



the JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

VOLUME XXXVII NUMBER 1

JANUARY 1997

UNITED STATES, CARIBBEAN

| | | |
|-----------|--------------------------------------|--|
| 0000-0100 | 5960, 9755: | SU: (CBC) QUIRKS AND QUARKS [5] MO: (CBC) TAPESTRY [4] |
| 0200-0300 | 6010, 9535, 9755, 11725: | TU-SA: (RCI) SPECTRUM [1] SU: (RCI) INNOVATION CANADA [6] (RCI) EARTH WATCH [5] MO: (RCI) ARTS IN CANADA [4] (RCI) THE MAILBAG |
| 0300-0400 | 6010, 9755: | SU: (CBC) DOUBLE EXPOSURE [4] (CBC) ROYAL CANADIAN AIR FARCE [4] MO: (CBC) THE INSIDE TRACK [3] (CBC) NOW THE DETAILS [1] |
| 1300-1400 | 9640, 11855: | MO: (CBC) DOUBLE EXPOSURE [4] (CBC) ROYAL CANADIAN AIR FARCE [4] TU-SA: (CBC) AS IT HAPPENS [1] SU: (CBC) QUIRKS AND QUARKS [5] |
| 1400-1500 | 9640, 11855: | MO-FR (CBC) THE BEST OF MORNINGSIDE[1] |
| 1400-1700 | 9640, 11855: | SU: (CBC) SUNDAY MORNING [1] |
| 2300-2330 | 5960, 6040, 9535, 9755, 11940: | MO-FR: (CBC) THE WORLD AT SIX [2] SA-SU: (CBC) THE WORLD THIS WEEK-END [2] |
| 2330-0100 | 5960, 9755: | MO-FR: (CBC) AS IT HAPPENS [1] |
| 2330-0000 | 5960, 6040, 9535, 9755, 11940: | SA: (CBC) MYSTERY PROJECT [4] SU: (CBC) NOW THE DETAILS [1] |

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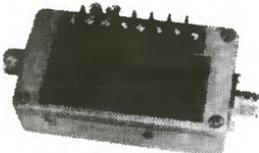
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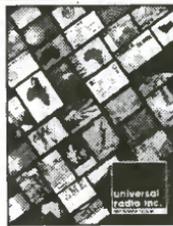
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1 800 431-3939

NASA Notes

Richard A. D'Angelo

2216 Burkey Drive

Wyonissing, PA 19610

Genie: R.DANGELO3

Internet: r.dangelo3@genie.com

New Year's greetings to all members! It's time for another year of bountiful DX'ing!!

As we open the new year, I'm happy to report that Bob Montgomery will be the club's Correspondence Secretary. He will be working very closely with our publisher, Bill Oliver. It's good to have a quality guy like Bob on board. Welcome!!!

From member Bob Padula we learn of the availability of the first edition of the **AUSTRALASIAN SHORTWAVE GUIDE**. It contains times, frequencies, target areas, relay sites, languages, and broadcast days of external service transmissions on shortwave intended for Australia, Asia, the Far East, and the Pacific, for the W-1996 season. With nearly 600 entries, the data is arranged in two parts: by order of country of originating studio, and by time. Details of broadcasts in English and other languages for transmissions to Australia and the Pacific are shown, together with English broadcasts for Asia and the Far East. Other special features include: (1) **SHORTWAVE RECEIVER GUIDE**: a listing of currently available shortwave receivers, with prices, and dealers, in Australia and New Zealand, (2) **INTERNET ADDRESSES OF SHORTWAVE STATIONS**: listed in alphabetical order of country, designed to be used for reception reporting and for corresponding to stations with over 70 entries, including Unofficial Stations and Pirates!!, and (3) **DXING MADAGASCAR** - an in-depth study of the historical development of Madagascar, with particular emphasis on current shortwave radio broadcasting in the Republic.

The Guide is 32 pages A4 format, professionally printed and bound, and the data has been compiled from information received directly from broadcasters, transmission planners, frequency coordinators, DX Clubs,

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. The net moves to 3940 LSB after the 40m session closes for an informal session. Net Controls Tom Sundstrom W2XQ, Hausie WB4JSP, Dave Kirby N1DK, ex-N8JQX, and Bob Curtis WIEXZ host an always lively gang of DX monitors. (Best heard in the eastern half of NAm) Net info also available at <http://www.trsc.com/swl_net.htm>.

DXing Federations, monitoring consultants, technical correspondents, and expert monitors worldwide. The Guide is a special publication sponsored by the Electronic DX Press Australia, and is a non-commercial, non-profit venture. It's edited by DXpert Bob Padula with support from Mick Ogrizek. The cost is A\$10.00 (within Australia), or A\$12.00 / US\$10.00 (or ten International Reply Coupons). Orders for the new guide, with payment, should be sent to:

Robert J. Padula
404 Mont Albert Road
Surrey Hills
Victoria 3127
Australia

We plan to have a review of this exciting new publication in an upcoming edition of Journal.

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

Our Motto is - "Unity and Friendship"

Calendar Of Events

- Jan 17 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- Jan 17 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/>>.
- Jan 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.
- Feb 8 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
- Mar'97 Contest. 1997 North American DX Championships.** Further information will be published in the Journal or you can send a self-addressed stamped envelope to 1997 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.
- Mar'97 Convention. The 10th 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. Further details and information will appear later this year.
- Jun'97 Convention. The 31st Annual European DX Council ("EDXC") Conference** will be held on 20-22 June 1997 at the Hotel Lazne in the eastern part of the Czech Republic. It will be organized by the Czechoslovakian DX Club. More details to come.
- Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: r.dangelo3@genie.com) or Ralph Brandi (Internet: rbrandi@lucent.com).

FRENDX: Twenty Five Years Ago....

January marked the last edition of Shortwave Center under the editorship of Bill Matthews. University of Illinois student Ralph Perry will be taking over the column in February. 111 members purchased the 1972 WRTH through a club offer. Executive Editor Bill Eddings denies rumors of a merger with another club. Renewing members include Anthony Marks (3rd year), Roger Legge and Victor Jaar (4th year), George Schnabel (5th year), Bruce Churchill (6th year) and Glenn Hauser (7th year). Featured QSL of the Month was the extremely rare clandestine, Radio Peyk-y-Iran contributed by Bill Matthews. Last minute flash item from Jerry Berg was a report of Radio Nederland's new relay at Tananarive, Madagascar heard on Christmas Day.

Welcome to the following new NASWA members

| | |
|---|--|
| C. Jeffrey Brandt, Corvallis, OR | Boguslaw Mikunda, Woolloomooloo, AUSTRALIA |
| James Donelson AB4IF, Lantana, FL | |
| John A. Gunther Sr., Colonial Beach, VA | Joe Poluhovich, Long Valley, NJ |
| Tom Hooker, York Haven, PA | Philip Schmidt, Chicago, IL |
| Mohammad Keshavarz, Greensboro, NC | Karl Shepard, Hillsboro, OR |
| David Krause, Eastlake, OH | John Stanley, Pawtucket, RI |
| Lee R. Lane, Evanston, IL | Mitsuhiro Takaya, Osaka, JAPAN |
| Mrs. Gigi Lytle, Lubbock, TX | Joel H. Wickens, Shrewsbury, PA |
| David Muehling, Portsmouth, NH | Graham J. Wills, Naperville, IL |

Musings

This column provides a forum whereas members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are solely those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email - r.dangelo3@genie.com

Bob McCurdy, 11 W. Dulles Drive, Camp Hill, PA 17011

I'm going to turn 65 very soon, and I've been a member of NASWA for about 20 years. The ride continues to be a great pleasure.

Like many others, I became fascinated with radio while still very young. I remember being thrilled to listen to the Lone Ranger when I was about 10. I'd tune in eagerly in the late afternoon as the approaching darkness allowed me to hear the signals drifting across the border to my little hometown in northern Canada. Our RCA Victor radio with its magic eye for tuning just barely pulled them in.

I graduated to world band (it was called shortwave then) with an entry-level Hallicrafters S3-8A which I bought for \$49.50 in 1949. One of my first big catches from Upper Michigan was the Voice of Free China in Taiwan, which is now easily available via relay. The Chinese stamps on the colorful QSL card were fascinating.

By now I have a pricey, versatile Drake R8A, and I've heard many rare stations but the wonder remains.

I still DX, hunting for the most elusive fireflies—I'm now checking out an obscure signal that I think is from Myanmar (Burma in my youth). However, I'm also savoring easy-to-hear broadcasts from all over the world.

I've found that the trick is to use your imagination. Trot out your atlas. Study a map of the land from which the broadcast is coming. Turn off the lights. Absorb the news and features. Really open your ears to the details of the Arabic, Indian or Andean melodies. Be receptive to the many ways of thinking. Put yourself into those other nations.

Above all, avoid being greedy. I try to examine jewels one at a time rather than go dashing after the others that might be around. I try to remember that some gold-rushers from California became obsessed that they invaded Latin America to rob the graves of Indians. That kind of memory helps me relax and treasure what I already have.

With that attitude, anyone can be happy with either a simple radio or an elaborate one.

Incidentally, I've found that even my mighty R8A has its flaw—sounds a little tinny. I fixed that up, though, with a pair of amplified speakers from Radio Shack for less than \$20, and now how sweet it sounds!

Certainly I still pursue the flickering fireflies that are so hard to catch, but only sometimes. I've grown aware that there's a time for DX and a time to relax with some strong and always enchanting signals that anyone can hear with ease.



Shortwave Center

Hans Johnson
8121 S. Poplar 204D
Englewood, CO 80112
CompuServe: 73042,3644
Internet: 73042.3644@compuserve.com

Correction: In December we ran an article from the DEVMEDIA list that came to us via Don Moore. My apologies to both for the omission. Here is another that Don sends in:

Another item from the DEVMEDIA list. Some interesting background on govt broadcasting in Angola. I was very surprised that there is absolutely no mention of the Galo Negro station. I posted a message to the list giving the background to Galo Negro and explaining how well heard it is here in North America. I also gently pointed out that professional/academic radio researcher types might do well to pay attention to the shortwave listener hobby press, which obviously knows things that they don't, ;-). Don Moore

ANGOLA: MISA report assesses mass communication in Angola

ORIGINATOR: Media Institute of Southern Africa (MISA), Windhoek

Censorship and a host of other government controls are stifling the growth of an independent media in Angola, a Media Institute of Southern Africa study says. MISA's "Assessment of the Mass Communication System in Angola", just released, says Angola's liberal media laws have done little to promote an independent media in the country.

"The media especially the state controlled radio and TV, are more of a government mouth piece and do not give fair, balanced [and] let alone critical comment on government conduct." The state, which owns both national radio and television, the country's only daily newspaper, as well as the news agency, has kept a heavy hand over the media through controls that include direct censorship.

Self-censorship is also very common. "Angolan journalists are lacking...in professionalism, and with exceptions they are partial, tendentious and mediocre," the study cites a survey respondent as saying. "Most journalists want to be seen to be loyal to the state, meaning, in fact, the ruling MPLA."

Carried out from July through September 1996, the study says that, although govern-

ment denies any interference, it has used "editorial guidelines" to censor the state-owned media.

The study was designed to see how Angola, ravaged by years of civil war, could benefit from the Media Development Fund, a new MISA project. Control of the independent press, it says, is mainly through government's hold over the only fully functional printing press in the capital.

Journalists interviewed indicated government, as the printing company's main customer, could bar it from producing newspapers and journals it does not like. "Regular customers of this company acknowledge the quality of the equipment and its staff but blame them for never meeting their deadlines and for giving priority to government orders."

The MISA study joins those in the Angolan media that have called for the establishment of a printing press outside government control. "In order to promote independent media, it is recommended that a printing press run by an independent media trust be started," it says.

Government subsidies have also allowed the state-owned media to undercut the fledgling

press and radio. This denies them vital revenue. It says the January 1995 assassination of Ricardo de Melo, of the bold and much acclaimed "Imparcial Fax", which had been attributed to the state, was believed to have been designed to silence media persons critical of the state. "The killing of Ricardo de Melo, director of 'Imparcial Fax'," says the study, "was seen as politically motivated and as evidence that in the present environment, press freedom is still lacking in Angola."

But, it is through a monopoly over the airwaves that the state tries to and remain the most powerful manipulator of Angolan public opinion. With the collapse of much of Angola's infrastructure, national distribution of newspapers and other reading material has become impossible. Production problems, including power cuts, a lack of equipment and finance, have not helped. The circulation of the national daily, "Jornal de Angola", has fallen from some 70,000 shortly after independence in 1975 to a meagre 4,000 in a country of about 12 million people. Distribution, like that of most other publications, is limited to Luanda.

With the publishing industry under severe strain, radio has become Angola's most powerful medium. Control of all broadcasting, however, remains a state monopoly.

Through state control of licensing, the government-owned National Radio of Angola has remained the only country-wide broadcaster through its monopoly over the medium and short wave bands used to transmit over long distances.

Television broadcasting is also a state monopoly. State control is here too, strong. "Some of the informants felt state monopolisation of television and the restrictions on radio activities, especially short and medium wave bands, is especially bad for media development," says the study. The state-owned National Radio of Angola also runs broadcasting stations in each of the country's 18 provinces.

There are only four privately-owned radio stations in four major cities, including Luanda. They are, however, limited to FM transmission that does not carry very far and,

according to the study, their autonomy seems limited. "While the operators state that they enjoy editorial independence, sceptics point out that these stations are not really independent." It says the state has in the past ordered at least two of the stations to put some programmes off the air.

Training in government institutions is also seen as another tool to control journalists and public opinion. The study says some of those surveyed felt that journalism courses sponsored by the state "tend to be ideologically biased, and do not emphasise fair, fearless, objective and balanced reporting. As a result, there is very little room for open and meaningful debate on national issues."

The inadequate number of women in the Angolan media has also denied it a proper gender balance. "There is very little women participation in Angola. It is recommended that special efforts must be made to bring women into the fold. To this end, affirmative action programmes should be implemented to redress gender imbalances," the study says.

The study urges the development of an "alternative" media in Angola. This, it says, should help break government monopoly over the print and broadcast media and enhance the quality of public debate and opinion in troubled Angola. "What is needed now, more than at any time, is to hear the many different views about the situation in Angola," says the survey.

"It is the media that can be a vehicle of the culture of pluralism and the existence of several publications would give the public various viewpoints, cultivating in the long term, a climate of informed public opinion," the study says. This could be vital to a lasting peace.

The report on mass communications system in Angola was produced on behalf of MISA by Fernando Lima and Monageng Mogalakwe. It is available from MISA Secretariat and costs USD 24, postage inclusive. Contact MISA, Private Bag 13386, Windhoek, Namibia, tel:+264 61 232975, fax:+264 61 248016, e-mail: dlush@ingrid.misa.org.na, research@misa.org.na.

Next we have an article that appeared in *Dx Window*:

New Star Broadcasting Station

by Hans van den Boogert

This is a report about the New Star Broadcasting Station, or Xin Xing Guangbo diantai in Mandarin Chinese. I have observed this station on the following frequencies: 8300, 9725 and 11440 (misprint for 11430 or new frequency? Ed), where the latter two seem to be alternates both featuring the third program. Reception is clear and strong local daytime here in Taiwan (2300-1000 UTC), but hardly or not audible at night(1200-1600 UTC). I'm not a propagation expert, so maybe somebody else could give some educated guesses about a possible location.

New Star seems to have different services, or programs. Each frequency identifies itself as "the third" or "the fourth" program ("di san tai" or "di si tai"). Content is different, but program format is the same. Broadcasts range from 5 to 40 minutes and I recorded a broadcast on 8300 kHz in October as typical case.

In order to save my energy I hereby give a list of Chinese cardinal numbers. Ordinal numbers are formed by putting "di" in front of the cardinal number.

Chinese numbers from 1-10:

- 1 = yi
- 2 = er
- 3 = san
- 4 = si
- 5 = wu
- 6 = liu
- 7 = qi
- 8 = ba
- 9 = jiu
- 10 = shi
- 20 = er-shi
- 26 = er-shi-liu

Transmission fact:

Frequency: 8300 kHz. Date: October 1996.
Time: 0600 UTC.

Transmission details: traditional piece of Chinese music as interval signal, featuring a flute. Once you hear it you never forget it. Usually two women are featured: one for the general announcements, the other for the messages. They are both recorded and this clearly shows in the coded messages which suffer from lack of proper intonation. The outline of the transmissions is as follows:

Station ID + program ID. An example:

Zheli shi Xin Xing Guangbo diantai, di si tai (2x) [Here is New Star Broadcasting Station, the fourth program]

stations have 4 or 5 letter call-signs. Also indicated is the month and number (...yue,th report) of the cables and how many cable characters (dianwen) it consists off. An example:

.....you 5-3-2-5-3 danwei [....for unit 5-3-2-5-3], shi yue fen di yi hao dianbao [October 1st cable], yi fen dian bao dianwen 53 zi [one cable, 53 characters]. You 4-4-7-1 danwei [for unit 4-4-7-1], shi yue fen di si hao [October 4th cable], yi fen dianbao dianwen 61 zi [one cable, 61 characters]. 5-3-2-5-3 danwei 4-4-7-1 danwei zhuyi chaoshou [Unit 5-3-2-5-3, unit 4-4-7-1, stand by for reception].

between. Then actual code transmissions begin, preceded by this announcement:

Zheli shi Xin Xing Guangbo diantai, di si tai. [Here is New Star Broadcasting Station, the fourth program] Xianzai women.... [Now we....] kaishi.... [begin...] baogao gei nin [with the reporting for you]. Qing nin zhuyi, zhunbei chaoshou. [Please stand by for reception]

twice. If the cable is finished this is also announced:

9093 9033 8799 8799 9989 9989 1956 1956
4244 4244 3904 3904 9939 9939 8988 8988

yishang shi gei 4-4-7-1 [The preceding was intended for unit 4-4-7-1], shi yue fen di si hao [October 4th cable], yi fen dianbao dianwen 61 zi [one cable, 61 characters]. xianzai yijing bowen wan le [now finished with broadcasting the cable].

yishang tejie heyuebosong wanbi. xixie nin de shouting. zhu nin jiankang kuai le. zaihui. [The preceding special programme.....now finished transmission. Thank you for listening. We wish you health and happiness. Goodbye.]

Comments from the reporter:

First a disclaimer: my Chinese is not perfect and Xin Xing's audio is not that great, so I might have made minor mistakes in translation, or in copying content (90% is correct though). Even my girlfriend had trouble understanding the Chinese and she is a native speaker, so there you go! (Please send her a nice e-mail at hansfong@ms2.hinet.net and maybe she will let me play with my radio more often than, hi!).

I don't want to give too many comments on

this station. It seems a spy station, paid very nicely, but from where and for whom everybody's guess. The Mandarin use sounds like mainland Chinese Mandarin, but it could as well be from Taiwan. The signal and audio quality also point to mainland China, but then again, at night this station is not audible in over here and so it points to Taiwan again.

Maybe it's not a spy station at all. I remember some years back there was a German number station, also sounding very nice and everybody thought it came from East Germany. Turned out to come from West Germany and relaying results of horse racing (this was before the computer networking craze and turned out to be cheaper and faster than other means of distribution).

Anyway, good luck with hunting this station down. If you hear any other frequencies, please let me know. Good DX.

(You can reach Hans van den Boogert, who lives in Taipei, Taiwan, via an e-mail to hansfong@ms2.hinet.net)



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.

NASW

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

Hardware Bits by Alan Johnson

SGC AUDIO PROCESSOR—SGC Inc. has announced their "PowerClear" outboard audio processor. It provides DSP noise and heterodyne reduction as well as variable audio bandpass filtering in a compact package. The low and high filter cutoffs are separately adjustable and filter response is graphically displayed by LED's. The suggested list price is \$395.00. SGC, Inc., SGC Building, 13737 S.E. 26th St., Bellevue, WA 98005; (800) 259-7331; E-mail: SGCMKTG@aol.com; WWW: sgcworld.com.

BAYGEN FREEPLAY UPDATE—According to a letter from the director of BayGen USA in the November issue of Monitoring Times, the Freeplay radio (reviewed in the October Journal) will now be available in two models: "A" with shortwave coverage from 3 to 12 MHz and "B" covering 5.8 to 18 MHz.



Listener's Library

T. J. "Skip" Arey N2EI
P. O. Box 644
Waterford Works, NJ 08089
Internet: tjarey@mosquito.com

Can you believe we're through another year? In spite of a few doom-sayers the radio hobby remains as robust as ever. If anything, this latest stinky sunspot cycle is building up the tenacity of dedicated listeners. Fear not friends, as surely as time marches on this sunspot cycle will move on too. You newbies haven't lived till you've heard the bands at the peak of a cycle. It's worth waiting for. Meanwhile, there's plenty to read. Why not breeze into the New Year with a shameless plug...

I'm led to believe my book should be available by the time this column hits print. It's been a big project but I think folks will like it. Getting a book into print has a much longer gestation period than I ever expected but it was well worth the time and effort. One minor change is the title. It should be out as...

RADIO MONITORING -THE HOW TO GUIDE

by T.J. "SKIP" AREY
published by INDEX PUBLISHING GROUP, INC.

3368 Governor Drive
Suite 273
San Diego, CA 92122
1 (800) 546-6707

e-mail: ipgbooks@indexbooks.com
Website: www.electricti.com/~ipgbooks/
ISBN 1-56866-101-0

The folks at Index are doing their best to get this puppy out to the "real" world so be sure to check your local bookstores. If you don't see it on the shelves raise a fuss. And by all means, someone read it and send in a review. I've been dishing it out in this column for years, I suppose I can take it as well.

But enough about me...

The first new book of the 97 season should be no surprise to most of you.

1997 PASSPORT TO WORLDBAND RADIO

Editor in Chief -Lawrence Magne
381 pages plus the "Blue Pages"
\$19.95

International Broadcast Services, Ltd.
ISBN 0-914941-39-9

Ah yes kiddies, sit down on the floor around Old Uncle Skip's rocker and I'll tell you a tale about the days before Passport. If you have any doubts about how far our hobby has come over the past dozen or so years and if you want to know where things may be going, check out how Passport has evolved. It remains the best daily use guide for active shortwave stations but Larry and his folks haven't been hiding from the realities of the computer revolution. The 1997 Passport contains a full study of shortwave related Internet websites including a guide for how to get in on the fun. Now don't go thinking Magne has



I must admit,
hearing a "Real Audio" transmission
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my love for "real" radio but it makes an
interesting adjunct.



sold out shortwave radio. The fact is that a unique symbiosis seems to be developing. Many broadcasters are getting their signals out over shortwave, satellite and yes even the Internet. Instead of shortwave falling aside to these other technologies, everything seems to be coexisting peacefully at this point in

time. Larry points out that "Web Radio" is in its infancy and this can be an exciting thing to follow. I must admit, hearing a "Real Audio" transmission of a broadcaster I'm used to hearing with a heavy fade and static is very seductive. I don't think it will ever replace my love for "real" radio but it makes an interesting adjunct. This effort to put the subject on the table makes a good deal of sense. Once examined, we can all get back to what Passport has traditionally offered its readers. Great listings of shortwave stations and great reviews of shortwave receivers.

Tell me something, if the shortwave hobby is dying, how come all these high zoot companies are sinking so much R&D money into new receivers? Magne's and his lab take a look at the latest crop of general coverage receivers. Many new receivers are premiered, including an in depth study of the AOR AR7030 which many folks got a first glimpse of at the 96 Kulpsville Convention. In the portable category the Sangean ATS 909 gets a deep study as well.

Passports "Addresses Plus" section is a source of information I've grown very comfortable with. Also, hidden within the address and mailing information are many tid bits of sage advice and even a bit of wit as well. The ever present "Blue Pages" in the back of the book remain as useful tool as always. By the end of a year, my Blue Pages are so marked up with notes that I have almost no choice but to prevail upon the powers that be to get a new issue.

Another tradition in this column has become where I pick my favorite picture out of the latest Passport. My 1997 choice goes to Page 83. Radio Budapest's "Enkiko" Zsuffa is not only very attractive but enjoys actively participating in motorsports. Fast cars and shortwave radio, where was she when I was single???

PRACTICAL PACKET RADIO

by Stan Horzepa WA1LOU

219 Pages

\$15.95

The American Radio Relay League

Newington, CT 06111

ISBN: 0-87259-530-7

If you want to get an idea about how wrong some of these pundits of the radio hobby can be, take a look at packet radio. Ten years ago the prediction was that packet radio would take the place of every other mode of amateur radio. Well to make a long story short, I still can't find an empty frequency on 40 CW. Packet didn't become the major revolution some people predicted. However, a quieter revolution has taken place over these last dozen years. Packet has become a reliable tool for chasing DX as well as routine and emergency communication. Packet has branched out into several technologies that are only beginning to show their promise. Stan Horzepa's book shows the current state of the art and it proves that, while packet didn't take over the world, it surely made its place in it. Stan's book is a great one stop study of the current state of the packet art. You can read about the latest technology in packet modems and software and even about some of the newer transceivers geared for higher packet speeds. Also included is a very good study of HF packet that should be of interest to utility monitors. The section of satellite operation shows how effective this mode of communication can be when used in space operations. One of the most exciting uses of amateur packet radio these days is APRS (Automatic Packet Reporting System). Simply put, APRS allows packet radio to be used as an effective mapping and positioning system allowing for tracking of just about anything you can think of. Its biggest uses in the hobby to date include weather condition monitoring and emergency communications networking. In addition to all of the packet radio advances you will find complete studies of all traditional packet communications operations including AX.25, TCP/IP, DX Clusters and ROSE. The Internet may have passed packet by on some levels, but packet remains a solid communications mode for any active ham. Practical Packet Radio is a book that will get you up to speed.

Anyway, everybody have a happy holiday season, May Santa put many new radio toys under your tree. Pray for Sunspots in 97. 

Listener's Library Extra

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An important new book has been published in the radio field. Happily, the book is written by our very own "Uncle Skip" Arey. Obviously, Skip is too close to the book to review it, or maybe even to include a review of it in his column. We feel the book is too important to ignore, though, so we offer this review, prepared by Rich D'Angelo, as a Listener's Library Extra column. The review is being published without Skip's knowledge.

—Ralph Brandi

RADIO MONITORING

The How-To Guide

By T. J. "Skip" Arey

340 Pages

The Index Publishing Group

ISBN: 1-56866-101-0

Reviewed by Richard A. D'Angelo

Getting started in any facet of radio monitoring is, at best, a hit or miss proposition. There are a number of so-called beginners books or guides that attempt to address certain specialty niches in the radio monitoring field. However, until recently, there has never been a comprehensive guide for beginners to learn about all aspects of radio monitoring. All that has changed with T. J. "Skip" Arey's wonderful book, **RADIO MONITORING, The How-To Guide**.

For many, Skip Arey is a well-known name in the hobby. He has edited our *Listeners Library* column for a number of years and was our technical editor in a past life. In addition, Uncle Skip (as he is known to most of us) writes for *Monitoring Times* magazine and the All Ohio Scanner Club bulletin on topics related to getting the beginner off the ground and running in this terrific hobby of ours.

At radio conventions, he has hosted numerous seminars designed to give the beginner a

handle on various aspects of hobby monitoring. It's not easy explaining what many of us take for granted. However, this is what he does best and this book follows in his own footsteps. For many Skip has become the support lifeline that helps get newcomers immersed in our hobby. Therefore, it seems fitting that Skip would author the most complete book on radio monitoring for beginners since he has had tremendous experience "teaching" the subject through his writings and presentations throughout much of his hobby career.

Uncle Skip's book is a continuation of his free flowing thought process and style that dominates his articles, columns and presentations. His is a very chatty, relaxed and witty style that enables the reader to be comfortable with what the author has to present. Whenever he heads down a technical path he always concludes by reminding hobbyists to have fun since that is what a hobby is all about. Simple advise that occasional needs to be said from time-to-time. Frankly, I can't think of another hobbyist, and I know a bushel full of them, that can present basic monitoring information in as clear and as concise a manner as Skip Arey. Since he is a confessed "DC to Daylight" monitor (someone that monitors everything there is to monitor), he knows from personal experience all facets of radio monitoring. The book is packed with useful tidbits of information that even a seasoned hobbyist can make good use of. For example, how many of us really think about our radio shack layout? or how to get up to speed on other aspects of radio monitoring, i.e. non-short-wave broadcast? This book will help anyone grow into the other aspects of radio monitoring that are out there to enjoy.

RADIO MONITORING, The How-To Guide opens with a brief history of radio followed by a chapter covering the many forms of

listening. The book moves into background information on the radio spectrum including a discussion about propagation and what it means to a radio monitor before delving into each area of interest individually. Since Skip covers the entire radio spectrum, veteran shortwave broadcast hobbyists, like us, who are looking to get into other aspects of radio monitoring will find the sections devoted to long wave, medium wave, shortwave utility DXing, scanner listening, TV and FMDXing particularly interesting as another outlet for fun.

Each section concentrates on the basics—receivers, where and when to listen, antennas, accessories, propagation, techniques, skill development, etc. By the time you reach the end of the book, the reader will have a good understanding of the basics involved with all aspects of radio monitoring.

RADIOMONITORING, The How-To Guide by Skip Arey was published by the Index Publishing Group of San Diego, California. The 5 1/2" by 8 1/2" formatted book is 340 pages of fast paced reading, including 80 illustrations (pictures, line drawings, and schematics) some of which were generated by Uncle Skip's computer. It sells for only US\$19.95 and is available from both Universal Radio and Gilfer Shortwave. I recommend that a copy of this book grace the shelf of anyone with an interest in radio monitoring since this is the most complete "how to" guide I have ever seen in print. Never has so much useful information, about getting started in so many aspects of radio monitoring, been packed into one book.

73—RAD

19 Nov 96



Net Notes by Ralph Brandi, rbrandi@lucent.com

Whether you're a fan of CKLW, The Big 8, the top-40 station in Windsor, Ontario in the 1960s, or of CKLW, the shortwave pirate that eerily recreates its sound, down to some of the original commercials and breaks, you may be interested in The Classic CKLW Page at <<http://www.cklw.org/>>. Webmaster Jack Decker has managed to put together a compelling slice of radio history on the web, and one that is regularly updated with corrections and new stories as CKLW fans and alumni discover the site. The site has grown quite large, even moreso if you load images, and can take quite a while to download, but the quality of the text makes it worthwhile. Alumni, in particular, have written in with interesting stories, such as the time someone cut the guy wire on a nearby tower, and the jocks kept broadcasting until someone could get to the transmitter site and set up, despite police orders to evacuate and the imminent danger of the tower falling over onto the studio. The page even includes audio snippets of the station, including of that night, which was different than normal, since the transmitter studio wasn't capable of delivering the tightly-formatted programming that the station was known for.

Many members of the CKLW staff of old are paid tribute to, most notably Byron MacGregor of CK's signature "20/20 News", better known for his hit single "The Americans". The story of his funeral gives a strong indication of how much impact CKLW had in the Detroit area (and all through the midwest) even 20 years after its prime. The audio snippets include old airchecks (complete with echo!), plus the jingles that gave the station so much of its sound.

Anyone with an interest in the history of radio, or who's just curious why someone would go to all that trouble to recreate the sound of a long-dead station should find The Classic CKLW Page an interesting and informative diversion.



Technical Topics

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Mobile SW Listening (Part 1)

Modern life has caused radio frequency noise pollution to proliferate. As we crowd together in townhouses and apartments, we have more trouble than ever listening to shortwave radio at home. Outside antenna restrictions can require us to locate our antennas in proximity to our own and our neighbor's noise generators. Switching power supplies in VCR's, TV sets and computers combined with light dimmers, touch-on lamps, and fluorescent lights often destroy the pleasure of listening to distant signals.

Government agencies charged with regulating such interference are primarily responsive to the overall contributions such devices make to society. Think of the BTU's saved each year by people who merely touch a lamp rather than waste effort by turning the switch. Regulators are also aware of the monetary contributions manufacturers of these polluters make to government legislators who control the purse strings of the regulatory agencies. Consequently regulators do as little as possible to restrict the sale of noise generators. Individual listeners have little influence with the regulators compared with the commercial interests that have the financial horsepower to influence lower regulatory standards on RF emissions.

Modern life also causes us to spend more and more time in our cars. Most of us spend at least an hour or two in our cars each day commuting. The trend to listen to shortwave radio in the car is thus driven by the need to escape RF pollution in the home and to fill the long boring hours behind the wheel with an intelligent alternative to the me-too programming found all too frequently on the domestic AM and FM dials.

Since 1993 I have probably listened to more hours of shortwave programming in my car

than I have at home. Two years ago I found myself driving from Washington, DC to Virginia Beach, VA at the time Radio St. Helena was scheduled to make their every-year-or-two broadcast. I heard enough of their broadcast in my truck to get a QSL from them. Now I'm not big on QSL's but I thought a report to them was in order given all the trouble they go through to present the broadcast. So I have lots of experience in mobile listening and I hope to share some tips with you in coming months.

In this series of articles I will look first at the types of equipment available for mobile listening. I'll examine the pros and cons of various types of receivers. Later parts of this series will provide suggestions for installation, mobile shortwave antennas, and reduction of ignition and powerline noise.

The least expensive way to enjoy shortwave in the car is to connect a converter between the normal car antenna and your normal car radio. These converters are typically fixed-tuned for each band. Tuning within the band is accomplished by tuning the car radio. This means that frequency readout will need some mental gyrations to convert the dial reading to the actual frequency. Before car radios adopted digital tuning, it was easy to tweak the car radio to compensate for frequency drift induced by the converter. Converters designed to work with analog radios will generally not work well with modern, digitally-tuned car radios.

Over the years I have used converters built by Audiovox, Becker and MFJ. You can find these analog-compatible converters at flea markets and hamfests for around \$25. I bought the Becker converter at the Kulpville SWL convention's silent auction for \$30.

As far as I know, MFJ is the only manufacturer currently marketing a SW converter designed for use with digital radios. They include a small frequency trimmer that allows the user to adjust the converter local oscillator to center the output on an integral 10kHz frequency multiple. The trimmer also allows the user to compensate for frequency drift induced by ambient temperature changes in the vehicle. The MFJ-306 covers only the 19, 25, 31 and 49 meter bands. At 49 meters sensitivity tends to fall rapidly either side of the optimum frequency. This roll off results from the Q of the fixed-tuned resonant circuits ahead of the mixer. For a given Q the bandwidth of a resonant circuit decreases as the frequency is decreased. A Q of 100 is typical. At 6 MHz such a circuit would have a 3dB bandwidth of only 60 kHz.

The MFJ-306 is sold direct from the factory or you can buy it from Universal Radio for \$74.95 plus \$4.00 shipping. (See the inside front cover for their address and phone.) I would recommend buying through a dealer because I have had bad luck with MFJ product support. Buying through a reputable dealer who offers warranty repair is therefore recommended.

Another option is to use a portable radio in the car. Tony Germanotta and Bob Hill run Sony 2010s in the car with good results. Tony uses his for easy listening in combination with an FM Sender to allow listening with the car's high powered audio system. (The FM Sender was described in the October 1996 issue of the NASWA Journal.) Most portable radios do not have sufficient audio power to overcome ambient road and engine noise when listening in motion.

Tony uses the built-in whip to listen to strong stations. If the BBC, Radio Netherlands, Radio Havana Cuba, Monitor Radio, and Radio Canada International are your targets, this kind of setup should work fine. (If you

want to listen to the tropical band frequencies coming from Nashville, I suggest a shorting plug in the antenna jack.) You can power the radio from its own batteries or from the FM Sender Model FS-100 if you can still find one.

You can also couple between your SW radio and the car radio by using an adapter that looks like a cassette tape. It plugs into the cassette player. Stores like K-Mart and Wal Mart sell these adapters for about \$20. They have the disadvantage of causing the tape player motor to run generating wear, heat, and potentially electrical-motor brush noise.

If DXing the rare ones is more to your taste, you can take a lesson from Bob Hill. He used his 2010 in combination with an active Sony antenna for DXing while parked in a quiet location away from power lines. Bob consistently heard lots of rare tropical band DX from all over the world using this combination. Remember the secret to successful DXing is maintaining a high signal to noise ratio. I'll show how to keep vehicle noise to a minimum in a later article in this series.

I personally use a ham transceiver, the Yaesu FT-890 for mobile listening. The 6 KHz IF bandwidth in the AM mode allows good quality reception of DSB AM broadcasters. The ability to receive in the SSB mode is useful for stations like RFPI and Radio St. Helena. The radio also features a good noise blanker, pass-band tuning and an IF notch filter to help difficult interference situations. If you can find a modern synthesized ham transceiver with general coverage receiver that has a blown transmitter you can probably get it for less than half its normal price.

Next month I'll discuss three in-dash receivers that are or recently have been marketed for SWL's. We'll also consider installation tips to minimize noise from automotive electronics. Until then stay tuned. 

Equipment Reviews

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Longwire Balun Comparison Test

The random wire antenna is probably the most commonly used antenna in the shortwave hobby. It is simple to construct and erect, inexpensive and offers good performance across the SW spectrum. It is usually erroneously referred to as a "longwire", although a true longwire is at least one wavelength long at the lowest frequency of interest. The typical configuration for a random wire is an approximately horizontal span of wire erected as high as practicable, with a length of wire connected from one end of the "flat-top" to the receiver. This physical configuration is responsible for an alternate name for this antenna—the inverted "L". In the classic random wire, the feedline from the antenna to receiver is a length of stranded wire. In essence, the feedline is a continuation of the antenna and is equally sensitive to signal pickup.

Since the feedline can pickup signals and it runs to the receiver in the house, it can pickup interfering signals from within the house. In addition, the single-wire feedline is usually vertically oriented, which tends to increase its susceptibility to noise pickup. Ideally, one would like to place the antenna at a distance that places it outside the noise field for the house and transfer the signal to the receiver via a feedline that would be immune to noise from nearby sources. The use of a shielded feedline becomes a very appealing idea. There are some theoretical disadvantages to simply connecting the center conductor of a length of coaxial cable to the end of the antenna, however. (Please note that antenna theory and antenna practicality are often widely divergent. About the only hard and fast rule regarding receiving antennas is "Watch out for power lines.")

The problem arises from impedance—the resistance to flow of alternating currents, which is what radio waves are. Impedance incorporates not only resistance, but capacitive and inductive reactance as well. Antennas, feedlines and receiver inputs all have characteristic impedances and maximum power transfer occurs when these impedances are matched. Most coaxial cables have a characteristic impedance of 50 -75 ohms and this is also the impedance that receivers with coaxial type antenna input connectors have. A random wire antenna has a widely varying impedance, depending on the received frequency, but is typically high, in the range of 450 to 600 ohms. Therefore, when a coaxial cable is directly connected to a random wire antenna there is an impedance mismatch and a potential signal loss.

The Balun

A balun is an impedance transformation device, i.e. a transformer. They are designed for use at RF frequencies and are usually constructed to cover a wide frequency range. The usual configuration for the ones we're interested in are several turns of wire on a doughnut of ferrite material. The term "balun" is derived from BALANCED to UNbalanced, which is another use for baluns—isolating a balanced system such as a dipole antenna (which is symmetric about its feedpoint) from its unbalanced (coaxial cable) feedline. Using a balun in this circumstance theoretically preserves the symmetry of the antenna's radiation or pickup pattern. Baluns designed for use with random wire antennas are actually "un-uns"—performing an impedance transformation from an unbalanced system (the coaxial cable) to another unbalanced system (the end-fed wire antenna). Yes, there

can be “ba-bas”, too, but “balun” is used as the generic term for any of these designs.

Baluns are typically built to provide a specific ratio of impedance transformation. A 1:1 ratio balun is used to connect coaxial cable (50 ohms) to a one-half wavelength dipole (typically 50-75 ohm impedance, depending on height above ground). In this case, the balun is used to convert the unbalanced signal on the feedline to the balanced configuration of the antenna without actual impedance transformation. A 4:1 balun can be employed to feed a 300 ohm folded dipole with 75 ohm coaxial cable. The impedance transformation ratio is determined by how the transformer is constructed. Baluns used for random wire antennas are in the range of 9:1, to transform the typical (but not always!) 450 ohm impedance of the wire to the 50 ohm impedance of the coax. One other feature that some baluns offer is that the balun provides a path to ground for DC voltages (but not RF!) through the shield of the coax which provides for a degree of protection from static discharge and lightning.

So, a balun designed for use with a random wire antenna should allow one to have the benefits of using a shielded feedline (less noise pickup) without the disadvantage of signal loss due to impedance mismatch between the antenna and feedline. There are now several baluns on the market that are designed for use with random wire antennas. I had previously looked at the RF Systems Magnetic Longwire Balun in July 1992 and I wanted to see if any of the baluns from other companies were any better, as well as check and see if a balun offered any benefits. Thanks to NASWAN and inveterate antenna experimenter John Wagner who loaned me his balun collection, I was able to do a comparison test.

What Is SWR?

For my previous balun tests, I had used a RF noise bridge which, in conjunction with a receiver, permits the measurement of an antenna system's impedance and to what extent it is resistive or reactive. For this test, John loaned me his MFJ-259 SWR analyzer. The MFJ-259 consists of a tunable radio

frequency signal generator, an LCD frequency display and a SWR meter, all in a single, portable unit. It costs \$239, but if you do a lot of antenna construction work, it makes “pruning” antennas a lot easier.

SWR stands for “standing wave ratio”. When there is an impedance mismatch between a feedline and a load, a percentage of the signal that is fed into the load from the feedline is reflected back into the feedline. SWR provides a comparison of incident power to reflected power, which is expressed as a ratio. A ratio of 1:1 indicates a perfect match. A 2:1 ratio would indicate that the feedline is 50 ohm, but the antenna is either 25 or 100 ohms impedance. It should be noted that reflected power is not necessarily lost—it goes back to the source and is then re-reflected. It is the inherent loss of the feedline that determines what happens to the reflected power—wire feeders have very low loss and loss in coax depends on the frequency and design of the cable. Foam-type cables generally are lower loss. It should also be emphasized that a low SWR is much more important in transmitting applications than receiving applications—generally a SWR of 2:1 or less is fine for transmitting and 4:1 or less is acceptable for receiving. Measuring the SWR may arguably not be the best way to test baluns, but it was expedient, thanks to the MFJ-259.

Test Methodology

My random wire is 120 feet long and is attached to a fifteen foot mast on my chimney at one end and the other end is about forty feet high and attached to a tree. About forty feet of the antenna stretches over the flat roof. I decided to test the baluns by attaching them to the antenna at the chimney end and using the MFJ analyzer connected to the balun through a short length of coaxial cable. The baluns I used were the RF Systems Magnetic Longwire Balun (MLB), the Palomar Engineers Magnetic Longwire Balun (MLB-1) and the Industrial Communications Engineers Model 180A Beverage/Longwire Matching Unit (ICE). The ICE unit provides output taps for 300, 450, 600 or 800 ohms and the center conductor of the coax is isolated from the antenna to a

level of 4,000 volts DC for lightning protection. One other caveat concerning the testing methodology is in order here—there was no earth ground used with any of the baluns. The ICE unit is primarily designed for Beverage antennas, which are true longwire antennas that are mounted close to the ground and the instructions state that the 180A should be mounted to a ground rod at the feedpoint of the antenna.

I decided to measure the SWR at the mid-points of each standard tropical or

| FREQ | COAX | MLB | MLB-1 | ICE300 | 450 | 600 | 800 | SHACK |
|-------|-------|-------|-------|--------|-------|--------|-------|-------|
| 2.4 | 4:1 | INF | INF | 4:1 | 4:1 | INF | INF | 0. S. |
| 3.3 | INF | 1.7:1 | 3:1 | 1.4:1 | 1.7:1 | 2.5:1 | 3:1 | INF |
| 3.95 | INF | INF | INF | 4:1 | 5:1 | 5:1 | 5:1 | 0. S. |
| 4.9 | INF | INF | INF | INF | INF | INF | INF | INF |
| 6.05 | 2.5:1 | 4:1 | INF | 3:1 | 5:1 | INF | INF | 5:1 |
| 7.2 | INF | 2.5:1 | 2:1 | 2.5:1 | 2:1 | 1.7:1 | 1.7:1 | INF |
| 9.7 | 2.5:1 | 4:1 | INF | 4:1 | 5:1 | INF | INF | 5:1 |
| 11.85 | INF | 3.5:1 | 4:1 | 4:1 | 3:1 | 3:1 | 3:1 | INF |
| 13.7 | INF | 2:1 | 3:1 | 1.3:1 | 1.7:1 | 2.5:1 | 3:1 | 3:1 |
| 15.35 | INF | 3:1 | 2.5:1 | 3:1 | 3:1 | 2.25:1 | 2:1 | 3:1 |
| 17.7 | INF | 2.5:1 | 1.7:1 | 3:1 | 3:1 | 1.7:1 | 1.5:1 | 3:1 |
| 21.6 | INF | 3.5:1 | INF | INF | INF | INF | INF | 4:1 |
| 25.85 | INF | 3:1 | INF | INF | INF | INF | INF | 3:1 |

I then wanted to see what effect the baluns had on received signal strength to assess if there was any insertion loss due to the baluns. I hauled a Kenwood R-1000 and an extension cord up on the roof to minimize the effects of feedline loss. I used WWV at 5, 10 and 15

| FREQ | COAX | MLB | MLB-1 | ICE300 | 450 | 600 | 800 |
|------|-------|-------|-------|--------|-------|-------|-------|
| 5 | S9+10 | S9+20 | S9+20 | S9+20 | S9+20 | S9+20 | S9+10 |
| 10 | S9+30 | S9+35 | S9+35 | S9+35 | S9+30 | S9+30 | S9+30 |
| 15 | S9 | S9+5 | S9 | S9 | S8 | S9 | S9 |

What's It All Mean?

I think it means I need to look for another type of antenna, at least in terms of providing resonance on the frequencies of interest. I used the MFJ analyzer to measure the points of lowest SWR on my usual random wire (120' with RF Systems MLB and approximately 40' feedline). The lowest points, typically a SWR of 3:1, were at 3.3, 4.3, 4.7, 6.4, 10.5, 13.75, 19.3 and 22.25 MHz. The SWR varied widely between these points. For comparison, I analyzed my parallel dipole, which I cut to length for the 90 and 60 meter bands by formula and then erected without any additional pruning. It

international broadcasting bands. The data is listed in a tabular form for coax alone, the RF Systems balun, the Palomar and the ICE (with data for each tap point). "SHACK" are the measurements made in the shack at the end of a 40' length of coax with the shield connected to an earth ground and using the RF Systems balun (the model I have been using). "O.S." indicates the meter went off the high end of the scale and "INF" indicates a meter reading of infinitely high SWR. Frequency is in megahertz.

MHz as the signal source and tried to change baluns and take measurements as quickly as possible to minimize the effects of changes in propagation on signal levels. Here's the data:

had resonant points at 3.375 MHz with a SWR of 1.8:1 and a bandwidth between 3:1 SWR points of about 200 kHz and 5.080 MHz with a SWR of 1.6:1 and a 3:1 bandwidth of 110 kHz. In theory, a dipole should also have resonances at odd multiples of a halfwave and I found this to be true. My dipole had SWR dips at 10.2, 15.25, 17.37 and 25.345 MHz with the SWR at these points ranging between 2.8:1 and 2.3:1.

The question is how much difference does resonance make? The dipole does seem to yield very slightly higher signal strengths on bands where it is resonant, for the most part. There is definitely variation depending on

the location of the transmitter, since each antenna has differing directional response patterns. The other confounding factor is that the feedline for the dipole is two to three times longer than the feedline for the random wire, so there may be some attenuation there, although only in the range of one dB for foam coax in the HF region, according to the textbooks.

But back to random wire baluns. I don't think that there was any clear winner among the brands tested. Using a balun did seem to yield an increase in received signal strength even though they didn't provide a "perfect" impedance match. They definitely make it easier to provide a weather resistant connection between the coax and antenna wire and I feel that using a shielded feedline is much better than using an unshielded wire to feed the signal to the receiver. The baluns also offer a convenient way to ensure that the antenna wire is at ground potential relative to DC voltages, thus preventing the build-up of

potential receiver-damaging static charges on the antenna, as well as providing some measure of protection from lightning. I think the optimum solution to the problem of matching a random wire's impedance to that of coaxial cable would be a remotely controlled antenna tuner which could be mounted at the antenna's feedpoint. Heathkit made such a unit briefly, but it is now history.

It often seems that antennas are "voodoo" rather than science. This is due to the large number of variables that can affect an antenna's performance. These variables include height above ground, proximity of nearby structures, both natural and man-made and nearby noise sources. The bottom line is don't be afraid to experiment with different antenna types and orientations. As stated above, the only hard and fast rules concerning antennas are to watch out for power lines and be careful when climbing trees or roofs.



Hardware Bits by Alan Johnson

KIWA ELECTRONICS—I recently installed a set of the Kiwa replacement filters for the Sony ICF-2010 and I highly recommend them. The wide filter is a direct replacement and its bandwidth is around 6.2 kHz at -6 dB vs. 9-10 kHz for the stock filter. The narrow filter replacement is a 3.2 to 3.6 kHz bandwidth filter module that is mounted off the board and replaces the stock narrow filter which measured around 5 kHz bandwidth in my '2010. Installation is easy, as long as you have had some experience with soldering and desoldering on high component density printed circuit boards. I would recommend using a narrow tip soldering iron—I used a 1/8" chisel tip which was almost too wide.

New items from Kiwa include extensive modifications for the Japan Radio NRD-535 receiver to improve ultimate rejection, audio performance, sync detector lock and tone control action. These mods require sending the receiver to Kiwa. There are also plans to introduce the "Poster Loop", which will be a 9" by 12" passive loop covering 540 to 1700 kHz to improve the MW performance of portable receivers. It couples to the ferrite rod antenna of the portable radio. Kiwa Electronics can be contacted at 612 South 14th Ave, Yakima, WA 98902; (509) 453-5492; E-mail kiwa@wolfe.net or see their Web page at <http://www.wolfe.net/~kiwa/>.

MULTIBAND SHORTENED DIPOLE ANTENNA—Although it's getting a bit cold for antenna projects, there is an article on page nine of the November 1996 issue of the ham radio magazine "CQ". It discusses the construction of a parallel dipole which is shortened by the use of loading coils. The coil construction details are given by a computer program "HAMCALC" for IBM PC's, which was written by the article's author and is available on a 3.5" diskette for \$5 US from George Murphy, 77 McKenzie St., Orillia, ON L3V 6A6 CANADA.



Listener's Notebook

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

WHEW! Just enough time after editing this monster to wish all contributors to and readers of LN a happy, healthy, and DX-filled 1997!

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AFGHANISTAN Nangarhar Radio has installed a new 300 kW transmitter, now capable of "transmissions on both SW & MW." Sked is 0230 0330 and 1130-1330, and, of course, no shortwave freqs were mentioned. (17-Nov/R. Voice of Shari'ah/BBCM)

ALBANIA Radio Tirana sked:

| | | |
|-----------|--------------|-------------|
| 0000-0500 | Albanian | 7270v 6120 |
| 0145-0200 | English | 7160v 6115 |
| 0230-0300 | English | 7160v 6140v |
| 0400-2300 | Albanian/HS1 | 6100 |
| 0800-1100 | Albanian | 7150 |
| 1000-1500 | Albanian/HS2 | 6145 |
| 1500-1800 | Albanian | 7270v 5985 |
| 1715-1730 | English | 7155v 6185v |
| 1730-1800 | Italian | 7170 |
| 1830-1900 | German | 7270v 6270 |
| 1900-1915 | Greek | 7105 6235 |
| 1900-1930 | French | 7270v 6270 |
| 1915-1930 | Turkish | 7105 6015 |
| 1930-2000 | English | 7270v 6270 |
| 2000-2300 | Albanian | 9740 6170 |
| 2200-2215 | Serbian | 7170 5985 |
| 2300-2400 | Albanian | 7270v 6120 |

(BBCM)

Conflicting sked/freqs reported:

| | | |
|-----------|--------------|-----------|
| 0600-1500 | Albanian/HS1 | 6100 |
| 0900-1500 | Albanian/HS2 | 6145 |
| 2000-2300 | Albanian | 6170 9725 |
| 1900-1915 | Greek | 5985 7170 |

(3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

Radio Tirana dismissed allegations that Albanian-language programs of the Voice of the Islamic Republic Of Iran are transmitted via their facilities. The station implied a political purpose to the accusations. (BBCM)

ALGERIA Thanks to a tip on Austria's DX-Telegramm, I heard R. Algiers Int'l in English at a new time 1400 11-Dec a het above 15205—not a good choice, co-channel to VOA. Opened with announcement in English giving 15205, 15160, 11715, and only other English time as 2000 on longwave only, so I suppose the 1600-1700 broadcast heard a few

weeks ago is gone. 6-Dec at 1626, found undermodulated French on 17745, probably Algiers. A month ago Brian Alexander measured this on 15205.16, and that sounds about right; somewhat separable from VOA by tuning to high side (12-Dec/Hausser/WOR) 15205.23 (22 Dec/Sundstrom)

ANGOLA UNITA's news agency claims the Voice of Resistance of the Black Cockerel, Vorgana, will be privatized as soon as all political issues relating to the Lusaka peace accord have been settled. The buyer will be the Polytechnic Academy, a Luanda-based limited company involved in all media. The new radio station will be called Radio Despertar [Wake Up Radio] and will continue to broadcast on 11830, 7100 and 9700 kHz. (BBCM)

ANGUILLA From a source associated with the organization in question, "Dr. Scott may be about to get approval from the Anguilla govt to start using his 100 kW new Continental transmitter. There was apparently an Executive meeting of the Government last week to approve the go ahead, subject to installing a fence around the site." (Magne/Lamb) In response to the above item, I called the station on 17-Dec and spoke with Harold Vanterpool. He tells me that Dr. Scott told the station to shut down on 24-Nov and that they had been off of the air, both on AM and FM, since then. Vanterpool didn't know why the station had gone off and he didn't know of any plans to start the shortwave. (17-Dec/direct/Johnson/Cumbre)

ARGENTINA

- 3200.37(h) R. Armonia, hrd around 0600, also at 0738 with romantic tango vocals. (6-Dec/Berg-MA/Cumbre)
- 6400(h) R. Armonia 0311 Religious pgm "Dios es Amor" fair (4X1600). (10-Dec/Nigro-URU/Cumbre)
- 13361L Radio Rivadavia 2220-2250 w/ sports nx & talk, lottery numbers, ID and pips at 2230. Slogan "Somos la verdad." (7-Dec/Moore/MARE/Cumbre)

13361 "SMQ" 2302-2335 w/ rock, IDs for 105.5 FM, & phone-ins. This in USB with Rivadavia still there in LSB. This had not been there when I tuned in to Rivadavia just a short time before. Tnx to Harold Frodge & Larry Russell for noticing this. I'm uncertain of the name, but it seemed to be SMQ. Help on this one from Rio de la Plata region would be appreciated. (7-Dec/Moore/MARE/Cumbre)

ARMENIA Voice of Armenia external svce sked:

| | | |
|-----------|----------|--------------------------------|
| 0200-0230 | Armenian | 9965 |
| 0230-0245 | Spanish | 9965 |
| 0730-0745 | Armenian | 15270 Su |
| 0745-0800 | Persian | 15270 Su |
| 0800-0815 | Spanish | 15270 Su |
| 0900-0930 | French | 15270 Su |
| 0930-1000 | English | 15270 Su |
| 1500-1530 | Azeri | 7480 4990 4810 Mo-Fr |
| 1530-1545 | Georgian | 7480 4990 4810 |
| 1545-1630 | Kurdish | 7480 4990 4810 |
| 1630-1700 | Persian | 7480 4990 4810 |
| 1700-1730 | Russian | 7480 4990 4810 |
| 1730-1830 | Armenian | 7480 4990 4810 |
| 1830-1845 | Turkish | 7480 4990 4810 Mo-Fr |
| 1830-1900 | Turkish | 7480 4990 4810 Sa/Su |
| 1845-1900 | English | 7480 4990 4810 Mo-Fr |
| 1900-2000 | Arabic | 7480 4990 4810 |
| 2000-2200 | Armenian | 7480 4990 4810 |
| 2100-2130 | French | 11615-(announced) 9965 7480 |
| 2130-2200 | English | 11615-(announced) 9965 7480 |
| 2200-2230 | Spanish | 11615-(announced) 9965 7480 |
| 2230-2245 | Armenian | 11615-(announced) 9965 7480 |

(BBCM)

Radio Intercontinental:

| | | |
|-----------|--------|------------|
| 1000-1030 | German | 15270 |
| 1800-1830 | German | 9965 Mo-Sa |
| 1800-1900 | German | 9965 Su |
| 1900-1915 | German | 9965 Mo-Sa |
| 1900-1930 | German | 9965 Su |

(3-Dec/NDXC/EDXP/BCDX/Bueschel-FRG & RVI/van Oudheusden/Padula/EDXP & Sundstrom)

AUSTRALIA Radio Australia now using 7380 (ex-7330 & 7150) for its 1430-1600 release. Khmer is now on 7150 (x9500) at 1130-1230. (DasGupta-IND/Padula)

The new Australian government cut the ABC's budget for the year 1997-8 by \$55m. ABC Board and management team looking at every conceivable way to save money. Apparently, three proposals for downsizing RA are currently with the ABC Board:

1. \$1m will be cut from its budget. This would involve 15-20 staff going and loss of French and Cantonese services.

2. Pidgin, French, Cantonese, Khmer and Vietnamese language services would go. Mandarin and Indonesian would be cut to only two hours a day and the English service would be a composite of RA's English service and ABC's domestic services.

3. ABC would ask SBS to takeover the remaining language services. Also RA's English service would be dropped in favour of a relay of the ABC's domestic services. (21-Nov/RN Media Network/Ogrizek/Padula/EDXP)

Radio Australia is to introduce a "new and improved" format from 22nd January, listeners to the station's "Feedback" feature were told.

Full details will be released on air and in print nearer the time, but "muzak" which had annoyed a respondent will be removed from the schedule, although music features will remain. The new format will include a 60-minute news and current affairs program every three hours and listeners will still hear 10 minutes of news on the hour, every hour, Radio Australia said. (BBCM)

AUSTRIA Radio Austria International sked, C=via Sackville:

| | | |
|-----------|-----------|---|
| 0000-0030 | German | 9870 9495 7325 |
| 0030-0100 | English | 7325 |
| 0030-0100 | Spanish | 9870 9495 |
| 0100-0230 | German | 9870 9495 7325 (not Mo 0130-0200) |
| 0130-0200 | Esperanto | 9870 9495 7325 Mo |
| 0230-0300 | English | 9870 9495 7325 |
| 0300-0330 | German | 9870 9495 |
| 0330-0400 | Spanish | 9870 9495 |
| 0400-0500 | German | 13730 6155 (not Su 0430-0500) |
| 0430-0500 | Esperanto | 13730 6155 Su |
| 0500-0530 | German | 17870 15410 13730 6155 6015C (not Su 0505-0530) |
| 0505-0530 | Arabic | 17870 15410 13730 6155 6015C Su |
| 0530-0600 | English | 17870 15410 13730 6155 6015C |
| 0600-0630 | German | 17870 15410 13730 6155 6015C |
| 0630-0700 | English | 6015C |
| 0630-0730 | German | 17870 15410 13730 6155 |
| 0730-0800 | French | 17870 15410 13730 6155 |
| 0800-0830 | German | 17870 15240 13730 6155 |
| 0830-0900 | English | 17870 15240 13730 6155 |
| 0900-1030 | German | 17870 15240 13730 6155 |
| 1030-1100 | English | 17870 15240 13730 6155 |
| 1100-1130 | German | 13730 6155 |
| 1130-1200 | French | 13730 6155 |

| | | |
|-----------|-----------|-----------------------------------|
| 1200-1330 | German | 13730 6155 (not Su 1230-1300) |
| 1230-1300 | Esperanto | 13730 6155 Su |
| 1330-1400 | English | 13730 6155 |
| 1400-1430 | German | 13730 6155 |
| 1430-1500 | Spanish | 13730 6155 |
| 1500-1530 | German | 13730 11780 9655 6155 |
| 1530-1600 | English | 13730 11780 9655 6155 |
| 1600-1630 | German | 13730 11780 9655 6155 |
| 1630-1700 | English | 11780 |
| 1630-1700 | German | 13730 9655 6155 |
| 1700-1730 | German | 13730 11780 9655 6155 |
| 1730-1800 | French | 13730 11780 9655 6155 |
| 1800-1900 | German | 9655 6155 5945 (not Su 1830-1900) |
| 1830-1900 | Arabic | 9655 6155 5945 Su |
| 1900-1930 | German | 9495 6155 5945 |
| 1930-2000 | English | 9495 6155 5945 |
| 2000-2030 | German | 9495 6155 5945 |
| 2030-2100 | French | 9495 6155 5945 |
| 2100-2130 | German | 9495 6155 5945 |
| 2130-2200 | Spanish | 9495 6155 5945 |
| 2200-2230 | German | 9495 6155 5945 |
| 2230-2300 | English | 9495 6155 5945 |
| 2300-2330 | German | 9870 |
| 2330-2400 | Spanish | 9870 |

(BBCM)

BELGIUM Radio Vlaanderen Internationaal (RVI) sked thru 30th March 1997:

| | | |
|-----------|---------|---------------------------|
| 0000-0025 | Spanish | 9925 5900 |
| 0030-0055 | English | 9925 5900 |
| 0600-0655 | Dutch | 9925 5985 |
| 0700-0730 | Dutch | 9940 9925 5985 |
| 0730-0755 | English | 9940 9925 5985 |
| 0800-0825 | French | 15545 9925 6035 |
| 0830-0930 | Dutch | 9925 9905 6035 Mo-Sa |
| 0830-0955 | Dutch | 15545 9925 6035 Su |
| 0930-0955 | German | 9905 6035 Mo-Sa |
| 1000-1025 | English | 6035 Mo-Sa |
| 1000-1025 | German | 9905 6035 Su |
| 1030-1055 | French | 17610 15510 6035 |
| 1100-1155 | Dutch | 17610 15510 6035 |
| 1200-1230 | Dutch | 17610 13685 9925 |
| 1230-1255 | Spanish | 13685 9925 |
| 1300-1325 | Dutch | 13795 13685 13670 6035 |
| 1300-1325 | Dutch | 13795 13685 6035 Su |
| 1330-1355 | Dutch | 13795 13685 Mo-Sa |
| 1330-1355 | English | 13795 13685 Su |
| 1400-1425 | English | 13795 13685 Mo-Sa |
| 1400-1655 | Dutch | 17690 9925 5910 Su |
| 1430-1455 | French | 13685 Mo-Sa |
| 1530-1555 | Dutch | 5910 Sa |
| 1600-1655 | Dutch | 11850 Sa |
| 1700-1730 | Dutch | 11685 9925 5910 |
| 1730-1755 | Arabic | 11685 9925 5910 |
| 1800-1830 | Dutch | 9925 7250 5910 |
| 1830-1855 | German | 7250 5910 |
| 1900-1925 | English | 9925 5910-(not Sat) Su-Fr |
| 1900-2100 | Dutch | 9940 5910 Sa |

| | | |
|-----------|---------|---------------------------|
| 1930-1955 | French | 9925 5910-(not Sat) Su-Fr |
| 2000-2055 | Dutch | 9925 5910-(not Sat) Su-Fr |
| 2100-2125 | Dutch | 9850 5910 |
| 2130-2155 | Spanish | 9850 5910 |
| 2200-2225 | English | 5910 |
| 2230-2255 | French | 5900 |
| 2300-2400 | Dutch | 9925 5900 |

(BBCM/RVI)

BRTN [Belgische Radio en Televisie] has announced a drastic restructuring of its world radio sce Radio Vlaanderen Internationaal [RVI]. The reform, which will be implemented at the end of October of 1997, includes the axing of RVI's bcs in Spanish, German & Arabic. Broadcasts in Dutch, French and English will continue. Overall SW transmissions will be reduced from the present 300 hours/week to only 140 hours. Wavre site will only be used for transmission to Europe and Africa. Other target areas will be served by German and Russian sites. (10-Dec/RVI/BBCM/AGDX)

BHUTAN 5030 kHz tentatively, Thimpu appears to have gone to winter time sked (=one hour earlier s/off, English at 1315, etc.). Basis of assumption is unheard at 1430 today! (7-Dec/Goonetilleke-CLN/UADX/BCDX/Bueschel-FRG)

BOLIVIA

- 4471.9 Radio Movima, Santa Ana de Yacuma 2251 with M in non-stop SS talk. (20-Dec/Steyn/DSWCI DX Window)
- 4552.4 R. Tropic 2240 Assumed this one with segued EZL pop vocals in Spanish; long, awkward pauses between numbers, giving the impression of some pretty amateurish engineering. Past 2300, no announcements at all. Astounding, room-filling signal—absolutely clear and solid, 100% readable even with wide filter. Very unusual reception! (8-Dec/Hill) 4600 Perla Del Acre, Cobija 0030 blasting in with one of the best signals yet. (16 Dec/Wilkner/DSWCI DX Window)
- 4599.29 R. Villamontes?, strong carrier 1010, and most mornings, anyone closer to the site care to report if this is VillaMontes? (16-Dec/Wilkner/Cumbre)
- 4632.43 Radio 11 de Octubre (p) 1051 Iberoamerican pops andMtalk. (14-Dec/TIN) 4719.8 R. Abaroa, Beni; 0006-0028 mx rancheras, ID. (18-Dec/Arrunategui-PRU)
- 4875.0 R. La Cruz del Sur, La Paz; 0054-0115 ID "Por Aniversario de radio La Cruz del Sur.." s/off (0110) (13 Dec/Arrunategui-PRU)

BOTSWANA Radio Botswana noted at 04-05 using all three frequencies: 7255, 4820 and 3356. (Sundstrom-NJ, Dec 22)

BRAZIL

- 3255 Radio Dif. 6 de Agosto, s/on with NA *1009. (Klemetz-CLM/Dateline Bogota)
- 3384.9 Radio Educacao Rural de Tefe, 0015, powerful signal, full ID and into a message slot. (1-Dec/Klemetz CLM/Dateline Bogota)
- 4845 Radio Cultura Ondas Tropicais; Cumbre had this listed as Radio Cabocla, but according to Dx Window, the station changed its name to the former in March. Thanks to Willi Passmann for pointing this out. (6-Dec/Johnson/Cumbre)
- 4865.0 R. Verde Flores, Cruzeiro do Sul; 0145-0248 mx in PP and SS, IDs. (18-Dec/Arrunategui-PRU)
- 4885.0 R. Difusora Acreana, Rio Branco; 0124-0203 ads, mx, ID "Transmite en 4885 KHz onda tropical radio Difusora Acreana.." (13-Dec/Arrunategui-PRU)

HF channels currently off the air are 6150 (R. Record), 9695 (R. Rio Mar), 11855 (R. Aparecida) and 15190 (R. Inconfidencia). All other channels seem to be active, although R. Anhanguera (6080 and 11830) tends to be a little irregular. (Jones-PAR/NU/DSWCI DX Window/Cumbre)

R. Brasil Central 4985/11815, now *0600 (ex-*0630), and not all-night as recent rpts have suggested. (1 Dec/Jones-PAR/NU/Padula/EDXP)

R. Nova Visao 5965/11705 has retimed its German broadcasts to 0830-0900. Like the rest of the station's programming, the GG b/cs are a relay of Trans World Radio (Radio Transmundial). (1-Dec/Jones-PAR/NU/Padula/EDXP)

Radio Cultura 6170, has added an hour of its AM programming (/ /9615 and 17815) at 0800-0900, before switching to a relay of its FM outlet. (1-Dec/Jones-PAR/NU/Padula/EDXP)

According to April 12, 1996 Diario Oficial, the Ministry of Communications has enlarged the SW bands to include 9775-9900, 11650-11700, 11975-12050, 13600-13800, 15450-15600, 17550-17700 and 21750-21850. First permission to broadcast in these new areas has been issued to Radio Nove de Julho, 9820, which should be on air within 6 mos. Belonging to the Archdiocese of Sao Paulo, it was closed by the military regime in 1973. (1-Dec/Loss-BRZ/DX Clube Paulista/Knutsson-SWE/SWB/NU/Padula/EDXP)

BURKINA FASO 9515 Radio Burkina 0840-0914 Tentative w/M&W in vernacular to 0900, then FF talk, Afro mx, interesting drums. Possible ID. Good until 0900 then heavy QRM from much stronger co-channel Brazilian sign-on. Soon faded away. (8 Dec/Moore/MARE/Cumbre)

CAMEROON Radio Cameroon, Yaounde, has reactivated 4850 CRTV, widely noted from around 1800 to

past 2200. Programs in French with some English interspersed, and an English news bulletin from 2100-2115. (Berg/Krone/Goonetilleke/Rausch/Moore/D'Angelo/Quaglieri)

CANADA Radio Canada International (RCI) once again faced imminent closure, this time in March 1997, but was rerieved by renewed funding. Monies will come from the Department of Foreign Affairs, the Prime Minister's budget, the Department of International Cooperation and Development and the Department of National Defence. (RCI/BBCM)

Schedule effective 27th October 1996-30th March 1997. The relays of CBC domestic broadcasts in English originate from Toronto whilst RCI's own programs and the SRC domestic broadcasts in French come from Montreal. PK broadcasts are for Canadian peacekeeping forces.

| | | | |
|-----------|-------------|--|--------|
| 0000-0030 | English-CBC | 11940 9535 6040 | Tu-Sa |
| 0000-0100 | English-CBC | 9755 5960 | Su/Mo |
| 0000-0100 | Spanish | 11940 9535 6040 | Su/Mo |
| 0030-0100 | Spanish | 11940 9535 6040 | Tu-Sa |
| 0030-0200 | French-RCI | 9755 | Tu-Sa |
| 0100-0030 | French-RCI | 11725 9755 9535 | |
| 0130-0200 | Spanish | 11725 9535 | Tu-Sa |
| 0200-0300 | English-RCI | 11725 9755 9535 6155 | |
| 0300-0330 | English-PK | 9755 6155 | Tu-Sa |
| 0300-0330 | French-RCI | 9505-m 6025-u | |
| 0300-0400 | English-CBC | 9755 6155 | Su/Mo |
| 0330-0400 | Arabic | 9615-w 9505-m 7210-s | |
| 0330-0400 | French-PJ | 9755 6155 | Tu-Sa |
| 0400-0430 | English-RCI | 9645-u 9505-m 6150-s | |
| 0430-0500 | Arabic | 11715-m 9505-w 7200-w | |
| 0600-0630 | English-PK | 11905-u 9760 9740-u 6150 6050-u | Mo-Fr |
| 0630-0700 | French-PK | 11905-u 9760 9740-u 6150 6050-u | Mo-Fr |
| 1200-1230 | English-RCI | 11730-y | 6150-y |
| 1230-1300 | French-CBC/ | 11730-y | 6150-y |
| | rci | | |
| 1300-1325 | Chinese | 11955-y 7260-k | 6150-y |
| 1300-1400 | English-CBC | 11855 | 9640 |
| 1300-1400 | French-CBC | 15425 | 9650 |
| 1330-1400 | English-RCI | 9535-x | 6150-x |
| 1400-1500 | English-CBC | 11855 9640 | Mo-Fr |
| 1400-1700 | English-CBC | 11855 9640 | Su |
| 1400-1700 | French-CBC | 15325 | Su |
| 1430-1455 | Chinese | 7235-y 6150-y | 6030-k |
| 1430-1500 | English-RCI | 15325-s 11935-u 11915-s 9555-u | |
| 1500-1600 | French-CBC | 17820 15325-(not su) 11935-u 11915-s 9555-u | |
| 1600-1700 | Russian | 17820-(not su) 15325-(not su) 11935-(not su) 9555-u 7265-u 6185-y 6150-k | |
| 1630-1657 | English-RCI | 9550-x | 7150-x |
| 1700-1800 | Ukrainian | 17820 15325 11935 9555-u 5995-u | |
| 1800-1900 | Russian | 17820 15325 13650 11945 7235-u 5995-u | |

| | | | | | |
|-----------|-------------|---|-----------|---------------------|--|
| 1900-2000 | Ukrainian | 17820 15325 13650 11945 7235-u 7200-u | 0900-1000 | Chinese | 15180 12015 11945 11695 11685 11650 11500 9945 9480 6590 |
| 2000-2100 | French-RCI | 17820 15150 13690 13650 11945 9805 7235-u 5995-u 5925 | 0900-1000 | English | 15440 11755 |
| 2100-2200 | English-RCI | 15150 13690 13650 11945 11705 9805 7235-u 5995-u 5925 | 0930-1030 | Malay | 17680 15135 8660 6995 |
| 2200-2230 | English-CBC | 15150 13690 11945 11705- y 9805 7235-u 5995-u | 0930-1530 | Japanese | 9855 7190 |
| 2230-2300 | French-RCI | 13690 11945 11705-y 9755 7235-u 5995-u 5960 | 1000-1100 | Cantonese | 15100 11915 11650 |
| 2300-2330 | English-CBC | 11940 9755 9535 6010 5960 | 1000-1100 | Chinese | 12015 11945 11685 6590 |
| 2330-2400 | English-CBC | 11940 9755 9535 6010 5960 Sa/Su | 1000-1100 | English | 15440 11755 |
| 2330-2400 | English-CBC | 9755 5960 Mo-Fr | 1000-1100 | Russian | 11980 7820 7110 5145 4815 |
| 2330-2400 | Spanish | 11940 9535 6040 Mo-Fr | 1030-1130 | Cambodian | 11780 9440 6550 |
| | | | 1030-1130 | Indonesian | 15135 11445 6995 |
| | | | 1100-1130 | Esperanto | 9480 |
| | | | 1100-1200 | Cantonese | 12015 11945 11685 |
| | | | 1100-1200 | Mongolian | 5850 5145 |
| | | | 1100-1200 | Russian | 7820 7110 4815 |
| | | | 1100-1200 | Vietnamese | 9550 6110 |
| | | | 1100-1300 | Korean | 5965 |
| | | | 1130-1200 | Burmese | 11825 9880 6550 |
| | | | 1130-1200 | Tagalog/ English | 11700 11445 6995 |
| | | | 1130-1230 | Thai | 7350 6590 6010 |
| | | | 1200-1230 | Tagalog/ English | 12110 11700 6995 |
| | | | 1200-1300 | Cambodian | 11780 8260 |
| | | | 1200-1300 | Chinese | 15260 12015 11945 11685 |
| | | | 1200-1300 | English | 15440 11795 11660 9715 9565 7385 1341 |
| | | | 1200-1300 | Mongolian | 5850 5145 4883 4815 |
| | | | 1200-1300 | Vietnamese | 9550 6110 |
| | | | 1230-1330 | Laotian | 7350 6590 |
| | | | 1230-1330 | Malay | 15135 11445 6995 |
| | | | 1300-1330 | Burmese | 11825 9880 6550 |
| | | | 1300-1330 | Esperanto | 11840 11600 |
| | | | 1300-1400 | Chinese | 15260 12015 11945 11685 |
| | | | 1300-1400 | English | 11660 9715 7410 7385 |
| | | | 1300-1400 | Russian | 7820 5850 5145 4883 4815 |
| | | | 1300-1400 | Vietnamese | 9550 6110 |
| | | | 1300-1500 | Korean | 5965 |
| | | | 1330-1400 | Burmese | 11825 9880 6550 |
| | | | 1330-1430 | Indonesian | 15135 11445 6995 |
| | | | 1330-1430 | Thai | 7350 6590 |
| | | | 1400-1430 | Sinhalese | 7120 |
| | | | 1400-1430 | Tamil | 11575 9457v |
| | | | 1400-1430 | Turkish | 9655 9480 |
| | | | 1400-1500 | Amoy | 12015 11650 |
| | | | 1400-1500 | Cambodian | 9440 8260 |
| | | | 1400-1500 | English | 9785 9535 7405 |
| | | | 1400-1500 | Mongolian | 5850 5145 4883 4815 |
| | | | 1400-1500 | Vietnamese | 9550 |
| | | | 1430-1500 | Sinhalese | 11780 7120 |
| | | | 1430-1500 | Tagalog/ English | 11445 9880 8660 6995 |
| | | | 1430-1500 | Tamil | 11575 9457v |
| | | | 1430-1530 | Laotian | 7350 6590 6010 |
| | | | 1500-1530 | Bengali | 11825 7260 6995 |
| | | | 1500-1530 | Nepali | 11445 6955 |
| | | | 1500-1530 | Pashto | 9700 7480 5220 |

| | | | | | |
|-----------|------------|--|---|-------------|---------------------------------|
| 1500-1530 | Persian | 9440 6955 | 2000-2030 | Serbo-Croat | 9860 9365 7385 |
| 1500-1600 | Chinese | 9457 7110 6550 | 2000-2100 | Chinese | 7780 7660 7435 7185 6955 |
| 1500-1600 | English | 9785 9535 7405 | 2000-2100 | English | 15110 11715 9920 9440 6950 5220 |
| 1500-1600 | Hindi | 9920 7590 7180 | 2000-2100 | Hungarian | 9365 7580 5808 |
| 1500-1600 | Russian | 7780 7435 7375 4883 4815 | 2000-2100 | Russian | ???? |
| 1500-1600 | Vietnamese | 9550 | 2030-2100 | Bulgarian | ???? |
| 1530-1600 | Bengali | 7260 6995 | 2030-2100 | Italian | 9965 7385 |
| 1530-1600 | Nepali | 11445 7260 6590 | 2030-2100 | Polish | 7405 7375 4960 |
| 1530-1600 | Pashto | 9700 7480 5220 | 2030-2130 | French | 9820 7800 7335 7210 7110 |
| 1600-1630 | Swahili | 9457v 7335 5250 | 2100-2130 | Albanian | 7405 4960 |
| 1600-1630 | Turkish | 9785 7480 | 2100-2130 | Chinese | 6165S |
| 1600-1630 | Urdu | 9675 7590 6920 | 2100-2130 | English | 15110 11715 9920 6950 5220 |
| 1600-1700 | Arabic | 9760 9440 7130 | 2100-2130 | German | 3985S |
| 1600-1700 | English | 15130 15110 | 2100-2130 | Italian | 9965 9365 |
| 1600-1700 | Hakka | 9900 7260 | 2100-2130 | Serbo-Croat | 9860 7405 4960 |
| 1600-1700 | Hindi | 9920 7180 6995 6720 | 2100-2200 | Arabic | 9440 7260 6955 |
| 1600-1700 | Russian | 9860 9655 7780 7435 7375 6950 | 2100-2200 | Spanish | 7480 7360 6933 |
| 1600-1700 | Vietnamese | 7360 6590 6010 | 2130-2200 | English | 9920 6950 5220 |
| 1630-1700 | Swahili | 9457 7335 6965 5250 | 2130-2200 | French | 3985S |
| 1630-1700 | Urdu | 11690 9675 9675 7590 6920 | 2130-2200 | Hungarian | 6150 |
| 1700-1730 | Swahili | 15110 11790 9455 5250 | 2130-2200 | Serbo-Croat | 6165S |
| 1700-1800 | Cantonese | 9900 6920 | 2130-2230 | French | 11790 9820 9770 7800 7335 7110 |
| 1700-1800 | English | 7405 7335-(to 1730) 7150 6965-(to 1730) 5220 | 2200-2230 | English | 3985S |
| 1700-1800 | Russian | 11500 9860 9655 7780 7470 7435 7375 6950 | 2200-2230 | Portuguese | 7535 7435 6950 |
| 1730-1800 | Hausa | 15110 11790 7235 | 2200-2230 | Spanish | 6165S |
| 1730-1830 | Chinese | 9820 7800 7335 7110 6965 5250 | 2200-2300 | English | 7170 |
| 1800-1830 | Hausa | 15110 11790 7405 7235 4960 | 2200-2300 | Spanish | 13865 7480 7360 6933 |
| 1800-1830 | Hungarian | 9860 7385 6933 | 2230-2300 | Esperanto | 9860 6950 |
| 1800-1830 | Persian | 9440 6955 | 2230-2300 | Italian | 3985S |
| 1800-1900 | German | 9920 6950 5220 | 2230-2300 | Portuguese | 6165S |
| 1800-1900 | Russian | 9535 9365 7780 7435 7375 7315 | 2230-2330 | Chinese | 12015 9535 9440 8260 7190 6140 |
| 1830-1900 | Bulgarian | 9860 7385 6933 | 2300-2400 | Russian | 4883 4815 |
| 1830-1900 | Italian | 9965 7405 4960 | 2300-2400 | Spanish | 15120 11875v 11445 |
| 1830-1900 | Persian | 9785 9440 6955 | 2330-2400 | Amoy | 12015 9440 8260 7190 6140 |
| 1830-1930 | Arabic | 11790 9770 | (BBCM) | | |
| 1830-1930 | French | 9820 7800 7335 7110 | PLA Fujian Front, Fuzhou, Voice of the Strait, broadcasts to listeners in the Offshore Islands and Taiwan. Station identification is Standard Chinese: "Haixia Zhi Sheng Guangbo Diantai Diyi Tao Jiemu" - First program "Haixia Zhi Sheng Guangbo Diantai Dier Tao Jiemu" - Second program | | |
| 1900-1930 | Albanian | 9965 7385 | 0000-0200 | Chinese | 6115 5050 4940 |
| 1900-1930 | Czech | 7375 6933 | 0855-0959 | Chinese | 7280 6115 4940 |
| 1900-1930 | Portuguese | 9670 6920 | 0959-1130 | Chinese | 7280 6115 5508 4940 4130 2755 |
| 1900-1930 | Romanian | ???? | 1130-1700 | Chinese | 5508 5050 4940 4130 3900 2755 |
| 1900-1930 | Turkish | 9785 7405 4960 | 2155-2400 | Chinese | 6115 5050 4940 |
| 1900-2000 | Cantonese | 7780 | Voice of the Strait second program, Fuzhou: | | |
| 1900-2000 | English | 9440 6955 | 0255-0600 | Chinese | 9505 6000 Tu |
| 1900-2000 | German | 9920 6950 5220 | 0600-0630 | Amoy | 9505 6000 We- Mo |
| 1900-2000 | Russian | 9365 7660 7435 | 0630-0700 | Chinese | 9505 6000 We- Mo |
| 1930-2000 | Albanian | 9965 7405 4960 | 0955-1230 | Chinese | 6000 4900 |
| 1930-2000 | Czech | 7375 7250 | | | |
| 1930-2000 | Portuguese | 15110 11715 7385 6835 | | | |
| 1930-2000 | Romanian | 9860 6933 | | | |
| 1930-2030 | French | 9820 7800 7335 7110 | | | |
| 2000-2030 | Esperanto | 9965 7405 4960 | | | |
| 2000-2030 | Polish | 7375 6933 6150 | | | |

1230-1300 Amoy 6000 4900
 1300-1600 Chinese 6000 4900
 (13-Dec/BBCM)

CIS 5895nf DW in Russian via Irkutsk, *2000-2100 QRMing Zagreb co-channel (13-Dec/Padula/EDXP) 5935nf DW in Persian via Samara, 1850 (14-Dec/Padula/EDXP) 5940nf AWR in French via Rimatska Sobota, 0815-0830 (13-Dec/Padula/EDXP) 5945nf DW in Russian via Irkutsk, 1930-2000* ex 5895 (13-Dec/Padula/EDXP) 6000nf Deutsche Welle via Samara, Romanian *2000-2100* (13 Dec/Padula/EDXP)

Tikhiv Okean Vladivostok sce in Russian at 0815-0900 observed on 9530, 10344U (satellite delay), and best on 17570 kHz. (15-Dec/BCDX/Bueschel-FRG) 1900-2000 on 7420 and 9850 (3-Dec/Paniview-BUL)

Voice of Russia in English/Hindi/Urdu 1200-1600 on odd 9658.3 and 9791.6 kHz. Mayak in Russian on 6075 kHz (co channel DW!) 1500-2030 & 0400-0500, also on 4825 & 4930 kHz at 1700-2000. (#-Dec/Paniview-BUL)

Radio Belarus, W96 schedule:

| | | |
|-----------|-----------------------|---------------------------|
| 1900-1930 | Belorussian | 6010 7105 7205 7210 |
| 1930-1945 | Belorussian | 6010 7105 7205 7210 Mo |
| 1930-2000 | Belorussian | 6010 7105 7205 7210 Th/Fr |
| 1930-2000 | English "Bible Focus" | 6010 7105 7205 7210 Tu |
| 1945-2000 | German "Die Antwort" | 7210 7205 7105 6010 Su |
| 1945-2000 | German "Radiofenster" | 6010 7105 7205 7210 We/Sa |
| 1945-2000 | Polish | 6010 7105 7205 7210 Mo |

(3-Dec/NDXC/EDXP/BCDX/Bueschel-FRG)

Georgian Radio's external service identifies itself in Russia as "Radiostantsiya Gruzziya"; the English service announces itself as "program Georgia":

| | | |
|-----------|----------|----------------------------------|
| 0100-0700 | HS #1 | 5040 |
| 0200-1100 | HS #2 | 1830 [sic...is this 11830? - AQ] |
| 0500-0600 | Georgian | 6080 Tu/Th |
| 0600-0630 | Russian | 11805 |
| 0630-0700 | English | 11805 |
| 0630-0800 | Georgian | 6080 Tu/Th |
| 0700-0730 | German | 11805 |
| 0700-1100 | HS #1 | 4875 5040 |
| 0800-0830 | German | 11910 |
| 0830-0900 | English | 11910 |
| 0930-1000 | English | 11910 |
| 1000-1030 | Georgian | 11910 |
| 1100-2130 | HS #1 | 5040 |
| 1600-1700 | Georgian | 6080 Sa/Su |
| 1630-1700 | English | 6180 |
| 1700-1730 | Georgian | 6180 |
| 1700-1730 | German | 11910 |
| 1730-1800 | English | 11910 |
| 1830-1900 | Georgian | 6080 Sa/Su |

1930-2000 English 11760
 2000-2030 German 11760
 2030-2100 Russian 11760

(Gukasov-GEO/Paniview/EDXP/Padula)

W96 for Voice of Vietnam, via Russian transmitters: 0100-0300 EE 5940, 0300-0400 SS 5905, both via Krasnodar. (NDXC/EDXP/Padula)

Trans World Radio W96:

| | | |
|-----------|-------------|----------------------------|
| 0000-0030 | Hindi | 7430 (Sat, Sun EE) Irkutsk |
| 0030-0200 | Asian langs | 9825 Irkutsk |
| 1130-1615 | Asian langs | 7420 Irkutsk |
| 1200-1300 | Chinese | 7205 Novosibirsk |

(NDXC/EDXP/Padula)

IBRA Radio W96:

| | | |
|-----------|-----------------------------|----------------|
| 1330-1400 | Lukta Prabara - Bengali | 7400 Tashkent |
| 1700-1730 | Azeri | 7425 Su-Tu |
| 1700-1730 | Persian | 7425 We-Sa |
| 2000-2100 | Bismilla As Sabakh - Arabic | 7425 7420 5935 |

(NDXC/Padula)

CLANDESTINE - AFRICA Voice of Oromo Liberation is sometimes referred to as "SBO" after its title in the Oromo-language, "Sagalee Bilisumma Oromoo". It supports the Oromo Liberation Front and other groups opposed to the Ethiopian government. Sked 1600-1700 in Oromo on 9870 Mo/We/Sa. Postal addresses: SBO, PO Box 510610, 13366 Berlin, Germany; SBO, Prinzenallee 81, 13357 Berlin, Germany; (tel: +49-30-4941036; fax:+49-30-4943372); SBO, PO Box 73247, Washington, DC 20056, USA (BBCM)

CLANDESTINE - ASIA New Star Broadcasting Station (Mandarin: "Xin Xing Guangbo diantai") has been observed on 8300, 9725 and 11430. The latter two seem to be alternates, both featuring the 3rd prgm. Reception is clear and strong during local daytime in Taiwan (2300-1000), but hardly audible (if at all) at night (1200-1600). New Star seems to have different services, or programs. Each frequency identifies itself as the "third" or the "fourth" prgm. Content is different, but the program format is the same. Broadcasts range from 5 to 40 minutes, and usually start on the hour with a traditional piece of flute mx as IS. Usually two women are then featured: one for the general anmts, the other for messages. They are both recorded, clearly shown in the coded messages, which suffer from lack of proper intonation.

Outline of the xmsns: Station ID and prgm ID; example: "Zheli shi Xin Xing Guangbo diantai, di si tai" twice ("Here is New Star B/Cing Stn, the fourth prgm"). Then call for particular units (danwei) that cables (dianbao) are coming. These stns have four- or five-letter callsigns. Also indicated is the month

and number of the cables, and how many cable characters it consists of. This is repeated a couple of times, with the IS in between. Then actual code xmsns begin, preceded by an nmnt. Each number is repeated twice, and when the cable is finished, that is also ancd. The whole b/c ends with an nmnt in CH: "The preceding special prgm . . . now finished xmsn. Thank you for listening. We wish you health and happiness. Goodbye."—New Star seems to be a spy station, packaged very nicely, but from where and for whom is anybody's guess. The Mandarin sounds like mainland China, but it could also be from Taiwan. The signal and audio quality also point to mainland China, but at night the station is not audible in Taiwan, which points to Taiwan. (den Boogert-TWN/DX-Window/Padula/EDXP)

CLANDESTINE - ASIA RADIO FREE ASIA [ed. note: There has been some controversy in other DX publications about whether this is a clandestine or not. To my mind, any station that attempts to hide its transmitter sites and isn't just a pirate falls into this category. Your comments are welcome. - AQ]

Radio Free Asia [RFA] began broadcasts in Tibet on 1st December, at 2300, 2330, 1300 and 1330. RFA plans to add Burmese, Vietnamese, Lao, Khmer and Korean in 1997.

7415 kHz RFA (UNID site) at 2255 noted w/ancnts in English: "This is channel two. RFA program channel two" (male voice), then repeated by woman in Russian! Her voice is familiar for me from VOA Russian sce. At 2300 progr in Tibetan has started with //7550 kHz which was stronger than 7415 kHz. (14-Dec/Pashkevich-RUS/Cumbre) Noted 1300-1400 on 9440 khz, no //s found. (2-Dec/Pashkevich-RUS/Cumbre) 11615 kHz RFA. Unid site [KH-BI?], carrier on at t/in 1256 "This is Channel One the RFA program channel" test tape 1302*, then off. (18-Nov/Vitek-AUS/EDXP) What could the secret site be? My guess is KHBN Palau, as Jeff White said this station was considering carrying RFA. Meanwhile, the 11615 kHz RFA test freq continues unheard though I can't be sure it is not on the air now with Tibetan. (10-Dec/Hauser) Seemingly originates from Kamo-ARM transmitter site. KHBI Saipan and KHBN Palau are both much poorer here at this time, and audio type is totally different too. (14-Dec/Bueschel)

CLANDESTINE - LATIN AMERICA La Voz del CID is in financial trouble and could grow silent. Huber Matos says it received large donations from some Latin American governments in the 1980s. The transmitter is in one of those countries, donated by the host government, valued at \$500K. He insists that no aid comes from the U.S. government. A 50 kW power plant [sic] bcs on 9940 kHz, 6305 kHz. An array of directional antennas with a 15-dB gain boosts power to an effective level of 500 kW. (7-

Dec/Armando Correa/Miami Herald/Pilchick/Cooper/WoR/BCDX/Bueschel)

CLANDESTINE - MIDEAST 6055 kHz a station calling itself the 'Voice of Azerbaijan' noted here*1630-1730*. ID in Azeri: "Burasi Azerbaijanin sesi" ("This is the Voice of Azerbaijan"). This was first heard on Dec 2 with very strong signal. I first thought it was a Turkish st, because the music I heard was a Turkish pop song. After the song, I heard ID and talk against the Iranian government and Armenia. Azerbaijani is a familiar language of Turkish, so I understand talk and songs. The said "This broadcast is for unity for south and north Azerbaijan". On Dec 2 the bc was very clear, but on subsequent days, a jammer (I think from Iran) as well as Radio Slovakia International have interfered heavily. (5-Dec/Yasar-TUR/DXW/BCDX/Bueschel)

"Sedaye Mojahed" [Voice of the Crusader] in Persian to Iraq on v4450 ... v6450 kHz. 9430 kHz seems not the same as at 0230-0507 on 9590 kHz, mentioned in 1995 as "Sedaye Mojahed-2" then 6020 & 6175 kHz, broadcasts from Iran, jammed by Iraq. (3-Dec/Paniview-BUL/BCDX/Bueschel)

Voice of the Iraqi People is noted on a new freq of 6244 kHz in Arabic at 1835 s/off with definite ID: "Saut al Shaab al-Iraqi" (13-Dec/Pashkevich-RUS/BCDX.Bueschel) 9568.46 1745 tentative, with Arabic talks on Iraq. Listed to sign off at 1700*. Blocked by jammer at 1747. (20-Dec/Schaay)

v4660.02v kHz Voice of Mojahed, 1700-1715 in Vn, reporting about Iran and terrorists; heavy jamming. QSYing all the time: 4660, 4655.3, 4645, 4655.3, 4650.2, 4645.1 etc. in not more than 10 minutes, always hunted by a jammer; furthermore, I noted no less than 8 jamming sts being active between 4640-4670 kHz at the same time. I really wonder why this particular station is so severely jammed while sts like VoCommunist Iran are more or less left alone. Are some of the clandestine sts in the region in fact black ones the jamming guys don't have to take care of? (4-Dec/Kuhl FRG/DXW/BCDX/Bueschel-FRG) 7225, The Voice of Mojahed, *1900-2100* in Farsi, //9429.95 (1-Dec/Pashkevich-RUS)

Voice of the People of Kurdistan carried the following announcement in its Arabic transmission at 1500 on 10th December: "We wish to draw our listeners'attention to the fact that our radio station will broadcast its programs as of today on a short-wave frequency of 49 metres in addition to our principal wavelength of 75 metres." Station currently observed on 4100 kHz. (BBCM) [Alas, no 49m frequency mentioned - AQ]

Voice of the Worker (Persian: Seda-ye Kargar) is a left-wing radio station which broadcasts in opposition to the Iranian government and in support of the Iranian Revolutionary Workers' Organization.

Sked:

1530-1615 Persian 4200v 3930v
 1730-1815 Persian 4200v 3930v

COLOMBIA 2920(h) Radio Uno, Barranquilla, Colombia, no longer audible (Klemetz-CLM/Dateline Bogota)

5873.7 Radio El Sol, Villa Moreno (Narino), Colombia, identified Nov 16, acknowledged my report on the phone from the town of Pasto, by way of Jose Francisco Ortega, [phone number (9)27 211047] who originally built this crystal controlled 50 W transmitter. There's no telephone service in Villa Moreno, said Ortega, so that's why he gave me a call instead of the stn owner, who is a friend of his. I have requested a written statement, but who knows, such a paper may be felt as a bit too compromising. After all, this is a pirate. [Announced sked: Mo-Fri 2100-2300, Sat/Sun 1930-2400]. (Klemetz-CLM/Dateline Bogota)

COSTA RICA RFPI came back on 15050 kHz briefly Sat afternoon Nov 30 at 2120 check but by 0200 check all frequencies were off and were still silent Mon Dec 2 at 1400. Hope it's nothing serious. (2-Dec/Hauser)

Faro de Caribe moved to a new transmitter site in San Isidro, Herida, about a year. Air time is from 2000-1200 and English is from 0300-0400. They are using new 5 kW transmitters on 5055 & 9645 khz and an older transmitter on 6175 kHz. This per Mirnor Enrique, Station Engineer.

Radio Casino is on V5954 kHz from 1030-2400 using the oldest transmitter in Costa Rica. The transmitter, which has a power of about 1 kW, is 51 years old and first came on the air for the first time on Aug 18, 1945. They sign off early due to QRM from larger high-powered sts. Their telephone number is 758-0029 and their fax is 758-3029. Max DeLeon, a POC listed in PWBR, is no longer at the station. This per Edwin Zamora of the news department and their General Manager, Luis Grau.

Radio Reloj official schedule is 4832 kHz from 0100-1300, and 6006 kHz from 1300-0100; however, at times someone forgets to switch to 4832 so 6006 kHz is heard at night after 0100. One freq might be used all the time when one of the transmitters being repaired, but they are not on the air at the same time. The station has no plans to expand or change freqs at this time. This per Sharty Coto, Engineer. (3-Dec/DIRECT/Cumbre/Fleming/BCDX/Bueschel-FRG)

CROATIA W96 sked for Croatian Radio:

0000-0200 5895 7165
 0200-0600 5895
 0600-0700 5895 7165 9830 11830
 0700-1000 5920 7165 9830 11830
 1000-1230 5920 7165 9830

1230-1600 5920 7165 13830
 1600-2100 5895 7165 13830
 2100-2300 5895 7165 11635
 2300-2400 5895 11635

Programs are in Croatian, excepting news in English at 0706 0903 1303 1903 2303; 0803 1303 1903 2303 Sat/Sun. New technical address is: Zelimir Klasan, HRT, Prinsavlje 3 Zagreb, CROATIA telefon: +385 1 6163355, telefax: +385 1 6163347 email: Zelimir.Klasan@hrt.hr (Ogrizek/Padula/EDXP & RoEUK/WDXC/EDXP/Padula)

CUBA Radio Havana Cuba observed on new channels:

2100-2200 English 9585U 9620
 2100-2200 Spanish 9820 9830U 11760

(11-Dec/BCDX/Bueschel-FRG)

CYPRUS BBC in Hungarian via Cyprus now using 7115 from 2200-2230. (7-Dec/Padula/EDXP)

DENMARK Radio Denmark recent changes:

0130-0155 7440
 0230-0255 7440
 0630-0655 11730
 1030-1055 15250 (ex-15220)
 1330-1355 9905 (ex-9910)
 1630-1655 9985
 2030-2055 7540
 2130-2155 7540

(BCDX/Bueschel-FRG)

We are sorry to let you know that it still has not been possible to convince the 'heads' of DR Radio about the need for an English program from our station. (Isherwood & Koie/R. Denmark)

ECUADOR

4779.8 Radio Oriental reactivated as of Dec 8, 2200. (Klemetz-CLM/Dateline Bogota)
 5050.4 R. Jesus del Gran Poder, Quito; 0204-0240 33333 ads, ID "Por Jesus del Gran Poder.." pgm musica del recuerdo mx. (4-Dec/Arrunategui-PRU)
 5050.4 Francisco Estereo seems to be used for a filler by Radiodifusora Jesus del Gran Poder. The Francisco Estereo program was aired from @2215 s/on till 2257, when Jesus del Gran Poder programming - the 6 o'clock mass, in this case -took over preceded by full ID: "Desde el corazon de Quito, y para el corazon de los ecuatorianos, transmite Radiodifusora Jesus del Gran Poder el mensaje del Padre para sus hijos. Sintonce sus frecuencias". [Remembered that both studios are inside the San Francisco Cathedral, in downtown Quito]. (13-Dec/Klemetz CLM/Dateline Bogota)

| | | | |
|---|-----------|---------------|--|
| EGYPT R. Cairo noted by ed. on 4900 @1941, confirmed by Bueschel as harmonic of 9800 kHz (sked 0350-2400). "When I was on holiday time on Rhodes/Cyprus island area in the Mediterranean in May 1987, just across the sea, I could easily hear all 31 mb outlets of Cairo and Saudi Arabia on harmonic doubled wave length in 4800-4925-4950 kHz range, in the local mornings 0400-0600." (Bueschel-FRG) | 0900-1000 | French | 21620 21580 17620 15605 15315 15300 15195 15155 11845 11670 9660-(to 0930) 6175 9660 7420 |
| | 0930-1030 | Chinese | |
| | 1000-1030 | French | 21620 21580 17850 17650 17620 15605 15315 15300 15195 15155 11845 11670 6175 |
| | 1000-1030 | Spanish | 9790 9715 5920 |
| | 1030-1100 | French | 21620 21580 17850 17650 17620 15605 15315 15300 15195 15155 13625 11845 11700 11670 9830 9790 6175 |
| ETHIOPIA 6940 nf Radio Fana *0327-0350+ IS; ID at 0328; tlk in lang by M*W. Exotic vocals. Weak, // 6210 (vy weak). TNX WOR tip. (30-Nov/Alexander) probable Radio Fana 6940 noted from 0410 t/in, weak signal with low MUF, language and music fits what I've heard in the past. (1-Dec/Sundstrom) | 1100-1130 | French | 21620 21580 17850 17795 17650 17620 15605 15315 15300 15195 15155 11890 11845 11700 11670 9830 9790 6175 |
| FRANCE Radio France Internationale (RFI) sked. RFI uses transmitters in France and at relay sites in China, French Guiana (Montsinery), Japan (Yamata), Gabon (Moyabi), Russia and South Africa: | 1100-1200 | Laotian | 7305 |
| 0000-0100 French 9800 9790 9715 7120 5945 5920 3965 | 1130-1200 | French | 15530 15300 11700 9790 6175 |
| 0000-0100 Portuguese 15200 13625 11995 | 1130-1200 | French-Africa | 21620 21580 17850 17795 17650 17620 15605 15315 15195 15155 11845 11670 9830 |
| 0100-0200 French 9790 9715 5945 3965 | 1130-1200 | Spanish | 13640 |
| 0100-0200 Spanish 11995 9800 5920 | 1200-1230 | French | 21620 21580 17850 17650 17620 15315 15300 13640 11845 11700 11670 9790 6175 |
| 0200-0300 French 9800 9790 9715 5945 5920 3965 | 1200-1300 | Cambodian | 7305 |
| 0300-0400 French 9800 9790 7315 7280 7135 6045 5990 5945 3965 | 1200-1300 | Chinese | 7430 7140 |
| 0400-0500 French 9800 9790 7315 7280 6045 5990 5945 5925 5920 3965 | 1200-1300 | English | 15540 15530 15195 15155 11615 11600 |
| 0400-0500 French-Africa 7135 4890 3970 | 1230-1300 | French | 17650 13640 11700 11670 |
| 0500-0600 French 11700 9845 9790 9550 7315 7280 7135 6175 6045 5990 5925 3965 | 1230-1300 | French-Africa | 21620 21580 17850 17620 15315 15300 11845 9790 6175 |
| 0500-0600 French-Africa 11995 9790 7135 5945 4890 3970 | 1300-1330 | French | 21620 21580 17650 17620 17580 15365 15315 15300 15195 15155 13625 11845 11670 9790 6175 |
| 0500-0600 Spanish 9800 5920 | 1300-1330 | Spanish | 17560 15515 15435 |
| 0600-0700 French 11685 9845 9805 9745 9550 7280 6175 6045 5990 5925 3965 | 1330-1400 | French | 21620 21580 17860 17850 17650 17620 15360 15515 15365 15315 15300 15195 13625 11845 11670 9790 6175 |
| 0600-0700 French-Africa 15155 15135 11995 11995 11700 9845 9790 9790 7135 7135 5945 5945 3970 9745 7305 6175 3965 | 1400-1430 | French | 17575 15605 15365 11615 6175 |
| 0700-0800 French 21620 17800 15315 15300 15135 11700 9790 7135 | 1400-1430 | Spanish | 21645 17860 |
| 0700-0800 French-Africa 17650 15605 15315 15300 15195 15155 11790 11700 11670 6175 3965 | 1400-1500 | English | 17560 12030 7110 |
| 0800-0830 French 21620 17850 17650 17620 15605 15315 15300 15195 15155 15135 11790 11700 11670 6175 3965 | 1400-1500 | French-Africa | 21620 21580 17850 17795 17620 15460 15315 15300 11845 |
| 0800-0830 French-Africa 21620 17850 15300 11845 11700 | 1400-1500 | Russian | 11670 9805 |
| 0830-0900 French 21620 17850 17650 17620 15605 15315 15300 15195 15155 15135 11790 11700 11670 6175 3965 | 1400-1500 | Vietnamese | 6120 |
| | 1430-1500 | French | 21645 17860 17575 15605 15365 11615 6175 |

| | | |
|-----------|---------------|---|
| 1500-1600 | French | 21645 17860 17575 15365 11670 11615 9790 9605 6175 |
| 1500-1600 | French-Africa | 17850 17795 17620 15460 15300 11995 11845 |
| 1500-1600 | Serbo-Croat | 9805 7135 |
| 1600-1700 | Arabic | 9845 9655 7325 |
| 1600-1700 | English | 15530 12015 11700 11615 9485 6175 |
| 1600-1700 | French | 17630 17620 15300 11965 9790 7315 7160 3965 |
| 1600-1700 | Romanian | 9805 7135 |
| 1700-1730 | English | 12015 11615 9485 |
| 1700-1730 | French | 17630 15300 11965 11705 9790 7315 7160 6175 3965 |
| 1700-1800 | Arabic | 9845 9655 7350 7325 5990 |
| 1700-1800 | Polish | 7135 5900 |
| 1700-1800 | Portuguese | 12015 |
| 1730-1800 | French | 17630 9485 7315 6175 3965 |
| 1730-1800 | French-Africa | 15300 11965 11705 11615 9790 7160 |
| 1800-1830 | French | 17630 15300 11965 11705 9790 9485 7315 7160 7135 6175 5900 3965 |
| 1800-1900 | Persian | 7350 5925 |
| 1830-1900 | French | 17630 7135 6175 5900 3965 |
| 1830-1900 | French-Africa | 15300 11965 11705 9790 9485 7315 7160 6150 |
| 1900-2000 | French | 15300 9790 9485 7315 7160 7135 6175 3965 |
| 1900-2000 | French-Africa | 15300 9790 9485 7160 6175 3965 |
| 1900-2000 | Russian | 7350 5900 |
| 2000-2100 | French | 7135 6175 5915 3965 |
| 2000-2100 | Serbo-Croat | 5900 3985 |
| 2100-2130 | French | 15300 9790 7315 7160 7135 6175 5945 5915 3965 |
| 2100-2200 | Romanian | 7135 5900 |
| 2130-2200 | French | 7135 5915 |
| 2130-2200 | French-Africa | 15300 9790 7315 7160 6175 5945 3965 |
| 2200-2300 | Chinese | 7315 5945 |
| 2200-2300 | French | 13640 9800 9790 9715 5945 5920 3965 |
| 2200-2300 | Polish | 5915 3970 |
| 2200-2300 | Portuguese | 17620 15200 11995 |
| 2200-2300 | Spanish | 5925 |
| 2300-2400 | French | 12025 9830 9790 9715 9570 7120 5945 3965 |
| 2300-2400 | Spanish | 11995 11670 9800 5920 |

GERMANY Deutsche Welle changes:

| | | |
|-----------|-----------|-------------------------|
| 1300-1600 | Arabic | 12025 via Krasnodar-RUS |
| 1700-1800 | Bulgarian | 9805 |
| 1730-1800 | Polish | 3995 |
| 1800-1830 | Croatian | 9615 via Portugal |
| 1830-1900 | Albanian | 9615 via Portugal |

(3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

Radio Bremen lost its SW partner "SFB Berlin" at the beginning of 1994. Radio Bremen attempted to find another partner but couldn't so this made it to it necessary for them to end the SW sce. This per a fax from Fritz Senf at the station. Translation from my grandmother, Lilo Vogel. (28-Nov/Johnson/Cumbre)

Trans World Radio is listed for Jülich, Germany, for W96:

| | | |
|-----------|----------|------------|
| 1630-1700 | Romanian | 5895 |
| 1830-1900 | Kurdish | 7155 Su |
| 1830-1900 | Turkish | 7155 Mo-Sa |

(Panivew/HFCC/EDXP/Padula)

Radio Vilnius, Lithuania now via Jülich on 5890 from 0000-0030, with English @0030-0100 (15-Dec/Bueschel/BCDX)

GREECE Thessaloniki regional sce relay via SW, Greek Sunday Mass transmission sce at 0600-0700 on odd 7429.7 kHz, //9935 and 11595.1 kHz. (15-Dec/Bueschel/BCDX)

Voice of Greece:

| | | |
|-----------|--------------|-----------------------|
| 0000-0350 | GK/EE | 9425 7450 6125 |
| 0400-0555 | GK/Turk/AA | 15650 9425 7450 |
| 0600-0800 | GK/EE | 15175 9425 7450 |
| 0900-0950 | Greek | 15415 15175 |
| 1000-1150 | GK/Turk | 9915 9425 |
| 1200-1250 | GK/AA/EE | 17525 15650 11645 |
| 1300-1350 | GK/RR | 12105 |
| 1300-1450 | GK/EE | 15175 11645 |
| 1400-1450 | GK/AA | 9420 |
| 1500-1700 | Multi/Balkan | 9425 9375 7450 792 |
| 1710-1750 | GK/Pol/RR | 9425 9375 7450 |
| 1800-1850 | GK/EE | 15150 11645 |
| 1800-2050 | Greek | 9420 7450-(fm 1900) |
| 1900-1910 | English | 9375 |
| 1910-1920 | French | 9375 |
| 1920-1930 | German | 9375 |
| 1930-1940 | Italian | 9375 |
| 1940-1950 | Swedish | 9375 |
| 2000-2015 | Albanian | 9375 |
| 2015-2030 | Serbo-Croat | 9375 |
| 2030-2040 | Bulgarian | 9375 |
| 2040-2050 | Romanian | 9375 |
| 2100-2250 | GK/EE | 9425 |
| 2100-2250 | Greek | 7450-(from 2150) 6260 |
| 2200-2300 | Greek | 7450 |
| 2300-2350 | SS/EE/PP | 11640 9935 7450 |

(BBCM)

GUAM Adventist World Radio (KSDA) in Korean 2000-2100 on new 5950 kHz (x5940) and 9495 kHz. [and NoKOR jamming too]. (3 Dec/Paniview-BUL/BCDX/Bueschel-FRG)

GUATEMALA 5150A Radio Coatan? Badly FMing blobmitter/spurwandering around this area, to -0233*, caught quick ID as such immediately at t/in in FM mode, into instl mx & off, "carrier" off 0235.

Good signal; didn't seem // any of the other HF TG outlets in the brief time I had to check. (21-Dec/Crawford/Cumbre)

HONDURAS 4819.2 HRVC La Voz Evangelica de Honduras, noted back on the air 0125, with Yive Avila gospel campaign. Signal level rather below par. Did they change the antenna as well? (8-Dec/Klemetz-CLM/Dateline Bogota)

5890 new station HRMI, Radio MI, 1250-1325+, t/in to SP preacher, rather long-winded, mostly prayer, some mx, said px on 6-7 AM. 1310 M ID as "HRMI, La Voz de Misiones Internacionales, Tegucigalpa", gave QTH as Apartado Postal 20583, Comayagua, Distrito Central, Honduras; telephone 33-90-29. Requesting reports. Then into praise mx to 1325 ID as "Radio MI", 1480 KHz. Good signal, USB-carrier, so maybe one of the old contra/Radio Quince txs? (17 Dec/Crawford/DXFL/DSWCI DX Window) Schedule is 1200-0500 according to Wayne's sister Laura (17 Dec/DIRECT/Fleming/Cumbre/DSWCI DX Window) [Wayne? Laura? - AQ]

6209.18 ? HR.. 1230 Heard while on a visit to Houston, Texas. Latin and guitar music with a male announcer in Spanish. Heavy, heavy UTE QRM and plenty of folks talking in English about their sailing trips and boats, but did catch part of an announcement "transmite H R" Not a strong signal, but would have been completely readable if not for the QRM. Not heard on other mornings or during checks in the evenings since returning to Colorado. (10 Dec/Johnson/Cumbre/DSWCI DX Window)

HONG KONG Over the last couple of years the BBC WS has been constructing a new relay station to serve audiences in Asia, they've put it up in Thailand and it has been on the air on a regular basis since the end of September. Part of the job is to replace transmissions which BBC Hong Kong Relay, located in a rather remote part of Hong Kong, about 45 minute hovercraft ride from the center of the city, now off the air, with dismantling already begun. The two 250 kW transmitters will be removed for storage and the rest of the equipment disposed of and then the demolition guys will come and knock down the building. There are five towers with four antennas strung between them beaming primarily towards China. (11-Nov/RN Media Network/Ogrizek-AUS/EDXP/Padula)

British Forces Broadcasting Service (BFBS) Hong Kong will remain operational until the 30-June-1997 handover of Hong Kong to China. Instead of having to abandon a functioning studio and transmission site, BFBS will spend its last weeks on the air broadcasting (on its MW & FM channels) first from a portable, containerized studio, and finally from a Royal Navy ship in the harbor. (28-Nov/RN Media Network/BBCM)

ICELAND Ríkisutvarpíð Reykjavík at 1900-1930 on new 7735U kHz, // 9275 kHz. (12-Dec/Alexander/WoR/Hausser/EDXP)

INDIA All India Radio schedule for 3 Nov 96 - 2 Mar 1997 per the AIR Web site:

| | | |
|-----------|------------|---|
| 0000-0045 | Tamil | 4990 9835 9910 11740 |
| 0015-0100 | Urdu | 6155 |
| 0100-0130 | Burmese | 7165 9950 11620 |
| 0100-0200 | Sindhi | 5990 7125 |
| 0100-0430 | Urdu | 6155 9595 |
| 0130-0200 | Tibetan | 9565 11900 13700 |
| 0130-0228 | Nepali | 3945 6045 7250 9550 |
| 0215-0300 | Pushtu | 7225 9910 13700 |
| 0300-0345 | Dari | 7225 9910 |
| 0315-0415 | Hindi | 11855 15075 15180 17387 |
| 0400-0430 | Persian | 11730 13700 15050 |
| 0415-0430 | Gujarati | 15075 17387 |
| 0430-0530 | Arabic | 15050 17785 |
| 0430-0530 | Swahili | 15075 17387 |
| 0700-0800 | Nepali | 7250 9550 11850 |
| 0830-1130 | Urdu | 9595 11620 |
| 0845-0945 | Indonesian | 15050 17387 |
| 1000-1100 | English | 11585 13700 15050 17387 17840 |
| 1115-1200 | Thai | 15340 17895 |
| 1115-1215 | Tamil | 13750 15075 15770 |
| 1145-1315 | Chinese | 11840 15050 17705 |
| 1215-1245 | Telugu | 13750 15770 |
| 1215-1315 | Burmese | 10330 11620 |
| 1215-1330 | Tibetan | 7410 9565 11695 |
| 1230-1500 | Sindhi | 6165 11585 |
| 1300-1500 | Sinhala | 9700 15020 |
| 1315-1415 | Dari | 7140 9910 |
| 1330-1430 | Nepali | 3945 4860 6045 7410 11695 |
| 1330-1500 | English | 11620 13750 |
| 1415-1530 | Pushtu | 7140 9910 |
| 1430-1930 | Urdu | 4860 6045 |
| 1500-1600 | Baluchi | 6165 11585 |
| 1515-1600 | Gujarati | 11620 15175 |
| 1515-1615 | Swahili | 9950 15075 |
| 1530-1545 | English | 7140 7410 9700 9910 11740 |
| 1615-1715 | Russian | 11620 15140 |
| 1615-1730 | Hindi | 7410 9950 13700 15075 |
| 1615-1730 | Persian | 7265 9910 11585 |
| 1730-1945 | Arabic | 9910 13750 |
| 1745-1945 | English | 7410 9650 9950 11620 11935 13770 13780 15075 |
| 1945-2030 | French | 9910 13750 |
| 1945-2045 | Hindi | 7410 9950 11620 |
| 2045-2230 | English | 7150 7410 9910 9950 11620 11715 |
| 2245-0045 | English | 7170 9705 9950 11620 |
| 2300-2400 | Hindi | 9910 11740 13732 |

(17-Dec/Roe-UK/WDXC/EDXP/Padula)

5050 AIR Aizawl 0035-0100+, Generic AIR ID by M , to an English news bulletin til 0040. Woman ancr with quick ID as "This is All India Radio Aiza-

wl". Contemporary Christian-type mx pgm in EE, with same W ancr between songs past 0100. Weak, but with very quiet conditions. Pretty much gone past 0100. (22-Dec/Martin/Cumbre)

INDONESIA

- 3098 RSPDT2 Halmahera Tengah, Soasio. 1205 Jakarta relay. (25-Nov/Foster/OZDX/Yamada-JPN/Jembatan DX)
- 3214.8 RRI Manado 2053 EG pops. 2057 RPK. 2100 Jakarta nx relay. Signed on around 2050. Fair. (30-Nov/Yamada-JPN/Jembatan DX)
- 3222.9 RRI Mataram 1040 Local traditional mx. 1051 Local pops. Poor. (14-Dec/Yamada-JPN/Jembatan DX)
- 3295.4 RRI Samarinda 1115 ABRI prgr. (21-Nov/Yamada-JPN/Jembatan DX)
- 3344.8 RRI Ternate on at *2005 w/Holy Koran. 2011 Lagu lagu Qasidah. 2030 M ID "Inilah Radio Republik Indonesia Stasiun Ternate. Fair. (30-Nov/Yamada-JPN/Jembatan DX)
- 3375.9 RRI Medan (t) 1530 very weak signal. (27-Nov/Foster/OZDX/Yamada-JPN/Jembatan DX)
- 3384.9 RRI Kupang 1338 local pops. 1359 IS. 1400 TPs, local nx. 1407 M ID "Inilah Radio Republik Indonesia Kupang" Fair to poor. (23-Nov/Yamada-JPN/Jembatan DX)
- 3395.1 RRI Tanjung Karang 1535 Wayang kulit. 1559 Closing anmt then s/off. Poor. (14-Dec/Yamada-JPN/Jembatan DX)
- 3545 RPDT2 Sumba Timur w/popular music, 1029 pres ID by W, musical bridges and further talks - seems to be reactivated. (25-Nov/Schulze/DXW/Yamada-JPN/Jembatan DX)
- 3693.9 Unid Indo, Lagu hiburan then 1200 Jkt relay on Nov 5. Maybe either RRI Palu (not positively hrd on 3960 for a while) or RPDT2 Buol drifting. Not regular. (Foster/OZDX/Yamada-JPN/Jembatan DX)
- 3905 RRI Merauke 1115-1130+, slow mixed vocal anthem, with an ID by a W at 1119. Presumed local nx, read by same W, to smooth lagu pop tunes. (19-Dec/Martin/Cumbre)
- 3946 RRI Tanjung Karang 1510 IS for 15 mins! till they started pgms at 1525 but not // 3395 or Jakarta. (27 Nov/Foster/OZDX/Yamada-JPN/Jembatan DX)
- 3976.8 RRI Pontianak 2259 song of the coconut islands and ID at 2300 (20-Dec/Rooy/DSWCI DX Window)
- 4000.1 RRI Kendari 1533 Kroncong mx & local pops. 1549 M ID "Inilah Radio Republik Indonesia Kendari, Programa Satu" & closing anmt. S/off at 1550. Fair. (2-Dec/Yamada-JPN/Jembatan DX)
- 4752.7 RRI Ujung Pandang 1338 local pops, 1359 IS. 1400 local nx "Warta Berita Antar Kabupaten dan Kotamadya Sulawesi Selatan". 1406 M ID then local pops. Fair. (30-Nov/Yamada-JPN/Jembatan DX)
- 4753.2 RRI Ujung Pandang 1543 Wayang kulit from RRI Jakarta(//11785 which s/off at 1549 & 4777.1). 1558 ID of RRI Jakarta, then RPK. Suddenly s/off at 1606. Fair. (23-Nov/Yamada-JPN/Jembatan DX)
- 4753 RRI Ujung Pandang 2158 W/M in BI 2159 SCI, 2200 M ID (20-Dec/Rooy/DSWCI DX Window)
- 4874.4 RRI Sorong 1151 Local pops. 1158 M ID "Inilah Radio Republik Indonesia Sorong", then RPK. 1200 Jakarta nx relay. Fair. (14-Dec/Yamada-JPN/Jembatan DX)
- 4931.6 RRI Surakarta 1801 All night wayang kulit. Not relayed Jakarta nx at 1800. Poor. (30-Nov/Yamada-JPN/Jembatan DX)
- 5040 RRI Pekanbaru 2334 with local songs into M with Indo announcement followed by E pop song 43433 (21 Dec/Steyn/DSWCI DX Window)
- 5059.2 RRI Yogyakarta 1205 Jakarta nx relay. 1215 Local pops. Poor. (14-Dec/Yamada-JPN/Jembatan DX)
- 5691.3 RPDT2 Berau, Tanjungredeb, 1224 Lagu dangdut. Best in some time. (25-Nov/Foster/OZDX/Yamada-JPN/Jembatan DX)
- 6069.8 RRI Jayapura 0752 sports cast program. Not relayed Jakarta nx at 0800. Fair to poor. (1-Dec/Yamada-JPN/Jembatan DX)
- 7230.9 RRI Fak Fak 1010-1100+ (presumed); chatter between M and W, with a short piano bridge at 1016. More tlk, with Indo pop/ballads until 1059. No chance for an ID, with R. Pyongyang signing on with big OC from 1055+. Heard again at 1455+, this time covered by pres Russian signing on! Good signal at both times. (9-Dec/Martin/Cumbre)
- 7230.7 RRI Fak Fak 1045 Dangdut mx & CM. 1100 "Butir Butir Pasir di Laut". 1118 Local pops. Poor. (22-Dec/Yamada-JPN/Jembatan DX)
- 9525.0 RRI Jakarta 1131 Local pops. 1158 W ID "Radio Republik Indonesia Jakarta, Programa Nasional Satu", then RPK. Fair. (1-Dec/Yamada-JPN/Jembatan DX)
- 11750.0 RRI Jakarta 0055 Local pops. 0059 RPK. 0100 "Warta Berita Ibukota." 0110 ID by W "Radio Republik Indonesia Jakarta, Programa Nasional Dua", then local pops. Fair. (24-Nov/Yamada-JPN/Jembatan DX)
- 11751.0 RRI Jakarta 0658 RPK. 0700 "Fokus Berita". 0731 "Angkatan Bersenjata Republik Indonesia". 0758 Suddenly s/off. Up 1kHz from usual. Fair. (22-Dec/Yamada-JPN/Jembatan DX)

11885 RRI Bontosunggu, Southern Celebes good level at 1345 11885 kHz, Indonesian progr in //11785 kHz from Cimanggis near Jakarta. But with slight time delay, satellite feed. (8-Nov/Stewart-UK/Communication/BCDX/Bueschel-FRG)

RRI Jakarta on 15150 now operates 2200-0200 & 0855-1300. (1-Dec/Yamada/EDXP/Padula-AUS)

Indonesian DX Club editor Aries Subagyo of Kutoarjo/Yogyakarta sent a detailed list of Indonesian updates intended for WRTH97 but received much too late. Below are new stns or freq changes. There are lots of address changes and stn name amendments too but they'll have to wait for WRTH98.

2223/2250 Radio Kharisma, Jakarta
 2395 Radio Merpati, Jakarta
 2470 Radio AM 60 Station, Kreo-Tangerang, Jawa Barat
 2569 Radio Citra Nuansa, Jl. Swadaya 25, Cipondoh-Tangerang 15147, Jawa Barat
 2658 Radio BNC, Jl. Perjuangan Raya 73, Kebunjeruk-Jakarta Barat 11530
 2690/2753 Radio Swara Mitra, Jl. Haji Mencong Raya 65, Ciledug-Tangerang 15151, Jawa Barat
 2900 Rama Radio, Jl. Perjuangan Raya 25, Kebunjeruk-Jakarta Barat 11530 (same street as R. BNC !)

(Aries Subagyo/Indonesian DX Club/Foster/OZDX/Yamada-JPN/Jembatan DX)

Local daytime & evening s/off time of RRI stations as monitored on 20-23 Dec:

| | | |
|---------|--------------------|-------|
| 3264.8 | RRI Bengkulu | 1600* |
| 3344.8 | RRI Ternate | 1515* |
| 3385 | RRI Kupang | 1430* |
| 3395 | RRI Tanjung Karang | 1600* |
| 3905.0 | RRI Merauke | 1400* |
| 3976.8 | RRI Pontianak | 1605* |
| 4000.0 | RRI Padang | 1655* |
| 4000.1 | RRI Kendari | 1550* |
| 4753.1 | RRI Ujung Pandang | 1605* |
| 4789 | RRI Fak Fak | 1000* |
| 4845.1 | RRI Ambon | 1130* |
| 4874.4 | RRI Sorong | 1500* |
| 4926.9 | RRI Jambi | 1700* |
| 5040.0 | RRI Pekanbaru | 1705* |
| 5059 | RRI Yogyakarta | 1515* |
| 6153 | RRI Biak | 1500* |
| 7173.2 | RRI Serui | 0900* |
| 7234 | RRI Palu | 0900* |
| 7230.7 | RRI Fak Fak | 1500* |
| 11751.0 | RRI Jakarta | 0755* |
| 15125.0 | RRI Jakarta | 0755* |
| 15150.0 | RRI Jakarta | 1300* |

(Yamada-JPN/Jembatan DX)

RRI Bengkulu on 3264.8kHz changed sign off time from 1600 to 1605. (Yamada-JPN/Jembatan DX) RRI Jakarta on 15150kHz now operates at 2200-0200 & 0855-1300. (1-Dec/Yamada-JPN/Jembatan

DX) State radio to install digital FM transmitters. The digital FM transmitters will soon be installed in 27 transmitting stations in 12 provinces of Indonesia. Currently, RRI operates FM transmitters in large cities and SW transmitters in the rest of the country. The SW transmitters will gradually be replaced(!) by FM transmitters. (19-Nov/BBCM/AGDX/BCDX/Cumbre/Yamada-JPN/Jembatan DX)

On 9 December 1996, the Indonesian House of Representatives passed the country's first broadcasting bill which lays the legal foundation for censorship and government scrutiny of all types of media. Abu Hasana Sazli, chairman of the parliamentary committee overseeing the broadcasting bill, said that the bill now has to be signed into law by President Suharto, but no date has been set. Critics said that the bill is repressive on the grounds that it would allow the government, not the courts, to license broadcasters. The bill would give the government the right to stop the operation of a broadcaster while waiting for the result of the court's decision on whether that broadcaster's licence is to be revoked or approved. (20-Dec/Institute for the Studies on Free Flow of Information (ISAI), Jakarta/DEV MEDIA/IFEX/Moore)

IRAN IRIB Tehran in Italian on new 1900-1927 6005, 7240, and 9610 kHz. (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

I've tried to consolidate oddball collection of recent changes/additions to the VOIRI sked, and come up with:

| | | |
|-----------|-------------|-------------------|
| 0330-???? | unid | 6210 |
| 1930-???? | unid | 7240 |
| 0330-0730 | Arabic | 15355 11930 9530 |
| 0430-0530 | Turkish | 11790 9540 |
| 0430-0630 | Arabic | 11910 |
| 0530-0630 | Spanish | 15260 11790 |
| 0630-0730 | French | 15325 15260 11790 |
| 1130-1230 | English | 15260 11930 11875 |
| 1230-1325 | Pushtu | 15345 |
| 1300-1330 | Malaysian | 13605 15200 |
| 1330-1430 | Chinese | 13605 15200 |
| 1530-1600 | English | 9635v |
| 1630-1700 | Armenian | 9610 5995 |
| 1730-1830 | Serbo-Croat | 7240 |
| 1900-1930 | Italian | 9610 7240 6005 |
| 1930-2000 | Hausa | 11750 |
| 1930-2030 | Russian | 7305 |
| 2030-2100 | Italian | 7175 |
| 2130-2230 | Bosnian | 7115 |

(Paniview/BCDX & Jones-PRG/NU/EDXP/Padula-AUS & Schulze-PHL/BCDX/Bueschel & Pashkevich-RUS/BCDX & Sundstrom & Hill)

IRAQ After around an 18-month absence, Radio Iraq International, the external service of Republic of Iraq Radio in Baghdad, appears to have resumed broadcasts in English. The radio was observed on 10th December with a program in English from 2332-2356 on 11895 kHz. However, the closing an-

nouncement stated that English was on the air "at 10 and a half to 11 daily" on 11890 kHz. Prior to the English broadcast, a program in Arabic has been observed from approximately 2100. (BBCM)

Baghdad heard on v17735 kHz around 1030 with what seems home sce in Arabic. The transmitter is unstable and 'jumping' in frequ up and down. Good strength though. (11-Dec/Green-UK/DXM)

Opposition radio claims ministry sets up jamming stations. In cooperation with technical staff at the Directorate of Military Intelligence, the regime's Information Ministry has set up a number of radio jamming sts to prevent citizens from listening to opposition and international radio sts. The regime managed to affect the reception of bcs by the VoA and the BBC. It is also trying to jam bcs by the Voice of Rebellious Iraq. Our sources have said that the cost of importing and setting up the jamming sts totals 5m Dollars, most of which was collected from the state's tax revenues and the fees from telegrams, water and telephone scs, according to a statement made by an informed source at the Ministry of Information. It is worth noting that the regime set up 200 jamming sts in 1981, each costing 250,000 Dollars. Most of these sts were destroyed during Operation Desert Storm in 1991. (2-Dec/Voice of Rebellious Iraq/BBCM/AGDX)

ITALY 21520 RAI w/HS relay to Africa in Italian @0850, new time. (13-Nov/Vitek-AUS/Padula/EDXP/BCDX/Bueschel-FRG) RAI Rome ext schedule changes: Italian 1500-1525 on new 9670 kHz, // 5990, 7290 kHz. French/Italian block at 1530-1555-1625 on 5990, 7290, 9755 kHz. Turk/Greek/Bulg block at 1500-1600 on 5975 and 7275 kHz. (21-Dec/Bueschel-FRG/BCDX) RAI new on 6140 at 1845 in Polish, on 6150 from 2200-2225 in EE, and 7235 0830-0900 Italian HS relay. (Padula/EDXP) Relays of the RAI Domestic Service programs in Italian are listed for W96 as follows: 6060 Caltanissetta 25 kW 0500-2300 6060 Rome 100 kW 2300-0500 6110 Rome 100 kW 0530-1300 7175 Caltanissetta 5 kW 0500-2300 7215 Rome 100 kW 0700-1300 9515 Caltanissetta 5 kW 0500-2300 15240 Rome 100 kW 0600-1300 21520 Rome 100 kW 0600-1300 (Padula/EDXP)

JAPAN Radio Japan uses relay stations at Moyabi, Gabon (G); Sackville, Canada (C); Montsinery, French Guiana (F); Kranji, Singapore (K); Ekala, Sri Lanka (S); Skelton and Woofferton, United Kingdom (UK); and Ascension Island (A).

0000-0030 Japanese 11910 11850 11690 11665
9560
0000-0100 Japanese 6180UK 6155UK
0100-0200 English-GS 17810 17685Alt 15475
13650Alt 13630 11890S
11860K 11840 11790

| | | |
|-----------|-------------|--|
| 0200-0300 | Japanese | 17810 15475 15230 13630 11860K 11840 11790 5960C |
| 0200-0230 | Bengali | 11890S |
| 0230-0300 | Hindi | 11890S |
| 0230-0300 | Persian | 7190 6150G |
| 0300-0330 | Urdu | 11890S |
| 0300-0400 | English-GS | 17810 15230 11840 11790 5960C |
| 0300-0400 | Japanese | 13630 11895F 9660F 9515G |
| 0300-0400 | Korean | 15475 11910 |
| 0330-0400 | Swahili | 15590 6135A |
| 0400-0430 | Arabic | 7250G |
| 0400-0500 | Chinese | 15475 11910 |
| 0400-0500 | Japanese | 17820S 17810 11840 6110C 5960UK |
| 0400-0500 | Russian | 11760 11715 |
| 0430-0530 | Chinese | 17685 15120 |
| 0430-0530 | Russian | 12030G |
| 0500-0530 | English | 12000 11895F 9635 |
| 0500-0600 | English-GS | 17810 11920K 11910 11740K 6150UK 6110C |
| 0530-0545 | Swedish | 12030G 11760 |
| 0530-0600 | Spanish | 12000 11895F 9660F 9635 |
| 0545-0600 | Italian | 12030G 11760 |
| 0600-0630 | Arabic | 17780S |
| 0600-0630 | German | 12030G 11760 |
| 0600-0700 | English-GS | 17810 11910 11850 |
| 0600-0700 | Japanese | 15590 12000 11920K 11840 11740K 9835 7230UK 5975UK |
| 0630-0700 | French | 17780S |
| 0630-0700 | Spanish | 12030G |
| 0700-0800 | English-GS | 17815A 17810 15590 15165G 11920K 11910 11850 11740K 7230UK |
| 0745-0845 | Russian | 6165 6145 |
| 0800-0900 | Japanese | 17815A 17810 15590 15220A 15165G 11920K 11850 11815 11740K 9750 9685 7125 6070F |
| 0900-0930 | Portuguese | 9585 6070F |
| 0900-0930 | Thai | 11740K |
| 0900-1000 | English-GS | 11850 11815 7125 |
| 0900-1400 | Japanese-DS | 9855 9750 |
| 0915-1015 | Indonesian | 15590 11690 |
| 0930-1000 | French | 17815A 15120A 9600UK |
| 0930-1000 | Spanish | 6070F |
| 0930-1000 | Vietnamese | 11740K |
| 1000-1100 | Japanese | 17780G 11850 11815 9530F 7125 |
| 1000-1100 | Russian | 11710UK |
| 1030-1130 | Indonesian | 9695 |
| 1030-1130 | Korean | 6190 |
| 1100-1115 | Swedish | 21700G |
| 1100-1130 | German | 11710UK 9600UK |
| 1100-1200 | English-GS | 11815 7125 6120C |
| 1115-1130 | Italian | 21700G |
| 1130-1200 | Bengali | 12045S |
| 1130-1200 | Malay | 9695 |

1130-1230 Chinese 6190
 1200-1230 Hindi 12045S
 1200-1230 Thai 9695
 1200-1300 Japanese 11815 7125 6120C 6090
 1230-1300 Burmese 9695
 1230-1300 Urdu 12045S
 1300-1330 Vietnamese 9695
 1300-1400 Japanese 21490A 15400A 12045S
 11880S 11705C 9535
 1300-1400 Russian 7125
 1330-1430 Chinese 9695
 1345-1415 Burmese 7260
 1400-1500 English-GS 12045S 11880S 11705C
 9535 7200 7125
 1400-1500 Korean 9750
 1500-1600 Chinese 9750 7125 6090
 1500-1600 English-GS 15355G 9535 7240 7200
 1600-1700 Japanese 17780G 9535 7240 7200
 6035
 1700-1800 English-GS 11905S 11880S 9535 7225
 7200 6035
 1800-1900 Japanese 11880S 9535 7225 7200
 7140 6035
 1900-2000 English-GS 9535 7200 7140 6035K
 2000-2100 Japanese 11850 9535 7210UK 6035K
 2000-2400 Japanese-DS 11910 11665
 2100-2110 English 11685 9860
 2100-2200 English-GS 11850 9825 9560 6035K
 2110-2150 Chinese 11685 9860
 2150-2210 Malay 11685 9860
 2200-2300 Japanese 11850 9825 9685F 9560
 6140UK 6055UK
 2210-2230 Thai 11685 9860
 2230-2250 Burmese 11685 9860
 2250-2310 Vietnamese 11685 9860
 2300-2400 English-GS 11850 9825 9560 6180UK
 2310-2355 Indonesian 11685 9860
 2355-2400 English 11685 9860
 (BBCM)

JORDAN Radio Jordan in Arabic 0500-0900 new 15245, 15270, and 15435 0600-0900 11810, 11835. 1300-2300 new 13630. English still on extended 1200-1730 powerhouse 11690 kHz. (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

KAZAKHSTAN Radio Almaty with fair to good reception in English on 6230 kHz at 0100-0130. They are announcing freqs in meters and NOT in kHz. (27-Nov/Das Gupta-IND/BCDX/Bueschel-FRG)

The weekday 1030 programs in English appear to have been suspended, at least temporarily, and the weekend broadcasts consist of opening and closing announcements separated by concerts of Kazakh music. It is possible they may be recordings of earlier shows. Monday through Friday, the external service is now 1020-1140 in Kazakh, German and Russian. (8-Dec/Jones-PRG/EXDP) [11840 and 9620 kHz - AQ]

KOREA Radio Korea international, Seoul W96 frequency schedule: 3970 1930-2200 Skelton-UK relay. 5975 0800-1500, 1600-0100 6135 1000-1400 6145 1100-1130 Sackville-CAN relay. 6150 1500-1600 6480 1800-2300 7235 1700-1800 Skelton-UK relay. 7275 0100 0400, 0800-1300, 1600-2000, 2100-2400 7285 1200-1400 7550 0700-0800, 0900-1100, 1600-2100 9510 0700-0800 Skelton-UK relay. 9515 1600-2000 9570 0800-1100, 1130-1400 9640 1100-1500, 2100-2400 9650 1100-1200 Sackville-CAN relay. 9870 1600 2100 11715 1000-1030 Sackville-CAN relay. 11725 0100-0400, 1000-1130 11810 0000-0400 13670 0800-1500 15575 2300-0400, 1600-2200 (RKI/BCDX/Bueschel-FRG)

KUWAIT New sked for Radio Kuwait, thru 30-March:

| | |
|-----------|------------------------------|
| 0000-0200 | 11675 |
| 0200-0400 | 6055 11675 15495 |
| 0400-0445 | 6055 11675 15495 15505 |
| 0445-0530 | 6055 11675 15110 15495 15505 |
| 0530-0805 | 6055 15110 15495 15505 |
| 0805-0815 | 6055 15110 15495 |
| 0815-0900 | 6055 15110 15495 15505 |
| 0900-0930 | 6055 15110 15495 15505 17885 |
| 0930-1305 | 6055 13620 15495 15505 17885 |
| 1305-1315 | 13620 15505 17885 |
| 1315-1505 | 9880 13620 15110 15505 17885 |
| 1505-1605 | 9880 13620 15110 15505 |
| 1605-1615 | 9880 15110 15505 |
| 1615-1730 | 9880 11990 15110 15505 |
| 1730-1740 | 9880 11990 15505 |
| 1740-1745 | 9880 11990 |
| 1745-1800 | 9880 11990 15505 |
| 1800-2100 | 9855 9880 11990* 15495 15505 |
| 2100-2130 | 9855 9880 15495 15505 |
| 2130-2300 | 9855 15495 15505 |
| 2300-2400 | 9855 15495 |

All programs in Arabic, except * = English at 1800-2100 on 11990 kHz. (Pankov/Ivanov/Chengeliev/Ivanova BUL/Paniview/Bueschel/WWDXC/Kub iak-FRG)

LAOS 6975.6 Luang Prabang Regional Stn., Luang Prabang (?) at 0014 with non-stop Lao songs (22-Dec/Steyn/DSWCI DX Window)

LEBANON High Adventure Ministry. The Voice of Hope, is back to 9960 kHz, with progs for EU, AF & ME. (2-Dec/Pashkevich RUS/BCDX/Bueschel-FRG) Per Gary Hull, station manager: "I just spent a week in Cairo monitoring our signals. I discovered that our 9990 was wiped out by a strong teletype station. So on Dec 2 we went back to 9960 and we hope to stay there a long time. Due to budgetary concerns we have cut back to 18 hours daily and we also we have had to set all transmitters to low power operation. But I noticed while in Cairo that this does not have much affect on our signal there. 6280 comes in very nicely during the day at 5 kw. 9960 is at 6 kw and is beamed at Moscow at night and the Saudi

peninsula and Ethiopia during the day." (7-Dec/DIRECT/Johnson/Cumbre)

Many of the private radio & TV stations were due to close down by 30 November. A news wire report from Beirut says that 10 Lebanese MPs have sent an urgent draft law to parliament demanding a five month grace period for the many private stations ordered to shut down. The draft law says the stations must be allowed to broadcast news bulletins and political programs during the grace period which will end on 30 April 1997. Back in September, the government licenced three private TV stations (three of them owned by politicians) and 11 radio stations, while the rest were told to by the end of this month and barred from broadcasting news meanwhile. (21-Nov/Sennitt/RNMM/Ogrizek/Padula/EDXP)

LIBERIA ELWA has no plans to resume shortwave operations in Liberia, but might broadcasting on FM from Monrovia at some point. Having been "burned" twice, it is simply too expensive to try setting up another SW operation. The station has no plans to try and recover the transmitter that was stolen from them and is now being used Radio Liberia. Although Sudan Interior Mission has sent teams to examine the ELWA compound, this area is still not controlled by ELWA. All this per Jennifer Turpin at SIM. Ms. Turpin opined that the 50 kW GE shortwave transmitter (built in 1937 and bought by ELWA from KGEI) had also been dismantled and stolen from the compound. (6-Dec/DIRECT/Johnson/Cumbre)

LIBYA Carrier only at 0830-1100 on 7120, 11815, and 11865 kHz. Must be Libya, observed here in Arabic last winter by Noel Green-UK. Arabic 1600-2100 new 11850 (x15435). 1100-2400 9700 (x15235).

MADAGASCAR R. Madagasikara now on 5009.5, noted @1858-1907*; nothing on 4960.9 or vicinity, so perhaps they've abandoned it in favor of their former freq. (27-Nov/Hill) [They certainly have; 5009.5 heard well here in NY w/IS @*0255 and pgms @0300+ - Aq]

MALAWI 5993.3 MBC Blantyre at 1411 with M in Chichewa with Sports comm. Vern songs at 1413 (14-Dec/Steyn/DSWCI DX Window)

MALAYSIA 4969.9 RTM Kota Kinabalu 2135+ very tentatively this one fading up around 2135 with lagu-sounding numbers and M ancr. Weakened rapidly and was gone by 2215. (21-22-30-Nov/Hill) 9750 Kuala Lumpur. Rearranged sked, Voice of Islam program, EE, *0500, //15295, 14/12 (Padula/EDXP)

MONACO (& OTHERS) This schedule effective, 27th October-30th March 1997, lists TWR broadcasts from transmitters in Albania (a); France (f); Germany (g):

0600-0615 Kurdish 11635a

| | | |
|-----------|------------|----------------------|
| 0615-0630 | Polish | 7385a 5890a |
| 0745-0755 | English | 7115f Sa/Su |
| 0755-0905 | English | 7115f |
| 0905-0920 | English | 7115f Su-Fr |
| 0930-0945 | German | 7160f 6230f |
| 0930-0945 | Hungarian | 7385a 6045a Tu-Sa |
| 0945-1000 | Slovak | 9490a 7385a Mo-We/Fr |
| 0945-1015 | German | 7160f 6230f Su |
| 1105-1120 | German | 7160f 6230f Mo-Sa |
| 1130-1145 | Czech | 9490a 7385a Sa |
| 1130-1200 | Slovak | 9490a 7385a Sa |
| 1200-1245 | Hungarian | 7385a 5895a Su |
| 1230-1300 | English | 7115f Sa/Su |
| 1330-1345 | Croatian | 7255f Fr-We |
| 1330-1345 | Serbian | 7255f Th |
| 1345-1415 | Croatian | 7255f Mo-Fr |
| 1345-1415 | Macedonian | 7255f Su |
| 1345-1415 | Slovenian | 7255f Sa |
| 1430-1500 | German | 7160f 6230f |
| 1440-1455 | Russian | 9490a 7355a Tu-Su |
| 1455-1510 | Russian | 9490a 7355a |
| 1510-1540 | Russian | 9490a 7355a Mo-Sa |
| 1515-1530 | Czech | 6235f Mo/Tu/Th/Fr |
| 1515-1530 | Slovak | 6235f We/Sa/Su |
| 1530-1600 | Czech | 6235f Mo-Fr |
| 1540-1555 | Russian | 9490a 7355a Mo-Fr |
| 1545-1600 | Kurdish | 7155a |
| 1600-1615 | Armenian | 9445a 7155a |
| 1600-1615 | Hungarian | 6235f |
| 1600-1630 | Polish | 7385f 5870a |
| 1615-1630 | Armenian | 9445a 7155a Mo-Fr |
| 1615-1630 | Hungarian | 6235f Mo-Sa |
| 1630-1700 | Romanian | 5895g |
| 1635-1650 | Ukrainian | 7385a 6235a |
| 1650-1720 | Ukrainian | 7385a 6235a Mo-Fr |
| 1700-1745 | Persian | 9445a 7385a |
| 1800-1815 | Lithuanian | 7385a 6235a Mo-We |
| 1800-1815 | Russian | 7355a 5890a |
| 1815-1845 | Belarusian | 7355a 5890a Mo |
| 1815-1845 | Russian | 7355a 5890a Tu-Sa |
| 1830-1900 | Kurdish | 7155g Su |
| 1830-1900 | Turkish | 7155g Mo-Sa |

MOZAMBIQUE 9636.87 former UNID by your editor ID/d as Radio Mozambique Beira 2014-2200+ in local language w/Afropops. Weak and lotsa QRM. (11-Nov/Schaay)

MYANMAR R. Myanmar 4725 observed at s/off 1545, Sun-Fri, despite reports of 1330 s/off. be 1545. (22 Nov/Elsebusch/Passmann/Padula/EDXP)

Defence Forces Broadcast. Unit, Taunggyi 6570.00 1326 W speaker, instrumental Burmese music, probably station tune, best in USB, 1329* (23-Dec/Schaay)

9730 Yangon. Earlier sign-on this freq on Sats, Myanmar news 0320, audible throughout our Australian afternoon period to 0500+, good level throughout. [Daytime Asian Mode] 7/12 (Padula/EDXP)

NIGER v9705.6 kHz La Voix du Sahel Niamey at 1600 in French male speaker with ID as La voix du Sahel, Radiodiff TV du Niger, and mentioning of Niamey, then phone calls in French. (7-Dec/Rooy/DXW/BCDX/Bueschel-FRG)

NIGERIA Voice of Nigeria confirmed 15120 kHz outlet, sked 0600-1000 and 1500-2000. Signed by Engr. O. I. Odumsi, Ag. Director Engineering for: Director General. Fax number is either 234 01 2691944 as inserted on letterhead, or 234-1-269.944 as on not clearly legible fax machine header at pagetop. (28-Nov/Hauser/BCDX/Bueschel-FRG)

Noted by many on old 7255 @*0600-0830+, no anmts, just music.

Five transmitters were shipped from Europe earlier this year. Three of these have been installed, two of them replacing worn out senders used by the Voice of Nigeria for regional coverage. The reactivated 19m channel indicates a desire by authorities to reach a wider audience. (21-Nov/RNMN/Ogrizek/Padula/EDXP)

NORWAY Radio Norway International now using 7440 (ex-7520) for English 0200-0230 Mondays. // 7465. (23-Dec/Grimdalen/Radio Norway International)

According to the Burmese office in Oslo they have NO plans to move their Burmese transmissions from Kvitsoy to Juelich. If so, it would have been an extra transmission, but due to political reasons the Germans will not allow such Burma transmissions from German soil. (15-Dec/Koie-DEN)

OMAN QBS Doha in Arabic 0400-0800 on new 9510, 0800-1400 on 15140 (x15375). (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

PAKISTAN Pakistan Broadcasting Corporation Frequency Schedule W96 External Service: K =via Karachi 50 kW, others Islamabad 100/250 kW:

| | | |
|-----------|---------------------|----------------------------------|
| 0015-0130 | Hindi | 7290K 9516 |
| 0100-0200 | Mitali/ Bangla | 9545 12015 |
| 0100-0215 | Urdu | 15485 17705 |
| 0215-0245 | English SSN | 7290 15120K 15485 17705 17725 |
| 0315-0415 | Gujarati | 15555 |
| 0330-0530 | Irani | 9785 11820 |
| 0415-0630 | Urdu | 11570 15175 17555 |
| 0645-0745 | Swahili | 17855 |
| 0700-0800 | Myanmar/ Burmese | 15565K 17540 |
| 0745-0850 | English | 15470 17900 |
| 0800-1104 | Urdu | 15470 17900 |
| 0900-1000 | Bahasa Indonesia | 15565K 17540 |
| 1020-1140 | Tamil | 13665K 15516 |

| | | |
|-----------|-------------------|---------------------------------------|
| 1105-1120 | English SSN | 15470 17900 |
| 1145-1300 | Hindi | 9656 13665K |
| 1200-1400 | Mitali/ Bangla | 11935 15625 |
| 1330-1530 | Urdu | 9485 9900K 11570 13590 |
| 1430-1530 | Turki | 5055 5920 |
| 1545-1630 | English SSN | 9425 9515K 11570 11955 13590 15555 |
| 1645-1800 | English | 5825 11570 |
| 1700-1800 | Turkish | 7295K 9515K |
| 1700-1900 | Arabic | 7305 9400 |
| 1700-1900 | Urdu | 5825 11570 |
| 1800-1900 | Urdu | 7125 |
| 1915-2030 | French | 9400 11570 |

Home sce from Islamabad 100 kW, except API-7 10 kW.

| | | |
|-----------|------------------------|------------|
| 0045-0345 | [Quetta] | 5025 Fr |
| 0045-0404 | [Quetta] | 5025 Sa-Th |
| 0045-0435 | (API-8) | 4790 |
| 0100-0105 | Urdu nx(API-7) | 7230 |
| 0200-0215 | Urdu nx(API-7) | 7230 |
| 0230-0245 | English SSN(API-7) | 9460 |
| 0300-0310 | EE/Sindhi nx(API-7) | 9460 |
| 0330-0445 | Balti(API-2) | 7350 |
| 0400 | Urdu nx(API-7) | 9645 |
| 0400-0820 | [Quetta] | 7170 Fr |
| 0445-0545 | Sheena(API-2) | 7350 |
| 0500 | English nx(API-7) | 9645 |
| 0600-1115 | Urdu/Punjabi/EE(API-4) | 7115 |
| 0600-1215 | [QUetta] | 7170 Sa-Th |
| 0600 | Urdu nx(API-7) | 9645 |
| 0608 | Sindhi nx(API-7) | 9645 |
| 0612-0616 | Pushto(API-3) | 9645 |
| 0800-1215 | (API-8) | 7265 Sa-Th |
| 0900-1000 | Indonesian(API-7) | 9645 |
| 0930-1215 | (API-8) | 7265 Fr |
| 1000-1215 | [Quetta] | 7170 Fr |
| 1100-1400 | [Peshawar] | 7110 |
| 1230-1300 | Kashmiri(API-7) | 9645 |
| 1230-1330 | (API-8) | 4790 |
| 1230-1805 | [Quetta] | 5025 |
| 1300-1311 | Urdu nx(API-7) | 9645 |
| 1300-1600 | Urdu/Pushto(API-1) | 6070 |
| 1311 | Sindhi(API-7) | 9645 |
| 1345-1815 | (API-8) | 4790 |
| 1400 | English nx(API-7) | 9645 |
| 1500-1530 | Urdu(API-7) | 9645 |
| 1600-1630 | English(API-7) | 7230 |
| 1700-1800 | Turkish(API-7) | 7230 |

(30-Nov/R. Pakistan/Green-UK/BCDX/Bueschel-FRG + Lytle/World of Radio/Hauser/Padula/EDXP)

PAPUA NEW GUINEA

| | |
|------|---|
| 3205 | R. Sandaun, Vanimo 0930-0935 in Pidgin announcing "Half past Seven", wx report from the Sadaun Province. (25 Nov/Schulze/DSWCI DX Window) |
| 3235 | R. West New Britain, Kimba 0936-0945 with reports in Pidgin. (25-Nov/Schulze/DSWCI DX Window) |

- 3275 R. South Highland, Mendi 0946-1000 with political reports in English and Pidgin, talk about the elections in South Africa. (25-Nov/Schulze/DSWCI DX Window)
- 3355 R. Simbu, Kundiawa 1010- in Pidgin, female and male talks with musical bridges. (25-Nov/Schulze/DSWCI DX Window)
- PERU**
- 3234.8 R. Luz y Sonido, Huanuco; 2334-2400 modern mx pgm, ID (4-Dec/Arrunategui-PRU)
- 3281.5 R. Estacion Wuari, Ayacucho; 0018-0045 ads Centro dental Ayacucho, ID "Estacion Wuari, te saluda en este dia para desearte existos y progreso.." pgm impacto deportivo. (11-Dec/Arrunategui-PRU)
- 3329.5 R. Ondas del Huallaga, Huanuco; 0004-0038 ID "Esta Ud. en sintonia de radio Ondas del Huallaga" (4 Dec/Arrunategui-PRU)
- 4039.2 R. Marginal, Tocache; 0048-0110 pgm La voz de la Liberacion ID "Radio Marginal, su estacion da por terminada su transmision del dia de hoy.." s/off 0106 NA-0110" (11-Dec/Arrunategui-PRU)
- 4279.38 Radio Cajamarca; 1122-1130 Cajamarcan huaynos and many local ads. Thanks PFA for this tip. (21-Dec/TIN)
- 4612.4v Radio Soledad now here, 0020, ex-4528v where they were as late as Dec 8, 2300. (14-Dec/Klemetz-CLM/Dateline Bogota)
- 4747.37 Radio Huanta Dos Mil, Huanta, 1055-1100 Steady comments noted by a woman. Poor w/QRM. (24-Dec/Bolland/Cumbre)
- 4750.07 R. San Francisco, Sondor 1050 fading with flutes, Peru ments by M, fair signal (16-Dec/Wilkner/Cumbre)
- 4763.9 UNID Peruvian, noticeable between 1020-1050, probably Radio Chincheros, in the town of the same name. No definite ID. (Klemetz-CLM/Dateline Bogota)
- 4764.0 R. Chincheros, Chincheros, Apurimac; 0106-0140 huayno mx, ID "Por radio Chincheros..." ads AFP Integra (18 Dec/Arrunategui-PRU)
- 4774.98 Radio Tarma; 1055-1100 p with strong QRM from AIR on same channel (14-Dec/TIN)
- 4790.03 R. Atlantida, Iquitos, 2345-0005 slow pops, jingles, ID's (16-Dec/Phillips/DSWCI DX Window)
- 4824.4 R. La Voz de la Selva, Loreto; 0054-0126 chicha mx, ID "Radio la Voz de la Selva" mx ID "Radio La Voz de la Selva en sus tres frecuencias, cobertura total.." mx. (4-Dec/Arrunategui-PRU)
- 4826.23 Radio Sicuani 1010 SS, M anncr, TC's and huaynos, "...Radio Sicuani..." at 1019. (21-Dec/Mohrmann/Cumbre)
- 4886.56 Radio Villa Rica, Huancavelica, 1104-1110, Cmts from both W&M, M ID "Radio Villa Rica" (24-Dec/Rausch/Cumbre)
- 4890.5 R. Chota, Cajamarca; 2150-2225 mx pgm Sabados Espectaculares ID "manana estaremos celebrando el dia del locutor, un saludo de parte de la gerencia de radio Chota" (7-Dec/Arrunategui-PRU)
- 4965.8 Radio San Miguel(p) 1015 ballads and huaynos M announcer encouraging listeners to get up enjoy the day with mention of Moyabamba and Huancabamba. (8-Dec/Rausch/Cumbre) Unless this was a national news broadcast, this is odd in that Radio San Miguel is in Cusco at the opposite end of the country from Moyobamba and Huancabamba. They're too small to expect listeners that far away. Peru has a lot of similar sounding place names, so I wonder if these might have been mentions of other towns near Cusco, such as Cotabamba and Huancarama. (Moore/Cumbre)
- 4890.45 Radio Chota; 1109-1115 program "Amanecer Andino" (ex-Recoret a Matinal). with rustic OA folklore. (14-Dec/TIN)
- 5039.2 R. Libertad, Junin; 1113-1208 ads Cerveza Cristal, ID "Ya son las 6 y 48 de la manana en su Radio Libertad" (9 Dec/Arrunategui-PRU)
- 5068.7 R. Ondas del Sur Oriente, Quillabamba; 1135-1216 ads Hogar Clinica San Juan de Dios en Quillabamba, ID "Gracias a radio Ondas del Sur Oriente" advs ID "Escuchemoslo por radio Ondas del Sur Oriente.." (14-Dec/Arrunategui PRU)
- 5083.8 R. Mundo, Cusco 1015-25 long tk no mx, fair. (17-Dec/Wilkner/Cumbre)
- 5144.0 R. Imagen, Tarapoto; 0208-0234 pgm Patrullero 1160 nx ID "Por radio Imagen.." (13-Dec/Arrunategui-PRU)
- 5385.2 R. Huamarca, Huamarca, Huamcabamba, Piura; 0028-0116 pgm el Peru y su folklore ID "A traves de radio Huamarca" mx (6-Dec/Arrunategui-PRU)
- 5730.05 Radio Santiago; 1100-1137(f/out) weak signal. Noted its carrier at 1100, but no audio. At 1115 they began to play OA folklore, thenMtal k in SS. Several short ID were heard. (14-Dec/TIN)
- 5767.12 Radio Universal, Moyobamba; 1040-1051 p signal w/ute QRM, program with OA folklore. ID was announced as "Radio Universal desde Moyobamba para todos los del Peru." (14-Dec/TIN)

- 5818.8 R. Victoria, Lima; 2116-2148 pgm religiosos ID "Por la gran cadena de radio Victoria.." advs religioso ID "La gran cadena de radio Victoria.." (14-Dec/Arrunategui-PRU)
- 5926.56 Radio Peru; slightly drifted from 5926.60khz. Noted at 1120 w/weak signal. (14-Dec/TIN)
- 6095.0 R. Nacional del Peru, Lima; 0055-0148 mx criolla pgm, ID "Radio Nacional del Peru se complace en saludar a los locutores por su dia.." (7-Dec/Arrunategui-PRU)
- 6173.8 R. Tawantisuyo (Cusco) 1445-1520 ID "Llamar al telefono 226411 de radio Tawantisuyo para participar en el sorteo..." tropical mx, prog "Bienvenida Navidad" (25-Dec/Arrunategui-PRU)
- 6188.1 R. Oriente, Yurimaguas; 2110-2146 ads Comercial Archis, Panaderia Ton en Yurimaguas lo mejor... cartucho federal (7-Dec/Arrunategui-PRU)
- 6249.8 R. La Voz, Andahuaylas; 0032-0100 mx huayno, ads Cerveza Cusqueña, sigan disfrutando.. partial ID "Gracias a radio La Voz..." (18-Dec/Arrunategui-PRU)
- 6249.6v Radio La Voz, presumably located at Andahuaylas, 1048, with "Amanecer Andino". Seems to come alive around 1030. Quite strong at this hour, better than @2300, but the frequency is very noisy. (6-Dec/Klemetz-CLM/Dateline Bogota)
- 6895.3 R. San Miguel Arcangel (Cajamarca) 1651-1724 mx ID "Y ya van hacer las 12 del dia y como siempre por su radio San Miguel Arcanagel.. onda internacional, uniendo todo el norte del pais.." (25-Dec/Arrunategui/Cumbre)
- 7040.25 Radio Melodia (p) also seems to be on in the mornings. Heard at 1209 with huanyos and male announcer. When he spoke, the music cut out. Poor level and hammered by morse QRM starting at 1223. Thanks Klemetz tip. (6 Dec/Johnson/Cumbre)
- 7040.3 Radio Melodia, San Ignacio, announcing forthcoming transmissions on FM, as well as an immediate increase in prgr time, from 5 am to 10 pm, local time. - On Dec 12, 1150, in a news prgr called "El matutino, organo informativo de Radio Melodia" mention was made of their address as "Calle Comercio 140", which then supersedes previously reported "Jr. Comercio 740". As is the case with some other Peruvians, this one doesn't seem to be active during weekends. (7-Dec/Klemetz-CLM/Dateline Bogota)
- 7142.90 R. Ayabaca (t) 1000-1030 SS anncmnts; OA folk mx; tentative ID. TNX to Henrik Klemetz tip on WOR; also heard on 7142.94 (t) from 0230-0328* w/SP tlk; OA mx; no ID heard, but signed off with Peruvian NA. (22-23 Dec/Alexander/Cumbre)
- 7143 Radio Ayabaca, Peru, has a DJ who makes believe he is on the BCB (medium wave), "en los 7-50 de Ayabaca su radio, sintonia regional, desde la senal de la amistad en el norte peruano". On Dec 7, the stn closed at midnight, promising to return on the air by 5 am. (Klemetz-CLM/Dateline Bogota) 9504.7 R. Tacna 2245 Peruvian news read by man and woman, then ad block including Coca Cola ad. Then resumption of news. I heard a couple of "ids", but they sounded like R. Tarma, not Tacna. Am I hearing things or does Tacna carry perhaps carry news from Tarma? Killed by s/on of very strong R. Veritas Asia at 2257 on 9505. (7-Dec/Johnson/Cumbre)

Silent for a long time, the Peruvian on 5767.2 kHz has reappeared. Logged Nov 30, 2230 and past midnight. No longer R. Estelar, although still located in Moyobamba. Now ID as Radio Universal, studio address "Jr. San Carlos a media cuadra del Grupo Petroselva." S/on *1000. (Klemetz/Dateline Bogota/DXW/Cumbre)

PHILIPPINES This month's contender for the LN "Most Confusing Schedule" cup (neck and neck with RCI and FEBA) is FEBC, who reminds all its Lushai-speaking listeners to tune in every Monday from 0115-0130...

| | | |
|-----------|------------|----------------|
| 0100-0300 | English | 15450 |
| 0115-0130 | Chin-asho | 15465 Tu |
| 0115-0130 | Chin-falam | 15465 Th |
| 0115-0130 | Chin-tidim | 15465 Fr |
| 0115-0130 | Jingpo | 15465 We |
| 0115-0130 | Karen-pwo | 15465 Sa |
| 0115-0130 | Karen-sgaw | 15465 Su |
| 0115-0130 | Lushai | 15465 Mo |
| 0130-0145 | Kuki | 15465 Fr-Su |
| 0130-0145 | Meithei | 15465 Mo-Th |
| 0130-0145 | Naga-ao | 15465 Mo-Fr |
| 0130-0215 | Naga-ao | 15465 Sa/Su |
| 0200-0215 | Chin-tidim | 15465 Sa |
| 0200-0215 | Karbi | 15465 Su |
| 0500-0900 | Mandarin | 15450 |
| 0800-0830 | Banjar | 15380 |
| 0800-0830 | Sasak | 12005 |
| 0830-0900 | Gorontalo | 15380 |
| 0830-0900 | Javanese | 12005 |
| 0830-0900 | Sundanese | 12005 Mo/We/Fr |
| 0855-1100 | Russian | 9465 |
| 0900-0930 | Makasar | 15380 |
| 0900-1000 | Indonesian | 12005 |
| 0900-1400 | Mandarin | 9400 |

| | | | | | |
|-----------|--------------|----------------|-----------|---------------|------------------|
| 0930-1000 | Bugis | 15380 | 1315-1330 | Stieng | 9795 Sa |
| 0930-1100 | English | 11635 | 1315-1330 | Whitetai | 9795 Mo |
| 0945-1015 | Black Tai | 15095 We | 1330-1345 | Jingpo | 9795 |
| 0955-1600 | Mandarin | 9495 | 1330-1400 | Amoy | 9475 |
| 1000-1030 | Amoy | 9475 | 1345-1400 | Chin, Daai | 15095 |
| 1000-1030 | Minangkabau | 12005 | 1345-1400 | Mien | 9795 |
| 1000-1030 | Sundanese | 15380 | 1345-1400 | Mnong | 9795 Sa |
| 1015-1045 | Indonesian | 15095 | 1400-1415 | Palaung, Pale | 15095 Mo-Sa |
| 1015-1045 | Malay | 15095 | 1400-1430 | Jarai | 9670 We |
| 1030-1045 | Mien | 11690 | 1400-1430 | Koho | 9670 Su |
| 1030-1045 | Mnong | 11610 Sa | 1400-1430 | Vietnamese | 9670 Mo/Tu/Th-Sa |
| 1030-1100 | Javanese | 15380 | 1400-1530 | Russian | 9465 |
| 1030-1100 | Swatow | 9475 | 1400-1600 | Mandarin | 5890 9400 |
| 1045-1100 | Khmu | 11610 Mo/Th-Sa | 1415-1430 | Chin-asho | 15095 Sa |
| 1045-1115 | Aceh | 15095 | 1415-1430 | Chin-haka | 15095 Tu |
| 1100-1115 | Mongolian | 11650 | 1415-1430 | Chin-tidim | 15095 Fr |
| 1100-1130 | Blue Hmong | 11610 | 1415-1430 | Jingpo | 15095 Th |
| 1100-1130 | Hmong, White | 11610 | 1415-1430 | Karen-pwo | 15095 We |
| 1100-1130 | Zhuang | 9475 | 1415-1430 | Karen-sgaw | 15095 Su |
| 1100-1230 | Indonesian | 15380 | 1415-1430 | Lushai | 15095 Mo |
| 1115-1130 | Jarai | 9795 Fr | 1430-1530 | Burmese | 9670 |
| 1115-1130 | Katu | 9795 Tu | 1530-1545 | German | 9495 Su |
| 1115-1130 | Mongolian | 11650 | 1530-1545 | Kirghiz | 9495 Fr/Sa |
| 1115-1130 | Muong | 9795 Th | 1530-1545 | Russian | 9465 Tu/We |
| 1115-1130 | Stieng | 9795 Su | 1530-1545 | Uzbek | 9495 Th |
| 1115-1130 | Tho | 9795 Mo | 1530-1600 | Ukrainian | 9465 Mo |
| 1130-1145 | Bahnar | 9795 Sa | 1545-1600 | German | 9495 Su/Tu/We |
| 1130-1145 | Bru | 9795 Tu | 1545-1600 | Kazakh | 9465 Fr/Sa |
| 1130-1145 | Jeh | 9795 Th | 1545-1600 | Osetin | 9465 Th |
| 1130-1145 | Mon | 15095 | 1600-1615 | Uighur | 9495 |
| 1130-1145 | Nung | 9795 Mo | 1600-1800 | Russian | 9465 |
| 1130-1145 | Rade | 9795 Sa | 1615-1630 | Kazakh | 9465 Tu/We |
| 1130-1145 | Whitetai | 9795 We | 1615-1630 | Kirghiz | 9495 Th/Fr |
| 1130-1200 | Chrau | 9795 Su | 1615-1630 | Osetin | 9465 Mo |
| 1130-1200 | Lao | 11610 | 1615-1630 | Uzbek | 9495 Sa/Su |
| 1130-1330 | Cantonese | 9475 | 1800-1830 | Russian | 9465 Mo/Th/Sa |
| 1130-1400 | Russian | 9465 | 1800-1830 | Ukrainian | 9465 Su/Fr |
| 1145-1200 | Hre | 9795 Tu | 1830-1845 | German | 9495 Su |
| 1145-1200 | Jarai | 9795 Fr | 1830-1845 | Russian | 9465 Tu/Th/Sa |
| 1145-1200 | Karen-sgaw | 15095 | 1830-1845 | Ukrainian | 9465 Fr |
| 1145-1200 | Nung | 9795 Mo | 1830-1900 | English | 9495 We |
| 1145-1200 | Rade | 9795 Sa | 1830-1900 | Romanian | 9465 Tu |
| 1145-1200 | Rengao | 9795 Th | 1845-1900 | German | 9495 Su/Fr |
| 1145-1200 | Roglai | 9795 We | 1845-1900 | Russian | 9465 Th |
| 1200-1215 | Rawang | 15095 | 1845-1900 | Ukrainian | 9465 Tu/Sa |
| 1200-1300 | Khmer | 11610 | 2200-2400 | Mandarin | 9405 |
| 1200-1300 | Mandarin | 7355 | 2230-2300 | Lao | 9875 |
| 1200-1300 | Vietnamese | 9795 | 2230-2315 | Khmer | 9495 |
| 1215-1230 | Lisu | 15095 | 2230-2345 | Indonesian | 9780 |
| 1230-1300 | Malay | 15380 | 2300-2315 | Akha | 11650 Sa/Su |
| 1230-1400 | Burmese | 15095 | 2300-2330 | Blue Hmong | 9875 |
| 1300-1315 | Bahnar | 9795 Sa | 2300-2330 | Hmong, White | 9875 Su-We/Fr |
| 1300-1315 | Black Tai | 9795 Mo | 2315-0015 | Vietnamese | 9495 |
| 1300-1315 | Bru | 9795 Tu | 2315-2330 | Lahu | 11650 |
| 1300-1315 | Chru | 9795 We | 2330-0115 | Burmese | 15465 |
| 1300-1330 | Koho | 9795 Su/Th | 2330-2345 | Wa | 11650 |
| 1300-1400 | Vietnamese | 9670 | 2345-0030 | Shan | 15520 |
| 1300-1600 | English | 11995 | 2345-0030 | Shan, Chinese | 15520 |
| 1315-1330 | Eastern Cham | 9795 We | | | |
| 1315-1330 | Hre | 9795 Tu | | | |
| 1315-1330 | Sedang | 9795 Fr | | | |

(5-Dec/Gray-FEBC/Schaay/BCDX/Bueschel-FRG)

RVA Manila in Burmese 2330-2400 new 7235
(x7210). (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

VOA English to SoAsia 0100-0300 replaced 21550 by 17820 kHz, Poro 50 kW, 260 degrees. (21-Dec/El-liott/Comm World/BCDX)

PORTUGAL Radio Portugal services to Timor and India now: Timor: Portuguese 1300-1400 Mon-Fri, 0800-1000 Sat-Sun-festival days; Tetum Mon-Fri 1205-1300 all on 17595; India: Portuguese 1300-1430 Mon-Fri, 1600-1900 Sat-Sun-festival days; English 1430-1500 Mon-Fri all on 21515. English to other areas is: Europe 2100-2130 6130 9780 9815, USA/Canada 0430-0500 6150 9570, all Mon-Fri. (Padula/EDXP) QATAR QBS Doha in Arabic 0705-1305 now also on 15395 kHz (QRM Dubai here for decades) (x15265). (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

ROMANIA Radio Moldova International - recent sked as supplied to WRTH97 from a collaborator in Moldova (Romanian transmitters):

| | | |
|-----------|----------|-------|
| 0230-0255 | Spanish | 9400 |
| 0300-0330 | Romanian | 7520 |
| 0330-0355 | English | 7520 |
| 0400-0425 | Russian | 7520 |
| 0430-0455 | English | 7520 |
| 1200-1225 | Spanish | 15315 |
| 1230-1300 | Romanian | 9400 |
| 1930-1955 | Russian | 7520 |
| 2000-2025 | French | 7520 |
| 2030-2055 | Spanish | 7520 |
| 2100-2125 | French | 7520 |
| 2130-2155 | Spanish | 7520 |
| 2200-2225 | English | 7520 |
| 2300-2325 | English | 7520 |

All transmissions are Mon-Fri only. (Sennitt/USENET/Ogrizek/EDXP)

SAO TOME VOA morning program 0300-0630 via Sao Tome now on new 4960 kHz. (17-Dec/Ferguson)

SAUDI ARABIA BSKSA from 3/11-2/3/97 shows the following changes: Main AA program: 11910 (x11965) 1700-1800 to W. Europe; Holy Koran program: 9740 0300-0600 (x9620) Egypt, Libya 11935 0300-0600 (x11820) C. Asia, 17720 0300-0600 (x17895) C. Asia 21495 0900-1200 (x21530) SEA; Call of Islam: 11910 1500-1700 (x11965) W. Europe. (3-Dec/Padula-AUS/EDXP/BCDX/Bueschel-FRG)

17880 Riyadh. NF. Koran svce to SEA, 1005 (7-Dec/Padula/EDXP) 21665nf Riyadh, Indonesian, *1000, ex-planned 21670(7 Dec/Padula/EDXP)

Big problems with their transmitters: fr 0300 really on odd 9553.6 instead of 9555. 9619.5 (9620), 9718.3 (9715/9720), at 1200 15277.8 (15280). New progr out of the schedule is on 12038.5 kHz at 1800-2000 in Arabic. (3 Dec/Padula-AUS/EDXP & Paniview-BUL/BCDX/Bueschel-FRG)

SEYCHELLES 15480 kHz Voice of Tibet via FEBA back here from 15445 kHz at 1142-1157. (5-Dec/Dasgupta-IND/EDXP/Padula)

FEBA now using 11640 kHz with Indian vernaculars at 1257-1413 replacing 11670 (to avoid RFI program) and on 11600 kHz at 1414-1545 replacing 11670 & 11870 kHz. So English is now at 1500-1545 hrs (varying s/off time) on 11600 kHz. (19-Dec/Dasgupta-IND/EDXP/Padula)

SINGAPORE 7205 kHz, BBC London from Kranji tested on this channel on Dec 3 & 4 at 1630-1645 in Bengali for a possible replacement of 7160 kHz. (5-Dec/Dasgupta-IND/EDXP/Padula)

Radio Corp. of Singapore, Singapore 5999.97 1430 presumed with W Chinese talks. Not Voice of the Strait which is also listed here, but I checked their parallel channels. (11-Dec/Schaay)

RSI Singapore in English on new additional 6105 kHz, in //to 6155 kHz at 1100-1400. (ex 31 mb2) (15-Dec/NHK RJ MediaRoundUp/BCDX/Bueschel)

SLOVAKIA Is AWR still on 6055 in English at 2130? No trace of it Sun Dec 15, checking for Wavescan, but BBC 6050 English by Radio, listed Cyprus beamed NW was quite audible. Come to think of it, couldn't hear 6055 the week before, either (Hauser)

SOMALIA 6860nf R. Mogadishu (p) 2035-2100* Ex-6854. Lcl exotic mx; s/off w/NA. Weak. Suppressed carrier USB. Also heard Nov 30 on 6860 at 0308. (28-Nov/Alexander/Cumbre) 6870u Radio Mogadishu Vx of the Somali People 1955 Martial IS EE ID and nx by M. EE pop ballads to same IS and EE ID. Back into Somali at 2015. (7-Dec/Rausch/Cumbre)

Radio Mogadishu, Voice of the Masses of the Somali Republic, which broadcasts in support of the Somali National Alliance headed by Husayn Muhammad Aydid, is currently observed with external-service programs according to the following schedule: English: 1300-1315, 2000-2015 Arabic: 1315-1330, 2015-2030 Amharic: 1330-1345, 2030-2045 Swahili: 1345-1400, 2045-2100 programs in Somali are observed at other times, such as 1700-2000. The English service identifies itself as "the external service of Radio Mogadishu, Voice of the Somali People". The radio, which announces that it broadcasts on shortwave as well as on VHF/FM for listeners in Mogadishu, is currently observed on either 6870 or 6890 kHz. (BBCM)

SOUTH AFRICA The Sentech ex-R.Oranje 100kW transmitter is now standing idle as it is connected to a LP antenna with an azimuth of 275 degrees, which is not much in demand. However, Sentech is planning to relocate the LPA to an azimuth of 5 or 7 degrees, because some clients are interested in using it for transmissions to Zambia and Zimbabwe. Probably this will happen early next year. Sentech may have a new client on the air on short wave before Christmas. (15-Nov/Conradie RSA/Cumbre/EDXP/Padula) ...and the "new client" is...

The new shortwave service "Stocks & Funds Television and Radio Network", nominally began broadcasting December 15 from Sentech in South Africa, with transmissions are directed towards Africa & Middle East. The station will use two 250 kW transmitters for some 19 hours a day. Tentative sked:

| | |
|-----------|-------------|
| 0200-0300 | 6195 7175 |
| 0300-0400 | 9775 11985 |
| 0400-0800 | 11985 15225 |
| 0800-1100 | 17735 21745 |
| 1400-1600 | 17735 21745 |
| 1600-1700 | 17735 |
| 1800-2200 | 15420 17890 |

Address: Stocks & Funds Television and Radio Network, 1733 Clifton Road NE, Atlanta, GA 30329, USA. Telephone: 404-315 9541. (5-Dec/Radio Nederland Media Network/Nordic SW Center)

The final W96 sked for Trans World Radio - TWR, via Meyerton.

| | | |
|-----------|----------|-------|
| 0333-0404 | Amharic | 7215 |
| 0600-0657 | English | 11730 |
| 1600-1630 | Kirundi | 9850 |
| 1630-1700 | Oromo | 9850 |
| 1640-1655 | Somali | 9650 |
| 1700-1730 | Tigrinya | 9850 |
| 1730-1800 | Amharic | 9850 |
| 1830-1900 | Nupe | 9510 |
| 1900-1930 | Yoruba | 9510 |
| 1930-2000 | Fulani | 9510 |
| 2000-2030 | Hausa | 9510 |
| 2030-2057 | Twi | 9510 |
| 2100-2130 | Arabic | 7215 |

(Sentech web site/Otto/Bueschel/BCDX)

Durban-based Capital Radio 604 ended its broadcast days on Friday, 29th November. The 17-year-old station blamed its closure on its long battle to upgrade from mediumwave transmission to FM in Kwa-Zulu/Natal. (BBCM)

SRI LANKA 9730nf SLBC ex-9720, C&W mx 1328, (25-Nov/Valko/Cumbre) Sked 0030-0430, 1230-1630-1730 weekends (Goonetilleke/Cumbre) EE at 1530-1600 on new 9730, although 15425, 9720 & 6025 were announced at the end of the program. (9 Dec/Pashkevich/EDXP/Padula) SLBC now on 11905 kHz at 0025-0430 & 1510-1700 replacing 11895. (Dasgupta/DSWCI DX Window) SLBC Colombo replaced 11800 by 11895 kHz at 0030-0430 & 1500-1700 in Hindi. (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

Late changes effective Nov 23 by VOA: Tibetan 0000-0100 6105 (x6120) kHz, 7200 (x7165). Bangla 0130-0200 11870 (x11830). Urdu 1330-1430 11715 (x11960), 9575 (x9705). English 15300 (x15370) 0100-0300 from Thailand as monitored in Calcutta. (27-Nov/Dasgupta-IND/EDXP/Padula)

Radio Japan resumed its relays via Sri Lanka on 9-Dec per sked:

| | | |
|-----------|-------------|-------|
| 0100-0200 | English | 11890 |
| 0200-0330 | Ben/Hi/Urdu | 11890 |
| 0400-0500 | Japanese | 17820 |
| 0600-0700 | AA/French | 17780 |
| 1130-1300 | Ben/Hi/Urdu | 12045 |
| 1300-1500 | JJ/English | 12045 |
| 1700-1900 | EE/Japanese | 11880 |

In addition, in order to avoid mutual interference with other stations, the English (60 min) and Japanese (60 min) programs for SoAS during 1500-1700 is transmitted on 7240 kHz instead of 7225 kHz also with effect from Dec 9th. (9 Dec/Hishikawa-JAP/Yamashita/ABI/DXW/BCDX/Bueschel-FRG)

SWEDEN Radio Sweden sked:

| | | |
|-----------|----------|--------------------------|
| 0000-0030 | Swedish | 6065 |
| 0030-0100 | English | 6065 |
| 0100-0130 | Swedish | 7290 7265 |
| 0130-0200 | English | 7290 7265 |
| 0200-0230 | Swedish | 6090 |
| 0230-0300 | English | 6200 |
| 0300-0330 | Swedish | 7115 |
| 0330-0400 | English | 7115 |
| 0500-0600 | Swedish | 9490 6065 Mo-Fr |
| 0600-0715 | Swedish | 13625 9490 6065 Mo-Fr |
| 0700-0900 | Swedish | 13625-alt 9490 6065 Sa |
| 0800-1000 | Swedish | 13625-alt 9490 6065 Su |
| 1000-1100 | German | 6065 Sa/Su |
| 1100-1130 | Swedish | 7155 6065-(Sat/Sun only) |
| 1130-1200 | Swedish | 13740 11650 6065 |
| 1200-1230 | Swedish | 17785 15240 7155 |
| 1230-1300 | English | 15240 11650 |
| 1230-1300 | Swedish | 13740 |
| 1300-1330 | Russian | 9865 |
| 1300-1330 | Swedish | 15240 13740 |
| 1330-1400 | English | 15240 7155 |
| 1400-1430 | Russian | 9865 6000 |
| 1430-1500 | English | 15240 11650 9485 |
| 1500-1530 | Swedish | 15240 11650 9715 |
| 1530-1545 | Estonian | 6065 6000 |
| 1545-1600 | Swedish | 15240 11650 6065 6000 |
| 1600-1645 | Swedish | 6065 |
| 1645-1700 | Swedish | 9700 7155 6065 |
| 1700-1715 | Estonian | 6065 Su |
| 1700-1715 | Swedish | 9700 7155 6065 Mo-Sa |
| 1715-1745 | Russian | 6200 6065 |
| 1745-1800 | Latvian | 6200 6065 |
| 1800-1900 | German | 6065 |
| 1900-1930 | Swedish | 9655 7155 6065 |
| 1930-2000 | English | 9655 7240 6065 |
| 2000-2030 | Russian | 7150 6065 |
| 2030-2100 | English | 6065 |
| 2100-2130 | Swedish | 7230 6065 Sa/Su |
| 2100-2200 | Swedish | 7230 6065 Mo-Fr |
| 2130-2200 | English | 7230 6065 Sa/Su |
| 2200-2230 | Swedish | 7315 6065 |
| 2230-2300 | English | 7325 6065 |

(BBCM)

TANZANIA - ZANZIBAR 11734.14 RTZ 1950 ID AA mx and ments of Abdul Rakhman, Zaire, Rwanda. ID as "Sault al ya Tanzania Zanzibar" NA, s/off 2000* (20-Dec/Price/Cumbre)

THAILAND Radio Thailand 9535 nf *2000, English ID into French program. (13-Dec/Alexander/Lamb/BCDX/Bueschel) Observed 9535 2000 2115 x11805, German, E, F, Thai, //v9655.4 kHz (Bueschel/BCDX)

TUNISIA RTT Tunis in Arabic 0400-0700 & 1600-1800 on new v7305.6 (x7280) and v7474.7 kHz. (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

RTT Tunis in Arabic at 1700-2400 on odd 7286.4 (reg 7280). Distorted audio, due to CHN? jamming around 7287...7290 kHz. Tunis far better on 7475 kHz. (15-Dec/Bueschel-FRG)

TURKEY Voice of Turkey - TRT winter schedule:

| | | |
|-----------|-------------|--|
| 0000-0500 | Turkish | 5980 6120 9445 9460 15385 |
| 0400-0500 | English | 7300 9685 17705 |
| 0500-0800 | Turkish | 7300 9445 9460 11925 11955 15145 15385 21715 |
| 0800-1000 | Turkish | 9460 11925 11955 13670u 15145 15385 21715 |
| 0830-0930 | Azerbaijani | 9765 11835 |
| 0930-1030 | Persian | 9630 11795 |
| 1000-1100 | Turkish | 9460 9560 11955 15350 |
| 1000-1200 | Arabic | 11690 13710 |
| 1030-1130 | Romanian | 7110 |
| 1030-1130 | Serbian | 9505 |
| 1100-1400 | Turkish | 9460 9560 11955 15350 |
| 1100-1600 | Turkish | 11910 Fr |
| 1130-1230 | Greek | 7110 7150 |
| 1200-1300 | Chinese | 13710 |
| 1230-1330 | Albanian | 7165 |
| 1230-1330 | Bulgarian | 7110 |
| 1300-1400 | Urdu | 11900 |
| 1330-1430 | English | 9630 9630 |
| 1400-1500 | Persian | 9710 |
| 1400-1500 | Russian | 9675 |
| 1400-1600 | Turkish | 9460 9560 11955 13670u 15350 |
| 1430-1530 | German | 9445 |
| 1500-1600 | Azerbaijani | 6050 |
| 1500-1700 | Arabic | 6120 7130 |
| 1530-1630 | Greek | 6090 |
| 1600-1700 | Turkish | 5980 9460 9560 11955 15350 |
| 1630-1730 | Hungarian | 7240 |
| 1700-1800 | Bulgarian | 5960 |
| 1700-2200 | Turkish | 5980 6120 7110 9460 9560 15385 |
| 1730-1800 | Macedonian | 5970 |
| 1800-1900 | Russian | 6135 |
| 1830-1930 | German | 5935u 5970 |
| 1900-2000 | Bosnian | 6135 |

| | | |
|-----------|---------|---------------------------|
| 1930-2030 | English | 5970l 6000 |
| 2030-2130 | French | 7150u 7255 7270 |
| 2200-2300 | Turkish | 5980 6120 7110 9560 15385 |
| 2300-2400 | English | 7280 6135u 9560 9655 |
| 2300-2400 | Turkish | 5980 6120 9445 9460 15385 |

(Klink-FRG/Bueschel/BCDX & Padula/EDXP)

UAE VoUAE Abu Dhabi in Arabic 1400-2400 new 6015, 1400-1600 9605, 1500-1800 9695, 1500-2400 9770, 1600-2400 11710, 1800-2400 new 7220 kHz. (3-Dec/Paniview-BUL/BCDX/Bueschel-FRG)

Abu Dhabi seems to have dropped its English transmissions on shortwave. Whereas in the past the Arabic broadcasts to Europe, North Africa and the Middle East ended at varying times between 2120 and 2150, all current channels (6015, 7220, 9770 and 11710) are now observed to 2202* approx, so there's no way the station can broadcast to North America at 2200. In fact, the Arabic transmissions to the Western Hemisphere may also have disappeared; I can't find any trace of them. (8-Dec/Jones-PAR/Cumbre)

UNITED KINGDOM 3970nf for R. Korea Int'l. via Skelton. FF 2020 (13-Dec/Padula/EDXP) 7165nf BBC-Rampisham. *2200-2230* Serbo Croatian (Padula/EDXP)

BBC German 0600-0630 is now on 3980 (x3985), Skelton. (1-Dec/Volk)

URUGUAY 6140 R. Montecarlo, Montevideo, resumed b/c after a couple of weeks inactive due to technical problems. Noted on Dec.8 at local morning /afternoon w/ Referendum coverage. On Dec. 10, at 0052 on 9595. This day, 6140 s/on was observed at 1100, but spurious are still present on 6213 (distorted), 6070 (rather good), 5929 (distorted). (8/10-Dec/Nigro URG/Cumbre) 9650 Em. Ciudad de Montevideo, 2M speaking sports (4-Dec/Liangas-GRC/Cumbre)

USA Former Clinton deputy chief of staff Evelyn Lieberman has been named as new director of the Voice of America. (BBCM)

VOA English at 1400-1800 now on 7125 kHz from Udorn Thani-THA and 7215 kHz from Ekala-CLN (Sri Lanka), previously 7125 was from Sri Lanka and 7215 from Thailand. Also noted new 11720 khz (x-11905) at 1600-1700 in Hindi parallel to 6060 and 9595 kHz. (19-Dec/Dasgupta-IND/BCDX/Bueschel)

More changes: Tibetan 0000-0100 6105 (ex 6120), 7200(ex 7165). Bangla 0130-0200 11870 (ex 11830), Urdu 1330 1430 11715 (ex 11960), 9575 (ex9705) as monitored in Calcutta. (24-Nov/das Gupta/BCDX/Bueschel)

In light of the continuing crisis in Eastern Zaire, Rwanda and Burundi, VOA has expanded its broadcasts in the Kinyarwanda and Kirundi languages. They are at 0400-0430, now daily, rather than Mon-Fri as before, on 5975 (Botswana, 6170 (Ascension) and 7290 (Sao Tome). (23-Nov/Communications World/Ogrizek/EDXP/Padula)

On December 7, WRMI began broadcasting a weekly program from the Khmer Community Rescue Association of Seattle, Washington. "Thansour Thmey Radio" is aimed at U.S. Cambodians Sked is Saturday from 2200-2230 on 9955 kHz. From 2230 2300, program is in English and is called "Voice of Cambodia Radio International." (direct)

On December 9, WRMI began re-broadcasting a daily 15-minute SS program from Vatican Radio, at 0215-0230 Tuesday-Saturday, and 0145-0200 Sunday on 9955 kHz. (direct)

WINB is about to come back on the air, says George Jacobs & Assoc in a revised client schedule, around Dec 16, showing WINB:

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

All 50 kW (via George Thurman, World of Radio) Station does not believe that they will be ready to transmit by then as the transmitter is still being worked on. The transmitter is still the 50 kW Continental that the station went on the air with in 1962. The station still has only one antenna and programming will be Christian music, with blocks of time being sold. All this per Sally Spiker at the station. (6-Dec/DIRECT/Johnson/Cumbre)

UZBEKISTAN Radio Tashkent has introduced two additional 30 min EE broadcasts at 2030 & 2130. Tom Sundstrom & Lou Josephs heard them on 4850, 5995, 7105, 9540 & 11905. Target area announced as Magreb?? but HFCC says to Central Asia. (22 Nov/Sennitt/RNMN/Ogrizek/EDXP/Padula)

Official W96 sked:

0030-0100 Uighur 6230* 6160* 5060
0100-0130 English 7285 5975 5955
0130-0200 Dari 7285 5975 5955
0200-0230 Pashto 7285 5975 5955
0230-0330 Uzbek 9540 7285 5975 5955
0400-0430 Turkish 15330 15165
1200-1230 English 9715 6025 5975 5060
1230-1300 Uighur 6230* 6155* 5040
1230-1300 Urdu 9715 6025 5975 5060
1300-1330 Hindi 9715 6025 5975 5060

1330-1400 English 9715 6025 5975 5060
1400-1430 Urdu 9715 6025 5975 5060
1430-1500 Chinese 6230* 6155* 5040
1430-1500 Hindi 9715 6025 5975 5060
1520-1550 Dari 9540 7285 6025 5975
1530-1600 Uighur 6230* 6155* 5040
1550-1630 Uzbek 9540 7285 6025 5975
1630-1700 Persian 9540 7285 7105 6025 5975
1700-1730 Arabic 7285 6025 5975
1700-1730 Turkish 9540 7105
1730-1830 Uzbek 9540 7285 7105 6025 5975
1830-1900 Persian 9540 7285 7105 6025 5975
1900-1930 Arabic 9540 7285 7105 6025 5975
1935-2030 German 11905 9540 7105 6230 5060
5035
2030-2100 English 11905 9540 7105 5995 4850
2130-2200 English 11905 9540 7105 5995 4850
2330-2400 Chinese 6230* 6160* 5060

*=via Almaty transmitters, (NDXC + Sennitts/RN MN + Ludwig-FRG/Bueschel/BCDX)

VATICAN 6065nf Vatican Radio *2200 CC, // 7305 5935 (13-Dec/Padula/EDXP)

ZAIRE Radio Agatashya's transmitters and studios in Bukavu were damaged in the fighting and the station has been off of the air since October 27th. The station is looking into alternative ways of transmitting, including shortwave transmissions via Switzerland. All this per Marco Domeniconi at the Hirondele Foundation, the station's backer. (7 Dec/DIRECT/Johnson/Cumbre)

UNIDENTIFIED 3295U at 2033 This one observed again with talk, then slow, anthem-sounding orchestral selection and into what might have been a sporting event; too little audio to be sure. First (and last) heard Nov. 1 in same carrier-plus-USB mode. Belarus? (27-Nov/Hill)

5990 at 0127 Subcontinental vocals and talk past 0130; very poor and mixing with another station. AIR listed here in Sindhi 0100-0200 // 7125, which is thoroughly covered by a Russian-speaker. (1-Dec/Hill)

6039.94 poss Jiangxi, CC talk by W, sudden s/off just before 1500. (Schaay-NETH)

7120.2 around 1240 Chinese drama with lots of shouting and general emoting; nothing listed for 7120 or vicinity. Almost fair level—a real triumph given the conditions, which were wretched as usual. (22-Dec/Hill)

SW

Pirate Radio Report

Chris Lobdell

P.O. Box 146
Stoneham, MA 02180-0146
CompuServe: 75720,253
Internet: piradio@usa1.com

Hello and welcome to the January edition of the PIRATE RADIO REPORT.

Happy New Year to everyone. I hope you all had some time to do some pirate DXing over the holidays.

In this month's report we'll start off with a nice Station Profile sent in to us by Woody B. Serious of Up Your Radio Shortwave.

Station Profile: "Up Your Radio Shortwave"

"UP YOUR RADIO SHORTWAVE was conceived in 1996 as a response to the right-wing domination of talk radio. Rush Limbaugh, for example, delights in saying liberals don't have a sense of humor. He's wrong as usual.

Our objective is to deliver some well-placed (and well deserved) jabs at the radical right-wing. The religious right, who controls the Republican Party, seeks to destroy organized labor, end public education, censor the media, repress women, minorities and homosexuals, and impose fundamentalist Christianity. Our effort to expose the Right would be useless if not entertaining, so we spend a lot of time producing each program.

Each program is produced digitally on a computer. Our trademark is edited political speeches. There's a grain of truth in every political speech if only you read between the lines. That's what we do. Rather than playing what they actually said, we bring you what they actually meant.

Music heard on our show is a combination of recent material by The Foremen and classics by Allan Sherman and The Chad Mitchell Trio.

We keep our studio engineer, Chuck U. Farley, locked in the refrigerator during each broadcast because he tends to hog the mic.

Accurate reception reports to the Blue Ridge Summit, PA drop [Box 109, 17214]merit an

official UP YOUR RADIO SHORTWAVE "Rush Limbaugh As A Pig" QSL sheet. More designs are coming. Studio tapes are available through DVS Communications [Box 1, Belfast, NY 14711]".

Please remember that the opinions expressed in station profiles are of the originator and not necessarily those of NASWA or the PIRATE RADIO REPORT. Thanks again to Woody B. Serious for the nice profile.

Weiner Book Delayed

Last month we mentioned that Allan Weiner's book "Access To The Airwaves" was due out in January. Anita McCormick has informed us, that due to a publishing delay, it looks as though February or March is more realistic. We'll let you know more when we find out.

Loggings...

Some nice logs this month, including the low powered Latin, Radio Pirana International:

RADIO FREE LONDON, a Europirate, was heard by John Fisher while in Newfoundland. They were noted at 2315 on November 9th with pop music and reception reports being read.

RADIO FREE SPEECH RELAY SERVICE was noted relaying HITCHIKERS GUIDE TO THE GALAXY, a narrated science fiction drama by a male with a British accent. Reception reports sent to the BRS maildrop will be QSLed. (Nick Terrance)

RADIO PIRANA INTERNATIONAL was heard on 6925.6 kHz in the AM mode by Don Moore from 0350-0432 UTC on December 7th. Programming consisted of mostly rock music, with IDs and talk mostly in Spanish but with some English.

That's all we have this month. Hopefully we'll be back to our usual two pages in February! Happy pirate DX.



English Schedules

Tom Sundstrom

PO Box 2275

Vincentown, NJ 08088-2275

Fax 609-859-3226

trs@trsc.com

Prepared December 23.

Armenia. The Voice of Armenia English language releases are 0930-1000 UT Sundays on 7480; 1845-1900 Monday-Friday on 7480, 4990, and 4810.

Botswana. We've been hearing R Botswana on all three frequencies (3356, 4820 and 7255) from 03 UT or so. As sunrise overtakes the transmitter site, only 7255 is heard beyond 05 UT... and we heard news in English at 0505-0520. The times vary a bit each night. On the 21st and 22nd, music prior to 05 was Christmas music... in English.

Cuba. Radio Havana Cuba changed its frequencies to Europe for French at 20 and English at 21 UT. The new ones are 9620 and 9585 USB.

Nigeria. Broadcasters with an interest in Africa were asked by Radio Nigeria to monitor test transmissions. The non-stop African music on 15120 has been widely reported, but Chris Hanibly, Australia, reported non-stop African music on 7255 after 08 or so. Closing in on Christmas, we were up late a few nights, finishing Web page projects for WWCN and Radio Netherlands, and parked the NRD-535D on 7255. As R Botswana fades into the sunrise, we note

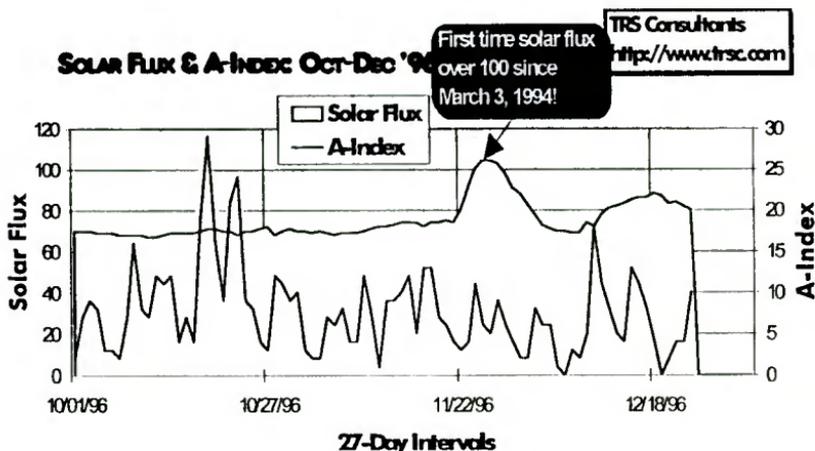
a strong open carrier on c.0540 UT. A 1 kHz test tone starts by 0545, and non-stop African music starts 0559:30. No IDs at all. The signal is very strong, averaging 30 db/s9 on the NRD-535D. It's also easy to hear on the Sony SW-100 with its whip antenna, well past sunrise in Nigeria. We set the sleep timer and nod off. On the 23rd, Christmas music in English was heard in place of the native African music from 06 past 08.

Norway. To avoid interference, R Norway has juggled frequencies on 3 English language releases. Sunday 13 to see Asia is now on 15605 and 9905; Monday 02 to NAM/CAM now on 7465 and 7440; and Monday 04 to wNAM on 7520. (Joe Hanlon/direct)



Internet "stuff". Coming to the Winter SWL Festival for the first time? (This one, number 10, ought to be a hummer!) We have a map posted on our Web site at http://www.trsc.com/swl_fest.htm.

Interested in Antique and Old Time Radio? In December we added more than a dozen entries to the page we compile for Radio Netherlands? Dial up <http://www.mw.nl/en/pub/antique.html> and have a look at the more than 120 sites we review.



<http://www.trsc.com>

QSL Report

Sam Bario
47 Prospect Place
Bristol, CT 06010

REQUEST: I hope everyone had and continues to have a very joyous DX season. If any of our members have a fairly current utility station address book with call letters, frequencies, etc. I would like to borrow it for a day or two. I will pay all postage related costs. It would be appreciated very much....Sam.

ALBANIA: Radio Tirana 7160 p/d "Woman in Folk Costume" cd. in 12 wks. (Maroti-NY).

ANDAMAN ISLANDS: All India Radio 4760 via **Port Blair** f/d "Brahmesvara Temple" cd. in 175 ds. (Vaghjee-MAUR).

ARMENIA: Voice of Armenia 9965 cd. in 45 ds. for 1 IRC which was used on the envelope as rp. (Vaghjee).

AUSTRALIA: Radio Australia 6090 via **Darwin** f/d "Sunrise in Shepparton" cd. w/ schedule & brochures in 1 mo. (Vaghjee).

VL8A 4835 via **Alice Springs** f/d 1tr. w/ sticker in 45 ds. for 1 IRC (Colton-FL). **VL8K** 2485 via **Katherine** "Map" cd. in 40 ds. w/ schedule and sticker. (Vaghjee).

BOLIVIA: Radio Santa Cruz 6135 f/d 1tr. w/ sticker and colorful station pennant in 17 ds. for a SP rpt. and \$1.00. (Col-

BRASIL: Radio Educacao Rural 4755 ton) p/d folder in 58 ds. for a taped rpt. & \$1.00. v/s Ailton Guerra, Gerente. (Stephens).



SPECIAL OFFER: We are still offering 600 foreign (large) postage stamps for \$5.00 or 1300 for \$10.00 or 2000 for \$15.00. In addition, for each \$5.00 order I will include an additional 300 US commemoratives absolutely free! That comes to 900 stamps for \$5.00, 1900 for \$10.00 Or 2900 for \$15.00. Please enclose \$3.00 for shipping costs. It would be appreciated. The stamps make for excellent enclosures in your reception reports....Sam.

Radio Bandeirantes 9645 n/d 1tr. w/ stickers and stamps in 5 wks. for an EG rpt. and \$1.00. v/s Salomao Esper, Director. (Myers-VA). **Radio Cancao Nova** 4825 p/d cd. w/ form 1tr. and newspaper in 2 mo. for an EG rpt. and \$1.00. (Myers-VA).

BULGARIA: Home Service Relay Horizont 7670 "Town of Aprilzi" cd. in 35 ds. for 1 IRC. v/s Ivo Ivanov, Frequency Manager. (Vaghjee).

CANADA: Radio Korea International

11715 via **Sackville** p/d "Yoon Suk-Joong" and "Kang Shin-Jai" cds. in 98 and 67 ds. Stickers and schedule rcvd. (Weissborn).

Radio Canada International 11945 f/d "50th Year" cd. w/ sticker and pennant in 15 ds. for \$1.00. (Colton-FL). 15150 same in 20 ds. w/ pennant. (Weissborn)

Radio Japan 5960 via **Sackville** f/d "Music Festival" cd. in 29 ds. (Raymond).

CHILE: Radio Esperanza 6090 f/d cd. in 35 ds. for a SP rpt. and \$1.00. (Colton). same 6

PLEASE QSL FOR
NASWA AWARDS



FRE TESFAMICHAEL
Voice of the Revolution of Tigray
P.O. Box 450
Mekelle, Tigray
Ethiopia
18 September 1996

color cd. in 76 ds. for a
SP rpt. Also rcvd. postcds.,
stickers, stamps and a banknote. The
station is difficult to hear since
Radio Bairanters is only 110 miles
away. (Coelho de Castro-BR).

Mr Richard A. D'Angelo
2216 Burkley Drive
Hummelssing, PA 19610
U.S.A.

CHINA: China Radio International 11675 "Tian An Men
Rostrum" cd. w/ sticker in 80 ds. (Vaghjee). **Swiss
Radio International** 7480 via **Beijing** "Basel" cd.
in 28 ds. w/ schedule and stickers. (Hosoya-JPN)
Radio Canada International 11795 via **Xian** cd. in
25 ds. w/ personal ltr., sticker
and schedule. (Hosoya-JPN).

Dear Mr D'Angelo

I've received your letter of 7 September 1996 just now. I'm pleased
to hear from a place from which I've never expected the reception of
our radio would reach.

**CLANDESTINE: Radio Democrat Inter-
national** 6205 via **Meyerton** f/d
"SENTEC" cd. in 2 wks. w/ sked.
for Channel Africa. (Field-MI).
f/d info. sheet in 2 wks. after
a f/up rpt. and \$1.00. (Myers-VA).
Radio Kudirat Nigeria 6205 via
Meyerton f/d form ltr. in 2 mo.
for 2 IRCs. (Lobdell-MA).

Though you got the reception with a special antenna, your information
is important to us. In fact reception would have been better by tun-
ing the 7,515 kHz frequency especially after 0700hrs in the morning
and 1800hrs in the evening. On Saturdays and Sundays we broadcast
from 0700 - 1100 hrs in the morning. You can follow that.

If you could do it, we would appreciate if you could send us books
on media business (experiences of different medias).

Thanks a lot, and hope to hear from you again.

**COSTA RICA: Radio For Peace Inter-
national** 7385 f/d frameable "9th

With Greetings

FRE TESFAMICHAEL
DIRECTOR - VORT

Anniversary" certificate in 45 ds. for \$1.00. v/s James
Latham, Station Manager. (Weissborn). f/d B&W "Building" cd
w/ schedule in 175 ds. (Vaghjee).

CROATIA: Hrvatski Radio 13640 f/d ltr. in 45 ds. after 2 f/up
rpts. for \$1.00. v/s Bozidar Tomaneck. (Martin-CA). 7370 f/d
ltr. in 5 mo. for 3 IRCs. (Dybka-TN).

CZECH REP: Radio Prague

7345 f/d cd. w/ schedule in 28 ds.
(Pasquale-PA).

To: HENRY WEISSBORN

We are pleased to confirm your
reception of the Voice of America
on SEPT. 7, 1996 at 1041 UTC.
Frequency: 11875
Via: LAMPERTHEIM
Thank you for your report.

NOTES: Larry Colton says he finally got to
send a few f/up reports. Although QSLs
have been sparse, when one replies the
colorful pennants and stickers make the
hobby most enjoyable. **Carl Mann** is still
struggling for a KAIJ QSL after numerous
FAX's and reports. The address I printed hasn't paid off yet. **Anita Glockner** says the
QSLs are few and far between but she is pleased with the KAT and Moscow QSLs. KAT said
they received 19 reports. The Moscow QSL took almost 5 months as the first report I
sent via registered mail was apparently lost....Maybe...Sam.

DOMINICAN REPUBLIC: Radio Barahona 4930 p/d ltr. w/ 2 stickers in 108 ds.

* after 2 f/up rpts. in SP w/ \$1.00
v/s Ing. Roberto Lama S., Admini-
strador General. Thanks to DXer
Cesar Objio who took my rpt. to the
* station. (Stephens-AL). **Onda Mus-
ical** 4780 f/d ltr. w/ postcard
in 108 ds. after 2
f/up rpts. in SP.

WSM

Grand Ole Opry Radio Network

Again thanks to Mr.
Objio. (Stephens-AL).
**Radio Cristal In-
ternational** 5010
f/d professionally
printed cd. in 6
mo. v/s Dario Bad-
ia. (Lobdell-MA).

ECUADOR: HCJB 9745 f/d
"Hotel Quito" cd.
in 55 ds. for ms.
Schedule rcvd. (We-
issborn). 9415 same
cd. in 25 ds. for a



Free Radio Listener:

Verification number 25 confirms your reception on 7/24/96 from
2250-2325 UTC on the FCC approved frequency of 6255 kHz. Our
transmitter was operating in the AM mode with an output power of 100
watts. WSM broadcasts from "Music City, U.S.A." - Nashville, TN.

An initial test broadcast was conducted on October 16, 1993 around 2300
UTC in the 41 meter band. Although the shortwave service is new, The Grand
Ole Opry radio program has been around since 1925. In 1974 it was moved to
Opryland, an entertainment park near Nashville. The staff of pirate station
WSM enjoys bringing to you the best of country music, past and present. We
invite musical requests, comments and whatever else you may have. Until we
meet again over the airwaves, keep on supporting free radio! Thank you for
the reception report.

WSM

Post Office Box 605
Huntsville, AL 35804

PIRATE RADIO BOSTON
RULES!!

QSL



NOTES: Denis Pasquale has had a few QSLs trickle in lately. The pirate stations seem to QSL better than most of the larger international broadcasters. I'm still a little hesitant to send reports to the Latin stations as my Spanish and Portuguese is not that good. Try to develop a form in SP or PT until you get more proficient...Sam. Denis - thanks for the stickers...Sam. Allan Loudell was home sick for a short time when the USPO delivered him two new countries in one day (!) Sao Tome and Bangladesh! What a tonic to get well! Jim Fedor says the last time he talked to me was at Black Rock State Park during one of the infamous outings! I have wondered where you went. Glad to hear you're out on parole. Hi!...Sam.

ETHIOPIA: Radio Ethiopia 9560 f/d blue cd. w/ sticker & schedule in 33 ds. after 2 f/up rpt. w/ \$1.00. v/s
* Miss Woinsht Woldeyes. (Martin-CA). Voice of the Revolution of Tigray 5500 nice 3 pg. ltr. w/ postcard and a prepared cd. filled in. This was in 1 mo. for a taped rpt. v/s Fre Tesfamichael. (Berg-MA). same in 3 wks. (Field-MI).

EURO-PIRATE: Weekend Music Radio
* 6952.6 f/d green cd. w/ ltr. and info. sheet in 3 mo. v/s Jack Russel. (Lobdell-MA).

FINLAND: YLE Radio Finland 15400
* f/d "Finnish Coastline" cd. in 60 ds. for \$1.00. Schedule was rcvd. (Weissborn).

FRENCH GUIANA: Radio France International 11995 f/d "Antenna" cd. w/ schedule in 60 ds. (Vaghjee). RFO Guyane 5056 f/d cd. w/ sticker in 2 yrs! for \$1.00. (Dybka-TN). Swiss Radio International 9905 f/d "Solothurn-Inn of the Red Tower" cd. in 19 ds. for 1 IRC. Schedule rcvd. (Weissborn-TX).

GABON: Africa No. One 9580 n/d cd. w/ ltr. and stickers in 6 wks. after a f/up rpt. w/ \$1.00. (Myers). Radiodiffusion Television Gabonaise-Chaine 1 7270 ltr. in 150 ds. (Vaghjee).

JP rpt. (Hosoya). Radio Baha'i 4949.8 f/d cd. w/ ltr., pennant and brochures in 3 wks. for a SP rpt. and \$1.00. v/s William Rodriguez Barreiro, Coordinador.

* (Kohlbrenner-PA). La Voz de Los Caras 4795 p/d ltr. w/ "50th Anniversary" pennant in 1 mo. for a SP rpt. and \$1.00. v/s Ing. Marcelo Nevarez Faggioni, Director General. (Stephens).

ENGLAND: Midwest Radio 7325 via BBC site. f/d "Scenes of County Mayo" cd. w/ p/d ltr. and a personal note w/ sticker and newsltr. in 47 ds. (Stephens).

EUROPEAN RUSSIA: Voice of Russia 9480 via St. Petersburg f/d cd. in 2 mo (Field-MI). 9710, 9880 and 11630 via Moscow f/d cd. in 2 mo. (Field). 11675 via Moscow f/d "Friendship House" cd. in 59 ds. (Levison-PA). same in 65 ds. (Levison).



Lima, 21 de junio de 1996

C# 217-96.00

Solista
Richard A. D'Angelo
2216 Durley Drive
Wyomissing, PA 19510
U.S.A.

Estimado amigo:

Recibi su comunicacion. Muchas gracias
Radio Cora del Peru, es una emisora joven, salimos al aire por primera vez el 01 de enero de 1986. Soy el propietario, pero trabajo 52 años como locutor.

En otras emisoras ha sido locutor comercial, animador, narrador de noticias, comentarista politico, director, administrador, sub gerente y gerente. Hoy soy gerente general de mi propia radio, y sigo en el micrófono, pues hago "Las Noticias...", el radioperiódico de Cora", de 04:30 a 10:00 horas. Se trata de un radioperiódico con redacciones, correspondencias y crónicas de todo el país. Es un servicio importante y respetado; nuestra programación continúa hasta las 24 horas, con musicas variada y dos ediciones mas de "Las Noticias...".

Tenemos la segunda sintonía en el Peru, donde operan 625 estaciones de AM y FM. Operamos con equipos Eicom Bauer de 10 kilowatts. Onia Modas, 600 KHz y Onia Cora Tropical, banda de 60 más, 4915 KHz; con sistema especial de antenas diseñadas en U.S.A., para duplicar su potencia.

Nuestros estudios se ubican en el Centro Civico, Paseo de la Republica N° 144, ofic. 5, Lima-1, Peru. Teléfono 433-0848 y 433-1188.

Nuestra Planta de transmisión se encuentra ubicada en el Distrito de Puente Piedra, a 27.5 kilómetros al sur de Lima.

Esperamos contar con su amistad siempre.

Agradecimiento
Juan Ramirez Lizaro
Juan Ramirez Lizaro



1947 - 1997

via Vaghjee

QSL



Radioagency
"VOICE OF ARMENIA"
Atek Annunlian 3
Yerevan 25
Republic of Armenia
(37-2) 570974, 552658

This verifies your reception
report on our transmission

Date: 23.8.1996
Time: 20.32 UTC.
Frequency: 9965 Khz.

up rpt. for 2 IRCs. (Kusalik). 4775 via Im-
phal f/d "Devidol, Gaurisagar Temple" cd. in
153 ds. after a f/up rpt. (Kusalik).

IRAN: IRIB 9022 f/d cd. in 85 ds. or 2 IRCs. Also
rcvd. booklets. (Colton-FL).

VERIFICATION SIGNERS: Radio Cultura de Foz Iguazu 6105 Francisco
Pires Dos Santos. Radio Transmundial 11705 via Radio Nova Vis-
ao Jose Eduardo Dias, Gerente. Addr: C.P. 18300, Sao Paulo, SP.
TIPC Faro del Caribe 5055 Mauricio Ramires. Radio Federacion Sh-
uar 4960 Yurank Tsapak Gerardo...via PLAY DX...Sam.

IRELAND: United Christian Broadcasters Ltd. 6202.8 f/d cd.

* in 2 wks. for an E-mail and a taped rpt. 1.5 kw. v/s
Graeme Wilson, Technical Manager. (Berg-MA).

JAVA: RRI Jakarta 9680 cd. w/ schedule in 163 ds. for \$1.00.

I also sent stickers, stamps, postcards, etc. v/s Dr. Syam-
sul Muin Hararap, Station Manager. (Coelho de Castro).

KALIMANTAN TIMUR (Borneo): RPDTk Dua Berau 5692 f/d ltr. w/ pre-
pared cd. in 118 ds. after a f/up rpt. in IN for \$1.00. v/s

M. Auzi, Kep-
ala Stasiun.
(Kusalik-ALB).

RRI Banjarmasin
3249.5 f/d pre-
pared cd. in 31 ds.
for ms. v/s Drs. H.
Harmyn Husein. (Mar-
tin-CA).

KOREA, REPUBLIC OF:

Radio Korea Inter-
national 7275 "Cha
Bum-suk Writer" cd.
in 28 ds. for a JP
rpt. Also rcvd. sked.
and sticker. (Hosoya).

KUWAIT: Radio Kuwait

11990 f/d folder cd.
w/ schedule in 68
ds. (Glockner). same
in 30 ds. (Vaghjee).

RADIO FOR PEACE INTERNATIONAL

NINTH ANNIVERSARY BROADCAST 1996

Reception Verification Certificate

We are pleased to confirm your reception of RFI's Ninth Anniversary "Ereos on the Air" broadcast which
took place September 17, 1996 from UTC 0000-0400.

Radio For Peace International greatly appreciates your interest in this very special event
Thank you for the opportunity to contribute to your shortwave listening pleasure

RFI began broadcasting UTC September 13, 1987 at 0000 on 7.280 MHz with 40 watts of power.
In October of 1987 the station increased its power to 1,100 watts. Today, RFI operates one 10,000 watt transmitter,
two 2,300 watt transmitters and a 30,000 watt transmitter.



James Latham
James Latham
RFI Station Manager - RFI

NAME Henry Weissborn

DATE 17.8.1996

TIME 0009 - 0010 UTC

FREQUENCY 7.285 MHz

RFI P.O. BOX 86 SANTA ANA, COSTA RICA

LEBANON: Voice of Hope 9990 "World Map" cd. in 35 ds. for 1 IRC

LESOTHO: BBC Transmitting Station 3255 via (Vaghjee).

Lancers Gap f/d sheet in 28 ds. for 2 IRCs. v/s

Martin J. Rigby, BBC Senior Engineer. (Kusa-lik). same w/ sticker in 34 ds. for \$1.00

LIBERIA: Liberian Communi- (Stephens)

cations Network 5100 ltr. returned

"service temporarily suspended"

(Field-MI).

MALAWI: Malawi Broadcast-

ing Corporation 3380

f/d ltr. in 1 mo. for 1

IRC. (Colton-FL).

MALI: China Radio International f/d cd

in 40 ds. w/ newsltr. and schedule

MEXICO: XERMX Radio Mexico Inter- (Ziolkowski).

national 9705 f/d cd. w/ sticker and pennant

in 21 ds. for 1 IRC. (Colton-FL). (Vaghjee).

MOCAMBIQUE: Radio Mozambique 6115 blue "Map" cd. in 45 ds.



XERMX.OC

VERIFICATION SIGNERS: Radio Africa 15185 Terry Kramer, Chief Engineer. **Radio Bangladesh**

7185 Serajul Islam Khan Saheb, Senior Engineer of the Research and Receiving Centre.

Radio Santa Cruz 6135 M. Yolanda Marco, Directora. Addr: Casilla 672, Santa Cruz.

Radiodifusora 6 de Agosto 3255 Francisco Evangelista De Abreu. **Radiodifusora Londrina**

4815 Walter Roberto Manganoti. **Radio Rural Santarem** 4765 Joao Elias B. Bentes. Addr:

Av. Sao Sebastiao 622-A, Santarem 68005-090. **Radiodifusora Roraima** 4875 Francisco

Geraldo Franca, Director Geral. Addr: Avenida Capitan E. Garcer 830, Sao Francisco,

69300 Boa Vista, Roraima. **Radio Cancao Nova** 4825 Claudia Santana...via PLAY DX...Sam.



Radio Britain
International



Estimado oyente:

Tenemos el gusto de confirmar su control

de nuestra emisión en 5010 kHz

de fecha 5 de Junio de 1996

hora 00:03 - 00:13 UTC

to agradecerle atentamente

Sonia Córdova

Arrotado 894

Calle Piedad Socorro 166 1E. Alcaz

San Juan 00999, San Juan, P.R. 00999

tel (809) 546 5411

S. CHRISTOPHER R. LOBBEL

P. O. BOX 146

Stoneham, Massachusetts

02180, USA

MOLDOVA: Radio Moscow 7125 via

Kishinev f/d cd. in 1 mo.

for 1 IRC. Also rcvd. personal

ltr. (Neal-TX).

MOLDOVA (Rep. of Pridnestrovye)

Radio Dniester International

6205 f/d ltr. w/ postcads. &

schedule in 180 ds. for 1

IRC. (Colton-FL).

OMAN: BBC Eastern Relay Station

15310 f/d ltr. in 41 ds. v/s

Chris Dolman. (Hosoya-JPN)

PAKISTAN: Radio Pakistan 9425

"Pakistani Women" cd. in 1

mo. (Vaghjee). 13590 cd. w/

ms. Muhammad Ismail, Senior

details on a piece of paper in 45 ds. v/s Broadcast Engineer. (Vaghjee).

PAPUA NEW GUINEA: Radio Madang 3260 very friendly ltr. in 37 ds. after a

f/up rpt. for ms. v/s Geo Gedabing, Provincial Programme Manager. (N

PERU: Radio Satellite 6725 f/d "Logo" cd. w/ personal (Martin-CA).

ltr. in 7 wks. for a SP rpt. and \$1.00. v/s Sabino Llamas Chavez.

(Maroti-NY). f/d cd. w/ 2 page ltr. in 6 wks. for a SP rpt. and ms.

Country #100! (Myers-VA).

RIO MUNI: Radio Africa 15185.7 f/d cd. w/ ltr. and schedule

in 3 wks. via the CA addr. for ms. (Maroti-CA).

RUSSIA: Voice of Russia 7240 f/d cd. w/ postcards,

schedule and a personal ltr. in 169 ds.

(Glockner-PA). 9595 f/d cd. w/ sked.

in 75 ds. (Vaghjee). **Voice of the**

Mediterranean 12060 f/d

"Auberge de Castille Bldg"

cd. w/ schedule in 18 ds.

after a f/up rpt. w/ \$1.00.

(Kusalik). 12065 and 9765 f/d

cd. in 2 wks. (Field-MI). (Vaghjee).

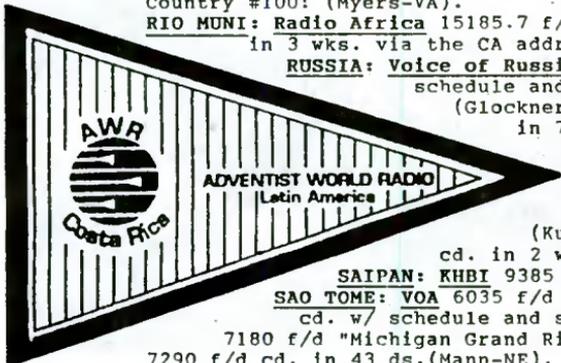
SAIPAN: KHBI 9385 f/d "Antenna" cd. in 150 ds.

SAO TOME: VOA 6035 f/d "Washington Mountain Range"

cd. w/ schedule and stickers in 35 ds. (Vaghjee).

7180 f/d "Michigan Grand River" cd. in 35 ds. (Vaghjee).

7290 f/d cd. in 43 ds. (Mann-NE).





Radio Miami International

8500 SW 8th Street, Suite 252
Miami, Florida 33144 USA

Telephone (305) 267-1728
Fax (305) 267-9253

WRMI CERTIFICADO QSL CERTIFICATE

This QSL certificate verifies that Henry Weissborn in Houston, TX-USA heard WRMI on May 11 '96 (UTC) at 0102-0200 UTC on 9955 kHz. Thank you for your report, and we hope you will stay tuned to WRMI.

Studio and transmitter location: Miami, Florida, USA

Transmitter power: 50,000 watts

Antenna: Corner reflector

Azimuth: 160 degrees

Primary Target: ITU zones 10-16 (Mexico, Central and South America and the Caribbean)

ica 7155 via Meyerton "African Village" cd. w/ newspaper and schedule in 38 ds. (Hosoya-JPN). same in 35 ds. for 1 IRC (returned). (Vaghjee). 9525 cd. in 55 ds. w/ schedule. (Vaghjee). BBC 6190 via Meyerton f/d personal ltr. in 1 mo. from the site. (Mann-NE).

SUMATERA: RRI Jambi 4925 f/d prepared cd. w/ very friendly ltr. in 23 ds. for an IN rpt. and ms (used). This after 2 f/up rpts. (Martin-CA). Sorry...the v/s is Buchari Muhammad. RRI Tanjung Karang 3395 f/d prepared cd. in 49 ds. for an IN rpt. and ms. (used). This after a f/up rpt. (Martin-CA). RRI Bengkulu 3264.8 f/d prepared cd. w/ station seal in 108 ds. for an IN rpt. and ms. v/s Drs. Jasran Abu Bakar. (Martin-CA)

NOTES: Denis Pasquale says QSLing has been slow but he did manage to get one from the Voice of Russia. At least it was something. Thanks for the stickers...Sam. Eric Falkenhan says he received a very nice personal letter from the VOA Sao Tome relay station. It came direct from the site even though I sent my report to DC. (It seems backward to me...Sam). The v/s is Charles L. Lewis (ham operator), Sao Tome Relay Station, P.O. Box 522, Sao Tome e Principe, West Africa...Thanks for the nice information...Sam.

SWITZERLAND: United Nations Radio 10461 f/d UN cd. for * a special broadcast to UN Balkan troops by a low powered transmitter in Geneva. This was in 114 ds.

SYRIA: Syrian Broadcasting and Television Service 12085 "Globe" cd. in 4 mo. for 2 IRCs. (Mohrmann) (Kusalik).

TAIWAN: Voice of Free China 11745 "Dragon Dance" cd. in 44 ds. for a JP rpt. Sticker rcvd. (Hosoya).

THAILAND: Radio Thailand 7210 "Queen Sirikit" cd. in 50 ds. (Vaghjee). 9885 "Thai Doll in Dance Costume" cd. in 55 ds. (Vaghjee). 15370 f/d cd. in 6 wks. v/s Amporn Samosorn. (Maroti-NY).

TURKEY: Voice of Turkey 9445 f/d cd. w/ sked. and sticker in 35 ds. (Vaghjee).

USA: WWCRA 9400 f/d cd. in 24 ds. after a f/up rpt. for their 1st day of operation. (Kusalik). WENN 15665 f/d "Antenna" cd. w/ ltr., sticker and newsltr. (Vaghjee). WSHB 17510 f/d cd. in 150 ds. (Vaghjee). VOA Greenville 15335 f/d cd. in 35 ds. (Vaghjee).

SEYCHELLES: FEBA Radio

15445 "Control Room" cd. in 58 ds. for 1 IRC. (Vaghjee). BBC 9630 f/d personal ltr. in 26 ds. for 1 IRC. (Neal-TX).

SLOVAKIA: Radio Slovakia International

7300 f/d "Map" cd. in 25 ds. for 1 IRC. (Neal-TX). Adventist World Radio f/d cd. in 35 ds. w/ newsltr. v/s E. Gysin. (Ziolkowski) 7215 via Rimavska Sobota "25th Anniversary" cd. in 145 ds. (McCarthy-GA).

SOLOMON ISLANDS: SIBC 5020 f/d "Logo" cd. w/ sked. and form ltr. in 1 mo. for \$1.00. (Maroti-NY).

SOUTH AFRICA: Channel Afr-





WRMI

Radio Miami International

Radio Telefis Eireann 5065 via **WOCR3** p/d "Doors of Dublin" cd. in 77 ds. for 1 IRC. v/s Wesley Boyd. (Weissborn). **Radio Miami International** 9955 f/d "Certificado de QSL Certificate" in 186 ds. for SASE. Also

VERIFICATION SIGNERS: **Radio Miskut** 5770 Evaristo Mercado Perez, Director. **Radio East Sepik** 3335 Elias Albert, Assistant Provincial Program Manager. **Radio Maranon** 4835 Luis Tavera, Director. **Radio Victoria** 6018.3 Marta Flores Ushinahua, Secretary. **Estacion Radial Luz y Sonido** 6473 Orlando Bravo Jesus, Director. **Radio Amazonas** 4940 Luis Jairo, Director...via Play DX....Sam.

rcvd. sticker, schedule and tourist info. (Weissborn).

USA (Pirates): Friday Radio 6954 f/d "Friday Or Bust" sheet in 130 ds. (Stephens-AL). same in 127 ds. for \$1.00. (McCarthy-GA). 6955 f/d sheet in 1 mo. (Lobdell). **KCHZ-SW** 6955 f/d orange sheet in 3 wks. for 3 ms. (Lobdell-MA). **KAT** 6950 f/d sheet in 61 ds. for \$1.00. (McCarthy). 6949 f/d sheet w/ many enclosures and a tape of the broadcast in 62 ds. for 3 ms. (Glockner-PA). **Radio Azteca** 6950 f/d cd w/ frog seal in 25 ds. for \$1.00. (Pasquale-PA). 6955 cd. w/ metallic frog attached in 28 ds. for \$1.00. (McCarthy-GA). same in 3 wks. (Field-MI). **Radio Fusion Radio** 6955 f/d sheet in 2 wks. for 3 ms. and address label(used). (Dybka-TN). same in 2 wks. (Field-MI). **Bullfrog Radio** 6955 f/d sheet in 2 mo. for 3 ms. (Dybka-TN). **WSM** 6955 f/d sheet in 25 ds. for \$1.00 via Huntsville addr. (Pasquale-PA). **WTNT** 6955 f/d color bundle of dynamite sheet in 29 ds. (Stephens). **Tellus Radio** 6955 f/d sheet of "Skull and Crossbones" in 9 ds. (Stephens-AL). **Radio Euroqeeq** 11092 f/d sheet in 25 ds. for \$1.00. (McCarthy). **Radio CSA** 6955 f/d "Rambo"

Dear Mr. Mahendra Vaghjee
Beau Bassin, MAURITIUS
Many thanks for your reception report for ...
at 1805-1818 utc h. GMT on 7670 Khz, 39.11 m. It has been checked and found correct.

Sofia, 24.09 1995

07.09 1996

HORIZONT- RADIO ~~XXXX~~ BULGARIA

The present QSL - card is the reports of reception in a period of number in the series. The last QSL - card will be completed by the Frequency Manager: Ivo Ivanov/

in a series of weeks will enable you to the next will be completed by the Frequency Manager: Ivo Ivanov/

... (This block contains the continuation of the text from the previous block, which is partially obscured by the stamp below)



Q 8 L
 Certificado de Biontónia
 ESPERANZA, CE-609, Onda corta (SW) Banda de 49 m. en 8.090 KHz. de la de Temuco, en la República de Chile, certifica que
 C. HENRY ZABALA...
 INTONIZADO NUESTRA EMISORA, Radio Esperanza, el día 07 Jun. 1992...
 (Hora UTC) 04.31.00.14 (Hora de Chile) y que su...
 ma de Biontónia es correcto y se ajusta a lo transmitido el día...
 DIO ESPERANZA, de Temuco, Chile, le agradece su...
 uda frate malmente en Cristo.
 Eleazar H. Jara
 Firma y Sello Oficial



sheet in 28 ds. (Kusalik). **WGLR** 6955 f/d sheet in 47 ds. (Kusalik). **Radio XANAX** 6955 f/d cd. in 17 ds. (Kusalik). **Radio One** 6950 f/d "Map of the World" cd. w/ studio photo in 31 ds. (Stephens). **Radio Two** 6955 f/d cd. in 44 ds. (Stephens). **Radio KAOS** 6955 f/d "QSL Certificate" in 3 wks. v/s Joe Mama (i only put these in if they are funny and unique... Sam). (Field-MI). same in 5 wks. for \$1.00. (Lobdell-MA). f/d ltr. in 20

ds. v/s Roger Wilco. (Stephens). **Mystery Floyd** cd. in 3 mo. for a rpt. to ACE. (Stephens). f/d "Pink **Radio** 6955 f/d cartoon sheet w/ bikini clad babe in 20 ds. v/s E. Norman and a personal note in 11 ds. (Stephens). **Big Johnson** 6955 f/d blue "Foot w/ Face" cd. **WRWN World Republican Radio Network** 6955 f/d "Dole and Kemp" sheet w/ newsltr. & personal note in 47 ds. (Stephens-AL).

AWR
 20th ANNIVERSARY



NOTES: **Charlie Cabaran** says he listened to both broad casts from RTE Ireland and hopes they establish a permanent schedule to the Americas. **Jennifer Griffin** took a Spanish course this past summer and is now taking a course in Swedish! I wish I was as daring.. Sam

EMISORAS ESPERANZA

"POR TODA LA TIERRA
 BAJO SU VOZ
 Y HASTA EL EXTREMO DEL MUNDO
 SUS PALABRAS"
 (SALMO 18:4)

via Weissborn



XO0-4 FM. STEREO - 106.8 MHz.
 CE-609 - ONDA CORTA - 8.090 MHz.
 BANDA 49 M.
 FONO FAX: (56 43) 240161
 CASILLA 830

TEMUCO - CHILE

Radio Sparks 6955 via **WERC** f/d "Leprechaun" sheet in 15 ds. for \$1.00. (Kusalik). **CSHT** 6955 f/d sheet for a rpt. in ACE. (Kusalik). **WPRS** 6955 f/d ltr. w/ station info. in 28 ds. (Kusalik). **K-2000** 7415 f/d multi-colored "Logo" cd. in 79 ds. after 2 f/up rpt. (Stephens). **Up Your Radio** 6955 f/d cd. in 1 mo. (Field-MI). **WRV Radio Virus** 6955 f/d cd. in 1 mo. (Field-MI)....More pirate QSLs next month. **UZBEK: Radio Tashkent** 15295 "Map" cd. in 150 ds. (Vaghjee) **WEST IRIAN: RRI Sorong** 4875 p/d ltr. in 44 ds. after a f/up rpt. in In for ms(used). v/s Drs. Sallomo Hamid. **ZAMBIA: Radio Christian Voice** 6065 p/d (Martin-CA). form ltr. in 146 ds. for ms. v/s Miss L. Nanyangwe. (Mann-NE). 3330 same in 75 ds. v/s B. Phiri. (Kusalik). p/d ltr. in 11 wks. for \$1.00. (Myers-VA).

Hosoya Masao 氏

貴方の受信報告書を確かに受け取りました。今後とも關心をもたれ、KBS 定款として毎日の友好親善にご尽力下さいませようお願い申し上げます。

周波数: 7275 KHz
 受信時間: 21:00-2300
 受信日時: 1969/12

KBS Radio Korea International

Best of DXing to everyone in the New Year!!!



It's been another wonderful year editing the QSL Column. Keep your reports flowing.
 Sam

Contributors' Page

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LOGGINGS CONTRIBUTORS-NEXT DEADLINE IS THE 10TH OF THE MONTH

The following members contributed loggings:

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Gabriel Ivan BARRERA, Buenos Aires, ARG
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Erik BUENEMAN, Hazelwood, MO
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Ralph FAMULARO, Hyugo-ken, JAPAN
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John FISHER, Calgary, ALBERTA
Bob FRASER, Cohasset, MA
Bill FLYNN, Cave Junction, OR
Peter HAISHUN, Hurst, TX
Bob HILL, Holliston, MA
Hans JOHNSON, Englewood, CO
Ben KREPP, Chamberlain, ME
Harold LEVISON, Philadelphia, PA
John LYON, White Bear Lake, MN
Steve C. MARTIN, CA
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Kevin MURRAY, Holliston, MA
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Henry WEISSBORN, Houston, TX
Dan ZIOLKOWSKI, South Buffalo, NY

AOR AR-7030 100' LW
NRD-525 32m dipole
R8 165' LW
ATS-803A homebrew antenna
Sony ICF-2001D 20m LW MFJ-16010
R8 HF150 AD-DX/SWL Sloper 100' LW
ICF-SW55 ATS-803A R5000 LW

R71-A beverages
Sony ICF-2003 ICF-SW100S 2m LW
R8 DX-Ultra inverted V
ICF-2010 indoor LW
Sony 2010/whip 120' dipole RW Loop
R8 2-500' LW's
R8-A 2010 60m dipole 500' beverage
R8 R70 YB400

DX-380
NRD-535D V beam @ 180 degrees
Sony 2010. various beverages
R8 AOR 7030 Beverage and loop antennas
Grundig YB-400
WJ-1000 R8 60'Sloper 20' loop
R8 indoor dipole
DX-440 10m LW
R8 NRD-525 60' LW Eavesdropper
NRD-535D FRG-7 Eavesdropper RW Loop
R-2000 Sony 2010 & 2002 AD Sloper AN-1
R390A R8A R1051H SP-600 51S-1 LW's
Sony 2010 Indoor antenna

NRD-525 AD Sloper

Lowe Europa 225 100' LW
Grundig YB500
R8 Sloper SPS NRF-7 SEM QRM Eliminator

Happy New Year!



Tropical Band Loggings

Sheryl Paszkiewicz

P.O. Box 152

Manitowoc, WI 54221-0152

2020.5h UNID 11/5 1032 LA ballads, TC, ID Radio Mar? (Mohr-VT)
 2360hp CUBA R Rebelde 11/19 1037 SP pgm //5025 (Mohr-VT)
 2460h USA WANO 10/28 1047 Cellular 1 ad, ID 2x1230 (Mohr-VT) 11/29
 0800 wx, ID, pops (Alex-PA)
 2910h USA WZAN 11/1 1118 EG ID, Goodyear ad, wx 3x970 (Mohr-VT)
 2920h COLOMBIA HJVVH 10/9 0905 ID, RCN jingle 2x1460 (Mohr-VT)
 3120h USA WQEW 10/18 1037 nx, ID 2x1560 (Mohr-VT)
 3140h DOM REP 12/8 1040 R Amanacer rel tkl //6025 (Moor-IA)
 3222.9p SUNDAS RRI Mataram 11/21 1324 IN pops, tkl, IDs (John-CO)
 3223 INDIA AIR Simla 11/11 *0043 IS, ID, strings, nx (Fish-NF)
 3231.9 SUMATRA RRI Bukittinggi 11/10 2307 nx, NA, pops (Fish-NF)
 3249.9 HONDURAS R Luz y Vida 11/17 0252 EG rel, tlks (Ziol-NY)
 3255 LESOTHO BBC 11/3 0315 nx, sports (Newb-NE)
 3260t CHINA Guizhou PBS 12/7 1438 CH tlks, no EG lesson (John-CO)
 3260 NEW GUINEA R Madang 11/10 1054 Pidgin hymn, ID, flute (Famu-JP)
 3270 NAMIBIA NBC 11/20 0404 EG tkl, //3290 (Newb-NE)
 3275 PAPUA R South Highlands 12/1 1030 Pidgin C&W, tkl abt
 marijuana (Famu-JP)
 3290t GUYANA GBC 11/10 0900 weal audio (Fish-NF)
 3295U UNID 11/27 2033 orch mx, sports? Belarus? (Hill-MA)
 3306 ZIMBABWE ZBC 11/3 0315 non-stop hilife in lang (Lyon-MN) 11/13
 0320 Afr mx, EG promos (Newb-NE)
 3315 ADMIRALTY ISL 11/29 1150 long tkl, bird call, NA (Lyon-MN)
 3315 INDIA AIR Bhopal 11/13 *0023 IS, anthem, s/on anmt, SC mx, ID
 TP, Hindi nx //4860 (Fish-NF)
 3316 SIERRA LEONE SLBS 11/19 0635 BBC Radio Drama (Lyon-MN)
 3324.8 GUATEMALA R Maya 11/23 1150 tkl, mx, ID (Ziol-NY)
 3330 ZAMBIA Christian Vo 11/6 1445 mx, rel tkl, ID, nx (Vagh-MAUR)
 12/6 2200* EG rel, over CHU (Moor-IA) 11/21 0300 EG rel, ID
 faded (Flynn-OR)
 3335 TAIWAN BCC 11/16 1305 CH nx (Pitt-MN)
 3365t NEW GUINEA R Milne Bay 11/1 1057 EG chorus, nx, ID (Mohr-VT)
 3375 BRAZIL R Educadora 10/26 0953 anmts, ads, mx, IDs (Mohr-VT)
 3375 CHINA CNR 11/18 1330 tkl, march mx (Pitt-MN)
 3380 GUATEMALA R Chortis 12/7 1130 ID w/calls, greetings (Moor-IA)
 3385 BRAZIL R Educ Rural 12/3 1007 ment Jornal Brasil, IDs (Mohr-VT)
 3607.5U JAPAN NHK Tokyo 12/6 1256 JP tkl, TP (John-CO)
 3970 FRANCE? RFI 12/12 0437 FR nx, sfx //4890 (Pasz-WI)
 3970 S KOREA R Korea 10/30 2046 FR pgm (Vagh-MAUR)
 3985 FRANCE? RFI in GG 10/30 2035 (Vagh-MAUR)
 3985 ITALY IRRS 12/1 0700 EG ID, phone no, UN pgm (Alex-PA)
 3985 ITALY SW R Switzerland via IRRS 11/9 2300 after SRI s/off.
 anmts, addr in Basel, 10 kW (Berg-MA)
 3985 ITALY Sunshine Radio over IRRS ID, addr, rock mx (Berg-MA)
 3995 GERMANY DW GG pgm 10/30 2044 (Vagh-MAUR)
 4070 CLAND Vo Iraqi Kurdistan 11/13 0345 martial mx, Call to Prayer
 mx, anmts, nx, seemed diff than 4097 (Fish-NF) 11/9 0350
 Koran, ME mx (Alex-PA)
 4090.4 CLAND Vo People of Kurdistan? 11/8 0344 martial mx, tkl (Alex)
 4097.5 UNID 11/14 0349 ME martial mx, anmt, Call to Prayer, ID, Mid-
 night in Moscow march, ID, nx, mx (Fish-NF)
 4200hp CUBA R Rebelde 11/13 1040 //5025 (Mohr-VT)
 4202 UNID 11/14 0344 lang tkl, mx bridge, ment Iran & Kurdistan
 jammed 0348 (Fish-NF)
 4260hp CUBA R Rebelde 11/13 1040 //5025 (Mohr-VT)
 4461 PERU R Norandina 11/10 0416* flute, ballads, NA (Alex-PA)
 4526.6t BOLIVIA R Hitachi 12/5 1049 mx, W tkl, poor (Fiel-MI)
 4552.3 BOLIVIA Rdf Tropico 12/7 2316 msgs, tlks (Barr-ARG)
 4600t BOLIVIA Perla del Acre 10/9 0942 anmts, mx, TCs (Mohr-VT)

4632.5 BOLIVIA R 11 octubre 12/7 0953 rel chorus, weak (Moor-IA)
11/23 0905 rel pgm ID (Mohr-VT) 11/23 0925 tlk, mx (Alex)

4635 TAJIKISTAN TR 11/13 *0101 NA, IDs, anmt, mx (Fish-NF)

4649 BOLIVIA R Santa Ana 11/19 0325* ballads, Macarena, TC, ID (Mohr)

4682.5p BOLIVIA R Paititi 12/7 1013 mx, M tlk, poor (Fiel-MI)

4719.8 BOLIVIA R Abaroa 12/7 2337 msg, folk mx (Barr-ARG)

4725 MYANMAR VoM 12/3 1428 lang tlks, ute QRM (Flyn-OR)

4740 TAJIKISTAN VoRussia 12/3 1330 nx, ID, song (Famu-JP)

4746.8 PERU R Huanta 2000 11/25 1029 ID, anmts (Mohr-VT)

4753p SULAWESI RRI U-P 11/29 2145 tlk, mx (Ziol-NY) 11/4 2207
nx, NA, ID (Pitt-MN) 11/3 1303 IN nx (Newb-NE)

4760 ANDAMAN ISL 11/10 *2324 IS, YL singing (Fish-NF)

4760 SWAZILAND TWR 11/1 0320 Afr tlk, gospel mx, IS (Newb-NE)

4760 INDIA AIR 11/2 1118 tlk, SC mx, Pt. Blair or Leh? (Mohr-VT)

4770 ECUADOR Centinela del Sur 11/19 1100 ID, ballads (Robi-TN)

4770 NIGERIA R Nigeria 11/23 0600 TP, TC, ID, fair (Riga-IL) 11/1
0533 EG public outcry tlk (Newb-NE)

4775 PERU R Tarma 11/11 1032 EG ID, SP Andean mx (Mohr-VT)

4775 UNID 12/1 1212 Pacific Isl mx, one EG word, not India (Mohr-VT)

4777 GABON RTV 11/30 2259* FR hilife, anmts, fair (D'Ang-PA)

4777.7 BOLIVIA R Andes 11/11 *0934 instl, anmts (Berg-MA) 10/19 0927
Andean mx, ID (Mohr-VT) 12/7 0935 Andean folk mx, ID, drama
(Moor-IA) 11/23 0934 CP mx, flutes, ID (Alex-PA)

4780t ECUADOR R Oriental 11/2 1107 Mx, tlk, ment Monterey (Buen-MO)

4785 MALI RTVM 11/24 0803* FR tlk, Afr folk mx //5995 (Alex-PA)

4790t INDIA AIR Itanagar 12/7 1430 EG thru "hour" of 1430 (John-CO)

4790p PAKISTAN Azad Kashmir R 11/10 0148 Call to Prayer (Fish-NF)

4805 BRAZIL Rdf Amazonas 11/15 0055 mx, ID s/off (Ziol-NY)

4815 BRAZIL Rdf Londrina 12/7 0156* ID, anmts, mx, rel (Moor-IA)

4815 BURKINA FASO RTV 11/19 0650 FR Afr pops, ads, ID (Lyon-MN)
11/24 1935 mx, FR, weak (Fiel-MI)

4820 BOTSWANA RB 12/7 2200* lang tlk, Roberta Flack, pops (D'Ang)

4820 HONDURAS HRVC 12/11 0530 Encuentro con la palabra pgm (Weis-TX)
11/1 0148 SP preaching (Newb-NE)

4820p INDIA AIR Calcutta 11/24 0024 IS but not much else (John-CO)

4824.4 PERU LV de la Selva 10/26 1014 anmts, pop mx, ID (Mohr-VT)

4830 THAILAND RT 12/7 1418 EG tourism pgm (John-CO)

4831.9 COSTA RICA R Reloj 11/18 0330 musica romantica, drama (Flyn)

4835 GUATEMALA R Tezulutlan 11/2 1125 SP, plane sfx (Buen-MO)
11/1 0150 marimba, Indian lang tlk, promos (Newb-NE)

4840 INDIA AIR Bombay 11/13 *0014 IS, anthem, s/on anmts (Fish-NF)

4840 MANCHURIA Heilongjiang PBS 11/30 1245 CH tlks, vcls (Lyon-MN)

4845 GUATEMALA R Kekchi 11/9 1120 NA, mx, ID, tlk (Ziol-NY) 11/10
0157* Indian tlk, rel, marimbas, ID (Alex-PA)

4850 INDIA AIR Kohima 11/12 *2358 IS, NA, SC mx (Fish-NF) 12/7
1427 Kenny Rogers, EG nx, lcl ID (John-CO)

4850 UZBEKISTAN UR 11/11 *2350 OC, tones, IS, ID, anmts, nx? (Fish)

4850 UNID 11/30 2100 FR Afr stn, hilife, pops, tlk, Cameroon? but
non-Cameroon like phone audio (Berg-MA)

4855 MOZAMBIQUE RM 10/31 1655 PT pgm (Vagh-MAUR)

4860 AS RUSSIA Chita? 12/7 2358 non-RS tlk, TP, RS tlk (John-CO)

4865 UNID 12/6 1105 mx by same artist, fade 1122 (Fiel-MI)

4870 BENIN ORTB 11/2 2255 FR hilife, excited ID (Lyon-MN) 11/23
0558 NA, ID, fair (Riga-IL) Hi Chris!-ss 11/24 2205
Christian mx, FR s/off B4 2300 (Fiel-MI) 11/20 0520 FR nx(Newb)

4870 ECUADOR LV del Upano 11/21 0133* tlk, ID, addr (Alex-PA)

4875 GEORGIA R 11/13 0202 GG nx //5040 and 1044, ID (Fish-NF)

4875 SITE? VOA 12/1 1300 EG VOA Europe ID, nx, Top 20, too early
for Africans here, CIS testing? (Famu-JP)

4880 BANGLADESH RB 11/11 0001 Koran, tlk, poor (Fish-NF)

4880 INDIA AIR Lucknow 11/13 *0023 IS, poor (Fish-NF) 11/13 1316
lang tlk, mx, interview, flute, ID (Pitt-MN)

4885 BRAZIL R Clube 12/7 0054 pops, IDs, ads, TCs (Moor-IA)

4886.5 PERU R Villa Rica 10/14 1001 Andean mx, IDs, TC (Mohr-VT)

4890 PAPUA NBC 11/16 1145 EG Amer pops, ID, NA to close (Lyon-MN)
11/4 1150 pop mx, EG ID, NA 1202* (Newb-NE)

4895 BRAZIL R Bare 11/7 0947 PT ment Manaus, FC, dance mx (Buen-MO)
10/16 0858 ID, vcls (Mohr-VT)

4904.5 CHAD RNT 11/4 2201* FR drums, ID, anmts, NA (Pitt-MN) 11/9
0510 FR tlk show, phone ins, steel drums, mx (Newb-NE)

4905 CHINA CNR 11/21 2225 tlk, flute, EG lessons (Pitt-MN)

4910 ZAMBIA ZNBC 12/7 0305 Afr mx, tlk (Moor-IA) 11/24 *0257 NA

no IS, anmts, ID, Afr pops (Alex-PA) 11/4 2204* NA (Pitt-MN)
 11/2 0255 NA, EG anmts, chorus (Newb-NE)

4914.5 PERU R Cora 11/1 1035 SP nx (Newb-NE)

4915 GHANA GBC 11/1 2215 Afr chanting (Newb-NE)

4919 ECUADOR R Quito 1130 ID, nx, mx (Robi-TN) 11/1 0156 folk mx,
 canned IDs, promos (Newb-NE)

4920 RUSSIA? VoRussia 12/3 2010 Moscow Mailbag (Famu-JP)

4930 HONDURAS R Int'l 11/9 1120 tlk by 2M, IDs (Lyon-MN)

4930 SITE? R Mayak 11/27 1913 RS tlk, oldies, IS (Hill-MA)

4935 BRAZIL R Capixaba 10/23 0402 tlk, ID (Mohr-VT)

4935 KENYA KBC 11/13 2007 US pops, EG tlk, NA 2109* (Ripp-VA) 12/8
 2108* EG vcls, ID, nx summary, NA (D'Ang-PA)

4935p PERU R Tropical 11/11 1036 laughing, tlk, TC, ment Tarapoto
 (Mohr-VT)

4939.3 UNID R Norte de Montero 12/7 2226 ID, rel pgm (Barr-ARG)

4940p INDIA AIR Guwahati 11/24 0014 IS, tlk, NA (John-CO)

4940 VENEZUELA R Amazonas 11/29 0945 mx, IDs (Fiel-MI) 12/4
 *0901 anthem, ID, anmts, mx (D'Ang-PA)

4949.8 ECUADOR R Bahai 11/11 0915 weak w/full ID (Berg-MA)

4950 KASHMIR AIR Srinagar 11/12 *0119 IS, NA, SC mx, nx (Fish-NF)

4959.6 VIETNAM HS 12/7 1425 EG lessons, CH lesson (John-CO)

4960 ECUADOR R Federacion 11/9 0056* pops, SP rap, NA (Alex-PA)

4960 MADAGASCAR RM 10/11 1130 pops, tlk, ad (Vagh-MAUR)

4960 SITE? VOA 12/17 0300 Daybreak Africa, 4750 not on (Pasz-WI)

4965 BOLIVIA R Juan 23 11/21 2300 dance mx, flute/drum to 0030*
 s/of w/o NA, some IDs (John-CO)

4965.8 PERU R San Miguel 11/17 1010 ID, mx (Mohr-VT) 12/8 0046
 tlk abt quackery in Cusco, folk mx (Barr-ARG)

4969.9t SABAH RTM Kota Kinabalu 11/21 2135 numbers & anmts, tlk, weak
 & choppy like other Malaysians (Hill-MA)

4980 VENEZUELA Ecos del Torbes 11/1 0243 SP pop, tlk (Newb-NE)

4990 CHINA Hunan PBS 11/25 1410 CH monologue (Flynn-OR)

4990.9 PERU 11/5 0920 Andean mx, ID (Mohr-VT)

4990.9 SURINAM R Apintie 11/6 1040 tlk, pop mx, ads, ID (Lyon-MN)
 11/12 0850 chorus, poss rel pgm //820 (Fish-NF) 11/30
 0406* DT anmts, jazz, NA (Alex-PA)

5000 HAWAII WVVH 11/2 0525 TC by W (Newb-NE)

5003.6 RIO MUNI RN 11/30 2202* SP instls, NA (D'Ang-PA) 11/22 2159*
 hilife, NA (Alex-PA) 10/29 2026 mx, SP tlk, QRM to WWV (Vagh)
 11/9 0525 SP tlk, mx (Newb-NE)

5005 NEPAL R Nepal 11/11 *0011 IS, anmt, singing (Fish-NF)

5009.5 MADAGASCAR RM 11/27 1858 mx, tlk (Hill-MA) 12/17 0301 IS,
 chor NA, ID, sfx, drums, best ever (Pasz-WI)

5010 INDIA AIR Thiru. 11/11 *0018 ID, SC mx, nx (Fish-NF) 11/13
 0018 IS, mx, tlk (Berg-MA)

5010.3 ECUADOR Esc Radiofon 10/11 0917 ID, Andean mx, ads (Mohr-VT)

5015 TURKMENISTAN TR 11/11 0117 Asian strings, Orbita pgm (Fish-NF)

5015.6 PERU R Juliaca 11/20 2351 ads, ID, flutes (John-CO)

5021.3 NIGER LV du Sahel 11/30 2205 Afr pops (Ziol-NY) 11/21 2201*
 FR drum mx, anmts, prayer, flute, NA (Pitt-MN)

5025 BENIN R Parakou 11/30 2301* FR pops, ballads, NA (Alex-PA)

5025 CUBA R Rebelde 11/19 0323 sports, questions abt provinces (Flynn)
 11/19 1200 nx abt Castro in Rome (Robi-TN)

5030 COSTA RICA AWR 12/1 1238 prayer for victims of Oklahoma bombing
 anti-violence tlk (Famu-JP)

5030 SARAWAK R Malaysia 11/10 1233 tlk in lang, Koran (Famu-JP)

5034 CENT AFR REP 11/16 2055 mx, FR tlk, NA (Ziol-NY)

5040 ECUADOR LV del Upano 11/15 2334* rel mx, ID, echo (Alex-PA)

5040t GEORGIA GR 10/29 1945 class mx, tlk, piano (Vagh-MAUR)

5040t SUMATRA RRI Pekanbaru 11/30 1704* IN vcls, SCI, nx (Flynn-OR)

5040 UNID 11/23 0230 SP ballads, tlk, Yopal? (Alex-PA)

5044.9 BRAZIL R Cult do Para 11/21 1000 ID, poor (Ziol-NY)

5047 TOGO R Lome 11/20 0515 FR nx (Newb-NE)

5050.4 ECUADOR R Jesus 11/8 0220 anmts, ID, ads, jingles (Alex-PA)

5070 IRELAND? RT Radio 1 11/30 1116 EG ID, nx (Newb-NE)

5076.8 COLOMBIA Caracol 11/1 0140 SP tlks (Newb-NE)

5085 USA WGTG 11/18 0325 rel pgm w/800 numbers (Buen-MO) 10/9
 0834 testing, IDs (Mohr-VT) 11/10 0450 EG North of 49 (Flynn)

5090 CHINA CNR 11/21 0950 CH tlks, strong & fluttery (Ziol-NY)
 11/21 2235 tlk, nx //5125 (Pitt-MN)

5100 LIBERIA R Liberia 11/15 2254 Afr chorus, ID, panel discuss,
 also 0533 devotion, anmt, ment Cuckoo's Nest Bar Restaurant

(Fish-NF) 11/21 2250 EG Afr mx, pol speech, ID (Pitt-MN)
 5119.7h COSTA RICA R Alajuela 11/14 1104 rancheras, TC, Happy Birthday
 song, IDs 4x1280 (Berg-MA)
 5125.1 CHINA CNR 11/16 1145 CH tlk, mx, TP 1200 (Ziol-NY)
 5235.2 PERU R Apurimac 12/7 2257 folk mx, ID, ads (Barr-ARG)
 5290p AS RUSSIA Krasnoyarsk R 11/11 1134 RS? tlk (Mohr-VT) 11/12
 2155 tones, OC, TP, tlk (Ziol-NY)
 5320 CHINA CNR 11/12 0950 CH tlk, mx, TP (Ziol-NY)
 5385.3 PERU R Huarmaca 11/21 0045 ID, mx, echo anmts, tnx PFA (John)
 5407.2 CLAND Vo Prov Govt 12/7 2339 Cambodian tlk (John-CO)
 5500 CLAND Vo Tigray Rev 11/13 *0325 IS //7515 & 4999.8 echo anmt
 tlk (Fish-NF)
 5504.2t BOLIVIA R 2 de Febrero 11/26 2358 horn mx, anmts, accordion,
 no echo or sfx (John-CO)
 5522.6p PERU R Sudamerica 12/1 1050 SP pgm, mx, echo anmts (Mohr-VT)
 5619.2 PERU R Ilucan 10/26 1032 Cutervo Canta y Baila pgm, IDs (Mohr)
 5645.9 PERU LV de San Antonio 11/15 0131 Andean mx, ID (Mohr-VT)
 11/29 0407* OA mx, anmts, echo, ads (Alex-PA)
 5700h N KOREA KCBS 11/12 1226 lite piano, fair 2x2850 (Famu-JP)
 5700 PERU R Santiago 11/21 0040 on later than thot (John-CO)
 5700 PERU Frec San Ignacio tent 11/23 0050 poor w/mx pgm (Fiel-MI)
 12/8 0233 cumbias, IDs, FC, mx (Barr-ARG)
 5770 NICARAGUA R Miskut 11/9 2335* pops/ballads, ID, NA (Alex-PA)
 5850 CHINA CRI 11/24 1150 CH vcls, weak & fluttery (Ziol-NY)

Eric, thanks for the Christmas card. Hope 1997 is full of great DX!
 This month reporters from 16 states, 1 province & 3 countries! Thanks
 to all who contribute. Next deadline January 17.

Your editor just bought a Select-a-Tenna MW antenna as advertised in
 some radio magazines. This is the first time I have used any type of
 loop. It works really good compared to a stationary antenna. A
 couple days after it arrived, Ken MacHarg featured KJNP on DX Party
 Line. They are located in North Pole, AK, and they said they sell
 many of these to help listeners hear KJNP better!

The Bucks are doing all right this year. I saw them play Charlotte
 11/30. They lost but still a good game. I've got two more games
 coming up in the new year, Philadelphia and New York.

There have been some great African openings in the evenings. Here's
 one tip--if the 9 and 11 MHz bands are pretty dead, check the lower
 frequencies in the tropical bands.

VOYAGEUR v1.1 for DOS

The newest database suite from Orchid City Software has just been completed. It is the Voyageur version 1.1 Radio Database for DOS. The Voyageur v1.1 is a comprehensive suite of database programs for Broadcast Radio Station's information geared towards the Radio DXer and Listener. The program includes RADIO STATION DATAFILE - UTILITY LOG WRITING - RADIO STATION ADDRESSES - RADIO STATION SLOGANS - RADIO STATION DX/SWL PROGRAMS. Each of the database programs in the suite is easy to use with extensive sorting plans. The Voyageur v1.1 is completely read/write and can be updated, changed or data added. Each database contains thousands of records already. To receive your copy send \$29.95 to

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International Band Loggings

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

- 5905 HUNGARY R Budapest in EG 0225, short wave DX pprogram, ID (Pasziewicz WI 11/14)
 5905 NORWAY R Norway Int in EG 2315, feature on winter weather, f (Fraser MA 11/10)
 5910nf GERMANY West Coast R Ireland relay in EG 0130, ID, read recep rpts, Irish mx (Field MI 11/21)
 59246 VIETNAM VoV Hanoi in lang 1143, tk, ballads, ID7, NA, p, //10060 (Mohrmann VT 11/23)
 5960 CANADA R Japan relay in EG 0300, ID, world & natl nx, elections in Japan (McGuire MD 11/18)
 5970 BRAZIL R Itatiaia in PT 0812, lite pops, ads, TC, wiped out 0326 w/ Netherland s/on (Moore 12/8)
 5975 ANTIGUA BBCrely in EG 0105, report on Chernobyl nuclear plant, ID (McGuire MD 12/1)
 6010 MEXICO R Mil in SP 1025, ID, Mexican mx, TC's (Rigas IL 11/17, Weissborn TX 11/12)
 6035 COLOMBIA LV Guaviare in SP 1023, live coverage of local festival, R Marti QRM (Moore 12/7)
 6040 CANADA RCI in SP 0030, world nx, tk of shutting down RCI 3/31/97 (Weissborn TX 12/11)
 6040 BRAZIL R Clube Paranaense in PT 0830, Xmas message, TC, ID, ads, jingle, pops (Moore 12/8)
 6045 GERMANY R Nederlands relay in EG 1319, "Research File", s/off anmt 1325 (Famularo JAPAN)
 6055 JAPAN R Tampa Tokyo in JP 1020, drama, instrml mx, tk/laughter (Vaghjee MAURITIUS 11/1) in JP 1235, saxophone mx, jazz, tk between songs, TC, ID "Tampa", nx (Ziolkowski 11/17)
 6095 VATICAN STATE Vatican R in IT/EG 0249, tk on Hong Kong development (Newbury NE 11/1)
 6110 CANADA R Japan relay in EG 0500, feature "This Week", many subjects (Weissborn TX 12/7)
 6135 BOLIVIA R Santa Cruz in SP 0910, Andean mx, nx, L AM mx, ID (Newbury NE, Lyon MN 11/13)
 6140nf7 SPAIN REE in SP 2029, OM anncing Barcelona vs Real Madrid soccer match, f (Famularo JAPAN)
 6155 AUSTRIA RAI Vienna in EG 2251, tk on airport security services, ID, QTH (Newbury NE 11/4)
 6160 ANTIGUA D Welle relay in EG 0936, tk on agriculture, fqys, ID, off 0950 (Bueneman MO 11/20)
 6160 CANADA CKZN St Johns in EG 0955, NA, lite vcl mx, ID, relay MW CFCB (Bueneman 11/20)
 6265nf7 ZAMBIA ZNBC in lang 0402, nx7, fish eagle IS, ID, many ments Zambia, drums (Berg MA 11/11)
 6480nf7 PERU R Altura Huarmaca in SP 2345 to as late as 0500, s/off at different times, ID's, mx sels, TC's signal slowly improves as nite progresses (Field MI) ED: Probably moved from 7143.
 6550 LEBANON VO Lebanon Beirut in AR 2019, pop mx, ads, Macarena mx, g (Fisher NF 11/10)
 6570 MYANMAR Def Forces BC in lang 1227, pleasant SEA vcls, f, f/o 1245 (Murray MA 11/30)
 7110 ETHIOPIA R Ethiopia in Amharic 0345, long tk, vcl AR mx, ID, nx, f (Lyon MN 11/29)
 7115 MONACO TWR in EG 0816, "Insight for Living", Christmas spec pgm (Weissborn TX 12/10)
 7115 BOSNIA R Yugoslavia relay in EG 0100, nx, cmntry, ID, feature (Levison PA, Flynn OR 11/22)
 7130 TAIWAN VOFC Taipei in EG 1210, nx, ID, "Jade Bells & Bamboo Pipes" (Newbury NE 11/14)
 7143nf7 PERU R Ayabaca in SP 2348, TC, ID, Latin vcls, some ham QRM (Johnson CO 11/23) in SP 1100, musical pgm, ID garbled (Field MI 11/22) ED: PWBR lists R Altura but see 6480 above.
 7145 THAILAND R Thailand in JP/CH/Thai *1301, ID in EG, wx rpt (Famularo JP, Murray MA 11/30)
 7165 ETHIOPIA R Ethiopia in AR 1405, nx, ID, AR mx (Johnson CO 11/23) PWBR lists EG at 1600.
 7200 SUDAN Rep of Sudan R in AR *0256, IS, NA, TP, ID, chants (Lyon MN, D'Angelo PA 12/1)
 7215nf7 QATAR QBS in AR *0243, IS on string instrmt, clear ID 0245 (Fisher NF 11/14) Move from 7210?
 7290 SWEDEN R Sweden in EG 0153, fqys, tk on psychological problems, ID (Newbury NE 11/3)
 7305 KAZAKHSTAN R Nederlands relay in EG, ID's, nx, Yeltsin to have heart surgery (Newbury 11/5)
 7325nf7 AUSTRIA RAI in EG 0035, rpt on Cent European Inst meeting, no ID rptd, g (Fraser MA 11/10)
 7335 BULGARIA R Bulgaria in EG 2045, rpt on decline of Black Sea Fisheries, g (Fraser MA 11/11)
 7405 CHINA China R Int Jinhua in EG 1450, tk on unfairness of U.S. Helms-Burton law (Newbury NE)
 7430 GREECE RS Makedonias in GK 2130, call-in show, ID w/ment of 102 FM, QRM (Rigas IL 11/29)
 7475 TUNISIA RTV Tunisienne in AR 2250, AR vcls, nx, fqy, mention Tunis, g (Lyon MN 11/23)
 7480 CHINA Swiss R Int relay in EG 1323, rpt on child labor in poor nations (Famularo JAPAN 12/3)
 7620 CHINA CPBS Beijing in CH 1320, Taiwan 1 xmsn, Western pops, tk, f (Rigas IL 11/23)
 9445 TURKEY V of Turkey Ankara in TK/EG 2220, native mx, into EG 2300, //9460 (Terrence 12/2)
 95047 PERU R Tacna in SP 1015, huaynos, TC, ID 1030, p (Moore 12/8) in SP 2245, lcl nx, ad block, ID's sounded like R Tarma7, blotted out 2257 by R Veritas Asia s/on (Johnson CO 12/7)
 9515 BRAZIL R Novos de Paz in PT *0901, Christmas mx, relig tk, canned ID, f-g (Moore 12/8)
 9515 BURKINA FASO(t) R Burkina in lang/FR 0840, Afro mx, drums, ID7, g until 0900 (Moore 12/8)
 9535 ANGOLA R Nacional Luanda in EG 1920, tk, flute mx, ID, Afro pops (Lyon MN 11/9)
 9535 JAPAN R Japan/NHK Tokyo in EG 1430, "Magazine Hour", Kabuki theater (Newbury NE 11/1)
 9565 GERMANY D Welle Wertaachtal in EG 0640, Euro econ nx, cmntry, f-g (Famularo JP 11/12)
 9570 PORTUGAL RDPI Lisbon in EG 0430, sked, nx, Musical Kaleidoscope (Pasziewicz WI 11/20)
 9605 MADAGASCAR R Nederlands relay in EG 1950, "Sincerely Yours" feature, g (Fraser MA 11/10)
 9615 AUSTRALIA RA Darwin in EG 1720, rock mx, oriental flutes, //9860, 11880 (Bedford TX 11/29)
 9640nf BOTSWANA R Botswana in Vern/EG 0256, IS, soul mx, UN pgn, g, //4820 (Murray MA 11/30)
 9650 CANADA R Korea relay in EG 1130, nx, interview, cmntry on exodus of 17 N Koreans to Hong Kong, S Korean president to visit Japan (McGuire MD 11/20, Weissborn TX 12/6)
 9650 URUGUAY Emis Ciudad de Montevideo in SP 1917, mx, ads, ID, //MW outlet (Barrera ARG 12/7)

- 9665 BRAZIL R Marumby in PT 0934, ID, anmts, Bible verse, sked of lcl meetings, f-g (Moore 12/8)
- 9675 BRAZIL R Cancao Nova in PT 0911, choral relig mx, g, //4825 weak (Moore 12/8)
- 9705 MEXICO R Mexico Int in EG 1500, nx re Mexican support for Guatemala, mailbag (Pasquale PA, Weissborn TX) in SP 1350, lively Mex mx, full ID, tlk (Vaghjee MAURITIUS, Rigas IL)
- 9745 MONGOLIA R Ulan Bator in RS/EG 1925-1956, in RS to 1930, ID into EG pgning (Moore 12/7) in EG 1937-1959*, interview w/laughter, econ review, tlk, nx, QTH (Vaghjee MAURITIUS)
- 9765 ECUADOR HCJB Quito in SP 1309, lite ballads, tlk, ID 1314, fqys, f (Famularo JP 12/3)
- 9965 ARMENIA V of Armenia in EG 2129, tlk on Armenian history, nx, IS (Flynn OR, Moore 12/7)
- 110925usb ST HELENA R St Helena in EG *1900-2303*, special one day pgm on 10/27, phone-ins, Western mx, info on St Helena, Tony Leo host, s/on w/IS, NA, ID (Pappas SD, Mohrmann VT)
- 11585 INDIA AIR Bangalore in lang? 1700, percussion mx, sitar, vcl w/shouting, //11620 (Newbury NE)
- 11655 NETHERLANDS RN Flevo in EG 1823, sex, AIDS & the cultural revolution, ID (Newbury NE)
- 11690nf JORDAN R Jordan Amman in EG 1553-1715, phone-ins, quiz, nx, lcl wx, ID, semi-classical mx, rpt on Israel vs Palestine (Pickard IL 12/16, Newbury NE 11/10, Flynn OR 12/2)
- 11700 NO KOREA R Pyongyang in EG 2320, cmntry on "murderous So Korean regime" (Pasquale PA)
- 11705 BRAZIL R Nova Visao in PT 0938, Christian pop vcls, ID as "R Trans Mundial" (Moore 12/8)
- 117341 TANZANIA V of Tanzania Zanzibar in SH 1750-2000, tlk, flute mx, hi-life mx, ID & anmts on hr, nx, ME mx, prayers, NA at 1959 s/off (Krepp MA 11/17, Moore 12/7, Paszkiewicz WI 11/18)
- 11785 BRAZIL R Guaiaba in PT 1003, rustic guitar mx & tlk, p/heavy splatter from 11780 (Moore 12/8)
- 11800 ITALY RAI Rome in EG 0145, pop mx of 50's, ID, nx, //9675 (Newbury NE 11/7)
- 11815 BRAZIL R Brasil Central in PT 1007, TC "en Goiania", into rustic mx, f (Moore 12/8)
- 11830 BRAZIL R Anhanguera Goiania in PT 0002, L Am nx, traffic rpts, TC's, ads, f (Flynn OR 11/15)
- 11895 FRENCH GUIANA R Japan relay in EG 0500, world nx, lcl mailbag, into SP 0530 (Weissborn TX)
- 11925 BRAZIL R Bandeirantes in PT 0339, tlk on Brazilian issues, exc (Moore 12/7) in PT 0850, ID, lcl ads, "Informacion", mx/tlk format, jingle ID, f-p (Bueneman MO 11/20)
- 11940 ROMANIA R Romania Int in EG 1300, rpt on Rom troops w/UN in Angola, g (Pasquale PA 12/9)
- 11960 ECUADOR HCJB Quito in EG 2100, "Mountain Meditations", relig reading, g (Fraser MA 11/17)
- 11975 SAO TOME VOA relay in EG *1800, nx, "Encounter" meaning of Clinton's win (Flynn OR 11/17)
- 11990 KUWAIT R Kuwait in EG 1838, nx re efforts of Canadians in Zaire, f (Pasquale PA 11/29)
- 12020 VIETNAM V of Vietnam in EG 1230, ID, nx, vcls, string instrumentals, g (Robinson TN 11/18)
- 12085 MONGOLIA R Ulan Bator in JP 1247, traditional Mongolian ballad, anmts, pop songs to 1259 abrupt s/off - perhaps an extension of published 1200-1230 JP xmsn, BBC QRM (Murray MA 12/1)
- 13580 CZECH REPUBLIC R Prague in EG 1400, ID, nx rpts, into CZ 1430 (Robinson TN, Rigas IL)
- 13655 PHILIPPINES VOA relay in CH 0200*, tlk, VOA theme, ID in EG, jamming (Famularo JP 12/1)
- 13685 FRENCH GUIANA China R Int relayin SP 0240, CH pop mx, history lesson (Weissborn TX 12/10)
- 13685 BELGIUM R Vlaanderen in EG 1400, nx re cutack on R Vlaanderen xmsns (Pasquale PA 12/9)
- 13725usb CUBA R HC in EG 2105, nx re Texaco's "racial & environmental scandals" (Fraser MA 11/15)
- 13770nf? AUSTRIA RAI in EG 1330, ID, nx on exploitation of working children, exc (Robinson TN 11/18)
- 13800nf? MARIANAS IS R Free Asia via KHBI in CH 2359*, march bridges, ID in EG, vg (Flynn OR 12/2)
- 15120nf NIGERIA V of Nigeria in lang? *1454-2000, Afro/reggae mx non-stop, nice lively fare but no anmts or ID's, abrupt s/off 2000 (D'Angelo PA 12/1, Flynn OR 11/11, Terrence 12/1)
- 151605 ALGERIA RTV Algerienne in EG 1653, "Week in Review", sports results, sked (Flynn OR 11/9)
- 15167 SOCIETY ISLANDS RFO Tahiti in FR 0115, French & US pop mx w/DJ, f (Lyon MN 11/14)
- 152446nf? ZAIRE La Voix du Zaire(t) in FR 1832, distinctive Cent Afr mx, no ID rptd, p (Fisher NF 11/11)
- 15270 RWANDA Deut Welle relay in EG 2100, rpt on situation in Zaire, ID, g (McGuire MD 11/26)
- 15345 SAUDI ARABIA BSKSA in Urdu 1210, prayer, tlk on "Namaz", AR mx, ID (Vaghjee 11/10)
- 15400 FINLAND YLE R Finland in EG 1240, ID, rpt on monetary units in Finland, g (McGuire 11/20)
- 15445 BRAZIL R Nac Brasilia in EG 1247, BR folk & pop mx, movie songs in PT/EG, ID (Newbury NE)
- 15445nf? ROMANIA R Romania Int in SP 1300, ID, nx of S Africa, Moldova etc, IS, g (Robinson TN 11/18)
- 15615 ISRAEL Kol Israel in FR 1430, ID, nx of Arafat & Peres, Tel Aviv, "Shalom" (Robinson 11/18)
- 17605 NETHERLAND ANTILLES RN relay in EG 1830, "Newslines", features, ID (Weissborn TX 12/9)
- 17780 GERMANY D Welle Wertachtal in EG 1104, "World AIDS Day", Ukraine closes another nuclear plant at Chernobyl, space-shuttle walk cancelled, ID, f-p (Famularo JP 12/1)
- 21705 SLOVAKIA R Slovakia Int in EG 0840, press comments, ID, //17845, f-p (Famularo JP 12/1)

CLANDESTINE STATIONS

- 6518 SO KOREA V of the People in KR 2315, xmsn to N Korea, //6600, readable (Johnson CO 12/7)
- 6940 SOMALIA(p) R Mogadishu? in lang 0351, Horn of Africa styled string mx, f (Fisher NF 11/10)
- 8300 CHINA New Star BC in CH 1352, YL reading numbers, o/c to 1359, flute IS, ID repeated twice, IS resumed 1403, no sign of sometime //s 9725 & 11430 (Johnson CO 11/24)

NOTES

Report from Barrera (Argentina): LRA36 Radio Nacional Arcangel San Gabriel (Antarctica) which xmts on 15476 & is currently inactive will return approx March 97. Base Esperanza is undergoing personnel changeover now. New funds have been allotted to Antarctic base. During this summer in the Antarctic, personnel will profit from the natural light for maintenance of the Bases and they plan to reactivate LRA36 on shortwave by next March.

Last Minute Mail: A new contributor (Wilder Pickard II of Evanston, IL) sent in his logging of Radio Jordan and it arrived here just as I was typing this page. He rpts that he uses a Drake R7 and random wire. Unfortunately, I did not have time to advise Fred Kohlbrenner in time to get in the credit page.

10 YEARS AGO...

10!

Radio Berlin International was still on the air...

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March 13-15, 1997

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The Forums will include:

- Longwave DXing
- Medium Wave DXing
- SW DXing
- UHF/VHF
- TV/FM Dxing
- Pirates
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- Collectors Forum
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GRAND PRIZE: To be announced

SPECIAL: Register early and win a SW portable! Your registration received by midnight February 11, 1997 will allow you one FREE entry towards this early bird registration door prize.

Please bring items for the Silent Auction. Proceeds are donated to charity.

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Colmar, PA 18915

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Circle: FULL PARTIAL SPOUSE (Spouse Name _____)

Banquet Check Roast Beef _____ Chicken _____ Registration Fee Enclosed: \$ _____

I wish to purchase _____ raffle tickets Tickets Fee Enclosed: \$ _____

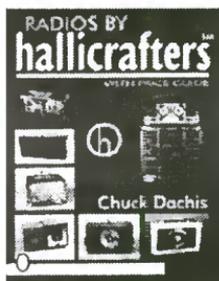
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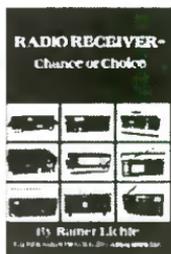
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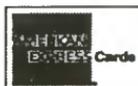


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