review, ID, pop mx, fqys (Serra IT 1/18)
- 6045 INDIA AIR Delhi in Nepali 1418, trad vocal, ID, nx items, f (Famularo JP 3/10)
- 61109v MOZAMBIQUE RM Maputo in PT 0310, pop vcls, anmts, QRM requiring USB (Clark ONT 3/2)
- 61156 COLOMBIA LV del Llano in SP 1010, ads, tk, ID, fqys, fair sig with het (Ziolkowski NY 2/20)
- 6130 LAOS Lao Nat R in lang 1135, vcls, tk, 7 gongs 1159, ID, g with 50 deg Bev (Murray MA 2/26)
- 6180 CYPRUS BBC relay in EG 2135, rpt on international banks & multi-nat cos., f (Fraser MA 2/17)
- 6270nf ALBANIA R Tirana in EG 1950, Alb folk mx, ID, NA 1956*, hrd before unrest (Famularo JP 2/23)
- 64798 PERU R Altura in SP 0230-0340+, tk, OA folk mx, pops, echo anmts, QRM (Alexander PA 2/23)
- 7100 IRAN VOIRI Teheran in FR 2234, xmsn skeds, suddenly off 2240, //6030, 9022 (Hill MA 3/8)
- 7150 SLOVAKIA RSI in RS *1830, multi-lang ID's, IS, nx, f-g (Famularo JP 2/20)
- 7180 UKRAINE RUI in EG 0100, rpt on new agreement between Georgia & Ukraine (Pasquale PA 2/19)
- 7210 QATAR QBS in AR *0243-0300+, s/on anmts 0245, tlks, into Koran 0248 (Alexander PA 3/2)
- 7215 IVORY COAST R Cote d'Ivoire in FR 0630, catchy Afro mx, ID, phone-in, f (Newbury NE 2/26)
- 7235 KAZAKHSTAN R Almaty in RS 1635, piano mx, tk, class mx, ID (Vaghjee MAURITIUS 1/30)
- 7250 INDIA(GOA) AIR in Nepali *0127, many IS before 0130 ID, mx, tk, //9550 (Renfrew NY 2/16)
- 7265 GERMANY Sudwestfunk in GM 2038, continuous pop tunes, ID, pips, nx (Ziolkowski NY 2/15)
- 7300nf TURKEY V of Turkey in TK/EG *0355, IS, into EG 0400, sked, ID, nx, ex-7100 (Alexander 2/8)
- 7325 AUSTRIA RAI in EG 0044, cmntry on Ping's death and future of CH & Hong Kong (Newbury NE)
- 7365 VATICAN STATE Vatican R in Lithuanian *1820, IS, ID, YL with nx (Famularo JP 2/20)
- 7390 BULGARIA R Bulgaria in EG 2237, econ rpts on ties w/Russia, ID (Famularo JP 3/11)
- 7455 GUAM KSDA AWR in CH 1116, sermon, lyrical song, piano mx, IS, ID/fqy in EG (Serra IT 1/26)
- 7520nf GEORGIA V of Hope Dusheti in EG 2013, "Audio Prophecy Digest", UK address, mx, couple of xmtr outages, into "Unfolding the Gospel" 2032, s/off 2102 after anmts, f-g (Berg MA 3/8)
- 8638 AUSTRALIA VNG Llandilo Time Stn 1015, time sigs, ID in Morse code, f-g (Buенeman MO 2/19)
- 9022 IRAN VOIRI Teheran in EG 0049, nx, econ relations w/Morocco, ME mx, //9685 (Newbury 2/27)
- 9025v SUDAN V of Sudan in lang 0415, tk, ME type mx, weak but good on //8000 (Alexander PA 2/8)
- 9200 SUDAN R Omdurman in AR 0320, tk in lang, ID (Rippel VA 3/3) in AR 2020-2301*, Koran, talk, mx, "Sudan" ID? 2030, NA, //71999 (Renfrew NY 3/3, Alexander PA 2/15)
- 94051 PHILIPPINES FEBC in CH Mandarin 1355-1402*, tk, mx break, ID, fqy in EG, IS (Serra IT 2/1)
- 9435 ISRAEL Kol Israel Tel Aviv in EG 2008, cmntry on housing for Palestinians, f (Newbury NE 2/26)
- 9485 BULGARIA RB Sofia in EG 0000, IS, ID, rpt on Bulgaria's role in NATO, fqy (McGuire MD 2/18)
- 9525 INDONESIA VOI Jakarta in EG 2100*, mx, local info, few bars Love Ambon, nx (Clark ONT 3/1)
- 9535nf THAILAND RT in EG 1935, ID's, travel pgm, chimes 2000, into other langs 2001 (Alexander 3/2)
- 9550 BANGLADESH RS in EG *1230, fqys, ID, national nx, //7185, stronger but QRM (Famularo 2/15)
- 9555 SAUDI ARABIA BSKSA Riyadh in AR 2226, ME mx, tk, ID, nx bulletins, f-g (Buенeman 2/21)
- 9580nf THAILAND BBC relay Nakhon Sawan? in EG 0000, "Newsdesk" (Flynn OR 2/11)
- 9590 IRAN VOIRI in Urdu 1333, Qur'an recitations, tlks, ID, p-f (Famularo JAPAN 3/4)
- 9600 VATICAN STATE Vatican R in EG 2245, "Laudetur Jesus Christus", ID (Buенeman MO 2/21)
- 9600 ASCENSION IS BBC relay in EG 0300, rpt on political crisis in Albania, g (McGuire MD 3/2)
- 9645 THAILAND VOA relay in EG 1200, "Radio Theater Live", p (Rogers MA 1/26)
- 96502 URUGUAY RC de Montevideo in SP 0003, sporting events, LA mx, p (Hill MA, Clark ONT 2/28)
- 9655 THAILAND RT Pathum Thani in EG 0030, IS, ID, Thai history, nx, sports, wx, p (Renfrew NY 3/9)
- 9660 VATICAN STATE VR in EG 0632, cmnty on repression, human rights, Christianity (Famularo JP)
- 9660 AUSTRALIA RA Brandon in EG 0757*, current affairs, financial rpt, ID, f-p (Buенeman MO 3/6)
- 9675 TURKEY V of Turkey in RS 1455*, lcl chants, tk, pop mx, ID?, brief IS, f (Serra ITALY 1/19)
- 9685 SOUTH AFRICA Chan Africa in EG 1755*, ID, "Africa This Week" (Famularo JP 2/13, Serra IT)
- 9690 SPAIN China R Int relay in EG 0320, "China Snapshots", CH lesson (Weissborn TX, Levison PA)
- 9729 VIETNAM V of Vietnam Hanoi in EG 1120, ID, new telephone code for VT (Vaghjee MAURIT'S)
- 9745 GREECE VOA relay in Uzbek 1527, nx headlines, ID in EG, IS s/off 1530 (Famularo JP 3/6)
- 9750 MALAYSIA VoM Kajang in Malay? 1859*, cocktail jazz, anmts, vp, //15290 (Hill MA 2/17)
- 9810nf THAILAND R Thailand in EG 1235, national nx, cmntry, Thai mx, world nx, f (Rogers MA 2/9)
- 9810nf NEW ZEALAND RNZI in EG 1810, wx rpt, oldies mx, ID, sked (Flynn OR 2/18, Serra IT 1/14)
- 9835nf INDIA AIR in Urdu 1544, anmt & ID in EG 1600, feature re Freedom Fighter (Vaghjee MAURIT)
- 9835nf GERMANY AWR via Julich in FR 2159, trumpets, ID "R Mundial Adventiste" (Renfrew NY 2/10)
- 98399 VIETNAM V of Vietnam Hanoi in FR *1930, ID, nx, unusually clear signal (Hill MA 2/22)
- 9920 CHINA China R Int in HD 1632, tk re computer in CH home, ID, CH mx (Vaghjee MAURITIUS)

- 11402 ICELAND ISBS Reykjavik in IC 1955*, tk in lang by M/W, //13860 to 2011* (Alexander PA 3/2)
- 11580 GUAM KTWRF Merizo in EG 1500, "On Track" a Christian mx pgm, p (Rogers MA 2/1)
- 11595 GREECE RS Makedonias in GK 1658, GK song, ID, nx, instrum mx, tk (Vaghjee MAURITIUS)
- 11605 ISRAEL Kol Israel Tel Aviv in EG 1525, phone-in re banking services in Israel, f (Fraser MA 2/16)
- 11620 INDIA AIR in EG 1800, ID's, nx, cmntry, Indian classic chants, NA, //7410 (Serra ITALY 1/25)
- 11635 PHILIPPINES FEBC R Int in EG 0934, mx pauses, relig sermon, QTH, ID (Serra ITALY 2/23)
- 11690 JORDAN R Jordan in EG 1650, pop mx, ID, nx, wx rpt, Holy Koran (Fraser MA, Rogers MA)
- 117001 NORTH KOREA R Pyongyang in EG 2300, nx, cmntry, tk re Great Leader, p (Rogers MA 1/31)
- 11730 SOUTH AFRICA TWR in EG *0645, lite mx, rel pop song, ID's, IS (Famularo JP, Serra ITALY)
- 11735 NEW ZEALAND RNZI in EG *1952, IS, ID, fcy, wx rpt, TC, pop mx, sport nx (Serra 2/13)
- 11775nf? ANGUILLA Caribbean Beacon in EG 1225, Dr Scott requesting \$1000 per donee (Serra IL 2/17)
- 11805 BRAZIL R Globo in PT 2013, BR dancing for Rio carnival, chats, ID's, ads (Serra ITALY 2/11)
- 11815 BRAZIL R Brasil Central in PT 2030, excited tlk, interview, ment "do Brasil", p (Serra 2/11)
- 11840nf? KAZAKHSTAN R Almaty in EG/GM 1044, tk on econ cooperation, Kazakh folk mx, instrum and pop mx, ID, QTH, end of EG pgm 1059, pips, into GM 1100, IS, //9620 (Serra ITALY 1/18)
- 11875 IRAN VOIRI Teheran in EG 1150, lcl nx, pgm on Ramadan, "Hello Again", ID (Vaghjee MAUR)
- 11905 THAILAND RT Udorn Thani in EG *0027, clock chimes, "News Hour" including business & sports TC, full ID, "Page from Thai History", Bangkok wx rpt, //9655 (Flynn OR 2/17, Renfrew NY 3/9)
- 11915 BRAZIL R Gaucha in PT 2100, lively tk re futbol, ment BR towns, p w/QSB (Serra ITALY 2/2)
- 11925 BRAZIL R Bandeirantes in PT 2115, lively discussions, ads, mx breaks, TC, ID (Serra ITALY 2/2)
- 119404 CAMBODIA Nat V of Cambodia in Lao 1245, SEA sing-song vocals, peaking nicely at 1300 with 2+1 time pips when they were wiped out by Romania s/on (Rippel VA 3/9) ED: EG pgm *1200
- 11990 KUWAIT R Kuwait in EG 1830, ID, nx, mainly national items, p (McGuire MD 2/8)
- 13580 CZECH REPUBLIC R Prague in EG 1400, ID, tk re the Czech economy, exc (Robinson TN 2/16)
- 13675 UNITED ARAB EMIRATES Dubai in EG 1030, nx, ID, wx rpt, mx break, QTH, request mail, AR flute mx, //17630 (Serra ITALY) in EG 1330, Islamic history, ex-13665, ID (Alexander PA 3/2)
- 13685 BELGIUM R Vlaanderen in EG 1400, nx, rpt on discovery of murdered child (Pasquale PA 3/8)
- 13780nf? INDIA AIR GOS in EG *1747, ID, HD mx, subcont vcls, //11620 (Hill MA, Barrera ARGENT'N)
- 15075 INDIA AIR Delhi in HD 1716, ID "Yeh All India Radio", HD mx (Barrera ARGENTINA 1/25)
- 15160 MOROCCO VOA relay in AR 0533, YL tk, ID, instr mx, AR mx, f-g (Famularo JP 3/1)
- 15185 INDIA AIR Delhi in EG 0839, natl mx, update on India-NZ cricket match (Famularo JP 2/18)
- 15260 IRAN VOIRI Teheran in EG 1120, nx, ID's, instr mx, sked *1130, on early? (Famularo JP 3/10)
- 15270nf? PHILIPPINES R Pilipinas in EG 0256, ID as "Voice of Democracy", mail (Barrera ARGEN 1/25)
- 15410 RWANDA Deut Welle relay in FR 1250, tk, vcl in GM, ID's, into Hausa 1300 (Ziolkowski 3/2)
- 15430 MOLDOVA V of Russia relay in EG 1237, ID, tk re beautiful city in Russia (Ziolkowski 3/2)
- 15650 GREECE V of Greece in EG 0750, GK-related cultural nx, ID, into GK 0754 (Famularo JP 3/4)
- 15445 SEYCHELLES FEBA in Vern/HD 1317, chants, tk, ID's, QTH, instrum mx (Serra ITALY 2/1)
- 15445 BRAZIL R Nac Brasilia in EG 1200, mx, nx "5-10 million crocodiles in Brazil" (Robinson TN)
- 15476 ANTARCTICA LRA36 R Nac Arcangel San Gabriel in SP/EG/FR 2005-2049*, mostly YL SP tk, some mx until 2025 EG pgm, mail, into FR 2030, EG ID 2044, ancd daily xmsn sked 1900-2100, invite req for QSL cards, closing song a lively YL/OM duet (Murray MA 2/23, Maroti NY 2/23)
- 15485 UNITED KINGDOM BBCWS in EG 1550, pgm re Liberia & film mx, repl 15070 (Rosewarne IL)
- 17550nf? CHINA CNR-1 in CH 0528, taped interview ment Deng Hsiao Ping, //17605 (Famularo JP 2/26)
- 17720 ROMANIA RRI Bucharest in EG 0654, tk on US Security Council, ID, folk mx (Famularo 3/3)
- 21715 TURKEY V of Turkey in TK 0634, Qu'ran recitations, g, //15145 (Famularo JP 3/7)

CLANDESTINE STATIONS

- 6315 ETHIOPIA V of the Revolution of Tigray in Lang 0355, IS starts 0355 but carrier on at 0330, pgm started at 0359, move from 7515 slot, //5500, need LSB to minimize ute QRM (Berg MA 3/5)
- 7085 ERITREA V of the Broad Masses of Eritrea in Vern *0354, guitar mx, operng anmts 0359, new s/on time, f-g (Alexander PA 2/23)
- 7390 ERITREA V of the Broad Masses of Eritrea in Vern 1559, repetitious stringed mx (IS?), OM w/nx, Afro-AR choral mx, f-p (Famularo JP 2/12)
- 9750 ANGOLA A Voz da Resistencia do Galo Negro in PT *0449, guitar/cock crow IS, ID, anthem, choral mx, Afro hi-life & pop mx, anmts, strong but mixing w/VOA til 0500 (Alexander PA 2/16)

MAYBES AND DON'T KNOWS

- 6155 LIBYA(p) Libyan Jamahiriyah BC in AR 0845, AR mx, Qur'an recitations, het QRM and fade in by R Singapore by 0930. Could be Libyan test as heard only a couple of days (Famularo JP 2/23)
- 6390 UNIDENTIFIED in Lang? at 1930* u/in, ME style instrum mx and off (Hill MA 2/9)
- 65602 IRAQ(p) Rep of Iraq R? in Kurdish 0335, Mideast chants, not hrd next nite (Alexander PA 2/8)
- 6745usb SOMALIA(p) in Somali? 1936, s/off w/o ceremony 1942, carrier still on 2000 (Hill MA 2/9)
- 7570 UNIDENTIFIED Clandestine? in Amharic 1650, AR type mx, abrupt off 1718 (Vaghjee MAUR)
- 9510 UNIDENTIFIED Arab-type stn in AR 0930, AR mx, long tk in AR, s/off 1004 (Vaghjee MAUR)
- 11610 UNIDENTIFIED China PR or Philippines?? in Far Eastern lang 1047-1100, YL chat until 1059, poss ID, pips 1100, pgm lost under heavy QRM splat from R Bulgaria 11605 (Serra ITALY 2/23)
- 13365usb ARGENTINA(p) six pips hrd 2300, seemed to be a break in SP play-by-play, possible mx on LSB at same time, not 13361 as in Jan NASWA (Renfrew NY 2/15)

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TRANSMITTER DOCUMENTATION PROJECT

For the 4th year now, detailed information is available about transmitters used by shortwave radio stations around the world.

TDP SW-97 -- the "Transmitter Documentation Project" -- has just come off the press in its fourth edition. TDP is the result of more than 10 years of research by Belgian DXer Ludo Maes, with the cooperation of well-known radio personalities, international organizations, publications, DX clubs and programmes, transmitter manufacturers and the radio stations themselves.

TDP has been expanded by another 12 pages to an 80-page booklet listing shortwave broadcast transmitters worldwide, arranged by country. Each listing indicates the name of the station, transmitter site, geographical coordinates and call-sign. It also shows the number of transmitters at the site, their power, manufacturer, type number and year of installation and year out of service.

This year, a lot of information on shortwave transmitters from Central and South America has been added, thanks to the collaboration of Takayuki Inoue Nozaki, a real expert in the field. Certainly an improvement over last year's edition is the addition of a column with the transmitter's call-signs and the split of the "year of installation" column into a column "year in" and another "year out". Furthermore, a number of new shortwave transmitters have been added and the historical data updated.

This informative publication also contains a list of shortwave transmitter manufacturers and their headquarters, plus statistical breakdowns of the number of shortwave transmitters in use around the world, grouped by power level, country and manufacturer. An article about the history of a transmitter manufacturer (OmniTronix) and an article about Skywave 2000 by Thomcast concludes the booklet.

TDP is read year after year by radio stations, transmitter manufacturers, radio consultants and engineers, as well as by the dedicated radio hobbyist.

TDP, the "Transmitter Documentation Project" has recently begun a web-site as well. Please have a look at <http://www.ping.be/tdp>. This service has just been started but it will be expanded soon.

To order a copy of the TDP SW-97 -- the "Transmitter Documentation Project" -- send the appropriate amount to one of the following distributors :

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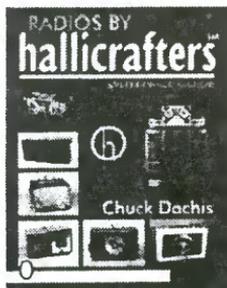
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ISSN 0160-1989



The Journal of the
North American Shortwave Association

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