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NORTH AMERICAN SHORTWAVE ASSOCIATION

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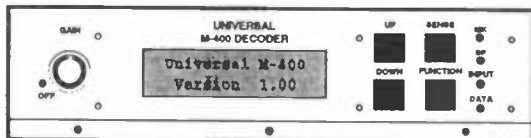
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**VOICE OF
FREE CHINA**

我愛「自由中國之聲」

The Ultimate Accessory for Every Shortwave & Scanner Enthusiast



UNIVERSAL M-400



Many early teletype listeners started their monitoring hobby with code readers. However, readers have fallen out of favor in recent years because of their limited performance, limited mode coverage and lack of features. The M-400 reverses this trend, providing a high quality demodulator, extensive mode coverage, state-of-the-art display and parallel printer port. The Universal M-400 incorporates capability never seen in a reader before. It is the ultimate affordable accessory for the SWL and the scanner enthusiast.

The M-400 provides all the benefits of a reader, without the limitations. The M-400 is totally self contained; there is nothing else to buy. It is compact and operates from 12 VDC making it a natural for auto or boat installations. The two line liquid crystal display provides a (40) forty characters readout (not just 8 or 16 like other readers). This super-twist LCD can be read from any angle, and the front of the M-400 is sloped to provide the optimum in viewing and operating convenience. LED indicators for Mark, Space, Input and Data are provided. A grey, all-metal cabinet provides a solid look of quality. For the shortwave listener, the M-400 provides all the standard reception modes ... and then some.

● SHORTWAVE MODES

- **Baudot**, the original RTTY mode, can be copied in all five speeds (45, 50, 57, 75 and 100 baud). Baudot is used by some press agencies and weather stations.
- **SITOR A and B** are extremely popular teletype modes on shortwave. SITOR is used for communications between ships and coastal stations.
- **FEC-A** is a new press-diplomatic mode gaining wide acceptance primarily in Europe. Extensive FEC-A traffic can be monitored in North America during the day.
- **ASCII** at 75, 110 and 150 baud.
- **SWED-ARG** This Swedish diplomatic mode can be copied in the U.S.A. during the day.
- **FAX** - That's right; with a graphics compatible parallel printer attached, you can copy FAX from shortwave. You can print weather maps and charts from around the world. The printer is optional. (FAX decoding is at 120 LPM, 576 IOC).

● VHF-UHF MODES will be enjoyed by the scanner enthusiast.

- **ACARS** Stands for *Aircraft Communications Addressing and Reporting System*. This new aviation teletype mode is in wide use at most major airports. Extensive traffic can be copied from both nearby commercial airports and aircraft. The M-400 is the first unit to offer this capability.
- **GOLAY** digital paper mode.
- **POCBAG** digital paper mode.
- **DTMF** decoding of all 16 DTMF digits.
- **CTCSS (PL)** frequency decoding is also available. Read all 41 standard tones.
- **DCS (Digital Coded Squelch)**, also referred to as *Digital Private Line* all 104 standard codes.

The M-400 has several functions that you can program. With the use of an optional speaker, the M-400 can be programmed to pass only the audio you want to hear! You can set the M-400 to only activate the speaker when it receives a CTCSS, DCS or DTMF code of your choosing. The M-400 comes with an instructive *Owner's Manual* and a wall adapter that provides 12 VDC. One year limited warranty. Manufactured in the U.S.A. by Digital Electronic Systems. The M-400 is the affordable accessory for every shortwave or scanner enthusiast. Available now for only \$399.95 (+\$8). Order #0400.

**universal
radio inc.**

RECEPTION MODES

- **RTTY Baudot**
45, 50, 57, 75 and 100 baud.
- **SITOR A**
ARGTOR, Amtor A
- **SITOR B**
FECTOR, Amtor B, NAVTEX
- **ASCII**
75, 110 and 150 baud.
- **SWED-ARG**
3, 9 or 22 character groups.
- **FEC-A**
96, 144 and baud.
- **Facsimile (FAX)**
120 LPM 576 IOC
- **POCBAG**
Digital paper mode.
- **GOLAY**
Digital paper mode.
- **ACARS**
VHF Aviation teletype mode.
- **DTMF**
16 digits
- **CTCSS (PL)**
41 standard frequencies
- **DCS (DPL)**
104 standard codes

SPECIFICATIONS

Dimensions	8.75"W x 2.5"H x 8"D
Weight	2 Lbs. (5 Lbs. ship with PS)
Display	LCD two line 40 char. total
Filter Tones	Low tone (mark = 1275 Hz) Fixed: 170, 425 and 850 Hz Variable: 100 - 1000 Hz
Power	11-16 VDC @ 200 ma AC wall adapter included.
Speaker Input	4-16 Ohms 100 MW max Mono mini jack (1/8")
Discriminator Input	10K Ohms 25V max Mono mini jack (1/8")
Speaker Output	Mono mini jack (1/8")
Printer Output	Parallel ASCII 8 bit Cent.

★ HUGE FREE CATALOG ★

Universal offers a new communications catalog covering shortwave, amateur and scanner equipment. There are also antennas, books, parts and accessories. This informative 100 page reference covers everything for the radio enthusiast. With prices, photos and full descriptions. Available FREE by fourth class mail or \$1.00 by first class mail.

Universal Radio, Inc.
6830 Americana Pkwy
Reynoldsburg, Ohio
43068 U.S.A.

☎ 800 431-3929 Order
☎ 614 566-4267 information
☎ 614 866-2339 Facsimile

NASWA Notes

Bob Brown KW3F
238 Cricklewood Circle
Lansdale, PA 19446
CompuServe 74756,1557
GENIE R.BROWN106
Packet KW3F @ WB3JOE



Hello Everyone! Hope all is well with you. Baseball is fun in Philadelphia with the Phillics surprising us all. I hope it keeps up.

Just a few announcements this month -

I'm sorry to here that Sheryl Paszkiewicz is ill and as such you won't see a Tropical Bands column this month. Get Well quick Sheryl!

This is Dan Fergusons last month as editor of Listeners Notebook. Dan, you did one heck of a job and on behalf of NASWA I'd like to thank you for your many hours of dedication to the club.

Hans Johnson will be taking over as Listeners Notebook editor next month. Please help Hans

by sending your contributions to: 7529 Red Cravat Court, Columbia, MD 21046. Hans is also on CompuServe and his ID is 73042,3644.

Due to an increase in his workload, Fred Kohlbrener must take a break from handling The NASWA Company Store. Please direct all orders for reprints, books, and other items directly to 45 Wildflower Rd., Levittown, PA 19057. Thanks for all your help with the store Fred! We all appreciate it.

DXers Forum articles are getting low. Please give some consideration to writing a feature.

Till next month - 73

Calendar Of Events

- Jun 15** - Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. For info send SASE to: NE Ohio SWLs, c/o Donald J. Weber, P.O. Box 652, Westlake, OH 44145-0652
- Jun 18** - Meeting, Boston Area NASWA Chapter, Bull Cafeteria, Billerica, Mass. 7:30 PM For additional information please contact Paul Graveline (508) 470-1971, or via modem on Tom's BBS, (617) 698-8649 (300/1200/2400 baud), (617) 698-8734 (9600).
- Jun 18** - Meeting, Philadelphia Area NASWA Chapter. Kulpville Holiday Inn, Kulpville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Jun 19** - The Miami Valley DX Club (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC (614) 471-9973 Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Jul 4** - The Tidewater SWLs meet on the first Sunday of each month at 6:30 PM. Location is the Steak & Ale Restaurant, 5764 Virginia Beach Blvd. (corner of Va. Beach Blvd. and Military Hwy.), Virginia Beach, VA. For info, call Joe Buch, (804) 721-2782.
- Oct 2-3** - Popular Communication Worldwide Shortwave Listeners Conference, VA Beach Pavalion, Virginia Beach, VA. Info: Harold Ort, Popular Communications, 76 Broadway, Hicksville, NY 11801
- Oct 15-17** 1993 Monitoring Times Convention, Atlanta Airport Hilton, Atlanta, GA. Info: Monitoring Times, 140 Dog Branch Rd., Box 98, Brasstown, NC 28902 (704)837-9200

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

Our Motto is - "Unity and Friendship"

Welcome to the following new NASWA members -

John Acton, San Francisco, CA
John Baldwin, Toldeo, OH
Lutrobe Barnitz, Maytown, PA
Gabriel Ivan Barrera, Buenos Aires,
ARGENTINA
Christian Science Broadcasting Ctr.,
Boston, MA

Michael Bryant, Ogden, UT
Ed Buckley, St. Croix, US, Virgin Is.
Jerry M. Burris, Norman, OK
Jerry Geesy, Union City, IN
Martin S. Hirko, Kings Park, NY
Danny O. King, San Jose, CA
Richard L. Kirby, Salisbury, MD

Michael Korotkin, Studio City, CA
Kenneth W. Lieber, Norwood, MA
George F. Macatee NS4D, Asheville, NC
Spiro Mandilas, West Seneca, NY
Gerald L. Menyhart, Chelmsford, MA
David Netzer, Lucasville, OH
Bill Poniatowski, Chicago, IL
John C. Rugee, Sacramento, CA
Charles H. Shaw, Gainesville, FL
Daniel Shepard, Bayside, NY
Scott Spada, Irwin, PA
James Vaughan, Burlington, MA
Ralph E. Zacharius, Macomb, IL

Musings

This column provides a forum wheras members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months), or use next month's theme as a basis for your discussion. Next month's theme is - Unique And/Or Different Items I've Received From Shortwave Broadcasters. The monthly theme is only used as a suggestion for discussion. Any other items of interest to members may be also submitted. Because I edit this column, I'll jump in with responses where appropriate.

Michael T. Lawson, 5124 Whitmore Dr., Cincinnati, OH 45238

Here's an interesting puzzle for you: try to find a book on shortwave listening (or anything electronic, for that matter) in your average, everyday, mall-oriented bookstore. Good luck. you see, I became curious about this puzzle while trying to find a book on electronics in a Waldenbooks at one of the local malls. I naturally tried to find the Electronics/Technical section. No luck. Okay, thought I, maybe they have it lumped into the Reference section. Nothing there, either. Hmm, this is starting to get to be a little ridiculous, what about the Science section? Once again, I couldn't find anything vaguely resembling Electronics. Discouraged, I finally gave up and left.

Since then, I have begun a small investigation into several of the local bookstores to find out two things: the existence of an Electronics section, and the existence of reference material on Shortwave Radio ON THE SHELVES. So far, Waldenbooks has come up with a big, fat zero. B. Dalton's is a little better, with a technical section (of sorts) and the occasional book on Shortwave listening (that was where I used to get Passport, until I discovered mail order). Still, if you want to browse, it is still difficult to browse over two (maybe three) electronics titles. Several of the regional or locally owned bookstores did better, but some did worse. The best by far was Books & Co. in Dayton with a couple of shelves of electronics titles (including several Shortwave books), but that was no surprise to me since it is the largest independent bookstore in Ohio (I used to frequent it when I went to school at UD).

However, few people have access to a bookstore like Books and Co. or a Barnes and Nobles.....This realization brought up a more pressing question: What do people do if they become interested in electronics or Shortwave radio and they can't easily find any reading material at a local bookstore?

The mail order stores (Universal and EEB, for instance) ARE great, but you have to know that they exist before you can order material from them. Another alternative is the local library, but you are still at the mercy of amount of interest the library takes in technical matters (outside of cars). Interlibrary loan is a possibility, but more often than not can be a headache. That leaves the bookstores, Radio Shack, and the communications magazines like PopComm and MT. As I noted, at least around here several bookstores don't even consider electronics worthy of the amount of space donated to, say, New Age material. Radio Shack is rather iffy; if you are lucky, one person there is a Shortwave or Amateur radio expert (or an actual ham) and can point you in the right direction (I was one when I worked at a RS for a while). Perhaps, however, the only certain method of reaching people with an electronics/shortwave interest are the communications magazines. They at least have the visibility that a lot of the books seem to lack (including WRTH and Passport, but that appears to be changing.) In addition, the magazines contain general interest stories about shortwave radio (although my concept of general interest may be a bit advanced....) They also have ads for all important mail order stores, so you can more easily access the equipment for shortwave listening.

Is there any better way of reaching the beginner?

The best answer is the shortwave listeners themselves. We need to encourage the shortwave hobby by nurturing along all of the newcomers to the world of shortwave. Shortwave listening classes at the local high school or college would be nice; and volunteering time at local schools for Geography classes would be helpful, too.

When, recently, a class at a local grade school talked to the astronauts in the space shuttle via ham radio (a young ham in the class coordinated), it got fairly extensive airplay (no pun intended). We may not need the constant airplay, but performing similar shortwave exercises can 1) inspire interest in shortwave radio, and 2) heighten understanding of shortwave radio with the average person.

Richard D. Cuff, 213 Parkview Ave., Allentown, PA 18104-5323

Thanks to a timely phone call from NASWAN/ODXAn John Figliozzi, I had the delightful opportunity to attend the 1993 Ontario DX Association (ODXA) convention held May 1st in Toronto. I thought you all might enjoy a report.

The ODXA convention is smaller in scope than the Winter SWL Festival - it runs Friday evening into Saturday afternoon, and most of the 100 or so in attendance were probably within two hours' drive of Toronto. This "intimate" group was nonetheless treated to a well-run, thoroughly enjoyable affair. Steve Canney, John Grimley, Harold Sellers, and many others did a fine job of managing the convention activity.

A wine and cheese reception was held Friday evening, sponsored by Radio Canada International. Terry Hargreaves, Executive Director of RCI, gave us some encouraging news about the continuing restoration of RCI two years after the ax fell in March 1991. The reception also provided the opportunity for some one-on-one conversation with the convention's keynote speaker, Ian McFarland. I also had the chance to chat with Terry Hargreaves and with HCJB's Rich McVicar, soon to be winding up his Canada furlough. Several door prizes were raffled, as well.

A diverse set of forum sessions characterized Saturday, with some of the highlights including noise elimination and an HCJB profile from Rich McVicar. In addition to Ian McFarland's keynote speech on his two-year Japan stint, I especially enjoyed Jacques D'Avignon's forum on Computers in the hobby. Jacques' specialty is propagation forecasting, and he demonstrated several packages I'd never seen "live" before.

The convention concluded with a free-form panel discussion by all convention presenters. Much of the discussion centered around alternate program delivery methods for the future: Digital shortwave, relays, local retransmission, and satellites were discussed. It was especially interesting to hear Ian's perspective as a broadcaster wanting to have his "message" reliably and inexpensively be listened to by as many people as possible. Don't trade in your receiver just yet, as shortwave will still be an important means of program broadcast for years to come.

A side benefit of the convention was the opportunity to do a little sightseeing in Toronto. I may be prejudiced, having had Canadian grandparents and still having ties to Southern Ontario, but I still consider Toronto one of North America's nicest cities.

I recommend the ODXA convention highly - it was a great opportunity to see some Winter SWL Festival friends once again, and the hobby information was diverse and timely as well.

Richard Wallace, 12 Madison Ave. #8, Danbury, CT 06810

One of the problems I had when writing reception reports is that international characters aren't represented on low cost typewriters. I bought a Smith Corona personal word processor a few years ago and that worked fine. All I had to do was turn on the international setting. When I switched from that to an IBM PC, then the problems started again.

Using the number lock and keying in ALT and the four digit numbers was the quickest Method for DOS based word processors. If you are using Windows, it gets more complex. You can use number lock in Windows, but this time it's ALT plus three numbers. The difference is that Windows is ANSI based; while DOS is ASCII. These are two character standards for PC's.

If you use character map in Win 3.1, there are a number of things you should do. First, you need to match the font that's shared between character map and your word processor. Resize the character map and word processor so that both fit the screen.

There is an easier way! A freeware application called Foreigner can be found on many BBS's. Some shareware vendors carry the program too. What foreigner does is give the ability to drag and drop a character into your reception report. This is much easier than keying in or select/paste to the clipboard. The one disadvantage of Foreigner is that it doesn't recognize fonts. In other words, you get what you get. Foreigner works only in Windows.

Vern Hyson, 5410 Camp Stewart Rd., Charlotte, NC 28215
A ROSE BY ANY OTHER NAME

Our hobby can be confusing and contradicting at times - some examples:

Why differentiate between a DXer and a Short Wave Listener? If it isn't a local signal then it's DX.

Why call the former USSR a Commonwealth? They don't have all that much in common and they aren't wealthy.

Why doesn't a Beverage antenna have liquid in it?

Why call it a loaded vertical antenna? When I'm loaded, I'm horizontal.

Why did CB'ers adopt the "73" sign off from the hams? It's their average IQ.

If Berg, Brown and Cones went into broadcasting could they be known as the BBC?

Why don't Mint Stamps have a flavor like pepper or spear?

Why are wires so ugly to wives? To me, an antenna is more pleasing to see than baggy panty hose on a shower curtain rod. Life for us might have been easier if Joyce Kilmer had written " I think I shall never see a thing as lovely as an inverted Vee."

Acronyms are concealing alot of meanings also:

ICOM - I consolidated the mortgage. MFJ - Material from Japan. EEB - Easy electrocution buddy. MHZ - Alot of pain or where you rent a receiver for a high price. IRC - I'm radio controlled. ANARC - A noisy and rowdy crowd. NASWA - Narry a sound without antenna.

Names can be confusing too:

YAESU - if it doesn't work, yasue. DRAKE - equipment with a big bill. GIGAHERTZ - currently one of the highest measurements of frequency, with the rumor that the next group will be Gigaglenns. DIPOLE - a princess from Warsaw with marital problems. BALANCED FEED LINE - two cafeteria lines of the same length. RANDOM ANTENNA - some times it is long, some times short. LEAD-IN - the beginning to a story.

I'm sure there are others out there with ideas on the unusual about our hobby.....share 'em if you got 'em.

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave listening , DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Net Controls Bob Brown KW3F, Dave Kirby N8JQX, and Hausie WB4JSP, host an always lively gang of DX monitors. (Best heard in the eastern half of NAM)

WANTED: "RADIO Engineer's Handbook" by Terman. Believe it was published by McGraw-Hill. Hardbound edition from the early mid-50's only (Hollow State Era). Misplaced mine long ago. Please write or call (not collect) with year and price. Doug Robertson, 4045 Sunset Lane, Oxnard, CA 93035. Phone (805) 985-6289 Monday to Friday from 0200 to 0600 UTC.

DXer's Forum

Please submit all contributions to:
Bob Brown KW3F
238 Cricklewood Circle
Lansdale, PA 19446
CompuServe 74756,1557
Genie R.BROWN106
Packet KW3F @WB3JOE

This month John Figliozi tells us about the opportunities we have for staying in touch with world events via shortwave radio. **Attention NASWA Members!** I need your articles to keep these pages full! Of particular interest are DXing tips and techniques, station profiles, antenna construction articles, and anything else related to DXing the shortwave bands.

"And Now The News ..."

by John Figliozi*

The most cited reason listeners give for turning to shortwave radio is the opportunity to hear a diversity of views about current events and trends throughout the world -- an opportunity virtually unavailable to users of other media. It has been said that the truly intelligent person reserves judgement on anything until he or she hears all perspectives. If that is so, then I suppose it can be said that shortwave listeners have a unique opportunity to become truly intelligent about the world around them.

All stations offer perspectives and in this they are all valuable sources of information. The primary purpose of this article is to offer the listener a place to go to "check" the information received from stations that may be too close to a given situation for the information they provide to be trusted implicitly.

Around The Clock Coverage

For around-the-clock general worldwide coverage, there are two standout choices - the BBC World Service (BBCw) and the World Service of The Christian Science Monitor (CSMw).

The BBC offers news updates every hour of every day -- ranging over one, five, nine, fifteen, thirty and sixty minutes depending on day and time. The sixty minute version is

called "Newshour". Heard every day at 0500, 1300 and 2100, "Newshour" is the BBC's flagship current events program offering the most comprehensive report on shortwave radio.

News features also abound on the BBC World Service. Two of the best are "The World Today" (M-F 1645, 2015; Tu - Sa 0615), which provides in-depth analysis of one current events topic daily; and, in two editions per week, "From Our Own Correspondent" (Sa 1830, Su 0330/0730; and W 2315, Th 0445/0915) in which BBC correspondents worldwide provide news background stories about nations, cultures and individuals that provide important assistance in understanding how current events and differing perspectives have come to be.

The Monitor transmits Monday through Friday in a two-hour block of news features that is changed at 1600 daily and repeated with updates and fresh half hourly news reports, twelve times over the next 24 hours. There has been some recent retrenchment in the Church's communications arm due to budgetary problems and concern has been expressed about some recent efforts by the Church hierarchy to influence some news coverage, but the reporting remains generally excellent nonetheless. The Monitor's strengths still lie in its overall objectivity and its efforts to highlight events and issues in developing nations.

* 45 Algonquin Road
Clifton Park, NY 12065

Two somewhat smaller broadcasters -- the Canadian Broadcasting Corporation (CBC) and Radio Netherlands (RN) -- also provide excellent worldwide coverage.

The CBC is heard on shortwave through Radio Canada International (RCI) and its Northern Service (CBCn). The CBC's strength and value to the discriminating listener is in its longer form news programming and analyses. The CBC especially excels in dispassionate analysis of the United States and its activities throughout the world and gives the listener a view of the world uncolored by American ethnocentrism.

An excellent daily source for background to the news that emphasizes personal experience and reaction is the ninety minute "As It Happens", broadcast in its entirety over RCI and CBCn (M-F 2230). (Excerpts from the program are repeated on four subsequent mornings (Tu-F 1212).) "As It Happens" features interviews with newsmakers as well as ordinary individuals caught up in world events. As such, it too provides many unique, on-the-spot perspectives on the news. It is a valuable, one-of-a-kind program.

The weekly "Sunday Morning" (RCI/CBCn Su 1300) provides three hours of well written and presented documentary reports on worldwide (and Canadian and American) political, cultural and social events and issues. It, arguably, is the most literate news and arts program on shortwave radio.

Radio Netherlands (RN), through its daily program "Newsline" (M - Sa 2337; Tu - Su 0037/0337), provides excellent perspective on areas, events and trends not usually covered by the larger shortwave services and North American domestic media. "Newsline" correspondents also often provide a unique, though balanced, perspective on major, breaking events as well. This 18 minute program offers the listener an opportunity to truly learn something significant that he or she might not have known otherwise.

Regional Coverage

Many smaller stations with correspondingly smaller budgets eschew global coverage for what they are better able to do by virtue of their geographic location -- that is, provide

comprehensive regional coverage. Some comments on these follow:

Europe - There are many good choices for news stressing European events and issues. In general, for objective all-European coverage, the best are Swiss Radio International (SRI) and Belgische Radio - Television's Radio Vlaanderen International (BRT). Deutsche Welle (DW) and Radio France Internationale (RFI) also are quite reliable but their reporting on events and issues in which their sponsoring countries have important interests sometimes appear to reflect that fact. Radio Austria International (ORF) provides generally good perspective on eastern and central Europe, but also sometimes appears to emphasize Austrian views on events and issues in the region. For coverage of Europe's regions or regional perspectives on Europe-wide issues, nearly every European shortwave station can provide the listener with something of value. Eavesdropping on Europe can be a full time job and a news junkie's delight, especially given recent and current events taking place there.

Africa - Obtaining reliable information on African events and issues is a research project for the listener, especially if he or she is confined to the English language services. A separate feature article will address Africa at a future date.

Middle East - This region represents another difficult assignment for the listener as every broadcaster in (and outside of) the locale has an opinion and is not shy about expressing it. The "facts" about the conflicts here are daily demonstrated to be elusive to all, so the best course of action would appear to be for the listener to tune around, hear every perspective offered in the region and around the world, and reserve judgement.

Asia and the Pacific - The clear winner in this increasingly powerful and important region is Radio Australia (RA). Some years ago, the Australian Broadcasting Commission (ABC) decided to focus RA's attention on south, southeast and East Asia and the Pacific Island nations, much to the chagrin of listeners in North America. However, as a result, RA provides far and away the most comprehensive

and balanced reporting and analysis of Asian and Pacific events and issues from the Indian subcontinent to Micronesia, sometimes prompting strong reactions and diplomatic protests from the less democratic nations in the region. World and Australian news reports, with clear emphasis on the Asian and Pacific regions, are broadcast around the clock on odd numbered hours. More in-depth reports are featured on "International Report", broadcast on even numbered hours. Two minor complaints: Radio Australia's coverage of Australian current events and issues is surprisingly sparse. And annual budget reductions combined with repeated government attempts to secure more influence in station policy threaten the continued independence, reliability and balance of Radio Australia's reporting and analyses. These qualities persist in Radio Australia's broadcasts due only to the quiet and dignified dedication of its staff in the face of these adversities.

In addition to Radio Australia, Radio New Zealand International (RNZI) provides good coverage of events in New Zealand and the various small, but diverse, Pacific island nations as well as of issues of importance to them. An added perspective is provided to shortwave listeners by virtue of the fact that a significant portion of RNZI's broadcast day includes rebroadcasts of domestic network newscasts and programs. These can provide North American listeners with a more unguarded view of what New Zealanders think, since the programs heard are not prepared with an international audience in mind. "Checkpoint", the flagship news program of the domestic network, provides an excellent daily review of New Zealand and Pacific regional events and issues. It is broadcast most weekdays at 0530 over RNZI, but is sometimes pre-empted by international service produced programs. "Pacific Islands News from New Zealand" is broadcast M-F at 0500, 0650, and 1030; "Pacific Islands News Magazine" at 0700 M-F; and "Pacific Regional News" at 0800 and 1000 M-F. For New Zealanders' views of life in New Zealand and the Pacific, check out the conversational "In Touch with New Zealand" with Wayne Mowat, relayed from the domestic National Radio at 0205 M-F.

Now Available!

The 1993 Edition of The New Shortwave Radioguide

Yes, it has been nearly a year since the last edition of *THE SHORTWAVE RADIOGUIDE* was published. But in that time, contrary to appearances, your editor has been far from inactive. In response both to user suggestions and increased competition from imitating publications, John Figliozzi has revamped his popular *SHORTWAVE RADIOGUIDE* in a continuing attempt to make it the most complete, accurate, and useful publication about shortwave radio programming anywhere. The increased scope of the 1993 edition of *THE SHORTWAVE RADIOGUIDE* makes it a must for shortwave program listeners wherever they live in the world and even if their primary language is one other than English.

THE NEW SHORTWAVE RADIOGUIDE, like its predecessor, carries thousands of listings of English language programs broadcast to or generally audible in North America. But, *THE NEW SHORTWAVE RADIOGUIDE* goes a few steps further.

First, there are now references and listings for English language programs broadcast to other regions of the world. Second, program listings are carried for the other "world" services offered in the primary languages of stations like Radio France International and Deutsche Welle. Finally, there are even listings offered according to some popular program types!

The cost of *THE NEW SHORTWAVE RADIOGUIDE* is \$16 per copy postpaid to NAm, \$20 elsewhere. It can be ordered from The NASWA Company Store, 45 Wildflower Rd., Levittown, PA 19057

Thanks to Harold Sellers of The Ontario DXA association for his desktop publishing help with this publication!

Both RA and RNZI are heard regularly in North America, although none of their transmissions are intentionally beamed in this direction. RA broadcasts around the clock; RNZI up to eighteen hours a day.

A third source of regional information is Radio Japan (NHK). Radio Japan's reporting is a little more difficult to assess since a large proportion of it focuses on Japan itself and its relationship to the Asian and Pacific region and the world in general. Though the presentation is often somewhat dry, a wealth of information and perspective is provided to the attentive listener. Given the importance of Japan to the global body politic and economy, the informed listener cannot afford to ignore Radio Japan and consider him or herself truly informed. All the same, although it appears that Radio Japan is fundamentally reliable, given the amount of time devoted to Japan and Japanese perspectives in its broadcasts, it is probably best to hear Radio Japan with some reserve. For the most complete daily report, try "Newsround" (M-F 1100).

Latin America - As with Africa, the North American listener who speaks only English is left with limited sources of information about regional events and issues. HCJB, a religious broadcaster in Quito, Ecuador which also produces some fine secular programming, gives primary consideration in its newscasts to current events in Central and South America (0030, 0230, 0500). Immediately following these newscasts, on Monday through Friday, HCJB features twenty minutes of topical in-depth reporting on the region. Radio Exterior de Espana (REE), the Spanish National Radio, also gives some attention to events in Latin America in its daily newscasts (0000/0100/0500).

The Caribbean - Remember the Windward Islands Broadcasting Service? Over twenty years ago, this was the authoritative voice (for those able to receive it from its 5 kilowatt transmitters) about events in this region. Today, the most comprehensive and reliable sources of information about current events and issues in the Caribbean are outsiders. The BBC broadcasts "Caribbean Report"

(M-F 2115; Tu-Sa 0145) which provides daily political and economic reports on the region. The Voice of America (VOA) has an identically named program (Tu-Sa 0010) with a slightly wider focus.

North America - This, in some ways, is a euphemism for the United States. Canadian events and issues are covered only by Canadian stations, with only rare exceptions. Apart from RCI and CBCn (which, by the way, are fine sources in their own right), a few Canadian commercial stations simulcast on shortwave at very low power (1 KW or lower). Depending on conditions at various times of the day and your location, for a non-CBC perspective, try a newscast or talk show from CHNS (6130 kHz) in Halifax; CIBQ (6005 kHz) in Montreal; CFRB (6070 kHz) in Toronto; CFCN (6030 kHz) in Calgary; and CKWX (6080 kHz) in Vancouver. "Spectrum", a program recently added by RCI to its program lineup (0100 Tu-Sa; other versions at 0400 Tu-Sa; and at 1230, 1330, 1630, 2030 M-F) as it attempts to emerge from devastating budget cuts, appears to be evolving into a wide-ranging survey of Canadian events, culture and opinions. An excellent program now relayed from the domestic network by RCI is the erudite "Best of Morningside" (0207 Tu-Sa), an hour of the daily morning CBC staple in which, over time, all aspects of Canadian culture and current events (and beyond) are most enjoyably presented and discussed.

American media is so pervasive and American events and culture so widely reported that alternative sources of information and views about American current events and government policies can be found on almost any station anywhere. However, balanced and critical analysis of American issues can be had by tuning to the World Service of The Christian Science Monitor and Radio Canada International's "As It Happens" (see references at the beginning of this article), along with the many BBC World Service news related programs. A personal perspective from a long-time observer of the States can be heard weekly in Alistair Cooke's "Letter from America" (BBCw - Sa 1015, Su 0615/1645/2230).

Where's VOA?

You may have noticed that the Voice of America was largely omitted from these recommendations. This was done for a number of reasons.

First, most North Americans use shortwave radio to gain perspectives other than those most readily available to them within the American media. Another American perspective, which the VOA is charged with providing to an international audience outside North America, does not satisfy this requirement.

Secondly, it is not clear that the VOA's news and analysis is entirely independent of US government influence. The editorial and operational independence of the VOA, or any successor that emerges from current discussions about the future of American international broadcasting in the post-Cold War world, must be a major priority to guarantee the integrity of the service and truly represent the most cherished of American constitutional principles to the world - the First Amendment.

That is not to say that the VOA is of no use to anyone in the effort to gain an informed perspective on the world around us. Many around the world look to the VOA for more reliable information about their circumstances than they can get from their domestic sources and reported research shows that the VOA is much respected by many international listeners. Let us not, however, mistake VOA coverage for anything other than what it is - an American perspective - and all too often, a narrow, mainstream one at that. For North Americans seeking a more global perspective, the VOA is not a primary source.

But many other stations are not specifically cited in this article as well. As stated at the outset of this article, all perspectives are valuable. A listener interested in increasing his or her depth of perspective of, for example, issues and events in eastern Germany, obviously should seek out Deutsche Welle's reporting on them. But it would be unadvisable for that listener to rely solely on that reporting without checking other available - and more detached - sources. Hopefully, this analysis has assisted the reader in identifying some of these sources.

Hardware Bits

by Alun Johnson

DATONG AD-370 ACTIVE ANTENNA - I was recently loaned a used Datong AD-370 antenna for evaluation. This unit has been highly rated by the World Radio-TV Handbook, Passport to World Band Radio and the 1992-1993 edition of fine tuning's Proceedings. The AD-370 consists of a plastic antenna head to which are attached two 49 inch whips, in a dipole arrangement. This unit is designed to be mounted outdoors and is connected to the indoor interface/preamp unit by a 30' length of coaxial cable. The interface is powered by a 12 volt DC supply (user supplied). A short length of coax connects the interface to the receiver. The only control is a pushbutton switch that turns the internal 20 dB pre-amplifier on and off. Specified frequency range is from 200 kHz to 100 MHz. Current pricing is in the \$150 range without a power supply. The connectors used on the model I evaluated were coaxial connectors which appear to be the same as those used for the external antenna input on Grundig Satellit receivers (unfortunately not readily available at hamfests!).

I live in a tough RF neighborhood - there's a TV/FM tower about two miles down the road and a 50 kW MW transmitter about 4-5 miles away. That's one of the reasons that I'm usually very negative about putting active devices ahead of my radios, since poorly designed units will overload and create spurious signals all over the dial. Unfortunately, the Datong (although neither poorly designed nor constructed) failed the test - there were distorted images of broadcast stations almost everywhere I tuned in the HF spectrum. In all fairness, I must say that the connections on this unit were very corroded, and although I cleaned them, they may have contributed to rectification. I know that people who have used the AD-370 have had good results, but I don't know how close to radio stations they lived. If you live near a high-power MW station, you may want to consider the McKay-Dymek DA100D, which did not result in images when tested at my location.

DX Target



Radio San Gabriel La Voz de Pueblo Aymara

By Richard A. D'Angelo

Bolivia is a difficult DX challenge on the east coast of North America. The two best windows of opportunity are very early in the morning local time or early in the evening local time. Europeans seem to enjoy good openings to the Andean region during the spring and summer around midnight UTC. Despite the early bird catches the worm philosophy needed to DX Bolivia in North America, many hours of enjoyment can be had searching for elusive Bolivian shortwave broadcast stations. One such station is Radio San Gabriel, La Voz de Pueblo Aymara.

The Country

Bolivia is located near the center of South America. It lacks a seacoast and has many natural barriers to transportation. The Andean Highlands cover much of western Bolivia. A high plateau called the Altiplano lies between two ranges of the Andes Mountains. It is this region that Radio San Gabriel serves. The country has two capitals. Sucre is the official capital. However, most government offices are located in La Paz which is the largest city in Bolivia.

The People

The country has a population of more than 7 million people. Over half the population lives in rural areas. About 40% of Bolivia's people live on the Altiplano. Almost a million people make their home in La Paz. Mestizos, people of mixed Spanish and Indian ancestry, make up about 30% of the population. Around 60% of the people are of unmixed Indian Ancestry while most of the rest are people of unmixed white ancestry.

Bolivia has three official languages - Spanish and the Indian languages of Aymara and Quechua. About 30% of the population speaks Spanish. Most Bolivians speak an Indian

language with Aymara and Quechua being the most common ones spoken. La Voz de Pueblo Aymara concentrates its efforts on the Aymara speaking Indians.

The Land

Bolivia has four major land regions: the Andean Highlands, the Yungas, the Valles, and the Oriente. The Andean Highlands cover much of western Bolivia. It is here that the Altiplano is located. The Yungas make up a small region in the northeast. It consists of steep hills and narrow gorges. The Valles lie in the south-central portion of the country. It consists of gently sloping hills and broad valleys. The Oriente is a vast lowland plain that spreads across northern and eastern sections of the country. Tropical rain forests, swamps and open grasslands dominate this area.

Snow covers the highest peaks in the Andes Mountains all year. The Altiplano has a cool, dry climate. The Yungas have a warm, humid climate. The Valles have a warm, but less humid, climate than the Yungas. Most of the Oriente has a hot, humid climate. The rainy season in most of Bolivia lasts from December to February. The Oriente receives the most rain. Light rain falls on the Altiplano, and droughts frequently trouble the region.

The Economy

Bolivia is rich in natural resources and is a leading producer of tin. It has a wealth of natural resources such as plentiful minerals, pasture land, timber and fertile soil. However, frequent wars and revolutions have hampered the country's economic growth. Consequently, Bolivia remains a developing country with one of the lowest standards of living in the Western Hemisphere.

Service industries and agriculture account for most of Bolivia's gross national product. Most of the country's industries and businesses are privately owned but the government controls petroleum production and other key businesses. Service Industries, such as businesses, government agencies, hospital and schools, account for over half of the country's GNP. Agriculture (20%), manufacturing (15%), and mining (7%) are the other major contributors to the economy.

The mining industry has played a significant part in the development of shortwave broadcasting in Bolivia. A number of low-powered shortwave broadcast stations formed as part of the tin mining operations during the early 1950's. However, many of these stations are rarely reported due to their low-powered operations. These stations are owned and operated by the miners themselves with programs designed to serve them. In 1991, Kevin Atkins wrote the definitive hobby reference about shortwave radio in this country with his "*Shortwave Broadcasting in Bolivia, A Geopolitical Perspective.*" Included in this work was an outstanding discussion about the miner owned and operated shortwave broadcasting stations. This superb article was just one of the many interesting features contained in *PROCEEDINGS 1991*. Back issues of *PROCEEDINGS* can be obtained from Fine Tuning's Special Publications (RRT#5, Box 14, Stillwater, OK 74074, USA) division. The price is US\$19.50 plus US\$4.00 postage in North America. Outside North America postage costs are US\$5.00 for surface book rate or US\$17.00 airmail.

The Station

Radio San Gabriel is a catholic institution which was founded by the Maryknoll congregation in 1955. The station is under the direction of the La Salle Brotherhood, belonging to the Archbishop of La Paz. Its goal is the evangelization and integration of Aymara natives located in the Altiplano region of Bolivia. Approximately 90% of the

permanent staff of the radio station are Aymara natives and 95% of the station's programs are broadcast in the Aymara language.

The station promotes the culture of the natives while giving spiritual and moral guidance through its transmissions. It is completely dedicated to the social service needs of the Aymara campesinos of Bolivia, Perú and Chile. Broadcasts focus on the basic knowledge and elements needed to raise the Aymara natives standard of living with programs dedicated to health, nutrition and communication. Radio San Gabriel also serves the local community with education classes for adults, local postal services, courses in improved agriculture, and recreation activities.

La Voz del Pueblo Aymara transmits on 6,085 kHz from 0830 UTC to 1800 UTC and 2000 UTC to 0230 UTC with a power of 5 kilowatts. There is a medium wave outlet on 620 kHz with a power of 16 kilowatts and an FM transmitter on 101 MHz with a power of just 1 kilowatt. The best time to hear the station in North America is the early morning hours prior to the sign-on of WYFR at approximately 0955 UTC on 6,085 KHz.

By Bolivian standards, Radio San Gabriel is a good verifier of listener reception reports. The station responds with a Spanish letter. Reports written in Spanish should include return postage. Director General Hno. José Canut Saurat, fsc. can be reached at the following address:

Radio San Gabriel
Casilla 4792
La Paz
BOLIVIA

Good luck with this DX Target. Remember to send all those logs of Radio San Gabriel to Sheryl Paszkiewicz for inclusion in the Log Report and those rare QSL's to Sam Barto for his QSL Report column.

African Destinations

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GErie W.KURRASCH

Although the traditional "DX Season" has now passed, don't tune away from the tropical bands just yet. There is still a lot of good DX to be found coming from Africa. True, it will be much more challenging when compared to the relatively quiet and stable months of the winter season. But if you can tolerate a little static in you listening, you may be rewarded by a rare and needed catch. With the later sunsets of the summer season, you may be able to take advantage of DX enhancements not available during other times of the year. Also, now is a good time to repair winter damage inflicted upon you antenna system or making upgrades to your apparatus. Checking the loggings in the JOURNAL, it appears that many members enjoyed a pretty good season listening to Africa.

In the last two African Destinations we outlined the history, government, geography, resources, population, religion, broadcasting stations and other features of interest related to Liberia and Somalia as these two nations were grabbing most of the headlines from the African continent. Certainly many issues need to be addressed to return stabilization to these nations, but it appears that the initial process is underway. Our troops have left Somalia and the internal fighting, if only temporarily, seems to have subsided and mail is once again entering Liberia. Although these nations have quieted down there are other nations in Africa that threaten to erupt with unrest at any time. Eritrea appears to be poised to declare total independence from Ethiopia and more trouble seems to be brewing in Angola in addition to the ongoing issues that plague South Africa. In this months column we will present an overview of the African continent in an attempt to better understand this turbulent land.

Africa is the second largest continent in the world. With adjacent islands it covers about 11,699,000 sq. mi., or about 22% of the world's total land area. It contains 11% of the world's population which totals nearly 500 million. Straddling the equator, Africa stretches 4970 mi. from its northern-most point, Cape Blanc in Tunisia to its southern-most tip, Cape Agulhas

in South Africa. The maximum width of the continent, measured from Cape Verde in Senegal on the west coast to Ras Hafun in Somali in the east, is about 4700 miles. The highest point on the continent is the snow capped Mt. Kilimanjaro (19,340 ft) in Tanzania and the lowest is the Qattara Depression (436 ft below sea level) in Egypt. Africa has an extremely regular coastline characterized by very few indentations. Its total length is 18,950 miles. The length of its coastline in proportion to its area is less than any other continent.

The chief islands of Africa, which have a combined area of 240,000 sq. mi. include Madagascar, Zanzibar, Pemba, Mauritius, Reunion, the Seychelles and the Comoro Islands in the Indian Ocean; Sao Tome, Principe and Bioko in the Gulf of Guinea; St Helena, Ascension, and the Bijagos islands in the Atlantic; and the Cape Verde Islands, Canary Islands, and Madeira Islands in the North Atlantic. Except for the north coast and the Atlas Mountains in the northwest, the terrain of Africa consists of a vast, rolling plateau, marked by a number of large, saucer shaped basins.

Africa is divided by several major regions: the Northern Plateau, the Central and Southern Plateau, and the Eastern Highlands. The outstanding feature of the Northern Plateau is the Sahara, the great desert that occupies more than one-quarter of Africa. At the fringes of the Northern Plateau are several mountainous regions. To the NW lies the Atlas Mountains which extend from Morocco into Tunisia. The Central & Southern Plateau is considerably higher than the Northern Plateau and includes west central and south Africa. It contains several major depressions, notably the Congo River Basin and the Kalahari Desert. The Eastern Highlands is the highest portion of the continent, extending from the Red Sea south to the Zambezi River.

The climate of Africa, more than that of any other continent is generally uniform. This results from the position of the continent in the Tropical Zone, the impact of cool ocean currents

and the absence of mountain chains serving as climatic barriers. Africa has seven different climate zones. The central portion of the continent and the east coast of Madagascar have a tropical rain forest climate. The average annual temperature is about 80°F and rainfall averages about 70 in. The climate of the Guinea coast resembles that of an equatorial climate, except that rainfall is concentrated in one season. However, no months are rainless. To the north and south the climate is that of a tropical savanna that encompasses one-fifth of Africa. Here the climate is characterized by a wet season during the summer and a dry season during the winter. Total annual rainfall varies from 20 in. to about 60 in. Africa has a proportionally larger area of desert than any continent except Australia. The desert areas have less than 10 in. of rainfall annually. In the Sahara, daily and seasonal temperature extremes are great; the average July temperature is more than 90°F; during the cold season the nighttime temperature often drops below freezing. Mediterranean climate zones are found in the extreme northwest and southwest of Africa. These regions are characterized by mild, wet winters and warm, dry summers. In the highlands of east Africa, particularly in Kenya and Uganda, rainfall is well distributed throughout the year and temperatures are equable. The climate on the high plateau of South Africa is temperate.

Vegetation: African vegetation can be classified according to rainfall and climate zones. The tropical rain forest zone, where the average annual rain is more than 50 in., has a dense surface covering of shrubs, ferns, and mosses, above which tower evergreens, palms and numerous species of tropical hardwood trees. A mountain forest zone, with average rainfall only slightly less than in the tropical rain forests, is found in the high mountains of Cameroon, Angola, E. Africa, and parts of Ethiopia. Here a ground covering of shrubs gives way to oil palms, hardwood trees, and primitive conifers. A savanna woodland zone, with annual rainfall to 55 in. covers vast areas with a layer of grass and shrubs above which

are found deciduous and leguminous trees. A subdesert scrub zone with rainfall from 5 to 12 in. has a covering of grasses and scattered low shrub. The desert regions with annual rainfall of less than 5 in. has sparse vegetation or none at all.

Animal Life: Africa has two distinct zones of animal life: the North and Northwest zone including the Sahara; and the Ethiopian zone, including all of sub-Saharan Africa. The North and Northwest zone is characterized by sheep, goats, boars, deer and camels. Desert foxes are found in the Sahara along with hares, gazelles, and the jerboa, a small leaping rodent. The Ethiopian zone is known for its great variety of distinctive animals and birds. Woodland and grassland areas are inhabited by numerous species of antelope and deer, zebra, giraffe, buffalo, the African elephant, rhinoceros, and the baboon and various monkeys. Carnivores, or meat-eating animals include the lion, leopard, cheetah, hyena, jackal, and mongoose. The gorilla, the largest ape in the world, inhabits the rain forest of equatorial Africa as do monkeys, flying squirrels, bats and lemurs. The guinea fowl is a leading game bird. Water birds, notably pelicans, goliath herons, flamingos, storks and egrets congregate in great numbers. The ibis is common in the Nile region and the ostrich is found in east and south Africa. Reptiles include lizards, tortoises and crocodiles. A variety of venomous snakes, including the mamba, are encountered throughout the Ethiopian zone. Among the constricting snakes, pythons are found mainly in west Africa, boa constrictors are indigenous only to Madagascar. Fresh water fish abound with over 2000 species known. The continent has a variety of destructive insects, notably the mosquito, driver ants, termites, locusts, and tsetse flies. The tsetse fly is known to transmit sleeping sickness to humans and animals.

We'll break our African lesson at this point and will pick it up again next time. In the meantime tough it out and see if you can pick up the Voice of Eritrea through the static. It should provide some very interesting listening about now! 73 !!

Listener's Library

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Waterford Works, NJ 08089
Genie T. AREY I

Since the warm weather has hit, it's time for your humble column editor to climb up out of the basement and start devoting some time to summer activities. Ever since I used to ditch school by telling my teachers that I have a rare disease that requires frequent immersion in salt water (in other words, surfing), summer time brings out the anti-work streak in me. But fear not friends! We have several devoted NASWA members who have decided to lighten my summer load by making contributions to this column. Take a gander at what Rich Hankinson and Don Moore have to say to the assembled shortwave faithful. Meanwhile pass the SPF-15!!!

The WBI DIRECTORY - A GUIDE TO INTERNATIONAL BROADCASTERS

A Critique by Richard E. Hankinson

Question: What's big and bright and costs big bucks?

Answer: *The WBI DIRECTORY - A GUIDE TO INTERNATIONAL BROADCASTERS* is an impressive, new volume for 1992/1993. Recently published by BBC Monitoring, "the Directory" is an exciting new publication for shortwave listeners. But it has its shortcomings and with a weighty price of 50 pounds and 14.25 pounds shipping and handling (that's roughly \$98.00 U.S., give or take) shortcomings are hardly expected. Here is the story.

First, let's start with ordering. "The Directory" is available through BEBC Distribution of Poole, UK. Visa and Mastercard are welcome, so you don't have to try to find a bank that does international money orders at a prime rate. This author decided to charge it, and within two weeks of ordering received the shipment. This was in the face of the Christmas rush.

Upon unwrapping the parcel, my eyes fell upon an impressive sight. "The Directory" is well over 300 pages of information, and it is packaged in an impressive fashion. It comes in a loose-leaf style binder. The cover and the spine are quite well illustrated - the whole package looks professional, as one well might expect a BBC Monitoring Service publication to be. But when you open the binder the funny stuff begins. Unlike loose-leaf materials from the United States, "The Directory" is 2-hole punched (not

3-hole) on the 11" side of 8" x 11" paper. I am not a connoisseur of international publications, so I don't know what is right and what is not in the rest of the world, but this binder is strange. It looks odd and the pages turn oddly.

The WBI Directory - A Guide to International Broadcasters is well organized. It is divided into three sections as follows:

Section 1: International Radio Broadcasters

Section 2: International Religious Radio Broadcasters

Section 3: International Television Broadcasters

In addition, there are five appendices:

1. International Radio Broadcasters Ranked by Program Hours per Week.
2. International Radio Broadcasters Ranked by Frequency Hours per Week.
3. Country Locations of Transmitting and Relay Facilities.
4. Languages Used by International Radio Broadcasters.
5. The WBI Section of BBC Monitoring.

Catch the flaw? Three of the five appendices and all three major sections refer to International Broadcasters. Voice of Ethiopia is included as an international broadcaster despite the fact that it is very difficult to hear in much of North America. Radio Rumbas, Radio Rebelde and a host of Latin stations easily heard in North America are not listed. Why? "The Directory" includes only those stations declaring themselves to be international broadcasters. To be sure there is a lot of information to be had on those stations included in "The Directory". But there is a world of information left out. Why this is must be left to the uniqueness of North American DXing vs. the organization and professionalism of BBC Monitoring. To us it is a hobby. To them it is a profession.

Assuming you can live with the omission of Radio Nibi Nibi from "The Directory", there is another, perhaps more serious problem with

"The Directory". In the "Foreword By Managing Director, BBC World Service", John Tusa (of that office) states that.... "This directory is the result of the first ever systematic compilation based on research into the surprisingly rich database held by BBC Monitoring's World Broadcasting Information (WBI) section...." Rich? Yes. Organized? Well.... The fact is that while "the Directory" is full of interesting facts not easily available to the shortwave lover, even through such gospels as World Radio and Television Handbook and Passport to World Band Radio, the information is quite random and spotty. Where it is good it is very, very good, and where it is poor, it is lacking. The summary sections are not uniform. For example, every country has a summary, but not every summary lists location and power of the broadcaster's transmitters. Perhaps more annoying is the absence of structure to the general information. There isn't any continuity to the material presented. Instead sections are defined by the content of the material which is all too frequently a press release found by the BBC Monitoring Service rather than information researched by the Service. The result is not a flowing narrative of comparative information, but a hodgepodge of random facts.

In summary, *The WBI Directory - A Guide to International Broadcasters* is an excellent publication chock full of interesting tidbits of information. It is professionally packaged. But it is quite expensive and not well organized. And it is not geared toward DXers and the like wanting to know more about those strange and wondrous voices from afar heard over the shortwave radio. While "The Directory" includes a tremendous amount of information, it also omits a tremendous amount of information, much of which is what the DXer really wants to know. As such it is not a worthwhile investment for anyone but the most serious, dedicated and well-to-do radio enthusiast. Until "The Directory" becomes more inclusive and more organized, the money spent is better spent on IRCs, club dues, and subscriptions to Monitoring Times, Popular Communications, etc.

Thanks for the information Rich. It seems that the Beeb could easily put together a fantastic document that could humble even Passport and the WRTVH. I guess their priorities and marketing strategies are just not hobby oriented.

Now we all know Don Moore and his great work with the LATIN DESTINATIONS column here in the *Journal*. Don likes to keep us informed of books about some of those Latin Destinations. If you are looking for something to read on the beach this summer take a look around for. . .

WHO GOES OUT IN THE MIDDAY SUN

by: Benedict Allen
1986, Viking Press
249 pages

Looking for a good adventure story with some sense of humor? Well, here it is. Allen vividly describes his own thousand mile journey in the early 1980s from the mouth of Venezuela's Orinoco River south to Brazil then eastward through the remote jungles along the Guainas borders to the mouth of the Amazon. His many bizarre adventures include wrestling a wild pig to the death to prove his manhood for a primitive tribe, avoiding the marital clutches of an eligible Indian maiden, and a 75 mile survival dash through the jungle to escape two Brazilian prospectors. The book is illustrated with often funny pen and ink drawings which Allen did in a notebook along his journey. This is my all-time favorite Latin America adventure book! If your local library doesn't have it, use inter-library loan.

Also reviewed by Don Moore--

PORTRAIT OF CUBA

by: Wayne S. Smith
1991, Turner Publishing
192 pages

Portrait of Cuba has to be the best current book on Cuba that I have found. It is a large "coffee table" size book full of great color photos (black and white in the historical section). Although over half the book is pictures, this is no "picture book". The text is intelligent, easy to read, and interesting too. Except for an introductory chapter on Cuban history before Fidel, the book concentrates on Cuba under Castro - his rise to power, the changes he made, and the state of Cuba today. The author takes an objective look at what Castro has been to Cuba, both the bad (e.g. human rights) and the good (tremendous strides in Cuban health care). Finally, he looks at what the fall of Communism in Europe means to Fidel and Cuba. He concludes that there are distinct differences between Fidel's Cuba and the former Communist Eastern Europe, and Fidel may well be around for a long time to come. For a god look at what Cuba is today, this is the book to read!

Thanks for pointing people back in the direction of the library Don. In sending his submissions to LISTENER'S LIBRARY, Don Moore asked the best way to send in computer files. I can accept files in most IBM word processing formats. However, the best still remains ASCII. Disks (both 5.25 and 3.5) can be sent to the above address or files can be sent to me via GEnie. My GEnie mailbox is T.AREY1. So come on, join in the fun. Contribute to LISTENER'S LIBRARY this summer so I won't have to get sand and suntan lotion in the keyboard.

Technical Topics

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QUESTION TIME

This month's column is devoted to answering some questions received from NASWA members over the past few months. The problems and questions are of general interest to the beginning SWL. Time does not permit me to answer such questions individually but your questions are always welcomed and will be answered in a future column.

I recently purchased a passive antenna tuner to better match a wire antenna to my DX-440 receiver. It doesn't help bring in more stations. Why?

A passive tuner such as the one you purchased does have the ability to improve the power transferred from your antenna to your receiver and to reject signals which are on the receiver image frequency. To understand image frequency response, consider a simple superhet receiver with no RF amplifier stage. If the set has a 455 KHz IF amplifier stage, it will respond to signals 910KHz from the desired frequency. As an example, if such a receiver was tuned to WWV on 15.000 MHz the local oscillator would be on 15.455 MHz. The difference frequency of 455 KHz appears at the output of the mixer and the input of the IF amplifier. Such a receiver will also respond to a signal on 15.910 MHz. This frequency is called the image frequency. Tuned circuits ahead of the first mixer provide some loss at the image frequency. The more tuned circuits there are, the sharper the response curve and the greater the loss at the image frequency. The passive tuner you purchased can provide some additional loss for image frequency interference. Unfortunately, such a device is of little use with a receiver that already has good sensitivity and good image rejection. The DX-440 is such a receiver.

The important thing to remember regarding antennas specifically intended for receiving is that the amount of signal transferred from the antenna is not as important as the ratio of signal to noise and interference on the frequency. At most frequencies in the shortwave range the

ratio is limited by "atmospheric noise" which is actually caused by lightning, solar radiation, charged particles blown by the wind into your antenna, and auroral activity. In addition, man-made noise comes from TV sets, light dimmers, touch control lamps, and "dirty" transmitters.

Coax feedlines can be useful in receiving applications. If a single wire antenna feedline is brought into the house and connected directly to the radio, the antenna will pick up signals all along its length and couple those signals into your radio. As the wire nears your house it must inevitably pass near the house electrical wiring. Noise on the electrical wires will be picked up on the antenna and coupled into the radio. With a dipole antenna located as far as possible from utility lines and your house, the coax cable can serve as a shielded conduit to couple the signal from the antenna to your receiver without picking up additional noise.

Most portable radios are extremely sensitive so they will work well on the short antennas that are built into such sets. My experience has shown that the added signal from an external antenna not only does nothing for the signal to noise ratio, but actually may degrade reception by overloading the receiver circuits. The result is that every signal combines with every other signal in a monstrous intermodulation distortion situation. The effect is to raise the noise level to the point where only the strongest signals are clear and the weaker signals are buried under the intermod products. That may be what is happening in your situation.

In summation, a passive tuner will only help a receiver with poor image rejection. Any radio with a stage of RF amplification before the first mixer and a first IF frequency above 2MHz already has sufficient sensitivity and image rejection for most SWL applications. If an external antenna must be used to get away from noise problems, an adjustable attenuator between the feedline and the receiver can improve reception by reducing the intermodulation products resulting from the overload.

Is the sloper antenna always better than a longwire or dipole?

No, no antenna is always better in all applications. (Unless it happens to be a rotatable stacked curtain array about 300 feet high.) The sloper has some gain in the direction of the lower end of the wire away from the support mast. Two or three dB of gain is typical. But there is no such thing as a free lunch. The gain in the favored direction comes at a sacrifice of performance in other directions. That may be OK, especially if the target area happens to lie in the right direction and the noise sources in another direction. The sloper tends to respond to vertically polarized signals and so may be noisier if lightning or man-made noise is present.

A longwire antenna of 15 wavelengths can have a gain of 10dB in the main lobes which nearly fall in the direction of the wire. Such an antenna would be 750 meters long at 6MHz. A shorter wire will give less gain but require less real estate.

Is a center-fed dipole better and lower noise than an end-fed long wire?

If the end-fed long wire uses an unshielded single wire feedline, there is often pickup of unwanted, man-made noise where the feedline enters the house and comes in proximity to the house wiring. Because the center-fed dipole uses shielded coaxial cable for a feedline, noise pickup should not be a problem on such a feedline. At least one manufacturer is selling a matching transformer to couple an end-fed random wire to a coaxial feedline to avoid noise pickup on end-fed wire lead-ins. The device also places the wire at DC ground potential which permits static charges to bleed off the antenna without flowing through the front end of your kilobuck receiver. Seems like a worthwhile investment. Do not be complacent, however; such a device will not protect your receiver from nearby or direct lightning hits. In storms, disconnect the feedline and ground both the inner and outer conductors of the coax.

Can a center-fed dipole be effectively erected with one end lower than the other? Finding two equal height supports can be a problem.

Yes, such a dipole is similar to a sloper in performance. Some directivity can be expected in the direction of the lower end. The gain will only be a few dB under normal conditions.

There is a 5Kw AM broadcast station about 1/4 mile from my house. I have a DX-440 portable

radio. I am experiencing bad interference when using an external amplified speaker. On the set's internal speaker the interference is somewhat less. On the headset the interference is low. What can be done to eliminate this interference?

The answer is divided into two parts. The first part suggests things you should try first of a non-technical nature. The second part suggests some possible technical approaches to curing your problem.

Your problem is known in the broadcast industry as "blanketing". Often broadcast stations which are licensed to operate near residential areas have a condition attached to their license which requires the station to fix any interference problems within the blanketing area. The blanketing area is defined as that area inside the 1 volt/meter field strength contour. You can contact the station general manager, (most stations do not have an engineer on staff any longer), explain your problem, and see what he suggests. Many AM broadcasters are going broke these days so don't expect miracles. You should then try your FCC Field Office. They can advise you as to whether the station has an obligation to fix blanketing interference problems. You should also try the local Radio Shack store from which you purchased the radio. They might just give you your money back. Then you can buy a Collins R-390, R-388, or similar boat anchor which will be more immune to high RF fields.

There is no simple technical answer for a problem of this type. (Short of moving, of course.) This problem sounds like RF is being rectified in the audio stages of the receiver or the external amplifier. The writer did not say if the interference was independent of received frequency. It sounds like the wires connecting the external amplifier may be acting as an antenna, but that does not explain why there is still interference using the internal speaker. Try using fully shielded coax cable for interfacing the external amplifier. Also try wrapping a few turns of the cable through a toroid core near the amplifier to choke off RF currents on the shield. You might also try to find a spot where the direct signal from the station is partially cancelled by secondary radiation from the power line. Also try running your DX-440 on battery power with any external power source physically disconnected.

If you figure out how to cure this problem, please share your solution so others can benefit. Good luck.

That's it for this month. Stay tuned.

Equipment Review

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THE YAESU FRG-100 RECEIVER

Not so long ago, the first receiver that many people started with was a relatively inexpensive and poorly performing four-tube single conversion superheterodyne. Today, things have gotten a little better with modern digital designs and integrated circuits - for under a hundred dollars, one can get a portable with digital tuning which at least takes the hit or miss out of finding stations. In the \$150 to \$200 price range, one can get pretty decently performing portables. However, these radios do have their faults, such as a lack of selectivity selection, poor strong signal handling capability and a lack of computer control. For quite some time, there has not been a cost-effective upgrade path for hobbyists who have started out with one of the newer digital portables, i.e. after spending about \$200 for something like a Sangean ATS-803A the next price point for a fixed or desk-top receiver was the Kenwood R-5000 or Icom R-71A at about \$900. The Yaesu FRG-8800 was available for about \$700, but the consensus of most reviewers was that its performance was somewhat less than stellar. Now Yaesu has introduced a new receiver, which, while not a "superset" like those from Drake or JRC, represents a very good price vs. performance value - just like the legendary Yaesu FRG-7 of the mid-70's.

The FRG-100 is a small receiver, measuring just 9" x 3.6" x 9.3" (WHD) with a small price tag to match. At approximately \$540 (street price - list price is \$599) it is the least expensive tabletop receiver that I am aware of. It covers 50 kHz to 30 MHz with a double conversion (1st IF is up-conversion) design, has three stock bandwidths and is a PLL design which tunes in 10 Hz steps. Standard reception modes are AM, SSB and CW; an FM board is optional. Power is supplied by an outboard 12V DC supply, so the radio can be used with batteries in the field (although they should be pretty hefty batteries, as the maximum current drain is 1.2 amps). The

outboard AC supply is supplied with the radio in the North American market. There are two built-in clocks with a timer for unattended recording. There are 52 memories which store frequency, mode and filter selection. Two of the channels are used to set the limits for band-scanning - each of the remaining 50 channels is independently tunable. There are a host of scanning functions available. The way Yaesu has cut the cost of the FRG-100 is by eliminating features such as keypad tuning, passband tuning and a notch filter. Cost-cutting measures are also very evident in the quality of the IF filters in the radio.

No Keypad?

Yes, hard to believe with today's digital receivers, but the FRG-100 does not have a direct entry keypad. I realize that there may be readers out there who have never had to find a desired station by tuning to the approximate frequency a few minutes ahead of the start time of the station's transmission and then rocking the tuning knob, searching for the station's interval signal, but that's how we did it in the dark (or is it glow-in-the-dark?) ages. The Yaesu offers digital frequency display, down to 0.01 kHz, and a variety of tuning steps and speeds via various permutations of the "Fast" key, Up/Down keys and the tuning knob, so quickly shifting between various bands and frequencies is no great chore. For broadcast listeners, the radio can be configured so that pressing the Up/Down key shifts the display from one international broadcasting band to the next (the receiver will step to the lower band edge). For utility listeners, the memory channels can be configured to perform the same type of "band-switching" jumps (remember that you can tune the memory channels just like a VFO). For those who can't get used to not having a keypad, Stone Mountain Engineering in Georgia offers an accessory keypad for about \$100 that plugs into the radio's computer control port.

Tuning is very smooth, although the main tuning knob is slightly on the small size and lacks a "flywheel" feel. The tuning steps can be user-defined to any value between 0 Hz to 100 kHz - this is useful for tuning "channelized" services, such as the international broadcasters, which tend to be 5 kHz apart or domestic MW broadcasts, which are spaced 10 kHz apart. While on the subject of user-customization, there are numerous features of the FRG-100 which can be user modified. These range from such relatively useless things as being able to change the frequency of the "beep" tone which sounds when a button is pressed (or turning it off completely) to the very useful ability to define which filter is selected in which mode and altering the SSB offset (which results in a passband shift capability).

Multiple Scans

I have never been very impressed with the scanning capabilities of HF receivers, but the FRG-100 has a scanning feature that appeals even to me. It is the ability to designate one of the 50 memory channels as a "priority" channel, to which the radio will tune every 5 seconds. If there is activity on the channel, the radio can be configured for either "carrier-delay" in which the radio will return to the VFO channel 2 seconds after activity stops on the priority channel or "time-delay" in which the radio returns to the VFO frequency after pausing on the priority channel for 5 seconds. Both of these delay features are available in the other scanning modes as well. The FRG-100 also supports scanning of the memory channels and scanning between two user-defined frequency limits. There is a front-panel squelch control to set the minimum signal strength required for scan stop. One nice feature available in the memory scan is the ability to break the memory channels into five groups of ten each. In "Selectable Group Scan" each group of ten channels is given a letter designation and the memory channels in each group are numbered 1-0. The radio can then scan by letter group or by a single number across all letter groups. The manual gives the example of putting various stations' 49 meter frequencies in the "A" group, 41 meter frequencies in the "B" group, 31 meter frequencies in the "C" group, etc. While doing this, you make sure that the BBC frequencies are in the first channel in each group, R. Moscow in the second channel, and so on. Then in Group Scan you can either scan for the best BBC frequency or scan a particular meter band for active favorite stations. One last scan feature is

"Broadcast Band Scanning", if the radio has been configured so that the Up/Down key shifts between the international broadcast bands. When "Scan" is pressed while in this mode the radio will scan across the selected broadcast band.

More Bells And Whistles

In addition to all the above, the FRG-100 offers two independent 12/24 hour clocks, "On" and "Off" timers and a sleep timer which can be set for any delay up to two hours. Note, however, that the "Remote" jack on the back panel is operated by the squelch control and not the timer itself. Yes, when the radio turns on at the time set by the timer, the jack can be used to control a tape recorder, but only if the squelch control is set low enough so that there will be audio output. The CW beat note can be set to 400, 500, 600 or 700 Hz and the receiver can be set to receive CW signals on either the USB or LSB. To keep up with all the user-selectable features, there is a plastic card which fits into slots on the bottom of the radio for ready reference. Also on the bottom on the radio is a tilt-out wire bail, which allows for tilting the radio up at an angle. A computer control interface is standard via a 4800 baud, TTL level, 6 pin DIN connector. A level converter to change the TTL levels to RS-232 is required - Yaesu sells one for \$90 (model FIF-232), although one can be built cheaply using a MAX232 chip. The interface uses the Yaesu standard CAT control system, which I have had no experience with. The degree of control offered by the interface looks fairly complete, even allowing the computer to read the value of the receiver's "S" meter.

What About Performance?

OK, so the FRG-100 has a lot of features of varying functionality - how well does it work to dig out DX? Actually quite well, with the exception of the very important area of selectivity. Sensitivity is very good across the full coverage of the receiver. The receiver is designed to work with a full-size outdoor antenna or an active antenna. The antenna inputs consist of a SO-239 coaxial jack for 50 ohm antennas or spring clips for a high impedance wire lead-in. There is a back panel switch to select between the two. There is no internal RF pre-amp. Strong signal handling capability is good, although I can hear weak spurs 200 kHz up from a very strong local mediumwave station on 1500 kHz. I can't hear any spurs above 2,000 kHz. There are two attenuator pushbuttons which will give

6, 12, or 18 dB of attenuation - quite useful for 49 meters at night. Audio output is quite adequate at 1.5 watts into 4 ohms at <10% distortion. The built-in speaker is OK, but with the external speaker I used, the FRG-100 had the bassy output I associate with Japanese radios. Overall the audio was pleasant, without a lot of hiss or noticeable distortion.

The Achilles heel of the FRG-100 is in the area of AM mode selectivity. The designers have used two very low-quality ceramic filters for the AM bandwidths of 6 and 4 kHz. The bandwidths of the two filters at 50 dB down (the standard rating is at -60 dB) are 18 and 15 kHz, respectively, for shape factors of 3:1 or worse. The SSB filter is much better, with -6 dB bandwidth specified at 2.4 kHz and 4.8 kHz at -60 dB. CW filters of 500 and 250 Hz bandwidths are available as plug-in options. There are several ways to deal with the FRG-100's selectivity problems, some of which can be had at no additional cost. Since the IF filter selected in each mode can be determined by the user through pushing some switches on the front panel, the simplest option is to select the SSB filter (2.4 kHz) as the default AM-Narrow filter. This works but the audio is a bit muffled, even if the receiver is tuned off-frequency to accentuate the higher audio frequencies. Signal distortion increases quite rapidly as the signal is off-tuned, however. A very effective dodge is to tune using both the SSB filter and either USB or LSB mode (referred to as ECSS tuning). This requires that the receiver be tuned very closely to the station's carrier frequency, so that speech and music sounds natural, but the technique is quickly mastered. The neat thing is that the FRG-100's SSB offset frequency can be shifted, so the higher frequencies can be emphasized without shifting the VFO frequency. Conversely, the passband can be shifted lower to avoid interference. Not only does this technique provide excellent selectivity, it also allows selection of either sideband to avoid adjacent channel interference. Using this technique requires some poring over the manual and some practice, but it cures the selectivity problem.

The more expensive solutions to the selectivity problem include the KIWA filter modules, which are available in bandwidths from 8 to 3.5 kHz with outstanding shape factors for \$40 each. There appears to be enough room inside the

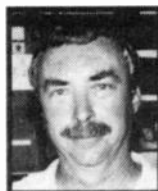
receiver cabinet to mount at least one of the modules. It would be really neat if KIWA would design a module to plug into the slot for the CW filter or if Yaesu would offer a quality AM filter to go into this space. For the do-it-yourselfer, there is enough space where the standard filters mount to remove them and drill some holes for a higher quality ceramic filter, although these seem to be very hard to find in single quantities at a reasonable price. The most expensive way to take care of the selectivity problem is to order the radio from Electronic Equipment Bank and specify their filter board option, which has three Collins mechanical filters and adds \$400 to the price (according to the info I got by phone). You may as well go ahead and get a Drake R-8 instead.

Fit And Finish

The fit and finish of the FRG-100 is excellent and the lay-out of the front panel controls makes the receiver easy to use. It does take a while to master all of the features, with frequent references to the manual or the "quick-reference" card. The radio is quite attractive, with a black case, gray front panel and an amber LCD display. The small size of the receiver will make it easy to fit into the smallest of "shacks". The quality of construction is very good.

The FRG-100 is a great way for the SWL who got started with an entry-level portable to obtain a significant improvement in performance at a reasonable price. To obtain maximum selectivity does require some willingness to experiment with the receiver's controls, but once the technique is mastered it makes the radio a real performer. I would recommend it to anyone looking for a good general purpose (i.e. SW broadcast, utility and ham listening) receiver. For those SWL's who are primarily interested in program listening, the Lowe HF-150 (at \$100 more) might be a better choice, due to its better audio fidelity and synchronous detector. Someone seeking maximum DX'ing performance (i.e. needing passband tuning, notch filter, etc.) might do best by buying a used high-end receiver, although going this route will entail paying a price of \$200-\$300 higher than the FRG-100. It's great to see Yaesu becoming a contender in the SW marketplace again.

NASWA Portraits



Jerry Klinck
43 Lein Road
West Seneca, NY 14224

Welcome to this edition of NASWA Portraits. Let's get right to it as we go to Irwin, PA and our fellow NASWAN, Ken Josephic

"My family always gathered at my grandparents' house for the holidays. After getting underfoot, my grandfather would escort my cousin and me down to the basement to continue our play away from the adults. Here we discovered an old floor model radio serving as a stand for grandma's roaster. After some initial experimentation, we got it turned on and became by the strange languages and music we heard. This radio was a new experience and from that point on we would run to the basement as soon as we got to grandmothers' house. As I grew older, my interest in SW grew. We had an old Philco console phono/radio which had several SW bands. My dad helped me move it down to the basement and helped me string up a short wire between the floor joists. At first, ham operators were the easiest hear and I tried my hand at learning the Morse Code in order to get my license. Somehow the ability to be able to spend hours discussing the merits of a quasi-aperiodic doublet vs. a loaded ground plane did not provide the motivation for me to follow through. What I truly enjoyed was listening to international broadcasters. (*I hear ya. . ed*) But something was missing."

"I used to read a lot of electronics magazines but the articles were oriented mainly toward the radio amateurs and experimenters. Then I happened upon one that had several articles on SWLing and QSLing international broadcasters. I also included Whites' Radio Log. I found the missing piece! Armed with this new found knowledge I began hunting the bands with a purpose!"

"I got a Monarch SW receiver for Christmas and began to try for QSLs. In 1966, I picked up a Hallicrafter SX-42 at a garage sale for \$20. It was in several boxes and it took me most of the summer to rebuild it. This was my primary rig and its' array of tubes helped keep my little corner of the basement warm on those cold winter nights! I managed to get a deal on a Hammerlund HQ-100 at a hamfest several

years later. At about this time I also earned my WPE3HCW call sign. I became an active member of R. Budapest DX Club and a monthly monitor for Deutsche Welle."

"College, work and raising a family left little time for hobbies and my gear was packed away and pretty much forgotten. When my grandmother passed away, my cousin and I reminisced about being glued to her radio, and the old fires rekindled. I gathered up the boxes and began to rig up a new shack. Unfortunately, the SX-42 didn't survive, so I was left with my trusty Hammerlund and a Hallicrafters S-38. My 10 year old son and I rigged up a 100' inverted L, in the snows of early December, 1991. My son must have thought that old dad had lost it, but he was there, steadying the ladder while I connected the feed wire in the wind and snow!"

I have yet to find my old QSLs and awards, but am busy trying to get new verifications from my old friends on the bands. So far, (as of Sept., 1992) I have 44 QSLs with 22 outstanding since powering up on December 12, 1991. The last time I was a member of NASWA it was NASA and FRENDX was produced on a mimeograph machine. Times sure have changed but it is reassuring to see that the people in the hobby are still as friendly and willing to pass along their help and knowledge as they were when I first began. I have a lot of catching up to do and I am sure that being a part of NASWA will go a long way in making the adjustment easier. I have just recently received a Yaesu FRG-7 which is now my primary rig. If anyone out there has any experience with this receiver, please drop a line. I'd appreciate advice on add-on equipment or antenna designs that would help to maximize its' performance."

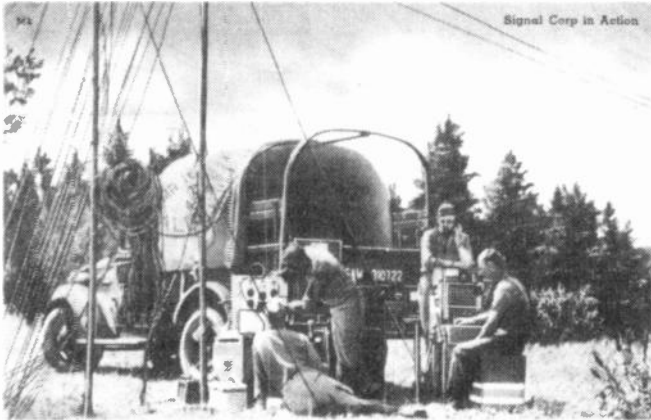
Kens' address is: 601 Cedar Street, Irwin, PA 15642.

Thanks to those who've written. It never ceases to amaze me, how many of us "60's SWLs" left the hobby, only to return so many years later. Till next time . . . awesome DX!!



RADIO STAMPS

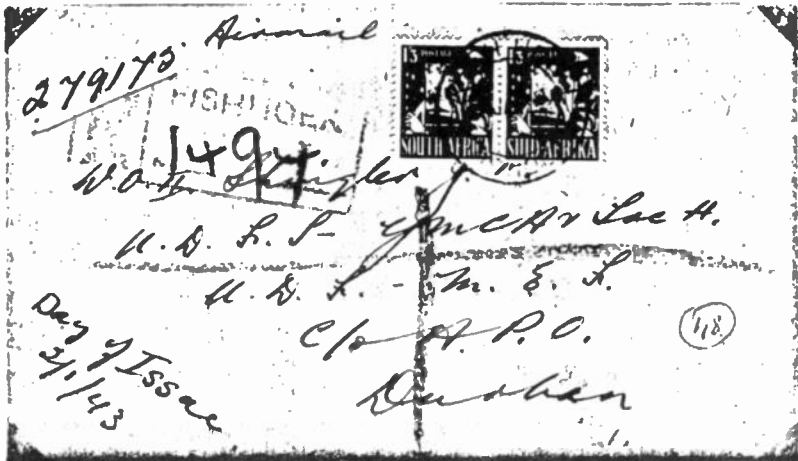
Neil Carleton
P.O. Box 1644
Almonte, Ontario
K0A 1A0, Canada



Radio at War on Postage Stamps

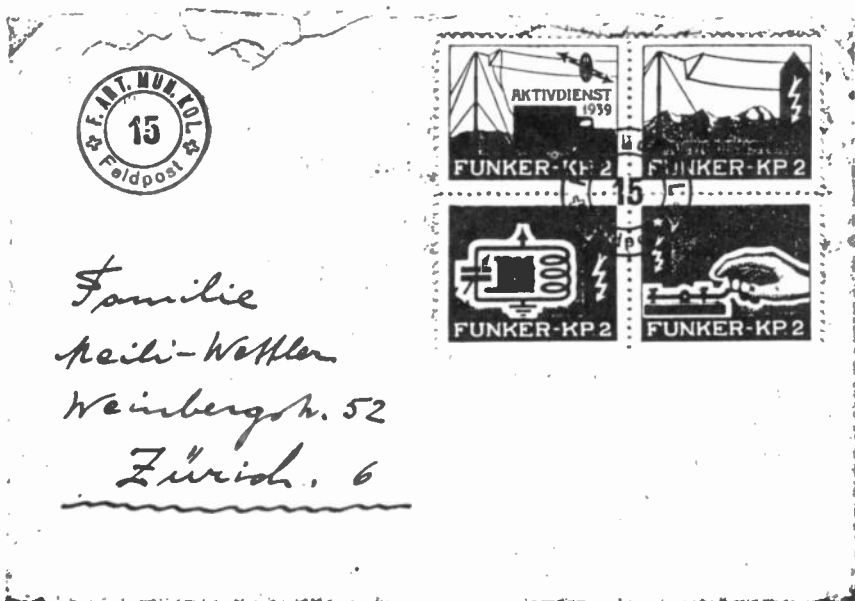
The advantages of radio telegraphy over wire telegraphy were recognized during the first world war. Telegraph wires were easily and regularly broken from shell explosions, vehicles and horses. By the time the second world war started, great improvements were made in mobile radio systems. The postcard, above, shows four soldiers from the American signal corps with a mobile radio unit in action. The three stamps, below, illustrate portable radio units from the Soviet Union, Poland and Germany at war. The Soviet postage stamp was issued on May 4, 1960, to honour General I.D. Tcherniakovski, a second world war hero, and his military school. The Polish stamp, with a denomination of 55g, is part of a set of 8 special stamps that was issued on November 1, 1943, by the Polish government in exile in Great Britain. This unique set was issued for letters posted from Polish merchant ships and warships. The German semi-postal stamp was issued on March 21, 1943, as part of set of 12 stamps for Army Day and Hero Memorial Day. The Scott catalogue numbers for these distinctive stamps are 2322, 3K12 and B221.





Great improvements were also made in radio systems for aircraft. This new equipment resulted in better communications between warplanes and the flight control center. The South African postage stamp illustrated above, on a registered, airmail, first-day-of-issue cover, was issued on January 2, 1943, as part of a set of 9 stamps with various war designs. This 15¢ stamp shows a radio operator in war action with aircraft flying in the background.

The vital role of the signal corp was commemorated in Switzerland during the second world war with the issue of a special series of "soldier stamps" used on letters posted at field stations. The cover below shows four of these remarkable stamps with a variety of radio designs.



Feldpost

Früher

JEDER
Volksgenosse
Rundfunkhörer



Love Ulrich



Musdorf bei Ludwigshafen / Pfalz

Hauptstadt

Field post stations were in operation in Germany too during the second world war. Although I'm not aware of any special stamps used on letters posted at German field stations, I do know of one unusual stampless postal cancellation used during the second world war. My rough translation of this field station cancellation, illustrated above, is "each one" or "everybody" / "fellow countrymen" or "comrade" / "radio listener". If you can help me with this translation, please drop me a line.

Radio communications were very important to the operation of the resistance forces during the second world war. Radio sustained morale and aided the resistance fighters in France during the Nazi occupation. Maurice Bourdet was a noted French radio commentator and resistance hero. The 60th anniversary of his birth was commemorated with a postage stamp by France on February 17, 1962. The Scott catalogue number is 1021.

CARTE POSTALE
CORRESPONDANCE PHILATÉLIQUE



WWCR radio tower blaze takes 6 hours to extinguish

The WWCR radio transmission tower burned down early yesterday in a fiery blaze that took firefighters more than six hours to quell.

The tower, at 1140 Hydes Ferry Pike, was "a total loss" when the fire engines finally left the scene at about 9:30 yesterday morning, some six hours after the trucks first arrived.

"It all fell in," said Capt. Luther Campbell. "When they arrived there, it was

already falling in. It was burning good."

By the time Campbell's crew arrived at 9 a.m. the fire fighters "just drowned it out," Campbell said.

Three engines turned out to battle the blaze. The tower had an equipment building at its base, filled with electrical equipment. The Fire Department had not yet determined the cause of the blaze later yesterday, but some firefighters blamed it on faulty wiring.



The walls on the right side of the building remained standing.

WWCR burned early on the morning of April 4, 1993. The station was a total loss. These photos were taken by Marty King of White Bluff, TN. He also provided the news clipping above. Some of you may remember Marty from the ANARC SWL Net. Thanks, Marty!



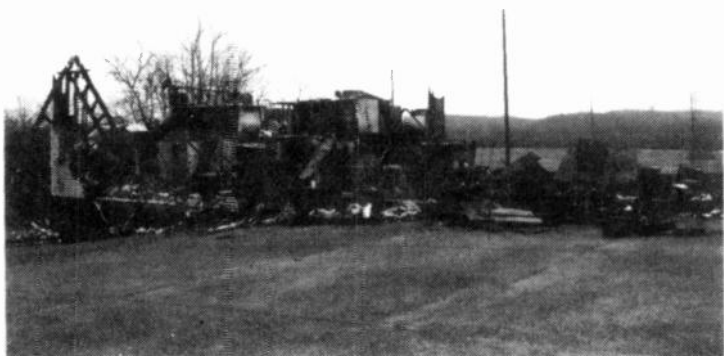
Rear of the station.



A view of what was left of a transmitter.



Other views of the disaster.



NASWA Awards

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 Compuserve 71570,411



Howdy! I just returned from an eleven-day field trip to Acadia National Park, Maine, with a dozen students and am up to my behind in work both at home and at the University. But summer is here, and it looks like I will have a bit of time for radioing and consumption of golden beverages, plus a fishing trip or two for good measure (see, there are a few non-radio things that can be done with your time). We had quite a bit of award activity this time with 13 states and two countries represented. Fred Baines and Marina Pappas will each be erecting four NASWA greens on their radio room walls and Paul Buer will be proudly showing off his Master DX Centurion Award to all that will look. Steven Lare somehow managed to round up a Round the Clock DXer award with all the stations heard and verified on New Years Day--Steve is a master at new twists! We also had a lot of endorsements this time, indicating that a lot of folks are staying with it even after the basic requirements for the award have been met. And as promised, the NASWA Tropical Band DXer Awards country list is at the end of the column. Wadda month! Here are the latest folks to be covering the cracks in their walls with NASWA green:

Mark Anderson	Ecclesiastic DXer
Fred Baines	Worldwide DXer
	European Senior DXer
	Ecclesiastic DXer
	International DX Listener
John Brown	International DX Listener
	All VOA DXer
	Ecclesiastic DXer
Paul Buer	Master DX Centurion
	Ecclesiastic-50 station endorsement
Michael Fanderys	Senior Time Station DXer
Jim Galgano	Ecclesiastic DXer
Anthony Scott Helm	QRP-25 kW endorsement
	Ecclesiastic-30 station endorsement
Vern Hyson	Australian-10 station endorsement
	All American-25 station endorsement
Stephen Jarvis	Ecclesiastic DXer
	DXer de Pacifica
Jerry Klinck	Senior Papua New Guinea DXer
Ben Krepp	Australian DXer w/10 station endorsement
	Asian DXer w/30 station endorsement
Rick Krzemien	African Continental DXer
	Master Pacific DXer
Steve Lare	Round the Clock DXer
Ernest Lawrence	DX Centurion
Marina Pappas	International DX Listener
	Ecclesiastic DXer
	All American DXer
	Maple Leaf DXer
Barry Schwartz	Round the Clock DXer
	Senior Radio Moscow DXer
John Sgrulletta	Senior Papua New Guinea DXer
	All VOA-18 site endorsement
Harry Smith	All American DXer
	Pirate-25 station endorsement
	Ecclesiastic-45 station endorsement
Elliot Straus	European Senior DXer

FEATURED AWARD OF THE MONTH

The Tropical Band DXer and the Senior Tropical Band DXer Awards are tough ones to get: tough because all stations heard have to be below 6000 kHz (and the station power and propagation problems of these low frequencies make a real challenge); tough because most countries operating in these bands are "locals" and often not interested in QSLing; tough because not many stations in the tropics broadcast in English; tough because you have to verify 50 countries for a Tropical Band DXer Award and 75 for a Senior Tropical Band DXer Award(!); but mainly tough because most radio folks have little idea which countries count and which do not. Well, I can't help with the propagation or the language, but I can provide you with THE definitive list of countries that count. The following list was chiefly the work of Robert Landau and Paul Buer, members of the NASWA Awards Committee. I hope it helps you with your hunting!

NASWA TROPICAL BAND DXer AWARDS

1. Countries Completely Between The Tropics of Capricorn and Cancer

AFRICA

Anglo-Egyptian Sudan (Sudan)
Angola
Ascension Islands
Belgian Congo (Katanga)(Zaire)
Belgian Congo (Rep. of the Congo)(Zaire)
British Somaliland (Somali Dem. Republic)
Cape Verde
Comoros (Mayotte)
Ethiopia
Fernando Poo (Equatorial Guinea)
French Cameroon (Cameroon)
Fr. Equatorial Africa (Oubangi-Chari)
(Central African Republic)
Fr. Equatorial Africa (Chad)
Fr. Equatorial Africa (People's Republic of .
the Congo)
Fr. Equatorial Africa (Gabon)
French Somaliland (Afars and Issas)
(Djibouti)
French Togoland (Togo)
French West Africa (Dahomey)(Benin)
French West Africa (Guinea)
French West Africa (Ivory Coast)
French West Africa (Niger)
French West Africa (Senegal)
French West Africa (Upper Volta) (Burkina
Faso)
Gambia
Gold Coast (Ghana)
Italian Somaliland (Somali Democratic
Republic)
Kenya
Liberia
Nigeria
Nigeria (Biafra) (Nigeria)
Northern Rhodesia (Zambia)
Nyasaland (Malawi)
Portuguese Guinea (Guinea-Bissau)
Reunion
Rio Muni (Equatorial Guinea)

Ruanda-Urundi (Burundi)
Ruanda-Urundi (Rwanda)
Sao Tome
Seychelles
Sierra Leone
St. Helena
Tanganyika (Tanzania)
Uganda
Zanzibar (Tanzania)

ASIA

Aden (Democratic Rep. of South Yemen)
(Yemeni Republic)
Andaman & Nicobar Islands (India)
Bali (Bali, Indonesia)
Borneo (Kalimantan, Indonesia)
British North Borneo (Sabah, Malaysia)
Brunei
Celebes (Sulawesi, Indonesia)
Ceylon (Sri Lanka)
French Indo-China (Democratic People's Rep.
of Vietnam)
French Indo-China (Rep. of Vietnam) (Dem.
People's Rep. of Vietnam)
French Indo-China (Cambodia)
French Indo-China (Laos)
Goa (India)
Hong Kong
Java (Jawa, Indonesia)
Lesser Sunda Islands (Nusa Tenggara,
Indonesia)
Malaya (Malaysia)
Maldives
Malucca Islands (Maluku, Indonesia)
Phillipines
Portuguese Timor (Timor Timur, Indonesia)
Sarawak (Malaysia)
Singapore (Malaysia)(Singapore)
Sumatra (Sumatra, Indonesia)
Thailand
Yemen (Yemeni Republic)

NORTH AMERICA

Antigua
Barbados
Bonaire (Netherlands Antilles)
British Honduras (Belize)
Canal Zone
Costa Rica
Cuba
Curacao (Netherlands Antilles)
Dominican Republic
El Salvador
Grenada
Guadeloupe
Guatemala
Haiti
Honduras
Jamaica
Martinique
Montserrat
Nicaragua
Panama
Swan Island
Trinidad
Turks and Caicos Islands

OCEANIA

Admiralty Is. (Papua New Guinea)
Bougainville Is.
Commonwealth of the Northern Marianas
Cook Is.
Fiji Is.
Gilbert Is. (Kiribati)
Guam
Hawaii
Marshall Is.
Netherlands New Guinea (Irian Jaya,
Indonesia)
New Britain (Papua New Guinea)
New Caledonia
New Guinea Territory (Papua New Guinea)
New Hebrides (Vanuatu)
New Ireland (Papua New Guinea)
Papua Territory (Papua New Guinea)
Solomon Is.
Tahiti
Tonga
Western Samoa

SOUTH AMERICA

Bolivia
British Guiana (Guyana)
Colombia
Ecuador
French Guiana
Galapagos
Peru
Surinam
Venezuela

2. Countries Partially Between The Tropics of Capricorn and Cancer

AFRICA

There are no acceptable transmitter sites in:
Algeria, Bechuanaland (Botswana), Egypt,
Libya, South Africa

These countries have acceptable sites:

Fr. West Africa (Mali) - Site: Bamako

Fr. West Africa (Mauritania) - Site:

Nouakchott

Madagascar - Sites: Antanarivo, Talata /
Volondry

Mozambique - Site: Beira

So. Rhodesia (Zimbabwe) - Site: Gweni

South West Africa (Namibia) - Site: Windhoek

ASIA

There are no acceptable transmitter sites in:
India (E. Pakistan) (Bangladesh)

These countries have acceptable sites:

Burma (Myanmar) - Site: Yangon

China (People's Rep. of) - Site: Canton

China (Taiwan) - Site: Kaohsiung

India - Sites: Bombay, Bangalore, Madras

Oman - Sites: Masirah Is., Thumrait

Saudi Arabia - Site: Jeddah

NORTH AMERICA

There are no acceptable transmitter sites in:
Bahamas

These countries have acceptable sites:

Mexico - Sites: DF, Huayacocotla, Merida,

San Luis, Potosi, Cd. Mante

OCEANIA

These countries have acceptable sites:

Australia - Sites: Darwin, Katherine, Tennant
Creek, Brandon

SOUTH AMERICA

There are no acceptable transmitter sites in:
Argentina, Chile, Paraguay

These countries have acceptable sites:

Brazil - Sites: Minas Gerais, Bahia DF, Goias,

Mato Grosso, Most of Mato Grosso do Sul,

Parana (Londrina, Maringa, Paranavai, Nova

Esperanca) Sao Paulo (except for city)

Listener's Notebook

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ANGUILLA - Dr. Gene Scott said the equipment for the first phase of his SW station has cleared customs on Anguilla. One University Network engineer was on Anguilla 5/7; a crew from University Network in Glendale, CA, was scheduled to go to Anguilla to help with setup and testing. A second-hand curtain antenna has been purchased from another SW station (?EBC) for use on Anguilla. A second 100 kw SW transmitter is on order. (University Network 5/7 via mf) [The speculation here is that WPCR has lease-purchased the original second Anguilla SW transmitter, which had been sitting at the Dallas factory.--mf]

ANTARCTICA - The decision to return the U.S. station at McMurdo Sound to 6012 kHz had not been taken as of April. (Andy Sennitt on RNMN 5/13) If AFAN does return it may be short-lived. There is a push to reduce the impact of HF transmitters at various Antarctic bases. Continuous carrier transmissions are at the top of the list. Radio frequency interference is becoming a real problem at U.S. bases, especially with the increase in experiments with gear sensitive to high near-field RF energy. There is no reason for keeping the station on the air, since the South Pole station and outlying field camps rarely listen to it. McMurdo has its own FM station and a large cable TV network. If it hasn't already happened, the plug will be pulled soon. (Brent Jones, Antarctica, on RNMN 5/13)

AUSTRIA - Wolf Harranth, producer of *Kurzwellen Panorama* on *R. Austria International*, has been created a professor by an unnamed Vienna university. In addition to being an ORF contributor for 30 years, he has been an author, translator, and vice-president of the International Institute for Children's Literature. (JM on RNMN 5/20)

AUSTRALIA - Per RNMN interview of Hugh MacKenzie, Director of *Australian Armed Forces Radio*, they have left Darwin-17900 and now broadcast as follows: to Somalia at 0300 (live) on 19037.5, 0900 on 25322.5 and 1400 on 13508.5, all via 40 kw SSB transmitter at Harold E. Holt [sp?] Naval Base in northwestern Australia [where?]; and to Cambodia at 0300 (live) on 23678.5, 0900 on 20418.5 and 1200 on 12070.5, all 40 kw SSB from the Belconnen transmitter site near Canberra. I've tried them all, and can hear only 12070.5 which was putting in a nice signal at 1215 on 5/15. Also brd on 5/16 with a test tape at 1158, program opening 1202, music, news, messages, etc. with McKenzie himself at the mike this day, close 1302° with the observation that they were hoping to extend their broadcast hours. In the RNMN interview, McKenzie said to send rpts to him at Dept. of Defense, EMU [Electronic Media Unit], ANZAC Park West, APW 1/B/07, Reid, ACT 2601, Australia. In the past they have asked for two IRC's and a self-addressed envelope for QSL, and verified quickly. This would be a bona fide new "station," since they now appear to be using distinct, non-RA transmitter sites. (Berg) Verification signer is A. Patubury. (Kusalik NU via 11J)

AUSTRIA - *R. Austria International* conducted a series of tests of compatible single-sideband on 9880 kHz between May 9 and 29. The transmissions were beamed to North America from 0000-0300. Ordinary AM was broadcast on odd-numbered days. Compatible sideband, USB, was broadcast on even-numbered days. Comparative reports were wanted; the address is: Radio Austria International, North American SSB Comparison, Frequency Management, A-1136 Wien, Austria. The fax number is 43 (1) 8787 82773. (RNMN 5/6)

AZERBAIJAN - *The Voice of Azerbaijan's European Service* is now heard

better in Europe, with English at 1700 daily on 15240 kHz. Azerbaijan has also asked for an exchange of programs with the VOA. (JM on RNMN 4/29) 15240 kHz at 1659-1800 in English. (Alexander, FT via IU)

BELARUS - Per sked from the German "Die Antwort" program, R. Minsk carries them at 2030-2100 "MEZ" (1930-2000 UTC? 1830-1900?) on 1170, 7210, 9685 and 11960 kHz. (Berg)

BELGIUM - R. *Vlaanderen International* has made more freq changes. The transmission to the Middle East and East Africa at 1600-1700 has moved from 15540 to 15545 kHz. On weekdays at 0930-1130 at 15600-1700, Sun from 0700-1130 and 1230-1700, RVI has moved from 17540 to 17515 kHz. (Paul Brems, Brussels, and Andy Sennitt on RNMN 5/20) RVI also has a new fax number, 32 (2) 732-6295. RVI will also hold an open day on Aug. 21 at their Brussels studios. (JM on RNMN 5/20)

BOLIVIA - R. *Metropolitana*, La Paz, 6195 kHz, is the AM affiliate of TV Popular, Channel 5, La Paz, which has 76 translators and may be Bolivia's biggest TV net. Its ID is "Radio Metropolitana, La Voz del Pueblo." Reception reports should be addressed to the parent company, Radio Television Popular. It has two addresses: Calle 1 del Arriba 1527, La Paz, or Casilla 8704, La Paz. The fax number is (591)2-356785. Adolfo Paco Flores, coordinator-general, signs [and issues?] QSLs. (Nobuyoshi Aoi on RJMR 4/18)

R. *Pio Doce*, Siglo Veinte, 5955 kHz, was heard in Japan in late March with fair signals. Siglo Veinte is a mining town in central Bolivia. R. Pio Doce went on the air in 1959 and broadcasts in both Spanish and Quechua. Its ID's are "Una emisora orientada del Pueblo, R. Pio Doce" and "Pio Doce, una companera permanente." It is known as a poor QSLer, probably because of its remote location. (Nobuyoshi Aoi on RJMR 4/18) [WRTH 93 says 5948.7 kHz and gives the mail address as Casilla 434, Llallagua, Potosi, *not* Siglo Veinte.--mf].

Radio 9 de Abril, 3200 kHz. Noted on as late as 0200 on UTC Sunday. (HJ) Id text is: *Desde Pulayco, pionero ... , transmite 9 de Abril pensando en nuestro territorio nacional, transmitiendo la voz del trabajador industrial, operando en 3200kc en banda internacional de 93 metros, Pulucayo, Potosi, Republica de Bolivia.* (Relampago DX via Play Dx via HJ)

Radio Charcas, 3300 kHz, is inactive. (ibid)

Radio Viloco, 3340 kHz, schedule is *1000-1300* and *2300-0100*. (ibid)

Radio 27 de Diciembre, 3350.1 kHz, is inactive until they receive new tubes. Power

is 100 watts and the QTH is: Calle Mendez Arcos No 171, Villamontes, Departamento de Tarija. Schedule had been *2200-0200*. (ibid)

Radio Florida, 3370 kHz, not heard while staying in Santa Cruz. (ibid)

Radio Cumbre, 3380 kHz, has been inactive for quite some time. (ibid)

Radio Emisoras Camargo, 3390 kHz, has been heard around 2315 with program *Recordar es Vivir*, but its morning transmissions are untraced. (ibid)

Radio Pudilla, 3478 kHz, has been on the air without official permission since its inception. (ibid) Heard here in USB plus carrier at 0015 UTC in early May. (HJ)

Radio Emisoras 20 de Diciembre, 3737 kHz, is inactive. (Relampago DX via Play DX via HJ)

Radio 20 de Septiembre, 3754 kHz, seems to be inactive. (ibid)

Radio Enterrianus, 3884.9 kHz, has been shutdown. (ibid)

Radio 11 de Octubre, 4183.4 kHz, heard but not IDed in North America. The station has VOA Spanish news at 0000 UTC. (ibid)

Radio Perla del Oriente, 4211 kHz, seems to be inactive. (ibid)

Radio (Patilla) Internacional, 4441.2 kHz, is perhaps the ID of the station heard here. Programming consists of long blocks of local music with a male announcer on about every 15 minutes or so. Sign off is at 0200. The station might be located in Santa Cruz. Bear in mind that this is a former frequency for the Bolivian station *Radio Santa Rosa*, which has not been heard recently. (HJ)

Radio Movima, 4472 kHz, correct QTH is: Calle Baptista No. 24, Santa Ana de Yacuma, Departamento de Beni. (Relampago DX via Play DX via HJ)

Radiodifusoras Tropico, 4552 kHz. The station's schedule is 1000-1200, 1600-1830 & 2230-0100 (Sa -2400/Su -2230). This station was founded on November 18, 1969 on 3220 kHz with 1 kW power. This was later changed to 4775 kHz for technical reasons. The shortwave operation on 4775 kHz was suspended in 1978 due to transmitter failure. As Trinidad is located in the center of the Bolivian Amazon Basin in the Department of Beni where there are many small villages and communities scattered where the people do not have any means of communication such as telephone, telegraph, etc., it was decided to resume shortwave transmissions with new equipment in 1991. A shortwave transmitter was purchased and it started operating on December 1, 1991 with 1 kW power. In 1992, a charitable institution in Belgium offered a new shortwave transmitter ("CONTEL" brand of 3 kW power) for the station. So the station operates on 4552 kHz with both stations case by case. (ibid)

Radio Emisoras Villamontes, 4599.7 kHz. The station's schedule is: 0900-1730, 1900-2400 (Su 0900-1700 only). Morning programs include *Amanecer Chaqueno* prior to 1000 then *La Hora Chaquena*, a program of local folklore and information for campesinos and ganaderos. At 1100 there is *La Hora del Pais*. This new station was officially named *Radiodifusora Villamontes* when it was inaugurated on February 12, 1990. They now identify themselves as *Radio Emisoras Villamontes*. At first, they transmitted on 4600 kHz (nominal 4650 kHz with 1 kW power.) They do not have a license. The shortwave transmitter was constructed in Santa Cruz, based on the old shortwave transmitter of *Radio Sararenda*. (ibid)

Radio Perla del Acre is scheduled 0900-0300 (Su 1000-0100) on 4600 kHz. The station's slogan is *Perla del Acre, la gran frecuencia de Pando*. (ibid)

Radiodifusora Muchupo heard until 0141* on 4625.7 kHz. Id text is *Sintoniza Ud. a Radiodifusora Muchupo, La Voz de San Ramon, que transmite de la banda internacional de 60 metros, onda corta, desde San Ramon, Departmeto de Beni, en la Republica de Bolivia*. (ibid)

Radio Libertud, 4808 kHz, is inactive. (Wilkner DXSF via IU)

Radio Centenario, 4855 kHz, uses the slogan *Radio Palabra - "the word"* (Tambuzzi, Play Dx via IU)

Radio (La Palabra) ?, 4903.9 kHz. Unidentified religious station heard here closing down around 0045 UTC. (Klemetz Play DX via HJ)

Radio Illimani has reactivated on 4944.5 kHz. Id as *Radio Illimani, La Voz de Bolivia*. Inactive since last December as it was moving its studio and offices. Not confirmed yet on 49 meters. (Relampago DX, via DXSF via IU) It has returned to its nominal frequency of 4945 kHz as of 5/15. (HU)

Radio Pio XII on new 5953.8, a slight move from 5948.7. (Ekwall, LA-Horighetslista via Play-Dx via IU)

Radio Nacional de Huanuni, 5964.7 kHz. The program at *0900 is *Amanecer Bolivia*. (Relampago DX via Play DX via IU)

Radio Santa Cruz, 6135 kHz. The morning program at *0903 is *Campesino Tierra y Surco*. (ibid)

Radio Metropolitana, 6194.5 kHz, has been heard in the evenings as late as 0145 since 3/28. (Krueger, DXSF via IU) This station bought the 10 kilowatt transmitter of the former *Radio Stentor* and started using it in 1987 but was forced to shut down due to spurious emissions. A new transmitter of the same power was constructed and that is what we are now hearing. (Relampago DX via Play Dx via IU)

BONAIRE - When *Trans World Radio* goes off shortwave on June 30, the remaining 800 kHz operation probably will not use QSL cards, although reception reports will be verified. Chuck Roswell was the champion of QSL cards at TWR Bonaire, and he is being reassigned to TWR Monte Carlo. (McDaniel Phillips on DXPL 5/15)

BRAZIL - *Radio Por Um Mundo* 4855 kHz heard at 0900 UTC. Reactivated. (Pontenele Boletim Atividade DX via Play DX via IU)

Radio Clube Rondonopolis, 4955 kHz, heard at 0922. Reactivated. (ibid)

Radio Cuncao Nova, 9675 kHz, was heard with an English announcement stating that they "preach gospel to everybody". An address different than the one in the WRT11 was also given: P.O. Box 15, (zip) 12630, Cachoeira Paulista. (Al Quaglieri, ANARC SWL Net via IU)

BULGARIA - The following is from the latest schedule received from *Radio Bulgaria*. It's a fold out, glossy schedule with an advertisement for Balkan Holidays.

"**RADIO BULGARIA - YOUR FRIEND ON THE AIR.** Just tune in and you will get up-to-the-minute information on everything taking place in Bulgaria.

"Radio Bulgaria broadcasts 50 hours a day in 12 different languages. Since the start, back in 1936, it has been our goal setting requirements that "broadcasting policy" is synonymous to "listeners' wishes". If you have any doubts just take your time and write to us. Once on our mailing list, you will regularly receive updated broadcasting and feature schedules, tips on better reception and various other materials issued by Radio Bulgaria. Quizzes, competitions and games will also be part of your listening experience with us.

"Radio Bulgaria - a winning choice!"

The English schedule for April - September 1993 is: 0000-0100 on 11720, 15330 and 17825 kHz; 0300-0400 on 9850 and 11765 kHz; 1030-1200 on 13670, 17660 and 17830 kHz; 1730-1900 on 11720 and 13670 kHz; 2000-2100 on 11720 and 15330 kHz; 2145-2315 on 11720 and 15330 kHz. (D'Angelo)

R. Varna's second program, which promotes the Black Sea coast as a tourist resort, appeared on 6235 kHz during the winter. This transmitter is part of the R. Bulgaria External Service. R. Varna II also broadcasts on 774 kHz MW and 103.4 MHz FM. The MW transmitter is a Czech Telstar 30 kw. unit. The East European FM band freq of 69.41 MHz is silent. Maya Vasileva of R. Varna's press office says the station expects to increase its air time in the near future. It will also introduce a new program called 'Far' on

11660 kHz, also used by Bulgarian National Radio. [No time given.--mf] The present English program, 'Horizon for You' will be heard [on 6235?] from 2200-0100. An information and music program will be aired daily from 0400-0700 and 1300-1600. A business program is scheduled from 0700-0900. A nationwide program for all Bulgaria [in Bulgarian] will be aired from 0900-1000 and 2200-0100. (Nobuyoshi Aoi on RJMR 5/24) [No explanation of time conflict. 'Horizon for You' winter sked was *1800*. --mf]

CAMBODIA - Martin Hadlow, former head of the *Solomon Islands Broadcasting Service*, has been in Cambodia for some time organizing the United Nations broadcast facilities there. UNTAC recently began operating three 25 kw regional stations at Siemreap (539 kHz), Siong Trin (650 kHz), and Kompongum (720 kHz). (AC and JM on RNMN 4/29)

The *Khmer Rouge Voice of the Great National Union Front* is well heard in Sri Lanka on 5408 kHz, a very stable freq. Signals are very good from 1200-1400* (formerly 1500). (VG on RNMN 5/20) BBCM notes EE at 0100 and 1300 Thurs only. (JM on RNMN 5/20) These are the transmitters of the former *Voice of Democratic Kampuchea*, one in South China and one in Thailand. Both have been moved to Khmer Rouge territory inside Cambodia. (Tim Carney, UNTAC broadcast chief, on RNMN 5/20)

The Japanese charitable donation of 250,000 (used?) radios to help with the May 23 election process created problems for troops assigned to distribute them. A truck with radios on board could not leave one base until an UNTAC translator was flown in to plead with the crowd blocking the gates. Another commanding officer found his (\$2500) computers were being kidnapped one at a time. The ransom? 20 or 25 radios. (RNMN 5/20)

Several U.S. Congressmen from both parties were in Cambodia in early May, conducting seminars to show Cambodian candidates how to be effective campaigners on radio and TV. (Tim Carney on RNMN 5/20)

When the Royalist party tried to set up its own TV station earlier this year, the existing government confiscated the gear, which was released only when the UN intervened. (JM on RNMN 5/20)

CAMEROON - *Radio Buea* heard on 3970 kHz at 0450. With regard to the recent logs of Radio Enugu, Nigeria it is possible, per a friend at CRTV, that Buea on occasion is pulling on-air feeds from Nigerian stations. (Sharp, DXSF via HJ) What we heard on 3970 kHz was in French. I would be ready to

believe that this is a feed from Enugu by Buea, but one thing still bothers me: reception on 3970 kHz was unusually strong in April - as if this were a new transmitter (and therefore maybe from a different site). Also, weren't the time periods in which 3970 kHz was parallel to 6025 kHz in excess of an hour? The only thing I can think of is that Buea may have been experiencing some studio problems preventing them from producing or feeding local Cameroon programs. (Sams, FT via IJ) 3970 kHz is listed as a test frequency for Radio Enugu in the 1993 WRTH. (HJ)

CHINA - *Honghe People's Broadcasting Station*, 4930 kHz, address is Honghe PBS, Jiangshe Donglu 32, Gejiu City, Yunnan Province. (Berg, FT via IJ)

The English name for CPBS (Chinese People's Broadcasting Station) was changed 5/1 to *China Radio International*. (WBI 5/14)

C.I.S. - A few more words on the problem of QSLing Radio Moscow sites. Since my previous muse I have seen Radio Moscow assignments for the summer period. All frequencies used within the ex-Soviet republics are reported to the IFRB in Geneva by Moscow. However, some of the republics no longer are mentioned by name despite the fact that their transmissions are included. This has been the case for the Baltic republics since last year, and now also includes Georgia and Azerbaidzhan. Thus, Tallinin-Laitse 5925 kHz is listed as Kingisepp (in Russia), Riga-Ulbroka 5935 kHz as Kaliningrad, Kaunas-Sitkunai 6100 kHz also as Kaliningrad and the same on 9710 kHz as Konevo (in Russia). The correct sites (per WRTH 1993) have been confirmed by the local authorities and/or by on-site inspection. Azerbaidzhan: Gyandzha 6110 kHz is now listed as Volgograd, 6135 kHz as Armavir. Baku 6195 kHz is also listed as Armavir now. Here the actual locations have been confirmed by the Azerbaidzhani authorities and by monitoring. No assignments listed as Tbilisi are included any longer, but a couple of transmissions that normally originate from Tbilisi are listed as Armavir. (Alm Dx'ers Calling via IJ)

COLOMBIA - *Radio Patria Libre*, 5835 kHz, at 0115 with reduced signal. Transmitter problem or reduced power. (Gaviria Play DX via HJ)

The following stations are inactive: 3500 kHz, *La Voz del Guainia*; 4925 kHz, *Meridiano 70*; 5873 kHz, *Radio San Jeronimo*; 6016 kHz, *Radio Mira*. These are are irregular: 4785 kHz, *Ecos del Combeima*; 4978 kHz, *Ondas del Orteguzza*; 5020 kHz, *Ecos del Atrato*. (ibid)

CONGO - *Radio Congo*, 4765 kHz, has reactivated, having been heard signing on at 0400. (Hausie, ANARC SWL Net via IJ)

COSTA RICA - *Radio Neg Mawon* via RFPI 15030kHz stated in a verification letter: "We apologize for taking so long to respond. . . We are a small radio collective, made up of Haitians and North Americans. We are deeply committed to the restoration of democracy in Haiti and hope our programming can further the Haitian people's struggle. As you know, all independent radio stations in Haiti were closed after the coup, making it imperative that we continue to provide news to the people of Haiti". (D'Angelo, FT via HJ)

R. Exterior de Espana's Costa Rican relay is making it into Europe in the early morning on 4775 kHz. (Marcel Roberts, Holland, on RNMN 5/6) [Not heard here in CA; Noblejas on 6055 is even superior to Costa Rica on 5970 at the moment. Maybe I need a new antenna.--mf] *Adventist World Radio*, Cahuita, is also heard in Europe at 0600 on 13750 kHz when Israel is silent on Fridays. (Marcel Roberts, Holland, on RNMN 5/6)

CROATIA - *Croatian Radio* has moved from 6145 to new 5920 kHz, where it operates 24 hours. (DX Antwerp BBS, via Andy Sennitt on RNMN 5/6) Zagreb on 1134 kHz carries the daily *UnProFor* program in Croat at 1930. (Marius Remsen and Guido Schotmans, via Andy Sennitt on RNMN 5/6)

CUBA - *Radio Havana Cuba* has three SSB transmitters in use, all formerly in long distance telephone service. Response to the SSB tests has been good, but schedules have been cut back somewhat since a severe storm hit the island on 3/13. SW services have been cut 25% overall because of the oil shortage. A mail forwarding scheme started by a Canadian SWL does not have *R. Havana Cuba's* sanction. (JM and Arnie Coro on RNMN 3/7)

Radio Havana, 6180 kHz, noted airing DX'ers Unlimited at 2248 on a Saturday. (IJ)

CZECH REPUBLIC - Following up an item on 5-13 RNMN that there is a German stn, *Radio Ropa Info*, testing on 5980 kHz here via a Czech transmitter at 0300-2300, hrd on 5/13 at 2200 with buiding signal, pretty good by 2230. Light English pops, fairly lengthy German ID's in between, giving address as P.O. Box 5568, Daun, Germany. This is a longwave/satellite stn that is testing on SW for 4-6 weeks. Off 2257° in mid-sentence. Also hrd arnd 0330. (Berg)

The station hires 11 hours a day on the 261 kHz transmitter at Burg in East Germany. It has been testing on 5980 kHz via the Czech Republic from 0300-2300 and asking for

reception reports to: R. Ropa Info, P.O. Box 5568, Daun, Germany. Live programs are broadcast 1000-1100 and 2100-2200. Tests will cease after four to six weeks. Also heard as R. Ropa Info, Hamburg, on 5975 kHz late 5/11. (Ehart Verdeyn, RNI, and JM on RNMN 5/13)

DOMINICAN REPUBLIC - *Radio Quisqueya* is the correct name for the station on 6205 kHz. V/s is Gregory Castellanos Ruano, Director. Address is P.O. Box 135-2, Santo Domingo. Power is 700 watts. (Berg, NU via IJ) Thanks to Finn Krone for figuring out correct name on this one. (D'Angelo, NU via HJ)

ECUADOR - *Radio Paz e Bien*, 4819.7 kHz; the program at *1000 is *Amanecer con Dios*. (Relampago Dx via Play DX via HJ) Power is 1.5 kW using dipole antenna. (DX'ers Calling via HJ)

La Voz del Upano heard testing on 4870 kHz 4/17 at 0230. (JPP, Play DX via HJ) Heard here around 0100 UTC in late April. (IJ) Perhaps the old Radio Rio Amazonas transmitter. (Klemetz DX Daily via HJ)

Radio ERPE has reactivated as of 5/15 on 5011.3 kHz. Iding as Radio Fonicas. (IJ)

EL SALVADOR - *Radio Venceremos* confirmed in a letter that it is off of shortwave but plans to return to the 40 meter band in the future. (PL, DSWCl via IJ) For those having trouble getting this one verified, a new address to try is: Sr. Jose A. Albararo, Scharnhorst Strasse 6, D 5000, Cologne 60, Germany. (Schnitzer, Play Dx via IJ)

ERITREA - *The Voice of the Broad Masses of Eritrea* is being heard well in Sri Lanka on 7380 kHz from 1430-1700. The music is very listenable. (VG on RNMN 5/20) Eritrea formally attained independence at midnight 5/24. (BBC Newsdesk 5/24)

FIJI - *R. Fiji 3*, Suva, 1089 kHz, 1 kw, is being heard in New Zealand with difficulty; BBC News in English at 1100. (AC on RNMN 5/6)

GERMANY - *Deutsche Welle* marked its 40th birthday on May 3. It began broadcasting in German only with a 20 kw transmitter. It now has 90 hours of programs a day in 35 languages. Plans for major cuts were announced 4/17. DW will take over the European service of Deutschlandfunk (mostly MW), on July 1, increasing DW's language capability to 40. 40 languages seems to be too much for DW's facilities and its financial grants. DW's directors and supervisory board are discussing now many languages DW really needs and now many it can afford. The supervisory board thinks 25 plus or minus two

should be sufficient. The final choice has not been made. DW considers 13 languages essential, among them German, English, Spanish, Portuguese, Hausa, Swahili, Hindi, Urdu, Chinese, Indonesian, Russian. Debates on the second 13 were continuing in late April. Cuts won't be made immediately because German labor law prevents sudden reductions in force. So cuts may be made slowly in the next five years. DW believes TV is the medium of the future, that whoever watches TV doesn't listen to the radio. So DW is planning a 24H worldwide TV service. DW is not giving up SW because it is the one medium needed whenever crises arise. But it regards satellite distribution to local stations as much more important because of signal quality at the listening end. DW's current budget is DM 600 million, 350 million for DW, 120 million for RIAS [Rundfunk im Amerikanisch Sektor, Berlin] and yet more for Deutschlandfunk. DW knows it will not be able to keep that budget forever, so austerity measures have been announced. The total of DM 550 million for DW and DW-TV will remain constant in the foreseeable future. (?Wolfgang Parnas, DW, and JM on RNMN 4/29)

Deutsche Welle will have a new address after July 1: Deutsche Welle, D-50588, Cologne. The postal code is dedicated; no street address is necessary. (RNMN 4/29)

GREENLAND - Although no longer on shortwave, *Kalaallit Nunaata Radioa* recently verified an old reception report from when they were still on the air. (Sams, FT via HJ)

GUATEMALA - *Radio Chortis* heard with the program "Amanecer Campesino" at 1158 on 3380 kHz. (Sejimo Radio Nuevo Mundo via DXSF via HJ)

HONG KONG - *Trans World Radio Station (Far East)* is being sued by the Anglican Bishop of Hong Kong and Macau for unpaid rent and rates. The station, which spreads the word of God over the airwaves to China, fears they will have to leave their home. According to one member of the station, the station will be evicted unless it can come up with the money. (South China Morning Post Weekly (Hong Kong), May 1-2 via Scott Edwards via HJ) Does anyone have any further information on this station? I could not find any information on it in the WRTH 1993. (HJ)

INDONESIA - The following stations changed sign on time during Ramadan: 3214.8 kHz, *RRI Manado*, *1755-; 3264.8, *RRI Bengkulu*, *1800-; 3265.7 *RRI Gorontalo*, *1755-; 3345 *RRI Ternate*, *1750-; 3987 *RRI Manokwari*, *1755-; 3995 *RRI Pontianak*,

*1800-; 4000 *RRI Kendari*, *1855-; 4606.3 *RRI Serui*, *1655-; 4753.6 *RRI Ujung Pandang*, *1850-; 4789.6 *RRI Fak Fak*, *1800-; 5055.4 *RRI Nabire*, *1755-. (Yamada via Hyson via HJ) Rather late but will be helpful for next year. (HJ)

INTERNATIONAL WATERS - *R. Brot*, 720 kHz, broadcasting to ex-Yugoslavia off the southern Italian coast, seems to be using its full 50 kw at night, sometimes overriding three low powered BBC Radio Four transmitters. Best reception is around 1930. (Marcel Roberts, Holland, on RNMN 5/6)

IRAN - *The Voice of the Liberation of Iran*, a pro-monarchist station, began broadcasting in 1983. Between 1987 and the winter of 1993, it identified as "Kaviani Banat" or "Iran's Flag of Freedom Radio." All of the programs have been in Farsi, except for ID's in English. The Flag of Freedom Radio's IS has popped up on 9350 kHz at 0228 where it interferes with WCSN, Scotts Corners, ME. WCSN also dominates the channel in Europe at that hour. The station's slogan is now "Voice of Human Rights and Freedom for Iran." The current sked is: 0228-0425, on 9350 and 11470 kHz; from 0645-0730 on 11470, 15100, and 15670 kHz; 1400-1445 on 9250 [as heard] and 15100 kHz; 1630-1825 on 11470, 15100 and 15675 kHz. Best reception in Europe is at 1629 on 15100 kHz when the ID is in three languages including English. The transmitters are thought to be in Egypt. The station puts a good signal into Sri Lanka but is heavily jammed. The 31m freq varies from day to day. (Tom Sundstrom and Victor Goonetilleke on RNMN 4/22)

Baghdad's home service is playing a cat and mouse game on 4600 kHz, changing freq up and down to avoid heavy jamming. It is heard in Sri Lanka from *1300-0030. (VG on RNMN 4/22)

IRAQ - *Voice of Human Rights and Freedom in Iran*, 15100 kHz. Id in Farsi is *Seda-ye Hquq-e Bashur wa Azadi-ye Iran*. (WBI, via DSWC1 via HJ) An address for the station is: Sazeman Derafsh Kaviani P. O. Box 103, DK-2670, Greve, Denmark. (Pavanello, Play Dx via HJ)

IRELAND - The clandestine *Northern Ireland Relay Service*, which broadcast programs for several organizations, has learned that its secure transmitter site will be sold at the end of May. The new owners don't share promoter Andy Craig's interest in radio transmissions. (RNMN 5/6)

ITALY - Finn Krone is still doing his weekly show on *Adventist World Radio*, Forli; the last Sunday of each month is BCB news by

Graham Bennett. The broadcasts are recorded Friday morning and broadcast at 0645 Sun on 7210 and 0945 Sun on 7230 kHz. Reception in northern Europe during the summer is a bit unreliable. (FK and JM on RNMN 5/6) Italy

A new Italian private station was heard at 1130 5/13 on 5960 kHz. The station mentioned Casari, a small town 6 km from Salvatore Placanica's home. The name of the station is so far not known. (Salvatore Placanica, and Andy Sennitt on RNMN 5/20)

Radio Italia Internazionale, 7140 kHz, 1 kW. A reply was received from: Vic. Volusio 1, 06049 Spoleto. (Berg, FT via IJ)

Radio Idea, 7380 kHz, can be heard in our evenings. (IJ) Power is 500 watts and a reply was received from the following address: P. O. Box 38, 16030 Gattorna, Genova. (Berg, FT via IJ)

Radio Europe, 25905 kHz, a new frequency, ex 25900 kHz, heard at 1200. (Monferini, Play DX via IJ) This will clear up 25900 kHz where this station had been interfering with Radio "Neige" from France. (IJ)

JAPAN - *Radio Japan* announced the following frequency changes for its English transmissions of the General Service effective Sunday 5/2 through Sept. 4: 0100-0200, 17810 and 17775 kHz replace 11815 and 17835 kHz; 0300-0400, 17810 kHz replaces 11815 kHz; 0700-0800, 6050 kHz replaces 6170 kHz (via Skelton); 2300-2400, 17810 kHz replaces 11815 kHz. (RJMR 4/18)

R. Tanpa, Nihon SW B/C Co., Tokyo, has *no* plans to give up shortwave in 1997 as reported in Passport 93. The station says it is looking into satellite service for the long term, but will operate in parallel with SW if and when satellite operation starts. (RNMN 5/13)

JIBUTI - *Radio France International* has signed agreements that provide for the construction of an RFI relay here. It is expected to be on the air in two to three years. (WBI 5/7)

KOREA (South) - Two South Korean-sponsored clandestine stations have made seasonal changes in their frequencies. The *Echo of Hope* transmission at 2100-2200 has moved from 3985 to 6348 kHz. (Tooru Yamashita, RJMR 5/16)

The *Voice of the People* announced changes to take effect 5/16. The 2000-2130 transmission on 3912 kHz has been replaced by 2100-2230 on 6600 kHz. (Nobuyoshi Aoi on RJMR 5/16)

Tooru Yamashita of Radio Japan's Korean DX program learned from Masatsugu Honda of Radio Korea's Japanese section on

5/19 that *R. Korea* has dropped plans for a Vietnamese service. (RJMR 5/24)

LIBERIA - The Nigerian-ECOMOG shortwave transmitter in Monrovia, which operated on 7275 kHz, was withdrawn in mid-April and returned to Nigeria to help in educating voters on the registration process for the coming elections in Nigeria. The Monrovia group is said to be planning to purchase a new SW transmitter. Sources in Monrovia report that efforts have been underway to rehabilitate the original ELBC shortwave transmitter in Paynesville, but lack of technical know how is frustrating. (Radio ELBC, via WBI 5/21)

LITHUANIA - Construction of the new *Baltic Radio International*, which plans to broadcast commercial programs to Sweden on 684 kHz, has begun, according to a Lithuanian weekly in Western Europe. The station is expected to take the air this summer. *Radio Vilnius* has been skeptical about the project even though it is supposed to earn the Lithuanian government royalties of \$150,000 a year. R. Vilnius says the trend in Scandinavia is toward commercial radio on FM. (RNMN 5/6)

Radio Vilnius has funding through August. (R. Vilnius via WBI 5/14)

MAURITANIA - *Radio Mauritania*, 4845 kHz. V/s Hane Abou is asking for 2 IRCs for return postage rather than a dollar. (Lok, DSWCI via Play DX via IJ)

MEXICO - *Radio Mexico* heard on 15300 and 17765 kHz in English with 0200*. (Dave, ANARC SWL Net via IJ)

MONACO - *Radio Monte Carlo* may be privatized, according to a member of the new French administration. R. Monte Carlo has been losing audience and has sustained financial losses of \$18 million in two years. A group known as Omnium, headquartered in Morocco, has expressed interest. Some French critics are concerned that the Omnium group might be under the thumb of the Moroccan monarchy. (DXPL 5/15)

MONGOLIA - *Radio Ulan Bator* on 13780 kHz with an interval signal at 1445, 1448 program preview, 1449-1453 news, 1445 press review, signoff at 1513 5/17. QRM from Deutsche Welle in GG. Announced freqs 13780 and 7260 kHz. (BMM (and Brian Johnson, CA, on SW Echo) on RNMN 5/23)

MOROCCO - If all goes well the new VOA relay station here should begin limited operations in late June. The schedule's not available yet, but will be posted to the BBS

(+1-202-619-1494), as well as in FidoNet's Shortwave Echo and Usenet's rec.radio.shortwave newsgroup. Don't expect it to be available before 6/15 and maybe not for a few days after that. [df]

NETHERLANDS - JM: Radio Netherlands' Board of Governors published its paper on the future of Holland's external service 4/28. It's a major step toward defining the station's future mission in quite precise terms. Since 1989 RN has taken on several extra tasks: rebroadcasts in Central and South America, relays via the CIS. (Hans Hoeshnackels) is the Board's chairman. I asked him if RN's services are under threat bearing in mind the current shaky state of public broadcasting in Holland and the rather strange report about the future of RN from the National Media Board (NMB).

HH: This is the new way of reaching your public, I would say. The thing that is indeed causing a problem is that we are all sure that in 10-20 years we will have to use direct broadcasting satellites (DBS). But in the meantime we have to go on with shortwave. DBS are cheaper than SW but if you have to do both, it will become more expensive. That is something we have to take into account because we don't get more money. The report from the NMB was the answer to the question put by the Minister of Culture. We think it was a very unsatisfactory report, and we think that if they can't give a satisfactory answer, it might be a good idea for RN to give the answer itself.

JM: So you've come up with a sort of framework which has to be worked on for a future mission statement.

HH: That is correct. It contains a short mission statement, very general, but it has not worked out priorities. Of course we have priorities now but we think it's a good idea to rethink the priorities. They might come out the same, they might also come out a little different because they had been worked out quite a few years ago. The world has indeed changed a lot.

JM: Is it true that the last time this was looked at in detail was when the radio station was founded in 1947?

HH: To a certain extent, that's true. Although we then started with a much more modest operation, and we have added on to it. But one could say that the public discussion of the subject, Parliamentary discussion for instance, has not taken place since the original days of Radio Netherlands.

JM: Other, larger, European international stations seem to be putting more money into international TV production at the expense of radio. So, where does this leave a middle-sized operation such as RN? We make some TV productions but it's only a fraction of

the total radio output. The Board of Governors is clear that while there may be a way to increase our TV output, by combining some resources with domestic-service colleagues here in Holland, it's pointless dreaming of the huge sums of money that are needed to run a decent 24/7 public TV service. RN intends to keep its focus primarily as an international radio broadcasting service. The distribution media, be it satellite, FM or shortwave, are no longer the limiting factors in many of the English-speaking parts of the world. The key to establishing our niche in the market has to be providing a unique style of programs. The Board of Governors has asked a series of searching questions which now have to be answered internally by the staff at RN. At present, none of the language services is threatened with closure. But, in the next few months, decisions have to be made as to which activities will be cut back and which may even be started up. So when do firm decisions have to be made as to which languages RN will broadcast in?

HH: I think that we have until the end of the year, until the next long-term program that we have to send to the Minister of Culture at the end of this year. Until then, I think that we have time to think about these things.

JM: Is there any indication from The Hague as to how much public money will be allocated to external broadcasting next year? You said that it won't be more, but is there a chance that it could be a lot less?

HH: There is no indication as yet.

JM: The Dutch Minister for Culture, who can decide how much public funds are allocated to RN, will make an official visit to the station at the start of June. (RNMN 4/29)

R. Netherlands added a 31m freq to its midday transmission for Europe on 5/19. 9650 kHz is used from 1130-1325 // 5955 kHz. From May 24 to June 14, Bonaire moved its evening transmission to Africa, 1730-1925, from 21515 to 17655 kHz to permit work on a Bonaire antenna. (JM on RNMN 5/20)

NICARAGUA - *Radio Miskit* on new 5770 kHz, ex 5970 kHz, to 2314°. (Orr, Valko via HJ)

NIGERIA - The Italian government has suspended postal services to Nigeria following alleged theft of mail sent to that country. Other governments have indicated that they will do likewise. A Nigerian official in Lagos said that 646 bags of mail from various countries were believed to have been stolen in Lagos city since January. The government has set up a committee of inquiry. He said France, Germany, Austria, Sweden and Canada have also complained formally to the Nigerian government about mail that has been lost.

The Nigerian spokesman said that first indications were that most of the lost mail had been stolen before it reached Nigeria. (BMM, quoting Channel Africa, on RJMR 4/18)

Radio Enugu, 3970 kHz, see CAMEROON. (HJ)

PERU - *Radio Paucartambo* is a new station heard at 0120 on 4510 kHz. QTH is Jr. Conde de la Laguna 2do piso, frente al Hostal San Jose, Paucartambo, Departamento de Pasco. (Relampago Dx, via DXSF via HJ)

Radio Frecuencia VH, La Voz de Celendin is the id of the station on 4485 kHz. (Klemetz, WRTH NL via DXSF via HJ)

Radio Villa Rica, 4804.5 kHz. Full id is: Transmitiendo Radio Villa Rica desde el corazón de America, Huancavelica, Peru. (Relampago DX via DXSF via HJ)

Radio Tropical, 4935 kHz. The program at *0949 is Amanecer Tropical Andino. (ibid)

Radio Onda Verde, 4944 kHz. The program at *0954 is Ecos folkloricos de mi Peru. At 1100 there is a relay of the program La Rotativa del Aire. (Klemetz, DSWCI via HJ)

Estacion Yurimaguas, 5046 kHz. The morning program at *1000 is Amanecer de la Selva. (Relampago DX via DXSF via HJ)

Radio Vision Dos Mil, 5131 kHz, is using the old transmitter of *Radio Vision* in Juanjui. This is a "Franvel" transmitter LF100 type with 100 watts. Complete ids include: Esta es la nueva senal bambamarquena, en 5131 kHz banda de 60 metros, Radio Vision Dos Mil, la radio de la familia, que transmite desde la beila e historica ciudad de Bambamarca, Cajamarca, Republica del Peru. (Relampago DX via Play DX via HJ)

Radio San Antonio de Padua, 5235 kHz. This unauthorized station was raided by the police. (WRTH LA-NL, Klemetz, via Play-Dx via HJ)

Radio Ritmo, 5602.7 kHz. This is a new station heard signing on at 1100 and signing off at 0300. Station id texts include: Cumbia peruana a traves de Radio Ritmo desde Puerto Maldonado, Peru and Transmite Radio Ritmo desde la ciudad de Puerto Maldonado, Departamento de Madre de Dios, Republica del Peru. (Relampago DX via DXSF via HJ)

Frecuencia San Ignacio, 5699.9 kHz. This is the station's ID, rather than *Radio San Ignacio*. (Klemetz, WRTH LANL, via DXSF via HJ)

Radio Victoria, 6019.8 kHz, is active. Reported by a Dixer in Argentina. (Margenet, Play-Dx via HJ)

Radio Concordia, 6141.2 kHz, also iding as Concordia, la diferente. (Relampago Dx via DXSF via HJ)

Radio Cuzco, 6203 kHz, v/s is Raul Sui Almonte. (Akesso SWB via DSWCI via HJ)

Radio Huancabamba, 6281.7 kHz, heard at 0221* with slogan: Radio Huancabamba, toda musica. (HJ)

Radio Satelite, 6724 kHz, gave their schedule as 2330-0330, using power of 120-150 watts. (Reiner, Play Dx via HJ) V/s is Sabino Llamas Chaves. (Eklblom, SWB via DSWCI via HJ)

Radio Universo Saposoa, 6815 kHz, is located in Saposoa rather than Pandalle and gave the following studio address: Avenida Lima 307, Saposoa. (Klemetz, Play DX via HJ) Remember that this one is UTC Monday evening only. (HJ)

PHILIPPINES - Due to brown-outs and black-outs lasting up to six hours a day in the Philippines, *FEBC* is obtaining a generator to ensure complete shortwave coverage. (HJ)

PIRATE (Europe) - *Radio Stella International*, 11413 kHz, heard around 2300. Also uses 7446 kHz. New address is 82 Pentland Place, Kirealdy, Fife, Scotland. (Baird, DSWCI via HJ) Take care as this Scottish pirate now has a US relay on 7413 kHz. Heard until 2330*. (Zeller NU via HJ)

PORTUGAL - *R. Portugal's* English broadcast to Europe Mon-Fri is at 1800, not 1830. (Tom Sundstron, NJ, and Andy Sennitt on RNMM) *R. Portugal* has added 17595 kHz at 0600-0800 in Portuguese at weekends and from 1000-1200 Mon-Fri, beamed toward East Timor. (Salvatore Placanica and Andy Sennitt on RNMM 5/20)

Radio Renescenca broadcast an announcement picked up by BBCM asking listeners to contact them as a matter of relative urgency if they are tuned on shortwave. (Krone, AWR via Contact via HJ) Hear and verify them while you still can as it sound as though they may be thinking about leaving shortwave. (HJ)

ROMANIA - The Romanian home service, *Romania Actualitate*, is being relayed on SW. BBCM reports hearing the relays at 0400-1130 on 11940 and 15250 kHz, and between 2200-0500 on 7255 kHz with some day-to-day variations. The DX Report program on RIAS Berlin says the sked is 0500-1030 on 11940 and 15250, and 2100-0500 on 7225 and 9625 kHz. So the sked isn't yet definitive. (Andy Sennitt on RNMM 5/20) Sked is 2200-0500 on 7255; 0500-1130 on 11940 & 15250. (WBI 5/14)

RUSSIA - *Radio Moscow World Service* English was heard at 0300 4/11 with two different services. One is on 12050, 15410 and 15425 kHz. The other is on 11790, 12055, 15535, 15590 and 17720 kHz. (BMM

on RJMR 4/18) [15425 and 12050 are standard Russian Far East freqs.--mf]

R. Aum Shinrikyo heard with program in progress on 9540 kHz at 2051 3/25; resumed *Radio Moscow World Service* English at 2058. (BMM on RJMR 4/18)

R. Alpha and Omega, a Protestant station in Moscow, has doubled its air time to two hours daily, 1300-1500 on 9865 kHz. This sked was effective from 3/28 to 5/1. (RJMR 4/18)

Amur Radio, Blagoveshchensk, 9500 kHz, was reactivated in March after a lapse of ten (!) years. It is heard // 189 kHz LW and several FM freqs. Reception in Japan suggests power of 30-50 kw. It is on the air from 1900-1700; it was silent from 3/28 to 4/6 when it came back with the current sked. (Shigenori Aoki and Yoshinori Kato on RJMR 4/18)

Adventist World Radio, Novosibirsk, has English from 0200-0300, 0700-0800, 1200-1300, all on 11835 kHz, and 1900-2000 on 9835. (AC on RNMN 5/6)

Following up a tip over 4-24 HCJB DXPL that a new Radio Station Centre was broadcasting a German Gospel Mission program in Russian called "New Pastures" ("Novi Midi"--not sure of 2d word) at 0530-0600 on 12010, and 1530-1600 on 9880, both 200 kw, I found RM English on 12010 at 0525 on 4-25, but with a tone run up from another station co-channel.

I tuned away briefly at 0530, and when I returned at 0531 brd a woman on the 2d stn in the middle of an English anmt which turned out to be the same as the anmt that was given at the end of the program at 0557. Then a Russian anmt with definite mention of "Radiostansiya Novi 'Midi'". Program was talking by man and woman, plus two religious choral numbers. Co-channel QRM from RM in English was rough but at least distinguishable. RM continued in English at 0600, Centre fqy also carried a RM program (not sure which one). Checked again at 0528 on 4-26, and, after tone runup, there was a distinctive IS of a man quickly repeating "Radio Centre, Radio Centre, Radio Centre . . ." over and over for a minute. Then English ID again, into Russian, talk by lady and children singing to 0547, then "Novi Midi" ID and talk by man until English ID again at 0557. There were three sins on fqy on 4-26, quite a mess. At 0600 on 4-26, RM English contd in English, while the R. Centre transmitter also carried same RM English program but a second or so behind the other stn. Not sure what happened to the 3rd stn. Review of tapes of the English ID's, all of which are the same, reveals anncd sked of 0530-0600 on 12010, 1200-1500 on 1440, 1530-1600 on 9880.

Asks for rpts to R. Stn Centre, Nikolskaya St., Bldng. No. 7, Moscow 103012 (same address as listed for Moscow Echo in WRTH-93), and gives phone number as 095/921-1824. DSWCI SWN MW column for 4-93 lists this one as 1440 at 1400-1500 with above address. There is also a short listing for the stn on 1440 MW, 0400-0500, in WRTH-93, but no further details. On 5-8, the sin was brd on a new fqy, 15185, with tone run-up at 1525. Opened with repeating "R. Centre, R. Centre . . ." IS at 1530, then English ID as rptd earlier except now anncs this channel instead of 9880. Russian program, English ID agn 1557, then RM English at 1600.

Co-channel QRM from VOA-Gloria in Armenian until 1600, but Centre nominally dominant. Same brd 5-9. Also brd Centre on 5-8 at 0530* on 12010, extremely weak but no QRM at all on that day. (Berg)

University Network plans to buy time on two Russian TV satellites, one serving Europe and the other over the Indian Ocean. David Lawrence, University Network's principal SW engineer, was in Moscow the week of 5/7. (Dr. Gene Scott 5/7)

The University Network's summer sked of relays via Russia is: Novosibirsk, 11840 kHz to China, 1600-1500 daily; Krasnodar (southern European Russia), 21670 kHz to India and Australia, 0300-0800 daily. (Dr. Gene Scott 5/7)

KNLS, Anchor Point, began using a Russian relay in mid-April. The relay carries KNLS' Chinese programs at 1200-1400 Fri-Sun only. The Russian relay carries a program from Alaska in the same time slot but not // Anchor Point. The freq was 15375 kHz in April but changed to 11970 on 5/2. Both freqs are close to Chinese transmissions of the BBC and VOA which are heavily jammed. (Shigenori Kato and Nobuyoshi Aoi on RJMR 5/23)

R. Center, Moscow, closed its SW transmitter because of money problems. It still carries HCJB Russian and English on MW. (SS on DXPL 5/24)

Radio Moscow was to resume its Nepali broadcasts June 1, daily at 1245-1300 in the 13, 16 & 19 meter bands. (RMWS via WBI 5/21)

SAO TOME E PRINCIPE - The VOA started testing its new 100 kw MW transmitter on 1530 kHz 5/12. If the tests prove out VOA's thinking, the transmitter will be boosted to 500 kw in a few years' time. SW transmitters are also planned. The sked, in English only, is 0300-0700 and 1600-2200. (RNMN 5/13) It's making it to Sri Lanka between 1645-1800* with fair to poor signals

on mediocre to good (but not hot) Japanese receivers. (VG on RNMN 5/20)

SERBIA-MONTENEGRO - *R. Yugoslavia*, Belgrade, has updated its English sked and refuses, so far, to lie down. It is heard 0030-0100 to North America on 9580 and 11870 kHz; at 0130-0200 on 9580 kHz; to Australia at 1130-1200 on 21605 kHz; at 1830-1900 to Europe on 6100 kHz and to Africa on 17710 kHz. This program contains a five minute segment produced by UnProFor, the UN Protection Force at *1852*. Another broadcast to Europe at 2100-2130 is on 6100 and 9505 kHz. BBC Monitoring quotes a report from the Tanjug news agency dated 4/27 that another English broadcast had been added at 1000-1030. BBCM confirmed this the week of 4/30, but it was silent 5/3, and only the IS was heard Tues from 1000 to 1010 when it left the air. (Andy Sennitt on RNMN 5/6)

From 5/17 *R. Yugoslavia* began relaying the Belgrade FM service, *Ju Radio*, on 9505 kHz; transmission begins at *1355 on 9505 kHz with a different IS than the external service. There is news in several languages including English. (Richard Measham, BBCM, on RNMN 5/21)

SEYCHELLES - *BBC Indian Ocean Relay* 17885 kHz, verified direct. V/s is Peter Lee, Resident Engineer. Address is P.O. Box 448 Victoria. (Burt, Play Dx via HJ)

SOMALIA - *Radio Rajo*, the *Unified Task Force* station in Mogadishu, was noted 5/5 to have changed its name to *Radio Manta*, with ID as *Radio Manta, the voice of the United Nations operation in Somalia* [Somali: *Halkani wa Radio Manta, Codka Haulgaladha Qaramatha Midoobey ee Somaliu*], which you can hear on 9540 and 6170 kHz in the 31 and 41 meter bands, respectively, and on 89 MHz in the FM band. The schedule was announced as (0410, 1000 & 1300) on 9540 kHz; 1600 & 1900 on 6170 kHz. The station was noted on 4/28 to relay VOA English on 9540 kHz at 1130, in USB plus carrier, // VOA transmitters on 15425 and 9760 [Philippines - df]. (WBI 5/7)

SOUTH AFRICA - *Radio "One"*, 4990 kHz heard at 0230. (Monferini, Play DX via HJ)

SRI LANKA - The *Sri Lanka B/c Corp.* is still operating its international service. However, most of its transmitter time is taken up by *Radio Japan* and the VOA. The time left for SLBC is not regarded as prime time in many target areas. So SLBC is not getting much mail and is not getting much out of these broadcasts. The broadcast in English to NA from 2330-0030 on 15425 kHz was still being

made in late April, but signals have been less than satisfactory. (VG on RNMN 4/22)

ST. HELENA - *Radio St. Helena* received 1014 reports from their 1992 transmission according to station director Tony Leo. (Alm Dx'ers Calling via HJ)

SUDAN - Sudan has been providing very reliable reception in Sri Lanka on new 9165 kHz. It is still announcing 9170. English news is aired at 1500; the station then announces as "National Unity Radio." At 1800 it calls itself *Sudan Broadcasting Service from Omdurman* before news in English. A program in French is heard from 1700-1800. (VG on RNMN 4/22)

SURINAM - *Radio Netherlands* has signed contracts for regular daily relays on two stations, *R. Apintie*, 820 and 5005 kHz in the morning, and *R. Paramaribo* (RAPAR N.V.) on FM in the evening. Programs, fed via PanAmSat, will start in mid-June. (RNMN 4/23)

Radio Apintie has moved from 5005 kHz, where they were almost always blocked by a utility station, to 4990.9 kHz, first heard by Dave Valko and Jerry Berg in late April. According to a QSL received by Richard D'Angelo, the station was only running 50 watts due to a broken linear amplifier. I suspect that this amplifier has now been fixed as I can hear them every night. Power is still only 350 watts, though. (HJ) So the RN relay will presumably be on 4990.9, as well. [df]

SWEDEN - The Swedish Parliament voted 4/28 to cut *R. Sweden's* budget by US\$2 million a year, or about one-third. Programs in Spanish and French will end 7/1. Swedish programming will just be a relay of the home service. (RNMN 5/6) The Swedish MW transmitter on 1179 kHz, damaged in a fire in March, was restored to full power 5/6; detailed tests started the same day. (RNMN 5/6)

SYRIA - *Voice of Independent Kurdistan* is run by the Kurdish Workers' Party (PKK) which is fighting the Turkish government for an independent Kurdish state in Turkey. (HJ) No frequency or time mentioned but calling on young men to join the PKK's ranks and ordering that Turkish security forces be shot in the back. (WBI via DSWCI via HJ)

TAHITI - *RFO Tahiti's* 19m freq has drifted from 15175 to 15168 kHz. (Chris Hambley, Australia, and BMM on RJMR 4/18) The 25m transmitter was on 11826 or 11827 in the third week of April. (BMM on RJMR 4/18)

TAIWAN - The *Voice of Free China* may be shut down completely about June 30. The Legislative Yuan, Taiwan's Parliament, has cut 700 million yuan from the government's broadcasting budget, according to the China Times. The cuts for the Broadcasting Corp. of China include Y238 million, the total annual budget, for the Voice of Free China; Y180 million for other services, and Y40 million for administration. The BCC and the government are negotiating to restore some of the cuts. The BCC sells advertisements, and may try to keep the VOFC going with its own revenue. (Takashi Kitami, ABI, on RJMR 5/16) [No mention was made of the Central Broadcasting System, BCC's MW and SW services to mainland China, or the Voice of Free Asia, a second BCC operation for Southeast Asia.--mf]

[VOFC uses about 30 transmitter-hours a day on WYFR. WYFR uses 20 transmitter-hours daily on VOFC. The Journal has learned that WYFR is aware of the Taiwan scene but isn't too concerned. The Journal understands that Family Radio regards the incident as a test of wills between the Legislative Yuan on one side and the BCC and, possibly, the Kuomintang party leadership on the other. We shall see what the teapot holds.--mf]

TAJIKISTAN - *R. Tajikistan*, Dushambe, began an English service on 972 and 1143 kHz MW and 7245 kHz. BBCM has confirmed one transmission at 1645-1700. The station announces another transmission at 0345-0400. Both broadcasts are intended for India and Pakistan. (Andy Sennitt on RNMN 5/6)

Radio Tajikistan operates on 7245 kHz 0100-0500 & 1400-1800. English is 0345-0400 & 1645-1700. Other broadcasts are in Arabic, Dari & Farsi. (WBI 5/21)

GET 'EM WHILE YOU CAN Some former Soviet republics have made overtures to join the Russian Republic, Russian Prime Minister Viktor S. Chernomyrdin told Interfax news agency 5/21. Interfax quoted Deputy Prime Minister Alexander S. Shokin as saying one such state was Tajikistan, which first approached Russia during the Tajik civil war last winter. Tajikistan, in addition to fighting a bitter war, is among the poorest of the new ex-Soviet nations. Interfax named no other applicants and added no other details. (AP/LA Times 5/22 via Mike Fern--CA)

THAILAND - VOA is now testing a second transmitter from the Udom Relay Station. It's on 11905 kHz at 1130-1330; 11705 at 1330-1500; 7215 at 1500-1700. Burmese at 1130, English 1230, Urdu 1330, English 1430, Tibetan 1500, English 1530, Hindi 1600. All 300 degrees, using either 500 or 250 kw. (VOA Frequency Division BBS [+1-202-619-1494])

Radio Thailand Home Service is still active on 6070 kHz. (Lobuis, DSWCI via HJ)

Amporn Sathan, 6149 kHz, still active but off on Mondays. Id is *Sathani Withoyu Or Sor* (ibid)

TRISTAN DA CUNHA - The SW transmitter on 3290 kHz has gone silent. 3290 kHz is normally occupied in South Africa by R. Namibia, 100 kw, at Windhoek. One night NBC left the air and a weak signal took its place. Came an IS and an ID: "This is Radio Central," R. Central being the other NBC at Port Moresby. Piet Conradi wrote to *R. Tristan* in February. Eight weeks later a reply came back from A. Swain, Superintendent of Post and Telegraphs for the government of Tristan da Cunha. Mr. Swain said that Tristan da Cunha Radio has ceased SW operation and moved to 93.5 MHz FM with 15 watts output. The schedule is Mon-Wed-Fri 4:30-6 p.m. local time, and Sun 10 a.m.-noon. (Piet Conradi, South Africa, on RNMN 5/6)

UNITED KINGDOM - The British Foreign Office has confirmed that it will cut the budget of BBC World Service by UK\$5 million for each of the three years 1994-1997 [as heard]. BBC has also been told to make contingency plans for further cuts of up to five per cent. If all changes are made it would trim 14 million pounds from the current budget of 175 million pounds. An average BBC language service costs 900,000 pounds a year to run. The cuts could mean disappearance of some languages and a delay for the new Thailand relay base. (RNMN 4/29)

The owners of the satellite porn channel Red Hot Dutch lost their bid in a British High Court 4/23 to overturn a British decision banning the channel in the UK. The British government says it has banned the sale of decoders and Smart Cards for the porn channel, now securely encrypted and operating from Denmark. The European Court of Justice in the Hague has been asked to rule whether the British court decision violates European Community law; for the present, the ban is in force. (RNMN 4/29)

This is an example of the frequency constipation that prevails in ITU Regions 1 and 3 (Europe and Asia): BBC Skelton carries Radio Korea at 2030 in English and 2100 in French on 6035 kHz; BBC Singapore on 6035 relaying Radio Japan in English at 2100, both audible in New Zealand. (AC on RNMN) Maybe, maybe not. At 2100, New Zealand is not likely to be the target area for the Singapore broadcast. New Zealand is also close to the antipode of Skelton. This may be a compatible share in the target areas, which is what counts. [df]

BBC; 15420 kHz provides the best reception of the special programming for Africa (starting at 0330 UTC) here in Maryland. (HJ)

A detailed **BBC** schedule, with sites, powers, etc., was recently posted in Usenet's rec.radio.shortwave and rec.radio.info newsgroups. It runs a thousand or so lines & is much to large to include here. [df]

U.S.A. - KJES, Vado, NM, 11710 kHz, heard at 1429 with an ID and they wanted to know if they could be heard. (BMM on RJMR 4/18)

Glenn Hauser's **DX Daily** is booked on WHRI, Noblesville, IN, through Radio Miami International. It is a 15 minute commercial SW program sponsored by different companies and the individual listener. News items and personal contributions of \$5.00 or more should be sent to: Glenn Hauser, P.O. Box 81874, Albuquerque, NM 87198. He can be reached by phone at (505)266-9012. Reception reports should go to Radio Miami International, P.O. Box 526852, Miami, FL 33152. [RMI may be handling the time sales to large firms.--mf] The program is first aired at 0130 Tu-Sat on 7315 kHz, and repeated at 0600 Tu-Fri on 7315 and 9495 kHz, and at 1400 Sat on 9465 and 15105 kHz. (BMM on RJMR 4/18)

WRNO, New Orleans, 15420 kHz, carries an odd program at 2100 Sundays: the Free German Voice of Freedom, in German. It claims to give news which is not censored by Deutsche Welle government agents. The sponsor is a German nationalist society based in Toronto. The programs are reminiscent of German broadcasts to North America during the early days of World War II. (RNMN 5/6)

KCBI, Dallas, added a new freq in May and revised its sked: new 13720 kHz 0300-0800, 9815 kHz 0830-1300, 15375 kHz 1400-2030, 15725 kHz 2100-0230. (University Network 5/24 via mf)

WWCR2 resumed regular service with the Gene Scott network about 5/13. Heard testing with open carrier on 5/11. (BMM on RJMR 5/24) Still having odd bits of transmitter trouble on 5/24. (Mike Fern--CA)

WWCR1 returned to the air 5/19 with the station's old-line commercial programs. (George Thurman, Chicago, on DXPL 5/24) [Now using 7435 and new 15685. I'm not going to change numbers until I know where George McClintock puts each unit in the transmitter ball. The two transmitters now operating are Continentals with, I think, digital audio processing. The transmitters destroyed in the fire were Harris units. If you notice any difference in the audio quality, drop George McClintock a note.--mf]

VOA has a very nice new QSL card, showing sunrise through one of the antenna fields at the Greenville Relay Station. [df]

The latest **VOA** schedule, generally updated Mondays, is available on Internet by EMail request to the address df@voa.gov. Note that this now differs slightly from the address given in WRTH, though the address in WRTH will still work for a while. [df]

VENEZUELA - Radio Rumbos heard signing off at 0500 on 9660 kHz but announcing 9770 kHz with call letters **YVLM**. This could signal an impending frequency change. (Alexander FT via HJ)

VIETNAM - Son La Broadcasting Station on 4650 kHz at 1325 UTC. (Lobuis, DSWCI via HJ)

Unid 4772 kHz heard at 1130. This is not Gia Lai, which was last heard on 4787 kHz. (Foster, NU via HJ)

Ha Giang Broadcasting Station on 4809 kHz, down from nominal 4815 kHz, at 1144 UTC. (Foster, NU via HJ)

Kon Tun Broadcasting Station on 5061 kHz with Hanoi HS at 1040 and its own programming at 1045 UTC. (Lobuis, DSWCI via HJ)

Lao Cai Broadcasting Station *1000 on 5600 kHz. (ibid)

WESTERN SAHARA - Western Sahara National Radio of the Arab Saharan Democratic Republic, 11520 kHz, is // 1544 as heard by (Krone, NU via HJ) When the mediumwave transmissions began on 1544 kHz last year, there were many programs in Spanish, but I do not think they are using much (or any) Spanish any more. (Burnell, NU via HJ)

It's been a lot of fun, and a lot of work, putting this column together for the last couple of years. A number of people have been very helpful in getting it done. The award for consistency goes to Mike Fern! Without his input you'd have seen far less material here.

I'll still be around, maybe even turning the receiver on occasionally for some DXing. And I'll probably be helping Hans Johnson & Bob Brown a bit from time to time. Be sure to keep news flowing to Hans. If you're on the computer networks, I'd be happy to hear from you at: [CompuServe - 76702,771](mailto:CompuServe-76702,771); Internet - Dan_Ferguson@his.com.

QSL Reports



Sam Barto
47 Prospect Place
Bristol, CT 06010



- ALASKA:** KNLS 7365 f/d "Antenna" cd. w/ personal ltr. in 1 mo. for ms. v/s Mike Osborne. (Robertson-MS).
- ALGERIA:** Radio Algerienne Internationale 9535 f/d cd. w/ schedule in 60 ds. (Schwartz-NY).
- ANDAMAN ISLANDS:** AIR Port Blair 4760 f/d cd. in 3 mo. from Delhi. (Price-PA).
- ANGOLA:** Radio Nacional de Angola 3375 f/d cd. w/ p/d ltr. in 501 ds. for a PT rpt. v/s Cesar A. da Silva. This after a f/up rpt. (Field-PA).
- ANTIGUA:** BBC 5975 f/d sheet in 1 mo. (Goetsch). same in 5 wks. v/s R. Pratt, Company Manager. (Humenyk).
- ARGENTINA:** RAE 11710 f/d cd. w/ personal ltr. and sked. in 150 ds. for \$1.00. v/s Marcela G.R. Campos, Directora and John Middleton, Head of English Dept. (Lawrence-NY). f/d cd. in 5 mo. for a FR rpt. and ms. v/s Noemi Fernandez. (Robertson-MS).
- ASCENSION ISLANDS:** BBC 15390 f/d ltr. in 45 ds. for \$1.00. v/s Andrew Marsden, Transmitter Engineer. 11750 f/d ltr. in 56 ds. (Humenyk-ONT).
- ASIATIC RUSSIA:** FENC Khabarovsk 9560 "Khabarovsk Musical Comedy Theatre" cd. for Viktor Akhterov. (Berg-MA). 6035 f/d "Khabarovsk Airport" cd. in 2 wks. Also rcvd. stickers. (Field-MI). Radio Moscow 12070 via Khabarovsk, 7150 via Irkutsk, 7135 via Komsomolsk-on-Amur f/d cds. in 3 mo. (Field-MI). Radio Moscow HS 4485 via Petropavlovsk-Kamchatskiy f/d "Kindergarten under Construction" cd. in 5 mo. for 1 IRC. w/ note stating that \$1.00 would be more appreciated than an IRC. (Robertson). 7200 via Yakut f/d ltr. w/ postcard in 4 mo. for 1 IRC. v/s Sergei Bobnev. Addr: Sakha National TV and Radio Broadcasting Company. (Robertson-MS). Radio Nederland 9860 via Irkutsk and 7260 via Petropavlovsk Kamchatka f/d "Photo" cd. in 3 mo. (Berg-MA).
- AUSTRALIA:** Radio Australia 17715 f/d cd. in 51 ds. w/ schedule. (Humenyk). 9580 via Shepparton f/d ltr. in 40 ds. for 1 IRC. (Corlies-ONT). 17795 same in 25 ds. (Humenyk) VLBA 2310 via Alice Springs f/d "Map" cd. in 3½ mo. for ms. and \$1.00. (Wallace-MA). same in 76 ds. for 1 IRC. (Frodge-MI). VLBT 2325 via Tennant Creek f/d "Map" cd. in 76 ds. for 1 IRC. (Frodge-MI). VLBE 2485 via Katherine f/d "Map" cd. in 77 ds. for 1 IRC. (Frodge). VLW6 6140 via Wanneroo f/d "Map" cd. in 67 ds. for \$1.00. Stickers were rcvd. (Moore-KY). Australian Armed Forces Radio 17900 2AAFR f/d form ltr. in 37 ds. for 3 IRCs. This was via Darwin (Kusalik-ALB). same in 2 wks. for a taped rpt. and 2 IRCs (requested by station). Addr: AAFR, B-4-22, Russell Offices, Canberra ACT 2600, Australia. (Berg-MA).
- AUSTRIA:** Radio Austria International 9870 f/d ltr. in 34 ds. w/ stickers. (Humenyk-ONT). f/d "Masked Imps" cd. in 51 ds. (Humenyk). f/d "Maypole, Tirol" cd. in 21 ds. w/ sked. and stickers. (Humenyk). 9875 f/d "Harvest Thanksgiving" cd. in 1 mo. (Goetsch). same cd. w/ site as Mooabrunn in 1 mo. w/ schedule. (Loudell-DE).
- AZERBAIJAN:** Radio Baku 4785 f/d cd. w/ postcard in 4 mo. for \$1.00. Nice stamps! (Loudell-DE).
- BAHRAIN:** Radio Bahrain 9746 p/d cd. in 21 ds. for \$1.00. v/s A. Suliman, dell-DE). Director of Broadcasting. V/C #197. (Wilkins-CO).
- BELARUS:** Radio Minsk 11995 via Moghilev f/d cd. w/ postcard and schedule in 1 mo. for 1 IRC. (Robertson-MS).
- BELGIUM:** Radio Vlaanderen International 15540 f/d cd. in 80 ds. (Humenyk). 9930 f/d cd. in 1 mo. (Goetsch).
- BENIN:** ORTH Parakou 5025 p/d "Logo/Dancer" cd. in 325 ds. for a FR rpt., tape and US \$2.00. (Washburn-ME). 4870 via Cotonou n/d ltr. for 88 reception in 7 mo. for a FR rpt. v/s Anastase Adjoko, Chef de Service Technique. (Robertson-MS).
- BOLIVIA:** Radio San Miguel 4925.4 p/d ltr. in 48 ds. for a SP rpt. and ms. v/s Felix A. Rada Q., Director. (Durdén-GA). Radio San Gabriel 6085 f/d cd. in 42 ds. for a SP rpt. and \$1.00. v/s Hno. Jose Canut Saurat, fsc. Also rcvd. a ltr. from Lic. Gary Martinez R., Director Ejecutivo. (Durdén-GA).

BONAIRE: Radio Nederland 11835 f/d "Floral" cd. in 3 mo. (Lare). Trans World Radio 9535 and 11930 f/d "PJB QSL" cd. w/ n/d ltr. in 1 mo. (Goetsch). 15345 f/d cd. in 1 mo. for 1 IRC. (Loudell-DE). 11815 f/d "Diver" cd. in 5 1/2 wks. for ms. (Pappas-SD).

BORNBO: RRI Samarinda 9614 f/d personal ltr. in IN for an IN rpt. and \$1.00 in 1 mo.

BOSNIA-HERZEGOVINA: Radio Bosnia-Herzegovina 6219.9 ltr. was returned (Price-PA). * by the Croatian postal service w/ neat looking rubber-stamp explanation. (Loudell).

BOTSWANA: VOA 15495 f/d "Map" cd. in 53 ds. (Humenyk-ONT). Radio Botswana 4820 f/d "Boy Milking Cow" cd. in 1 mo. for an 86 reception. (Robertson-MS). 7255 f/d cd. in 4 mo. v/s Ted Makgekgenene, Chief Engineer. (Robertson-MS).

BRAZIL: Radio Record 6150 p/d ltr. in 27 ds. for a PT rpt. and \$1.00. Stickers rcvd. v/s Mario Luiz Catto, Director Geral. (Wilkins). Radio Cancao Nova 9675 f/d cd. w/ personal ltr., sticker in 46 ds. for a PT rpt. (Humenyk). Swiss Radio International 17730 f/d "Obwalden Panorama" cd. in 5 wks. (Loudell-DE). Radio Bandeirantes 6090 r/d personal ltr. w/ sticker and pennant in 6 wks. for a PT rpt. (Field-MI). same in 20 ds. w/ pennant. (Humenyk-ONT). Radio Bras 15265 f/d cd. w/ sticker and schedule in 102 ds. v/s Gaby Hertha Einstoss, Correspondence Service. (Moore-KY). Radiodifusora do Amazonas 4805 "Igarape Riverbank" cd. w/ postcard in 66 ds. for a PT rpt. and \$1.00. v/s Joaquim Marinho who is a stamp collector and desires Elvis stamps: (Durden). Radio Marajoara 4955 n/d personal ltr. in 3 mo. for a PT rpt. v/s Neido Carvalho. (Field-MI).

BULGARIA: Radio Varna International Service 15330 rcvd. 2 prepared cds. in 1 mo. for 2 * IRCs. This was via the Stnolik site. v/s Emma Gileva. Station no longer on SW. (Kusa-CANADA). CFCX 6070 f/d cd. in 1 mo. for ms. v/s Stephen Canney, ODXA. (Goetsch). 11k.

CHD 7335 n/d "Fleming" cd. (Goetsch). Radio Japan 5960 via Sackville f/d cd. in 1 mo. (Goetsch). f/d "Japanese Cranes" cd. in 30 ds. (Rigas-IL). RCI-CFN 15325 f/d "WDXC" cd. w/ sticker and schedule in 26 ds. (Washburn-ME). p/d long ltr. w/ schedule in 3 wks. for 1 IRC. v/s Jean Choquette, Manager. (Loudell). CPCX 6005 p/d cd. in 1 mo. (Goetsch). CKVZ 6160 f/d "Vancouver Centre" cd. in 9 ds. for ms. (Sgrulletta-NY).

CANADIAN PIRATES: CSIC 6801 sheet in 42 ds. for ms. via Merlin, ONT drop. (Frodge). 6825 f/d "Spy" sheet in 42 ds. (Frodge). 6875 and 6890 f/d sheets in 42 ds. for ms. (Frodge).

CHILE: Radio Esperanza 6088 p/d ltr. w/ sticker and station info. in 4 wks. for \$1.00. v/s Ramon Woerner, Director. (Kohlbrener-PA). prepared cd. in 2 wks. for a SP rpt. and \$1.00. Rcvd. cassette tapes. (Wilkins-CO).

CHINA, PEOPLES REP. OF: Swiss Radio International 7480 via Beijing cd. in 1 mo. for \$1.00. (Goetsch). Voice of Jinling 4875 p/d "Taihu Lake" cd. in 1 mo. for ms. (Wallace-MA). f/d "Lion Grove, Suzhou" cd. w/ CH schedule in 1 mo. (Humenyk). Xilinqol PBS 4950 f/d cd. via CRJ in 2 mo. (Loudell). Nei Monggol PBS 6974 f/d cd. via CRJ in 10 wks. (Loudell-DE). CPHS 7504, 7770, 7935, 9080, 11000, 11040, 11100, 12120 and 15710 f/d "Cloth Elephant" cd. in 126 ds. (Sweitzer-FL). RCI 11680 and 11715 f/d cd. w/ sticker in 25 ds. (Levison-PA). China Radio International 4883 f/d "Golden Thread" cd. in 10 * wks. (Loudell). BPM Time Station 5000 f/d "Clock/Logo" cd. in 6 wks. (Price-PA). Honqhe PBS 4929 f/d ltr. w/ travel brochures in 4 mo. for a taped rpt. (Berg-MA).

CLANDESTINE: La Voz del CID 9942 f/d "Logo" cd. in 4 mo. (Goetsch).

COLOMBIA: HJAX Radio Super 6065 f/d prepared cd. w/ n/d personal ltr. in 126 ds. after 2 f/up rpts. v/s Nestor Molina Ramirez, Director. (Palmerheim-WA).

RADIO VARNA



www 734 000
tel 1010 000
"r. Edward Russett
2117 - 10 Street" A
Calgary, Alberta
Canada T1M 1B6

Radio Varna
22 Primorshki Blvd.,
9000 Varna,
Bulgaria
March 22, 1991

Dear Sir,

We are writing to you to confirm with pleasure your listening report from March 19, 1991. You had the chance to listen to a short-wave programme designed to service a maritime audience which is no longer on the air. We did not manage to make the project commercially viable. I must assure you that none of your previous letters have reached the English Section of Radio Varna. If we had received the we would have answered immediately. Anyway, better late than never, your persistence I believe will not be rewarded.

Best Regards

E. Gileva

Emma Gileva

COSTA RICA: AMR/Radio Lira International 9725 f/d "Solar Eclipse" cd. in 1 mo. for \$1.00. (Goetsch). Radio Neg Mawon 15030 via RFFI f/d pink paper QSL w/ ltr. in 6 mo. for a taped rpt. Addr: Box 271, Nyack, NY 10960. (Berg-MA). 7375 f/d personal ltr. in 4 mo. (Field-MI). Radio For Peace International 7375 f/d cd. for \$1.00. (Goetsch). * Radio Exterior de Espana 151:0 via Cariari f/d cd. in 162 ds. w/ schedule. (Palmerheim-WA).

CROATIA: Hrvatska Radio Zagreb 7240 and 9830 f/d cd. in 527 ds. for \$1.00. (Sgrulletta-NY).

CYPRUS: Cyprus Broadcasting Corporation 9770 f/d "Broadcasting Compound" cd. in 2 mo. (Robertson-MS). 7125 f/d cd. w/ stickers in 24 ds. (Humenyk-ONT). BBC 11955 f/d cd. w/ sticker in 37 ds. (Humenyk).

CZECH REP: Radio Prague 9605 f/d cd. w/ sticker and schedule in 49 ds. (Sweitzer-FL)....next page...Sam.

CZECH REP: Radio Prague 7345 via Litomyšl f/d "Lynx" cd. in 1 mo. (Loudell). f/d "Lutra" cd. in 1 mo. (Loudell-DE). 5930 f/d cd. in 29 ds. w/ sticker and schedule. (Humenyk). 7345 f/d "Lynx" cd. in 1 mo. (Goetsch).

DOMINICAN REP: Radio Cima Ciento 4960 f/d cd. w/ ltr. and pennant in 1 mo. for a SP rpt. and \$1.00. (Price-PA). postcard w/ pennant, coin and tape in 2 mo. for a SP rpt. Very nice touch by the station. (Berg). 4962 same in 4 mo. for a SP rpt. Rcvd. * same as others. v/s Roberto Vargas. (Field-MI). Radio Quisqueya 6205 personal ltr. in 4 mo. for a taped rpt., SP rpt. and \$1.00. 700 watts. v/s Lic. Gregory Castellanos Ruano, Director. (Lobdell). personal ltr. in 111 ds. for a SP rpt. and \$1.00. (D'Angelo-PA). same in 4 mo. for a taped rpt. Addr: P.O. Box 135-2, Santo Domingo. on envelope and Calle San Juan Bautista No. 150, Santo Domingo on ltr. (Berg-MA).

ECUADOR: HCTB 9745 rcvd. f/d special cd. for the 4/3 "Mt. Antisana / Mt. Cayambe" call in pgs. in 3 1/2 wks. (Berg). f/d cd. in 1 mo. for \$1.00. (Goetsch). Radio Catolica Nacional 5030.1 p/d ltr. w/ sticker in 151 ds. for a SP rpt., tape and \$1.00. (Klinck).

EGYPT: Radio Cairo 9475 f/d "River/City" cd. w/ schedule and sticker in 2 mo. (Loudell)

EUROPEAN RUSSIA: AMR 11775 via Moscow f/d cd. w/ site in 30 ds. (Rigas-IL).

NOTES: Bon Corlies sent in some reports for the QSL Column along with several circular "hockey cards" that are produced in Canada by Kraft peanut butter. Thank you so very much. The peanut butter was good too! Your name now goes to the top of my list. Hi! Seriously, anyone else got more of these? John Sgrulletta says that his C/V total may rise to 225 if some of the anticipated countries/areas are recognized by the Country Committee. I can understand the wait on Moldova and the Andaman Islands but Laos has usually been a fairly prompt QSLer...Sam.

EUROPIRATE: Radio Caroline 6295 p/d cd. in 6 wks. for \$1.00. Postcard rcvd. (Kohlbrener-PA). nice p/d "Ross Revenge" cd. in 1 1/2 mo. for \$1.00. (Wallace-MA).

FERNANDO POO: Radio Africa 2000 6910.2 f/d "Embassy Villa" cd. in 52 ds. for a SP rpt. and \$1.00. v/s Teodora Silochi. (Kusalik).

FINLAND: Radio Finland 21550 f/d prepared cd. for ms. (Robertson-MS).

FRANCE: UNESCO Radio 7375 via RPTI f/d ltr. in 25 ds. v/s Mrs. Erin Faherty-Melia. (Humenyk-ONT)...Mark, this should be listed under Costa Rica...Sam.

GABON: Radio France International 12015 via Moyabi f/d cd. in 1 mo. (Goetsch). Swiss Radio International 12035 via Moyabi f/d "Valere Castle" cd. in 31 ds. (Washburn-ME). f/d cd. in 6 wks. (Humenyk-ONT).

GERMANY: Sudwestfunk 7265 p/d "Sunset/Logo" cd. in 1 mo. (Goetsch). VOA 5995 via Wertzschal f/d cd. in 4 mo. (Field-MI). Hayerischer Rundfunk 6085 f/d cd. w/ book in 34 ds. for a taped rpt. and \$1.00 (returned). (Washburn-ME).

GHANA: GEC 4915 f/d cd. in 35 ds. for ms. (Sweltzer-FL).

GREECE: VOA 9715 f/d cd. in 6 wks. (Field-MI). Voice of Greece 9395, 9420 and 11645 f/d cd. in 50 ds. w/ schedule. (Humenyk-ONT).

GUATEMALA: Radio Buenas Nuevas 4800 f/d "Parrot" cd. w/ station info. sheet in 2 mo. for a SP rpt. and 2 IRCs. v/s Israel Rodas M. (Robertson). p/d cd. in 29 ds. for a SP rpt. and \$1.00. (Washburn-ME).

HAWAII: WHYH 10000 p/d folder cd. w/ station brochure in 1 mo. (Goetsch).

HOLLAND: Radio Nederland 6020 f/d cd. (Goetsch). f/d "Floral" cd. in 3 mo. (Lare-MI).

HONDURAS: HROK La Voz de la Mosquitia 4910 n/d ltr. w/ paper pennant in 6 ds. for ms. (Sweltzer-FL). n/d ltr. w/ pennant in 11 ds. for a rpt. to the US addr. v/s Sammy Simpson. (Washburn).

HONG KONG: BHC 11945 f/d cd. in 19 ds. for \$1.00. v/s Phillip Sandell. (Moore-KY).

HUNGARY: Radio Budapest 9835 via Diod f/d "Costume" cd. in 29 ds. (Humenyk). same in 1 mo. (Goetsch).

INDIA: AIR 9950 via Khamour f/d "Taj Mahal" cd. in 76 ds. w/ schedule. (Kusalik). 3255 via Shillong f/d cd. in 76 ds. w/ schedule. (Kusalik). 11620 f/d "Jagannath Temple" cd. in 2 mo. (Loudell). via Bangalore f/d cd. in 76 ds. (Kusalik).

ISRAEL: IBA 9435 f/d cd. in 29 ds. w/ schedule. (Humenyk). 11603 f/d "Logo" cd. in 53 ds. w/ pennant & schedule. (Palmerheim-WA). 11600 cd. in 1 mo. (Loudell-DE). 11587 f/d cd. w/ schedule in 33 ds. for \$1.00. (Clement-GA).

ITALY: Radio Italia International 7140 f/d cd. in 9 * wks. w/ sticker for \$1.00. (Kohlbrener). cd. in 7 * wks. for a taped rpt. Sticker was rcvd. (Berg). IRRS Milan 7125 f/d "Milan" cd. in 66 ds. for \$1.00. Addr: P.O. Box 10980, I-20110, Milano. (Frodge-MI).



NOTES: Errol Urbelis checks in to say that he is still an active SWBC listener but does spend some time on 11 meter 2 way DX. Would you believe I'm still contemplating re-visiting the Black Rock parties...Sam. Charlie Gaharan has several reports out to some very reluctant verifiers. Hope you get the QSLs you're looking for...Sam. Rosa Com-eau says that surface mail by passes the airport in Moscow. However, there are a few stories circulating that "airmail" letters are being tampered with at the airport. Thanks for the tip...Sam. Ed Rauech says that he has been dealing with Bill Plum and his DX Stamp Service and Supplies for several years and has found the service to be prompt, courteous and very friendly. Others take notice...Sam.

ITALY: Radio Idea 7380 computer generated form ltr. in 20 ds. for a taped rpt. Addr: * P.O. Box 38, 16030 Gattorna, Genova -or- Via Elsa 11/2, 16152 Genova.500 watts.
* (Berg-MA). same in 2 wks. v/s Andrea Laudicina.(Lobdell-MA). United Nations Radio 7125 via IRRS f/d cd. in 62 ds. w/ schedule and calendar.(Humenyk). RAI n/d cd. in 1 mo.(Humenyk-ONT).

JAPAN: Radio Japan 11865 n/d cd. w/ schedule in 29 ds.(Sweitzer). "White Flower" cd. in 1 mo.(Humenyk). Radio Tanpa 9595 f/d "3-D" cd. w/ ltr. in 14 ds. v/s M. Teshiura.(Robertson). Radio Canada International 11705 f/d cd. w/ stickers in 15 ds.(Humenyk)

JAVA: Voice of Indonesia 9675 p/d "Prambanan Temple" cd. in 57 ds. for 2 IRCs. Also rcvd. personal note.(Durden). RRI Jakarta 11865.2 p/d ltr. in 1411 ds. after 4 f/up rpts. v/s Anastasia Yasmine.(Field-PA).

JORDAN: Radio Jordan 9560 f/d cd. w/ stickers and schedule in 10 wks. for \$1.00. v/s Javad Zada, Director.(Clar-NY).

KAZAKHISTAN: Radio Nederland 9845 via Alma Ata f/d cd. in 30 ds.(Rigas-IL). 12025 f/d cd. * in 6 wks.(Price). 7305 f/d cd. in 5 wks. for 2 IRCs.(Clar-NY).

KOREA, REP. OF: Radio Korea 15575 p/d "Hour Glass" cd. w/ sticker in 1 mo.(Humenyk). in 5 wks. w/ schedule.(Humenyk). Radio Canada International 6150 via Kimjae f/d "88 Olympic" cd. in 30 ds. w/ pennant and CIDXC application.(Wilkins-KOR).

KUWAIT: Radio Kuwait 13620 f/d cd. in 1 yr. w/ schedule and stickers.(Sweitzer). same in 1 yr. w/ sticker, schedule and calendar. Took 15 years and 100 rpts:(Millard-TX)..... The NASMA editors are preparing an award for your lengthy wait...Sam. Hi!..Great! f/d cd. in 380 ds.(Lawrence-NY).

LEBANON: Wings of Hope 11530 f/d "World Map" cd. in 59 ds.(Schwartz-NY).

LESOTHO: LNHS 4800 p/d "Flag" cd. in 4 mo. for 1 IRC.(Millard-TX).

MALAGASY REP: Radio Nederland 11655 f/d "Floral" cd. in 3 mo.(Lare-MI).

MALI: China Radio International 9770 via Bamako f/d "Golden Thread" cd. w/ schedule and papercuts in 55 ds.(Humenyk).

MALTA: Voice of the Mediterranean 9765 f/d "Cathedral" cd. for \$1.00.(Goetsch).

MAURITANIA: Radio Mauritanie 4845 f/d "Antenna/Map" cd. in 78 ds. for a taped rpt., a FR rpt, 2 IRCs and \$1.00.(Straus-NJ). same in 2 mo. for a FR rpt.(Robertson). f/d cd. in 6 yrs. after several rpts.(Price-PA)...Nice QSL worth waiting for...Sam.

MOLUCCAS: RRI Ambon 4863 f/d cd. in 17 wks. for an IN rpt. and \$1.00.(Loudell-DE).

MONGOLIA: Radio Ulan Bataar 12015 f/d cd. w/ postcard and newspaper in 2 mo.(Robertson).

MOROCCO: RTVM 11920 f/d cd. in 22 ds. for \$1.00. v/s Tanane Mohammed Jamal Eddine.(Hard-NEW GUINEA TERRITORY: Radio Eastern Highlands 3395 p/d ltr. in 2 mo. ester-NC).

for ms. v/s Ignas Yanam, Technical Officer.(Kohlbrener-PA). Radio Simbu 3355 f/d cd. w/ long personal ltr. in 49 ds. for \$1.00. v/s Gabriel Palao, Station Technician.

(Lawrence-NY). Radio Sandaun 3205 n/d form ltr. in 71 ds. for ms.(Sgrulletta-NY).

NEW ZEALAND: Radio New Zealand International 9700 p/d cd. for \$1.00.(Goetsch). 17770 f/d "Take Mathes" cd. w/ schedule and sticker in 65 ds.(Humenyk).

NIGER: La Voix du Sahel 5020 p/d new designed cd. in 1 mo. after several yrs. of rpts.(Robertson).

NIGERIA: Voice of Nigeria 7255 f/d cd. in 142 ds.(Sweitzer). Radio Nigeria 4770 via Kaduna f/d ltr. in 82 ds. for ms.(Sweitzer).

NORTHERN IRELAND: Riverside 101 * 6239 ltr. w/ key ring, pens, long sticker in 2 mo. for a taped rpt. v/s Mike Henry.(Berg).

NORWAY: Radio Norway International 9610 f/d "Glass Design" cd. in 18 ds.(Loudell). 9565 f/d cd. in 8 wks. w/ schedule and sticker. (Moore-KY). p/d cd. in 1 mo. v/s Kristan Ruid Salom.(Goetsch).

Avec les compliments de

Office de Radiodiffusion et Télévision du Bénin
via RINCE ORTB
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NOTES: Father John Eckert checks in and says that it has been almost 2 years since he has received a QSL. He is very pleased with the response from Palau. It was nice seeing you at the Fest...Sam. Kevin Murray says that he received a "hoax" letter from Bhutan in reply to a reception report. Sounds like one of those Ghana situations from a few years ago...Sam. Jerry Klinck says his neighbor wants to know why I jump up and down when I go to the mailbox. The neighbor never finds anything exciting in his mailbox. You have two choices. Tell your neighbor that your latest copy of "Fredericks of Hollywood" has just arrived or that your shorts are too tight. I did that and it works...Sam.

OMAN: Radio Sultanate of Oman 17735 large f/d folder cd. in 423 ds. for a taped rpt. v/s Rashid Haroon.(Durden). HBC 9750 cd. in 35 ds. for \$1.00. v/s Dave Plater.(Wilkins). **PALAU:** KHIN 9830 f/d "Map" cd. in 29 ds. for \$1.00. v/s Ben Cabral.(Frodge). same w/ form ltr. in 19 ds. for ms.(Loudell).

PAPUA NEW GUINEA: Radio Northern 3345 p/d ltr. in 1 yr. v/s Misael Pendaia, Station Manager.(Lare). Radio Western Highlands 3375 f/d "Map" cd. w/ personal ltr. in 25 ds. for a taped rpt. and 2 IRCs. v/s Esau Okole.(Klinck). Radio Gulf 3245 f/d ltr. in 2½ mo. for \$1.00. v/s Robin vainetti, Manager.(Kohlrenner). Radio Sandaun 3205 form ltr. in 7 wks. for a taped rpt.(Berg-MA).

PERU: Radio El Sol 5970 p/d ltr. w/ postcard and 2 stickers in 36 ds. for a SP rpt. and \$1.00. v/s Emilio Garcia Lara, Gerente General.(Durden-GA). Radio Oriente 6190 f/d ltr. in 32 ds. for a SP rpt. and \$1.00. v/s Pedro Capo Moragues, Gerente Tecnico.(Durden). Radio Naylamp 4300 long p/d personal ltr. in 29 ds. for a SP rpt. and \$1.00. v/s Dr. Juan Jose Grandez Vargas. (Durden). cd. w/ prepared cd. in 29 ds. for a SP

rpt. and \$1.00. Pocket calendar was rcvd.(D'Angelo). Estacion Tarapoto 5015 prepared cd. w/ personal ltr. in 30 ds. after a f/up rpt. in SP for \$1.00. v/s Luis Humberto Hidalgo Sanchez, Gerente General.(Wilkins). Radio Satellite 6725 f/d prepared cd. w/ personal ltr. in 2 mo. for a SP rpt. and ms. v/s Sabino Llamas Chavez, Gerente.(Kohlrenner-PA). in 15 mo. for 3 IRCs. after 3 f/up rpts. v/s Martin Lind, QSL Secretary.(Clar-NY).

* Radio Yashushenge 9520 via Radio Veritas Asia and the Palauig site f/d "Studio" cd. in 32 ds. for \$1.00. v/s Ms. Cleofe R. Tabindao, Audience Relations Officer.(Kusalik) **PORTUGAL:** VOA 15225 via Gloria f/d cd. w/ site in 38 ds. for ms.(Buer-FL). 9760 and 17805 f/d cd. in 75 ds.(Humenyk). 9760 f/d cd. in 6 wks.(Field-MI). Radio Free Europe 11770 via Gloria f/d cd. w/ schedule in 17 ds.(Humenyk).

ROMANIA: Radio Romania International 5990 f/d "Folk Costume" cd. in 1 mo. v/s F. Salvion (Goetsch). 6155 and 9690 f/d cd. w/ schedule in 80 ds.(Humenyk).

RUSSIA: Radio Aum Shinrikyo 9860 f/d cd. in 30 ds.(Rigas). 15425 cd. in 15 ds. for \$1.00.(Frodge). Radio Galaxy 9880 cd. w/ personal ltr. in 9 mo. w/ schedule v/s Edward Kozlov.(Rodriguez-MI). 11880 f/d cd. in 300 ds. (Schwartz-NY). 9880 and 9720 and 9880 f/d "Satellite" * cds. in 3 mo.(Berg). Radio Rossiv 18195 f/d cd. w/ sticker and postcard in 2 mo.(Price-PA). Voice of Russia 12010 f/d cd. w/ schedule in 4 mo.(Field-MI).

SAINTE HELENA: ZHH Radio Saint Helena 11092.5 f/d "25th Anniversary" cd. in 129 ds. for ms. v/s Tony Leo, (Durden). same w/ form ltr. in 163 ds. for \$1.00. (Washburn). in 82 ds. for a FAXed rpt.(Frodge). f/d cd. in 5 mo. for 2 IRCs. w/ ltr.(Kohlrenner). same in 4 mo.(Gunter-NC). f/d cd. w/ ltr. in 2½ mo. for \$1.00. (Loudell-DE). same in 141 ds.(Frodge). f/d cd. in 141 ds. w/ form ltr. for 1 IRC and \$1.00.(Moore-KY)

Saipan: KHBI 9530 f/d cd. in 40 ds.(Humenyk-ONT).

SEYCHELLES: FEBA 11710 f/d cd. in 134 ds. for 2 IRCs. after a f/up rpt. v/s M. Asber.(Wilkins-KOR). HBC 9630 f/d ltr. in 32 ds. v/s Peter Lee.(Humenyk-ONT).

SINGAPORE: HBC 9740 via Kranji f/d cd. in 25 ds.(Humenyk). Singapore Broadcasting Co. 5052 f/d cd. w/ schedule and sticker in 4 mo. for ms. (returned w/ a note that only IRCs are accepted!?) (Kohlrenner-PA).

SLOVAK REP: Slovak Radio 5930 via Rimavska Sobota f/d * cd. in 35 ds.(Rigas-IL). f/d "Autobus" cd. in 1 mo. (Goetsch). same in 58 ds. w/ schedule. v/s Ph. Dr. Karol Palkovic, Chief Editor.(D'Angelo-PA). 9810 f/d * cd. in 2 mo.(Goetsch). Radio Bratislava 5930 f/d cd. in 44 ds. for \$1.00.(Kusalik-ALB).

SOLOMON ISLANDS: SIBC 5020 f/d cd. in 45 ds. after a f/up rpt.(Lawrence-NY).

RÁDIO PORTUGAL INTERNACIONAL



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NOTES: Jerry Klinck sent your editor a very nice "Buffalo Sabres" sticker. Thanks! Looks like I may have to move your name up on the "Be sure to include QSL list". Everyone else get the idea? Hi!...Sam. Mark Anderson said that he received a May 1992 newsletter with his Radio Cairo QSL. That explains the camel footprints in the front lawn! Bill Wilkins sent in his first report after returning from duty in Korea. He is now assigned to Keesler AFB. I enjoyed my DXing from the Nam especially sharing my one man tent with the bugs and snakes. Hi!...Sam. Paul Doherty sent along his first report to this column. It is useful and keep sending them in...Sam.

SOUTH AFRICA: Channel Africa 15430 f/d cd. in 27 ds. w/ schedule. (Humenyk). Radio Orion 4610 f/d cd. w/ schedule in 65 ds. v/s Kathy Otto. (Levison-PA).

SPAIN: Radio Exterior de Espana 9530 f/d "Complejo Azca in Madrid" cd. w/ schedule in 176 ds. (Moore-KY). same w/ sticker in 6 mo. (Loudell). IBC Time Station 12008 f/d "Observatorio" cd. in 21 ds. after a f/up rpt. for \$1.00. (Wilkins-CO). Radio Liberty 9520 via Pals f/d cd. in 17 ds. w/ schedule. (Humenyk-ONT).

SPANISH MOROCCO: Radio Mediterraneo Internationale 9575 f/d cd. w/ sticker and 2 info. sheets in 597 ds. for a FR rpt. and 1 IRC. (Robertson-MS). f/d cd. w/ personal ltr. in 2 yrs. w/ sticker. (Price-PA).

SUDAN: Radio Omdurman 7200 f/d ltr. in 6 mo. for \$1.00. v/s Mr. Khalil. (Price). same in 5 mo. (Field-MI).

SULAWESI: RRI Manado 3215 f/d ltr. w/ prepared cd. in 22 ds. for an IN rpt. and ms. v/s Costher H. Gulton. (D'Angelo-PA).

SUMATERA: RRI Jambi 4925 p/d form ltr. w/ f/d prepared cd. in 63 ds. via a DXer in Omaha! I got his QSL! v/s A. Tiang Abbas, Kepala Stasiun. (Murray-OR). RRI Tanjung Karang 3395 f/d prepared cd. in 1 mo. for an IN rpt. v/s Sutakano. (Lare-MI).

SWEDEN: Radio Sweden International 9695 f/d "Stockholm" cd. in 1 mo. (Goetsch).

SWITZERLAND: Swiss Radio International 9885 f/d "Thurgau-Frauenfeld" cd. in 1 mo. (Loudell). 13635 via Sottens f/d "15th Century Church" cd. in 23 ds. w/ schedule. (Humenyk-ONT). Red Cross Broadcasting Service 13635 via Sottens f/d cd. w/ schedule in 39 ds. for \$1.00. (Washburn-ME). (Loudell-DE).

TAIWAN: MYR 9280 via Voice of Free China f/d "20th Anniversary" cd. in 3 wks. for \$1.00.

THAILAND: VOA 11785 f/d cd. in 6 wks. v/s John Vodenik. (Clar). f/d "Map" cd. (Berg-MA).

TIBET: Xizang PHS 4035 f/d "Hair Ornament" cd. in 63 ds. for 1 IRC. VIC #198! (Wilkins).

TURKEY: Voice of Turkey 9445 f/d "Vase" cd. w/ schedule and stickers in 6 wks. (Loudell). f/d "Treasure Chest" cd. w/ schedule and stickers in 2 mo. (Humenyk-ONT).

UKRAINE: Radio Aum Shinrikyo 7180 via Siferopol f/d cd. in 26 ds. for \$1.00. Site was obtained per separate cd. from Radio Moscow (Buer). 9785 f/d cd. w/ catalog in 21 ds. (Washburn). 4795 via Khar'kov usual cd. in 3 wks. (Barto-CT). Radio Ukraine International 12040 f/d "Picking Apples" cd. in 5 mo. (Loudell). 17690 via Kiev f/d "Museum of Art" cd. in 55 ds. w/ schedule and questionnaire. (Humenyk). Radio Moscow 7180 via Siferopol f/d cd. in 3 mo. (Field-MI). 4825 and 4860 via Khar'kov f/d cd. in 3 mo. (Field-MI). 4795 and 4860 via Khar'kov f/d cd. in 63 ds. (Comeau-MA).

URUGUAY: Radio El Espectador 11835 n/d ltr. in 304 ds. for a SP rpt., tape and \$1.00. This was from the Uruguay Embassy in Washington after numerous rpts. and f/ups over the yrs: v/s Eduardo MacGillycuddy, Ambassador. (Klinck-NY).

USA: KJES 11715 f/d plain form cd. in 17 ds. for \$1.00. v/s Michael Reuter. (Frodge-MI). f/d cd. in 15 ds. (Hosmer-MI). cd. in 1 mo. for ms. (Wallace-MA). f/d cd. in 23 ds. (Clement-GA). f/d cd. in 16 ds. (Millard-TX). in 3 wks. for a taped rpt. (Price-PA). 9510 f/d cd. in 19 ds. (Lare-MI). WVW 15000 f/d folder cd. in 1 mo. v/s John B. Milton, Engineer in Charge. (Goetsch). f/d cd. for 1 IRC (Corlies-ONT). ROKI 15280 f/d "San Francisco" cd. in 51 ds. (Humenyk). same in 1 mo. for ms. v/s Jesus C. Elizondo. (Goetsch). KTEN 15590 p/d "Antennas" cd. w/ schedule in 46 ds. for ms. (Newhall-CT). same in 9 ds. for a FAXED rpt. and a f/up rpt. (Goetsch). same in 36 ds. for 1 IRC. (Corlies-ONT). WJCR f/d cd. w/ form ltr. in 38 ds. for \$1.00. (Newhall-CT). 7465 f/d "Logo and Globe" cd. in 1 mo. v/s Gerri Powell. (Goetsch). KVQH 17775 f/d "Voice of Hope World Network" cd. in 1 mo. (Goetsch).



USA: **WEN** verified the entire NASHA membership list. Just kidding! Here we go...18930 f/d "Angel" cd. in 19 ds. v/s William Steitemier. (Lare). f/d cd. w/ ltr. in 2 wks.(Barto-CT). f/d cd. w/ ltr. in 78 ds. for ms.(Washburn-ME). same in 68 ds. for 2 ms. Schedule was rcvtd. (Buer-FL). cd. in 20 ds. w/ schedule and ltr.(Schwartz-NY). 7540 f/d cd. in 10 wks. for \$1.00. (Kohlbrenner-PA). f/d cd. in 47 ds. for \$1.00. for First Day broadcast! (Kusalik-ALB). same in 3 mo. for \$1.00.(Wallace-MA). cd. w/ personal ltr. in 6 wks.(Hosmer-MI). f/d cd. in 69 ds. for \$1.00.(Comeau-MA). 7540 f/d cd. w/ schedule in 76 ds. (Clement). 5825 same cd. w/ schedule and personal ltr. in 60 ds.(Humenyk-ONT). same in 35 ds. for 1 IRC.(Corlies-ONT). in 9 wks. w/ schedule for ms.(Sgrulletta-NY). same in 22 ds. for SASE.(Frodge-MI). 9825 f/d cd. in 1 mo. (Rigas-IL). 9825 and 7520 f/d cd. in 1 mo. Transmitter site is in **Vandiver, Al** (Hardester-NC). 7520 f/d cd. w/ schedule and a personal ltr. in 19 ds.(Doherty-MA). 7465 f/d cd. in 7 wks. for ms.(Pappas-SD). 9355 f/d cd. w/ schedule and ltr. in 6 wks. for \$1.00.(Clar-NY). 9350 cd. in 78 ds. for ms.(Palmerheim-WA). 17725 same w/ personal ltr. in 76 ds.(D'Angelo-PA). 13740 f/d cd. w/ schedule in 7 wks. for ms.(Anderson-MI). Thats 23 reporters! Or something close to that...Sam.



VERIFICATION SIGNERS: **Radio Clube Marilia** 3235 Antonio Carlos Nasser, Producer Program. **Radio Clube Varginha** 3245 Juraci Viani, Secretary. **Radio Record** 9505 Mario Gatto, Director General. **Radio Difusora Amazonas** 4805 Dr. Jose Joaquim Marinho, QSL Manager. **La Voix de la Revolution** 6140 Gregoire Baramumba, English Dept....via PLAY/DX...Sam.

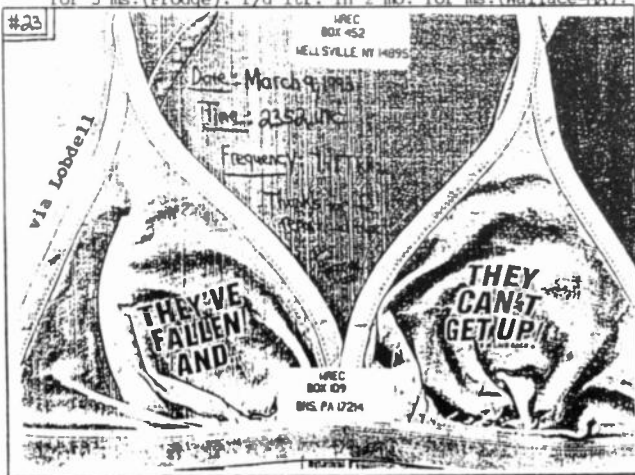
WYPR 9505 f/d "Staff" cd. in 23 ds.(Humenyk). 15355 same cd. in 20 ds. for ms.(Sweitzer-FL). 21525 same w/ newsltr. and brochures in 22 ds. for \$1.00.(Newhall-CT). 17760 f/d cd. in 31 ds.(Humenyk-ONT). **WFLA** 25870 **KPM360** "Logo" cd. in 18 ds. for SASE.Addr: P.O. Box 130097 Tampa, FL 33681-0097 or 4002A Gandy Blvd, Tampa, FL 33611.(Frodge-MI). p/d cd. w/ ltr. in 11 ds. v/s Wilson Welch, Chief Engineer.(Washburn,ME). f/d prepared cd. in 33 ds. for ms.(Davis-NM). p/d cd. w/ ltr. and schedule in 14 ds.(Barto-CT). **WINE** 15295 f/d cd. in 1 mo. v/s John Norris, VP.(Goetsch). **WYPR** 5950 and 11830 f/d cd. in 1 mo.(Goetsch). **WMLK** 9465 f/d form ltr. v/s Elder Jacob Meyer.(Goetsch). **WRII** 7315

f/d cd. w/ schedule in 42 ds. for ms.(Jarvis-CA). 9465 f/d "Logo" cd. v/s James Holycross.(Goetsch). **WRNO** 15420 f/d cd. in 1 mo. for ms.(Goetsch). f/d cd. w/ schedule in 32 ds. for 2 ms.(Newhall-CT). **La Voz de la Fundacion** 9496 via **WRII** f/d cd. in 6 wks. Sticker was rcvtd.(Field-MI). **Voice of the OAS** 11830 f/d cd. in 29 ds. for a SP rpt. (Humenyk). **Voice of Free China** 5950 via **WYPR** f/d "Art Work" cd. in 1 mo.(Goetsch). **WSEH** 9465 f/d cd. in 23 ds. for ms. v/s Judy P. Cooke.(Buer-FL). **WCSN** 7510 f/d cd. in 37 ds. for ms.(Buer). 9840 same in 49 ds. for ms.(Jarvis-CA). 7510 cd. in 22 ds. for ms.(Hardester-NC). **La Voz de Tribuna Libre** 7355 via **WRNO** sent rpt. to P.O. Box 11334, Miami, FL but rcvtd. "Moved, left no address".(Field-MI). **American Dissident Voices** 7355 via **WRNO** ltr. in 1 mo. v/s Kevin Alfred Strom.(Goetsch). **VOA Greenville** 19261 cd. w/ sticker in 73 ds.(Humenyk). 21485 cd. in 73 ds.(Humenyk-ONT). 7405 via **Bethany** f/d cd. in 1 mo.(Goetsch). **Radio Miami International** 7355 f/d ltr. w/ sked. in 40 ds. v/s Jeff White.(Humenyk). same in 2 mo. via **WRII** (Goetsch). 7395 via **WRNO** f/d ltr. in 9 ds.(Gaharan-LA). **WENN** 5825 f/d cd. in 60 ds. for \$1.00.(Gaharan-LA)...I thought I got all of those!





USA (Pirates): Radio Azteca 7417 f/d cd. w/ frog seal sticker in 1 mo. for ms. Pennant rcvd.(Wallace-MA). 7416 same w/ pennant in 21 ds. for 3 ms.(D'Angelo-PA). 7417 relayed via North American Pirate Radio Service f/d cd. in 19 ds. for 3 ms. via Wellsville.(Comeau). Voice of the Smooth 7415 f/d ltr. in 20 ds. for \$1.00.(Kusalik-ALB). OC Radio 7415 f/d cd. in 12 ds. for ms.(Pappas-SD). He Man Radio 7415 f/d "HMR Certificate" in 32 ds. for 3 ms. via BRS addr.(Frodge-MI). Christian Rock Radio 7413 and 7425 p/d personal note in 13 ds. for ms. via Wellsville.(Frodge). The Ground Level Network 7413 f/d cd. in 3 wks. for ms.(Lobdell). f/d cd. w/ ltr. in 29 ds. for 3 ms.(D'Angelo). f/d cd. of "Somber Men in Hats" in 1 mo. w/ personal ltr.(Wallace-MA). Happy Hannukah 7413 f/d sheet in 39 ds. for 3 Canadian ms. via Merlin, ONT maildrop. OSL came via Mexico:(Frodge). KTD Radio f/d cd. in 3 mo. for a rpt. to ACE.(Lobdell) XEROX Radio Duplicado 7416 f/d sheet in 2 wks. via Wellsville addr. v/s Bart Sambo, Gerente General.(Lobdell-MA)...You're correct Chris. He is a distant relative! WYMN 7413 p/d sheet in 36 ds. for 3 ms. via Wellsville.(Frodge-MI). Union City Radio 15050.1 f/d cd. in 31 ds. for \$1.00 50 watts!(Kusalik). f/d cd. in 32 ds. for 3 ms.(Frodge-MI). WAZU 7415 via Radio USA personal note w/ cartoon sheet in 400 ds. for 3 ms.(Frodge). Radio HLANOX 7417 f/d "Sheep" cd. in 1 mo. for ms.(Wallace-MA). Voice of Stench 7415 f/d ltr. in 27 ds. for ms.(Hosmer). CXLM 7415 f/d B&W cd. in 15 ds. for 3 ms. via BRS.(Frodge). Radio Exotica 7416.5 f/d sheet in 30 ds. for ms. via Stoneham, MA maildrop. Also rcvd. personal ltr.(Frodge). Alternate Elvis 15055 f/d "Enlarged Elvis Stamp" sheet in 4 mo. via Wellsville.(Kusalik). Radio Poncho 7414 f/d ltr. in 2 wks. for ms.(Wallace-MA). WRPC Radio Free East Coast 7417 f/d "Bra" form ltr. in 2 wks.(Lobdell-MA). Hit Parade Radio 7415 f/d sheet in 12 ds. for 3 ms.(Frodge). Jolly Roger Radio International 7415 f/d cd. in 87 ds. for 3 ms.(Frodge). CFBN 7413 f/d cd. in 24 ds. for 3 ms.(Frodge). RMCR Magic Carpet Radio 7415 f/d cd. in 70 ds. for \$1.00.(Kusalik). Voice of Iron 7417 via MSKY f/d "Tape Deck" sheet in 81 ds. for ms.(Kusalik). Tangerine Radio 7419 f/d ltr. in 1 mo. for ms.(Wallace-MA). 7415 same in 16 ds. for 3 ms.(Frodge). Radio Airplane 7417.5 f/d cd. in 20 ds. for 3 ms. Sticker and newsltr. were rcvd.(Comeau). 7416.7 f/d cd. in 1 mo. for ms.(Wallace-MA). 7416 same in 16 ds. for 3 ms. to Wellsville drop.(Frodge). Secret Mountain Laboratory 7416 f/d sheet in 16 ds. for 3 ms.(Frodge). Mystic Voice of the Western Prairie 7413 f/d "Prairie Schooner" cd. in 54 ds. for 3 ms. to BRS drop.(Frodge). WLIS 7416 f/d sheet in 10 ds. for 3 ms.(Frodge). f/d ltr. in 2 mo. for ms.(Wallace-MA).



UZBEKISTAN: Radio Tashkent 15470 f/d "Map" cd. in 8 wks. for \$1.(Kohlbrener-PA). ZAMBIA: ZNEC 4910 f/d cd. in 68 ds. for \$1.00. v/s Noble C. Makungu.(Millard-TX).

We left out a few reports but they will be in next month. I don't think I've ever had so many reports in any given reporting period. Good going guys and gals!

Sam

NASWA Scoreboard

Jerry Lineback
6361 Shore Drive
Douglasville, GA 30135



Greetings and welcome again to the NASWA Journal's SCOREBOARD. SCOREBOARD presents an opportunity for all NASWA Associates to share their progress in DXing with others. Remember, we follow NASWA's Radio Country List on the SCOREBOARD. This month the SPOTLIGHT is on Africa. C/H = Countries Heard and C/V = Countries Verified. We encourage you to share your totals with us for the next SCOREBOARD which will be in the September issue. The Deadline for that issue will be August 15 and the SPOTLIGHT will be on Asia.

Name, State	Total		Africa		Best African QSL
	C/H	C/V	C/H	C/V	
James Young, CA	242	227	65	64	Zanzibar
Edward Kusalik, Alberta	238	235	66	65	Cordac 4900
Gordon Darling, P/NG	238	233	65	63	R. Cordac
Marlin Field, MI	233	230	65	65	Mt. Kenya NYERI
Jerry Berg, MA	230	229	63	63	R Clube Tenerif
William Flynn, OR	228	211	61	54	V3USE Mauritius
Gerald Bishop, FL	225	211	62	54	R. Candip
Ed Shaw, KY	225	208	65	62	Sp. Sahara
Mitch Sams, MO	225	189	62	48	Bukavu, Zaire
Steven Lare, MI	224	197	59	43	Mauritius
Nobuaki Takahashi, Japan	223	194			
Donald Hosmer, MI	219	189	58	43	Malawi
John Sgrulletta, NY	218	218	61	61	Comoros Is.
Al Miller, Jr., OH	217	209	60	56	Sao Tome
Ron Howard, CA	214	198	55	49	Burundi
Richard Davis, NM	212	201	54	50	Mauritius
Paul Buer, FL	211	201	59	54	LV Isla Palma
Sheryl Paszkiewicz, WI	210	203	55	52	Sierra Leone
Kirk Allen, OK	209	200	55	48	R. Mogadishu
Rick Krzemien, CA	209	198	56	50	St. Helena
Christos Rigas, IL	206	186	55	44	St. Helena
Frank Orcutt, NY	206	175	59	47	R. C. do Huambo
Jerry Lineback, GA	206	108	60	32	St. Helena
Dino Bloisse, Dominican Rep.	205	75			
Mike Hardester, NC	203	190	50	44	Malawi 3380
Fred Kohlbrenner, PA	203	173	50	32	St. Helena
Robert Ross, Ont.	200	178	55	41	R. Halgan
Jerry Klinck, NY	200	171	56	49	Sierra Leone BC
Tom Daly, NY	200	46	55	6	Malawi
Charlie Washburn, ME	192	146			
Larry Kramer, CO	188	120			
Walter Kunz, PA	183	108	51	23	Burundi
Ichiro Maruo, Japan	174	113	40	13	SWABC
Rev. John Eckert, PA	173	157	48	38	R. Mogadishu
Jim Renfrew, NY	171	136	48	26	Zanzibar
Allan R. Loudell, DE	169	136	43	27	TWR Manzini
Pasquale Di Biase, ME	169	121	51	26	Cape Verde
Andy Rugg, Que.	167	151	46	36	TWR Swaziland
Stephen Price, PA	159	129	43	31	R. Omdurman
Nick Grace, DC	157	114	39	19	R. Bukavu
Daniel Prisco, PA	156	133	41	27	Malawi
Carl Radtke, WA	153	153	36	36	Swaziland
Thomas Ross, IL	152	131	37	27	St. Helena
Bill Taylor, PA	152	115	40	19	Uganda HS
Mark Humenyk, Ont.	152	106			
Elliot Straus, NJ	151	79	47	18	Cape Verde 3960
Ross Comeau, MA	149	106	41	23	St. Helena
Richard Hankison, KS	145	117	38	25	ORT Mauritania
Scott Helm, KS	140	89	38	18	St. Helena

Name, State	Total		Africa		Best African QSL
	C/B	C/V	C/B	C/V	
Richard Wallace, CT	137	85	31	14	Chad
Bill Kurrasch, NY	133	97	27	18	Burkino Faso
A. Nony Mous, IN	133	87	36	12	R. St. Helena
Chris Sweitzer, FL	128	76	28	13	St. Helena
Barry Schwartz, NY	124	95	28	15	R. Algerienne
Jason Moore, KY	120	68	29	10	R. St. Helena
Greg Martin, MI	118	91	27	16	Kenya
Chris Tyle, CA	116	35	22	2	Mauritania
Jerry Ervine, TX	115	65			
David Galletly, NY	110	88	23	17	R. Botswana
Robert Carlsen, OH	110	87	19	14	
Lowell Pankake, MN	106	40	22	6	R. St. Helena
Kevin Murray, OR	103	80	17	16	Togo
Bruce Orenstein, NY	102	72	24	10	Sierra Leone
Brian Boulden, CA	97	85	16	11	TWR Swaziland
Andreas Scheurell, PA	80	27	15	2	HBC Seychelles
Mark Anderson, MI	65	54			

Thanks to all who contributed to this SCOREBOARD. St. Helena has become a favorite QSL of many contributors. We should all thank those who arranged the St. Helena broadcasts. Remember the next deadline will be August 15 for the September issue and that the SPOTLIGHT next time will be on Asia. 73s de *Joe*

WANTED: I'm looking for a DX-1 antenna made by RF Systems in Holland. If you have one to sell, please state condition and price. John Baldwin, P.O. Box 1058, Toledo, OH 43697.

FOR SALE: Frendx from March, 1972 (all offset issues) for \$250.00. WRTVH 1975+, \$5.00 an issue. Radio Shack PRO-2005 scanner with cellular, \$200.00. Drake SW-4 receiver (needs cleaning and alignment), best offer. David Walcutt, 235 West 56 Street, Apt. 18M, New York, NY 10019. Phone (212) 315-1286 or Internet: WALCUTTD@FERL.ORG.

WANTED: Hallicrafters SX-122 receiver in any condition. National XCU crystal calibrator plug-in. Pre-1969, 1973 and 1980 WRTH's. Schematic/manual for Gilfer A-20 preselector. Alan Johnson N4LUS, 6001 Goldsboro Road, Bethesda, MD 20817. Phone (301) 229-7069 before 0200 UTC.

FOR SALE: Audio Cassettes of local regional (Afghanistan, Iran, India, Kashmir, etc.) radio stations or Voice of Hurr-iat Kashmir and Radio Azadi. Price \$8.00. A list of stations is also available for \$1.00. U.S. funds only, please. Write to Muhammad Munawar Naeem, P.O. Box 9011, Iqbal Town, Lahore 54570, Pakistan.

Contributors' Page

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Charlotte, NC 28215
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LOGGINGS CONTRIBUTORS - MAY & JUNE 1993 - DEADLINE 10th of MONTH

The following members contributed loggings:

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Brian BOULDEN, Fairfield, CA
Ralph BRANDI, Middletown, NJ
Daniel CAMPORINI, Buenos Aires, ARGENTINA
David CARTER, Bellingham, WA
Jim CLAR, Rochester, NY
David CLARK, Newmarket, ONT
Larry COMPTON, SINGAPORE
Richard D'ANGELO, Wyomissing, PA
William DAVENPORT, Nashville, TN
Tom DAVIES, Cape Providence, SO AFRICA
Pasquale DiBIASE, Portland, ME
Gary EMERSON, Golden, CO
Marlin FIELD, Hillsdale, MI
William FLYNN, Cave Junction, OR
Harold FRODGE, Midland, MI
Mikell GOETSCH, Pittsburg, PA
Peter GRENIER, Sparks, NV
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Rufus JORDAN, Pittsburgh, PA
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Giovanni SERRA, Rome, ITALY
Edward SHAW, Lexington, KY
Todd SMITH, Norwalk, CT
Nick TERRENCE, Huntington, NY
Robert TUCKER, Savannah, GA
Chris TYLE, New Orleans, LA
Juichi YAMADA, Nara, JAPAN

NRD535 various Longwires
DX440 60' Random
R8 HQ180A R390A 150' Longwire
ATS803A Transoceanic
RK641 MFJ956 Indoor LW
R8 Sony 2010 DC777 RF4900 40' Random
Satellit 40
HQ180A Sony 2010 AD270 30' LW
R8 ATS803A Eavesdropper 110' LW
R8 2-R7 HQ180C Antenna Ranch
RFB650
R8 AD Sloper Farley Loop
DX380 ICF7601 AN-1
R1000 MFJ1010B Indoor Helical
R70 LW
R71A MFJ1024 R388 170' LW
NRD535D SPR4 Eavesdropper
R8 R2000 TUN3 Sony 2010 R7A 140' LW etc.
R71A DX302 AP4 Trap Dipole 185'/100' Random
NRD525 25' LWE
FRG7 MFJ1020A ATS803A
NRD525 SP600 Eavesdropper LW Sloper
DX302 Transoceanic 33' LW
DX390 ICF7601 70' LW 50' LW 9mhz Dipole
R8 HQ180A Sony 2010 2-60M Dipoles 80' LW
R600 MFJ16010 20m/60m/90m LW
R8 R70 D2999 Indoor LW
TS940S ATS803A MFJ949D 80/10m Dipoles
DX380
NRD525 R390A ATS803 75' LW DA100D
ATS803A 45' Sloper
R8 Eavesdropper 150' LW
R8 R5000 70' Window 66' Dipole 45' Segmented
R70 Sony 2010 MFJ16010 75' LW
DX400 Indoor Random
Selena B215 VEF206 VEF221
NRD535D FRG7 Eavesdropper R.West Loop
ICF7600
R5000 Sony 2010 MFJ959 150' LW Eavesdropper
DX302 FRG800 FRA7700 ATS808 LW
HQ180 FRG7 Mini Beverage Farley Loop
NRD525 AD Sloper
R70
SW60
R71A Sony 2010 Sloper Dipole
ATS803A
R8 Sony 2010 AD Sloper LW
NRD525 10m long Dipole 60m LW

Gary Emerson's logs came from New Zealand and the South Pole. That's the hard way to get Antarctica! Mitch Sams went DXpeditioning in Stillwater, OK with John Bryant, Kirk Allen, & John Wilkins pulling signals in on 2 450' beverages with their R8, NRD515, NRD525, SP600 & RG7.

Many thanks to all that made this a record season for logs!! Rest up and tune up for the coming DX season, which promises to be a good one.

Enjoyable listening & good DX -

International Band Loggings

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



- 5920nf? CROATIA Croatian R in CR(p) 0330, pop mx, ID, nx, f (Brandi NJ 5/9)
 5975 COLOMBIA R Macarena in SP 1008, Lam ballads, ID's, slogans, chimes (Clar NY)
 59953 PERU R Melodia in SP 0707, ID's, Lam mx, anmcts, wk/clear (Alexander PA 4/11)
 59999 BRAZIL R Guaiba in PT 0840, cont "Muzak", ID 0900, //117849 (Alexander 4/11)
 6020 NETHERLANDS RN Flevo in EG 0120, tlk on culture of Cent Asia (McGuire MD 4/9)
 60404 BRAZIL RC Paranaense in PT 0835, nx, ads, phone #'s, TC's, IDs (Clar NY 4/14)
 6045 RUSSIA R Pollist(t) in RS 1014, tlks, mx, IDs?, muffled audio (D'Angelo PA 4/3)
 60494 NIGERIA RN Ibadan in EG 2250, pop mx, pips, ID, nx, tribal mx, s/off anmct at 2306*, f-p (D'Angelo PA 4/18, Clar NY 4/7)
 6060 ARGENTINA R Nacional in SP 1015, ID, tangos, cmtrys (Frodge MI 4/4)
 60698 INDONESIA RRI Jayapura in IN 1140, pops, NA 1216, QRM by CFRB (Pitts NE 4/14)
 6085 UNITED KINGDOM R Japan relay in EG 0510, nx, ID, g (Davies S AFRICA)
 6090v NIGERIA RN Kaduna in Hausa? 2218, tribal singing w/drums, ID 2230, clear of QRM until R Bandeirantes faded in and eventually overrode RN (D'Angelo 4/18)
 6090 LUXEMBOURG RL in FR 0640, ads, cmntry, jingles, ID, f (Tyle LA 4/24)
 6135 BRAZIL R Aparecida in PT 2329, IDs, slogans, fqy, promos, mx (Clar NY 4/4)
 6150 COSTA RICA AMR Latin America in SP 0606, mx, IDs, cmntry, g (Tyle LA 5/4)
 6150 MOROCCO VOA Tangier relay in Serbian *0359, fqy, ID, nx, jazz (Lamb NY 4/27)
 6155 BOLIVIA R Fides in SP 0115, excited play-by-play, IDs, ads, //4845 (Clar 4/15)
 6170 COLOMBIA VL de la Selva in SP 1017, LA mx, TC, "Caracol" promos, ID (Clar 4/7)
 6185 CHINA Huiyi BC Fuzhou in CH 1353, mx (cinema, Ch, romantic), f (Flynn OR)
 6190 LESOTHO BBC relay in EG 0339, "This Week in Africa", ID, IS, nx (Clar 4/17)
 61945 BOLIVIA R Metropolitana La Paz in SP 0125, LA vocals, ID (Clark ONT, Lamb NY)
 6205 ECUADOR HCJB in EG 0700, back on this fqy, ex-15270, //11835 (Alexander 4/3)
 6220 BULGARIA RB in lang? *0259-0359*, IS, ID, tlk, mx, f-g (Alexander PA 4/9)
 6628 PERU LV de San Antonio in SP 0255, echo anmcts, ID, jingles (Alexander 4/24)
 67243 PERU R Satellite in SP 0105, comunicados, LA mx, ID "Santa Cruz" (Clar 4/13)
 7125 ITALY IRRS Milan in EG 0235, oldies, ID, relig pgm, f (Brandi NJ 4/29)
 7155 GERMANY R Free Europe in RS 0259, ezl mx, ID, nx, //7180, g (Lamb NY 4/27)
 71732 INDONESIA RRI Serui in IN 1450, lcl pops, Jak nx relay, NA, ID (Yamada JAPAN)
 7190 YEMEN R Yemen in AR *0301, NA, ID, Quran, AR mx, nx 0330, g (Tyle LA 4/13)
 7200 SUDAN R Omdurman in AR 1512, tlks, ID, Afro mx, f-p (Serra ITALY 4/22)
 7245 ANGOLA R Nac in PT 2331, pol tlk, nx headlines, TCs, IDs, f-p (Clar NY 4/7)
 7260 VANUATU RV Vila in EG/FR/lang 0625-0700, nx in FR/langs, island chorals, ads, EG anmcts 0659, TC, sig f/o at 0700 (Murray OR 4/25)
 7260 AUSTRALIA RA in EG 1632, sports nx, ID, //9560, 13755, f (Serra ITALY 4/10)
 7388v? COSTA RICA RPPI in EG 0059, Maria Suarez w/pk re women, f (Frodge MI 4/2)
 7425nf? USA WBNM Birmingham? in EG 0006, test w/cont IS/IDs, rel pgm (Alexander 4/10)
 7445 TAIWAN VO Asia in EG 1145, lang lesson, ID, musical s/off 1200 (Brandi NJ)
 7550 SO KOREA RK in EG 2200, ID, addr, cmntrys, mx (Goetsch PA, Frodge MI 4/10)
 9370nf? USA WBNM Birmingham? in EG 0715, relig pgm, IS, ID 0728, g (Alexander PA 4/4)
 9375nf? GREECE VOG in GK/EG *2358-0350*, IS, NA, tlk, GK mx, EG pgming 0135-0155 & 0341-0349, intl nl, //9420, 11645 (Alexander PA 4/11, Jordan PA 4/26)
 9475 EGYPT R Cairo in EG 0209, Koran reading, EG trans, ID, nx, f (Keen MO 4/9)
 9505 YUGOSLAVIA RY in EG *2059-2127*, IS, ID, nx, interview, "Sports Roundup", lots of nx re civil war, lcl folk mx, //7200, 6100 (Alexander PA 4/18, Lamb NY 5/5)
 9510 AUSTRALIA RA in CH 1011, EG lesson, ID, nx 1030, f-g (Lamb NY 5/8)
 9510 UKRAINE RU Intl in EG 0011, nx, pgm on econ devel, ad, //9860, 7240 (Lamb 4/24)
 9530 NO MARIANAS KHBI Saipan in EG 1448, sports, mail, IDs, //13625 (Pappas SD 4/2)
 9535 ALGERIA RTVA in AR 2131-2203*, call-in pgm, mx, nx, ID, NA?, g (Tyle LA 5/1)
 9540 VENEZUELA RN de Venezuela in SP 1133, ID, nx/ID in EG/FR, f (Brandi NJ)
 9560 AUSTRALIA RA in EG 1630, sports nx, ID, //7260, 13755, f-g (Serra ITALY 4/16)
 9565 BRAZIL R Universo in PT 0900, vcl mx, cmntry, ads, ID, exc (Tyle LA 4/11)
 9580 YUGOSLAVIA RY Belgrade in EG 0145, nx re war in Serb Republic (McGuire MD 4/8)
 9580 OMAN BBC relay in EG *2357, bow bells, ID, under Yugoslavia 0000 (Tyle LA 5/1)
 9595 JAPAN R Tampa in JP 0758, cmntry, ads, nx 0800, exc (Tyle LA 4/14)
 9605 SLOVAKIA R Slovakia Int in EG *1830-1857*, IS, ID, sked, nx (Alexander 4/10)
 9610 AUSTRALIA ABC Perth in EG 1115, nx, promo, race results, ID (Lamb NY, Clar NY)

- 9615 ALASKA KNLS in EG 0815, 70's pop mx, cmntry re Titanic (Tyle LA 4/14) in EG 1310 pop rx, IDs, addrs, part of H. Truman speech, Bible reading (D'Angelo PA 4/4)
- 9630 BRAZIL R Aparecida in PT 0835, ID, mx, ads, exc (Tyle LA 4/14)
- 9645 BRAZIL R Bandeirantes in PT 0855, mx, cmntry, ads, g (Tyle LA 4/14)
- 9665 UNKNOWN in AR 2216-2252*, AR mx, short anmts, no ID hrd (Tyle 4/12) Any help?
- 9670 ANTIGUA Deut Welle relay in EG 0458-0516, IS, site ID, feature (Goetsch PA)
- 9675 BRAZIL R Cancao Nova in PT 0841, vocals, cmntry, TC, ID, exc (Tyle LA 4/11)
- 9695 SWEDEN RS in FR 0319, tlk re Canada's pol problems w/France, ID (Robertson 4/26)
- 9700 GRECE VOA relay in EG 2008, nx, ID, Louis Armstrong mx, g (Lamb NY 4/20)
- 9700 NEW ZEALAND RNZ in EG 0630, early on for rugby coverage, IS, ID (Rausch NJ 5/7)
- 9700 GERMANY Deut Welle in EG 0125, cmntry on homosexual men & AIDS (Levison PA 4/8)
- 9715 UZBEKISTAN R Tashkent in EG 1310, polit tlk, nx, lcl mx, f (Davenport TN 4/29)
- 9770 CYPRUS CBCG in GK 2215, IS, ID, lively cmntry, mx bridges (Tyle LA 5/2)
- 9830 CROATIA R Croatian R in EG 0702, nx, instrmtls, ID, f (Brandt NJ 4/4)
- 9870 AUSTRIA RAI in EG 0130, nx, ID, pgm on views of the press (Davenport TN 4/2)
- 9950 INDIA AIR in lang? 1416, world nx, into second unknown lang, f (Flynn OR)
- 11430ab SPAIN REE in SP 2000, USB feeder?, ID, tlk, mx, phone, f (Alexander PA 4/11)
- 11620 VATICAN STATE VR in EG *0250-0310, IS, ID, "Godfather" theme, into rpt on the Mafia debunking the romanticism, vg (Jordan PA 5/12)
- 11625 VATICAN STATE VR in PT 0544, relig tlks, class guitar mx, ID, IS (Lamb NY 4/24)
- 11660 BULGARIA Horizont in BG 0425, domest svce, pop rx, tlk, //7670 (Alexander 4/3)
- 11670 FRANCE RFI in RM 1556, IS, ID, nx re Bosnia, remote rpt (Lamb NY 4/24)
- 11680 CHINA CRI relay via Fr Guiana in EG 0400, ID, nx, polit tlk (Goetsch PA)
- 11680 GABON RFI relay in FR 0603, intl nx, press viewpoints, ID (Robertson CA 4/26)
- 11700v BANGLADESH R Bangladesh in lang 1229, IS, low modul (Clark ONT 4/18)
- 11710 ARGENTINA R Nacional in EG 0210, nx, lcl flute & drum mx, history of mineral prod in Argentina, promise QSLs (Jordan PA 5/12, Flynn OR 4/20, McGuire MD 4/9)
- 11715 MALI China R Int relay in EG 0000, nx on Waco cult ending by fire (Newbury NE)
- 11715 CANADA R Korea relay in EG 1046, mailbag, ID, NA, g (Tyle LA 4/4)
- 11735 NEW ZEALAND RNZ in EG 2100, tlk re Bosnian peace parleys, p (Jordan PA 5/2)
- 11755 FINLAND RF in EG 0452, pgm re Lutheran church, ID, nx (Serra ITALY 4/4)
- 11800 AUSTRALIA RA in EG 1615, intl nx w/foreign correspondents, ID (Robertson 5/3)
- 11805 GUAM KTVR in EG 0931, rel pgm sponsored by "Telling the Truth", ID (Goetsch PA)
- 11815 PORTUGAL R Free Europe in RM 0400, IS, ID, nx re Bosnia, vg (Lamb NY 5/4)
- 11830 ROMANIA RRI Bucharest in EG 0214, ID, cmntry on health care systems (Levison PA)
- 11845 NETHERLAND ANTILLES TWR in EG 1131, ID, "Wavelength", g (Davenport TN 4/4)
- 11869f COSTA RICA AMR in EG 1136, Youth pgm, ID, //97225 (Brandt NJ)
- 11875 JAPAN RJ Tokyo in JP 0818, variety/comedy/mx pgm, ID, g (Robertson CA 5/2)
- 11880 RUSSIA R Galaxy Moscow in EG 1900-2100*, IS, IDs, rock mx, sked, cmntry on Russ health system, ads, R Moscow pgming before 1900 (Jordan/Alexander PA, Brandt NJ)
- 11910 HUNGARY R Budapest in EG 0200, ID, nx, "World Magazine", fqys (Davenport TN 4/3)
- 11915 BRAZIL R Gaucha in PT 0014, phone rpts, cmntry, ads, TC (Tyle LA 4/12)
- 11935 CHINA CPBS Taiwan 1 in CH(p) 1155, organ mx, IS, pips, ID, nx (Jordan PA 5/6)
- 11939v CAMBODIA V Democratic Cambodia in lang 1225, lcl mx, fanfare, tlk, triplet organ mx notes, speechy tlks, stilted organ mx (Clark ONT 4/18, Jordan PA 5/6)
- 11945 UNITED ARAB EMIRATES R Dubai in EG 0329, ID, nx, req rpts, feature (Lamb 4/21)
- 11996v? PHILIPPINES PEBC in EG 1402, Bible pgm, ID, more relig pgming (Kean MO 4/10)
- 12010 RUSSIA R Centras in EG 0530, ID, QTH, mx, R Moscow pgming 0600 (Alexander 4/25)
- 12015 MONGOLIA R Ulan Bator in EG *1200, IS, ID, sked, nx, lcl mx, mixing w/two other stns, //118511 very weak (Alexander PA 4/24, Jordan PA 5/13)
- 12025 KAZAKHSTAN R Nederlands relay Alma Ata in EG 0130, nx, E of Edam (Brandt NJ)
- 12080nf BOTSWANA VOA relay in EG *0500, IS, ID, nx, "VOA Saturday Morning" (Lamb 4/24)
- 13615nf USA WBNW Birmingham in EG 2008, Catholic Mass, hymns, ID, QTH (Robertson 5/8)
- 13720nf? USA KCBI Dallas in EG 0426, "University Network" w/Dr Gene Scott, ID (Lamb 5/1)
- 13750 COSTA RICA R Lira in FR 0506, IS, IDs in EG/SP, NA, relig pgm (Lamb NY 5/1)
- 15075nf? INDIA AIR Bombay(t) in lang *1513, IS, M&W tlks, some mx, fluttery sig, WRTH 93 Tises Gujarti to E Africa 1515-1600 on 15080 (Flynn OR 4/16)
- 15180 NORWAY V of Democratic Burma(p) in BM 1433, long tlks, patriotic mx, fading sig under co-channel BBC in AR (Clar NY 4/12)
- 15205 MOROCCO VOA relay Tangier in EG 1606, ID, nx, "Focus", some QRM (Lamb NY 4/19)
- 15220 ANTIGUA BBC relay in EG 1235, interview w/past member of gang (Pappas SD 4/14)
- 15220 SO AFRICA Channel Africa in EG *0600, IS, rooster crow, tlk re Mother's Day, nx, sports, g (Lamb NY 5/8) ED: PWBR lists fcy as alternative to 15365.
- 15240 SWEDEN RS in EG 1509, rept on 105-yr-old sailing ship, Nordic literature prize, ID 1526, g (Pappas SD 4/17)
- 15240nf AZERBAIJAN V of Azerbaijan in EG *1659-1800, IS, anthem, ID, nx by M&W, lcl folk mx, wk w/co-channel QRM (Alexander PA 4/24)

- 15245 UNIDENTIFIED Unknown QTH in FR 1600-1730, repeated checks this freq during 1600-1730 slot has netted only brief 3 min window in FR 1702-05, YL w/nx, ments of Africa at other times, QRM from VOA in EG (Jordan PA 4/20) ED: Any help on this?
- 15295 UZBEKISTAN R Tashkent in EG 1220-1230*, lcl folk mx, also hd *1330-1358* in EG, short anthem, sked, ID, nx, mx, weak, //17745 (Alexander PA 4/24)
- 15305 UNITED ARAB EMIRATES Abu Dhabi in EG/AR 2205, Holy Koran w/AR to EG translations billboard, "The Poet's Voice", cmtry, //11885, 15315 (Jordan PA 5/7)
- 15325 SEYCHELLES FEBA in AR 0425-0430*, cmtry, mx, TC, freq, ID, IS, g (Tyle LA 5/4)
- 15330 BULGARIA RB Sofia in EG 0038, "Economy & Finance", IDs, sports, IS (Lamb NY 5/4)
- 15395 SRI LANKA VOA relay Colombo in EG 1624, cmtry re Gaza strip, g (Clark ONT 4/12)
- 15425 PHILIPPINES VOA relay in EG 1406, nx, IDs, "Concert Hall", f (Lamb NY 5/2)
- 15435 UNITED ARAB EMIRATES Dubai in AR 1400, ID, nx, ME mx, nx analysis, f (Lamb 5/2)
- 15495 KUWAIT R Kuwait in AR 2200-2330, f/in, AR instmtls, chorus w/voice overs, info pgm, p but //9840 g (Jordan 4/14) in AR 0120-0200*, ME mx, prayer, f (Lamb 5/11)
- 15540 BELGIUM R Vlaanderen Int in DT *1758-1900, spec bcst to Belg forces in Somalia, IS, ID, pop mx, into normal DT pgning 1858 (Alexander PA 4/25) in EG 1756, IS, ID, "Brussels Calling", f w/fading (Lamb NY 4/24)
- 15570 PHILIPPINES R Veritas Asia in EG/Urdu *1531-1602*, mx, ID, "This is R Veritas Asia broadcasting from Quezon City..." into Urdu 1535, f (D'Angelo PA 4/25)
- 15575 CYPRUS BHC relay in EG 0532, nx of Gays March in D.C., ID (Robertson CA 4/26)
- 15605nf? CZECH REPUBLIC R Prague in EG *1659, IS, ID, nx re Havel, jazz mx (Lamb NY 4/25)
- 15610 GUAM MWR in EG 2330-2345 f/out, relig pgm, f (Keen MO 4/9)
- 15630 GREECE V of Greece in GK 1520, GK mx, nx in EG 1529, into SW 1540, many IDs, 7715650, 17525 (Pappas SD 4/19, Alexander PA 4/18)
- 15635nf GREECE V of Greece in EG/GK 1335, EG nx, GK mx, //17515 (Alexander PA 4/18)
- 15650nf? USA WENN Birmingham in EG 0036-0056*, call-in show, ID, IS, f (Lamb NY 5/11)
- 15665 NO MARIANAS CSM Saipan in EG 0917, interview pgm, ID, f-p (Robertson CA 5/2)
- 17535nf? USA WENN Birmingham in EG 1559-1640, IS, ID, relig pgm, p (Alexander PA 4/18)
- 17595 MOROCCO RTV Morocco in EG 1446, Science pgm, ID, rap mx, "Wind and Weather" re hurricanes, music box, into FR 1500 (Keen MO 4/11, Lamb NY 5/9)
- 17605 KAZAKHSTAN R Alma Ata in EG *1659, IS, NA, ID, nx, lcl folk mx (Alexander 4/24)
- 17705 CUBA RHC in SP 2017, tlk re Cuban problems, ID, IS, nx, g (Serra ITALY 4/24)
- 17730 BRAZIL Swiss R relay in EG 0009, "Dateline", accordion mx, site ID (Lamb 4/14)
- 17810 BRAZIL R Cultura Sao Paulo in PT 0041, BR pop mx, IDs, //9615, f (Lamb NY 5/10)
- 17865 NO MARIANAS KHI Saipan in EG *0158, flute IS, "Monitor Radio", nx 0201, CSM pgning, vy weak, //17555 barely audible (Alexander PA 4/18)
- 17900 AUSTRALIA Australian Armed Forces Radio in EG w/spec bcst to troops in Somalia, pop mx, rx messages from family members, nx, IS 0359, into regular RA pgning at 0400, QSL available for 2 IRC's, p (Berg MA 4/12)
- 21465 COSTA RICA R Neg Mawon via RFPI in EG 1838, "Focus on Haiti", interviews, tlk re amnesty for military, ID, RFPI theme/IS, ID, f (Clar NY 4/16)
- 21480 ECUADOR HCJB in EG 2133, "Blues, Rags, & All That Jazz", ID, fqys (Lamb NY 5/2)
- 21820 SWITZERLAND SRI in EG 1512, cmtry on farmers' income, f/out 1526 (Levison PA)
- 25750 AUSTRALIA RA in EG 1925, sports nx, test xmsn to NE Africa, g (Davies SO AFRICA)

CLANDESTINE STATIONS

- 62949 Radio Caroline Europirate in EG 0100-0230, pop mx, IDs, little tlk, address PO Box 963, London, SW20, 8XL, England, g (Alexander PA 4/18)
- 6303 Unidentified Clandestine in SP 0917, Cuba?, reggae w/door bell chimes, ID?, into econ tlks, claims to "offset" R Marti, wiped out R Caroline (Davenport TN 4/29)
- 6305 LV del Cid - Guatemala in SP 0605, monolog, ID, very boring, g (Robertson 4/19) ED: This might be what Davenport hrd except that LV del Cid is Anti-Castro!?
- 9964 R Caiman - Guatemala in SP 0235, tlk re Yeltsin, Cuba, mx, ID (Goetsch PA)
- 15050usb R Patria Libre - Colombia in SP 0144, rancho mx, IDs, tlk re May Day, nx, salsa, NA, f-g (Lamb NY 4/30)
- *****

This is vacation month for me so I was unable to "hold the presses" open beyond the regular deadline. So this column is going in the mail today (May 16) to Bill Oliver. If receive any material after today, I will hold it over for next month. Greater love hath no man than Rufus Jordan who just got his loggings to me yesterday via Express Mail and we all know what that costs. Thanks Rufus and all the other contributing members for your continued support of this column. Keep the loggings coming despite the Summer doldrums.

English Schedules

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Prepared 5/26/93 at 10:56 PM.

This month, thanks to Jon Klinedinst (PA), Marie Lamb (NY), Jonathan Marks (R Netherlands), Richard Measham (BBCM), Andy Sennitt (WRTH) and Boruch Selevan (NY).

Notes

TWR Bonaire will be closing the SW operations at the end of the month. A special QSL will be issued for reception reports during the last four days of operation. See the January 1993 column for more details. Chuck Roswell and family will go on furlough before being reassigned to Monaco.

In what has to be record time recovering from the April 4 fire, WWCR returned to the air with its first transmitter on May 11. Testing early in the day turned into regular programming at 22 UT. The second transmitter returned mid-day on May 20.

Radio For Peace International suffered antenna damage in the same March storm that ravaged Cuba and the east coast of the USA. As a result, while antennas and towers are being rebuilt, not all frequencies are active. The best way to find out what's going on is to listen to the *RFPI Mailbag* show.

R Vilnius restricted its use of the CIS relay to a weekday operation and reduced the broadcast to 30 minutes due to a lack of funds. Radio Korea reorganized its broadcast schedule on May 3. Kol Israel also announced one schedule and then proceeded to do something else. Thanks to Boruch Selevan for tipping us off to the use of 15640 in the 17, 19 and 2130 UT releases.

WINB personnel are now officially denying that the station has been sold, according to Jon Klinedinst. As of mid-May, the scheduling and programming has not

changed. Jon says the local papers report John Norris only sold WGCB-AM and -FM.

Marie Lamb heard RTV Morocco in English at 14 (listed as M-F) and French at 15 on a Saturday on 17595. I checked again on May 22. I heard something start up under Moscow but it didn't sound like English and we'll have to check further. Marie also reports hearing R Ukraine Int'l at 00 UT on 9860 and 9510; Jon hears 9685. When I checked again with another bandscan on May 26, before putting this column to press, I did not hear these frequencies. Perhaps the frequency usage is irregular from day to day.

World of Radio is off WRNO. On the weekend of May 22-23 WRNO's Joe Costello abruptly canceled all airings of *World of Radio* to clear weekend airtime. Rush Limbaugh's weekday time is being doubled with a repeat at 20 to 23 UT (the live show airs 16 to 19 UT). The displaced weekday paid programs are moving to the weekends. As Glenn Hauser put it on the May 24 *DX Daily*, he has "one more reason to hate Rush..." *WoR* had aired on WRNO for 11 years. Glenn also indicated that if he doesn't get more financial support for *DX Daily*, this round of shows on WHRI may end June 4. The decision won't be made known before the *Journal* goes to press at the end of May.

Changes Afoot...

You will notice a change in the format of the schedules this month as I shift the underlying software product to a new file structure that accommodates more information for the PC user. Note the U or L after some frequencies to designate USB and LSB modes. A change of typeface allows us to include all ten frequencies in a record. There is no DX shows listing this month as I am still working on the report design.

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SCHEDULES BY SUBSTRON

START	END	COUNTRY	STATION	FREQUENCIES										TARGET AREA	NOTES	LAST UPDATE	
0000																	
0200		Cuba	R Havana	98150	6010										eNAM		04/28/93
0100		Russia	R Moscow Int'l	21790	21690	21625									World Service	13m	05/04/93
0100		Russia	R Moscow Int'l	17860	17835	17590	17570	17560							World Service	17m	05/06/93
0100		Russia	R Moscow Int'l	15580	15500	15480	15470	15385	15375	15330	15320	15220			World Service	19m	05/05/93
0100		Russia	R Moscow Int'l	13775	13725										World Service	22m	05/04/93
0100		Russia	R Moscow Int'l	11995	11975	11840	11835	11805	11790	11665	11590				World Service	25m	05/05/93
0100		Ukraine	R Ukraine Int'l	15195	15180	11720	9640	9600	9550	7240	7195	7150	6090		NAm/Eu	as hrd, not all ann	05/25/93
0700		USA	WWCR	7435											Eu/ME/NA	tx #1	05/21/93
0100																	
0200		Russia	R Moscow Int'l	21790	21690	21625									World Service	13m	05/05/93
0200		Russia	R Moscow Int'l	17860	17850	17835	17600	17590	17570	17560					World Service	17m	05/06/93
0200		Russia	R Moscow Int'l	15500	15480	15470	15385	15330	15320	15280	15220				World Service	19m	05/05/93
0200		Russia	R Moscow Int'l	13775	13725										World Service	22m	05/05/93
0200		Russia	R Moscow Int'l	11995	11840	11805	11790	11665	11590						World Service	25m	05/05/93
0200		Russia	R Moscow Int'l	9765	9530										World Service	31m	05/05/93
0145		South Korea	R Korea	15575	7550										Am/Eu		05/09/93
0130																	
0200		Austria	ORF	9880	9870	6015									NAm/SAm	#1 SSB on even # day	05/02/93
0200																	
0400		Cuba	R Havana	13660	6010										cNAM/eNAM		04/28/93
0255		Romania	R Romania Int'l	11940	11830	9570	9510	6155							NAm		05/22/93
0300		Russia	R Moscow Int'l	21790	21690	21625									World Service	13m	05/04/93
0300		Russia	R Moscow Int'l	17860	17835	17640	17570	17560							World Service	16m	05/23/93
0300		Russia	R Moscow Int'l	15500	15480	15470	15425	15410	15375						World Service	19m	05/04/93
0300		Russia	R Moscow Int'l	13775	13650										World Service	22m	05/04/93
0300		Russia	R Moscow Int'l	11995	11985	11840	11805	11665							World Service	25m	05/04/93
0300		Russia	R Moscow Int'l	9765	9530										World Service	31m	05/04/93
0300		South Africa	Channel Africa	5960											e&cA/		05/03/93
1200		USA	WWCR	5935											Eu/ME/NA	tx #2	05/06/93
0300																	
0400		Australia	Australian Armed Forces	23679	19038										Cambodia/Somalia		05/14/93
0350		Germany	R Deutsche Welle	15205	13790	13770	13610	11890	11810	9700	9640	6145	6085		NAm		05/22/93
0400		Russia	R Moscow Int'l	21690	21625										World Service	13m	05/04/93
0400		Russia	R Moscow Int'l	17860	17735	17730	17640	17590	17570	17560					World Service	17m	05/23/93
0400		Russia	R Moscow Int'l	15535	15500	15470	15415	15375	15320	15280	15220				World Service	19m	05/04/93
0400		Russia	R Moscow Int'l	13775	13650										World Service	22m	05/03/93
0400		Russia	R Moscow Int'l	12070	11985	11840	11790	11690	11665						World Service	25m	05/03/93
0400		Russia	R Moscow Int'l	9765	9530										World Service	31m	05/03/93
0400		South Africa	Channel Africa	5960	3995										e&cA/NA		05/03/93
0455		South Africa	Radio Oranje	3230											Domestic		05/03/93
0400																	
0500		Cuba	R Havana	13660	6180	6010									cNAM/eNAM	#1 -0430	04/28/93
0450		Germany	R Deutsche Welle	13770	13610	11765	11705	9765	9565	7225	7150	6145	6130		s&c&eA/ME		05/22/93
0425		Romania	R Romania Int'l	11940	11830	9570	9510	6155							NAm		05/22/93
0500		Russia	R Moscow Int'l	21690	21625										World Service	13m	05/05/93

START	END	COUNTRY	STATION	FREQUENCIES								TARGET AREA	NOTES	LAST UPDATE		
0400																
0500		Russia	R Moscow Int'l	17860	17775	17735	17600					World Service	17m	05/05/93		
0500		Russia	R Moscow Int'l	15590	15535	15500	15470	15425	15410	15280	15220	World Service	19m	05/05/93		
0500		Russia	R Moscow Int'l	13650								World Service	22m	05/04/93		
0500		Russia	R Moscow Int'l	12070	11985	11840	11790	11690	11590			World Service	25m	05/04/93		
0500		Russia	R Moscow Int'l	9765	9750	9610	9530					World Service	31m	05/04/93		
0500		South Africa	Channel Africa	7230	3995							wA/IAI		05/03/93		
0430		Switzerland	Swiss R Int'l	9535	6165	3985						Eu		04/28/93		
0430		USA	VOA	9575	7405	7280	7265	621				Africa		04/28/93		
0500																
0600		Russia	R Moscow Int'l	21625								World Service	13m	05/05/93		
0600		Russia	R Moscow Int'l	17860	17835	17735	17730	17675				World Service	17m	05/05/93		
0600		Russia	R Moscow Int'l	15590	15535	15500	15470	15425	15410	15280	15140	World Service	19m	05/05/93		
0600		Russia	R Moscow Int'l	13650								World Service	22m	05/05/93		
0600		Russia	R Moscow Int'l	12055	11985	11790	11690	11590				World Service	25m	05/05/93		
0600		Russia	R Moscow Int'l	9765	9750							World Service	31m	05/05/93		
0600		South Africa	Channel Africa	9695								wAI		05/03/93		
0625		South Africa	Radio Oranje	4875								Domestic		05/03/93		
0515		Switzerland	Swiss R Int'l	9535	6165	3985						Eu		04/26/93		
0530																
0555		Romania	R Romania Int'l	17790	17745	17720	15380	11840				AI		05/22/93		
0600																
0700		Russia	R Moscow Int'l	17860	15470	15425	15140	15125	13650	12055	11985	9765	9750	World Service	#3&4 wNAI pgm	05/06/93
0700		South Africa	Channel Africa	15220										Far wAI		05/03/93
0645		South Korea	R Korea	15155	11945	7275								wNAI/GOS		05/09/93
0603																
0615		Croatia	Croatian Radio	13830	9830	5920									News/English	05/03/93
0630																
0725		South Africa	Radio Oranje	5965								Domestic				05/03/93
0632																
0642		Romania	R Romania Int'l	11810	9665	9510	7225					Eu	news			05/22/93
0645																
0715		Romania	R Romania Int'l	17805	17720	15335	15250	11775				Pac				05/22/93
0700																
0730		Australia	R Australia	21740	17715	15365	15320	15240	6020			As/Pac/Pap/NG				05/01/93
0830		Ecuador	HCJB	214550	15270	11835						Eu				05/01/93
0800		Russia	R Moscow Int'l	17735	17660	17570	17560					World Service	17m	05/06/93		
0800		Russia	R Moscow Int'l	15590	15470	15280	15225					World Service	19m	05/06/93		
0800		Russia	R Moscow Int'l	12070	12055	12010						World Service	25m	05/06/93		
0800		Russia	R Moscow Int'l	9750	9670							World Service	31m	05/06/93		
0900		USA	WWCR	9370								Eu/ME/NAI	tx #1			05/21/93
0715																
1125		Ecuador	HCJB	214550	11925	9745						sPac				05/01/93
0730																
1525		South Africa	Radio Oranje	7125								Domestic				05/03/93

SCHEDULES BY SUBSTATION

START END	COUNTRY	STATION	FREQUENCIES							TARGET AREA	NOTES	LAST Update			
0755 0915	Guam	KTWR	15200							FE		05/22/93			
0800															
0900	Russia	R Moscow Int'l	17890							World Service	17m	05/06/93			
0900	Russia	R Moscow Int'l	15590	15490	15225	15125				World Service	19m	05/06/93			
0900	Russia	R Moscow Int'l	12070	11800						World Service	25m	05/06/93			
0900	Russia	R Moscow Int'l	9895							World Service	31m	05/06/93			
0845	South Korea	R Korea	15575	13670	7550					ME/Al/Eu		05/09/93			
0803															
0815	Croatia	Croatian Radio	13830	9830	5920						News/English	05/03/93			
0855															
1000	Guam	KTWR	11805							sPac		05/22/93			
0900															
1000	Australia	Australian Armed Forces	25323	20419						Somalia/Cambodia		05/14/93			
0950	Germany	R Deutsche Welle	21600	17800	15410	9565				e&c&s/Al		05/22/93			
1000	Russia	R Moscow Int'l	21785	17890	17775	17760	17590	15490	15140	12070	11800		05/06/93		
1000															
1100	Russia	R Moscow Int'l	21785	21690	21600	21465						World Service	13m	05/04/93	
1100	Russia	R Moscow Int'l	17875	17835	17815	17775	17760	17735	17660	17645	17590		World Service	17m	05/04/93
1100	Russia	R Moscow Int'l	15490	15320	15225	15155	15140						World Service	19m	05/04/93
1100	Russia	R Moscow Int'l	13650										World Service	19m	05/04/93
1100	Russia	R Moscow Int'l	12070	11805	11800								World Service	19m	05/04/93
1045	Switzerland	Swiss R Int'l	9535	6165									Eu	04/26/93	
2400	USA	WWCR	15685										Eu/ME/r/Al	tx #1	05/21/93
1030	Yugoslavia	R Yugoslavia	11805	9580									Eu	05/20/93	
1100															
1150	Germany	R Deutsche Welle	21695	21600	17860	17800	17765	17715	15410	15370			w/Al		05/22/93
1200	Russia	R Moscow Int'l	21785	21690	21465								World Service	13m	05/04/93
1200	Russia	R Moscow Int'l	17890	17875	17815	17760	17755	17735	17730				World Service	17m > 17.7 MHz	05/04/93
1200	Russia	R Moscow Int'l	17675	17660	17595	17590							World Service	17m < 17.7 MHz	05/04/93
1200	Russia	R Moscow Int'l	15590	15540	15525	15490	15420	15405	15320	15225	15155		World Service	19m	05/04/93
1200	Russia	R Moscow Int'l	13650										World Service	19m	05/04/93
1200	Russia	R Moscow Int'l	11800										World Service	25m	05/04/93
1130															
1600	Ecuador	HCJB	214550	17890	174900	15115	11925						NAm/SAm	#4 -1430	05/08/93
1227	Netherlands	R Netherlands	9860	9650									Eu		05/20/93
1200															
1300	Australia	Australian Armed Forces	23679										Cambodia		05/14/93
1255	Poland	Polish Radio Warsaw	11815	9525	7145	6135							Eu		05/07/93
1300	Russia	R Moscow Int'l	15550	15540	15525	15490	15470	15440	15320				World Service	19m > 15.3 MHz	05/06/93
1300	Russia	R Moscow Int'l	15290	15280	15225	15220	15155						World Service	19m < 15.3 MHz	05/06/93
1245	South Korea	R Korea	9600										GOS		05/09/93
0200	USA	WWCR	13845										Eu/ME/r/Al	tx #2	05/06/93
1203															
1215	Croatia	Croatian Radio	13830	9830	5920									News/English	05/03/93

SCHEDULES BY SUBSTATION

START End	COUNTRY	STATION	FREQUENCIES							TARGET AREA	NOTES	LAST UPDATE	
1320													
1327	Netherlands	R Netherlands	9860	9650							Eu		05/20/93
1300													
1325	Israel	Kol Israel	17590	17575	15650	15640	11603	11587			wEu/eu/NA/m/Aus/As	Su-Th	05/09/93
1400	Russia	R Moscow Int'l	21785	21465							World Service	13m	05/06/93
1400	Russia	R Moscow Int'l	17760	17735	17595						World Service	17m	05/06/93
1400	Russia	R Moscow Int'l	15550	15480	15470	15440	15355	15280	15225	15110	World Service	19m	05/06/93
1400	Russia	R Moscow Int'l	11995	11870	11835	11800	11705				World Service	25m	05/06/93
1329	South Korea	R Korea	13670	9570							seAs/GOS		05/09/93
1500	USA	WEWN	17535								aAI	bd#2-Program B"	05/22/93
1400													
1500	Australia	Australian Armed Forces	13599								Somalia		05/14/93
1500	Russia	R Moscow Int'l	17760	17735	17595	15480	15290	15225	15125	15110	World Service		05/08/93
1500	South Korea	R Korea	6135	5975							GOS		05/09/93
1430													
1455	Romania	R Romania Int'l	17720	15335	11775						As		05/22/93
1500													
1550	Germany	R Deutsche Welle	21600	17765	13610	11965	9735	7185			s&c&eAI/ME		05/22/93
1615	Guam	KTWR	15610								sAs	We-Su -1630	05/22/93
1555	Poland	Polish Radio Warsaw	11840	9525	7285						Eu		05/07/93
1600	Russia	R Moscow Int'l	17760	17735	15290	11875	11705				World Service		05/08/93
1530													
1725	South Africa	Radio Oranje	4875								Domestic		05/03/93
1600													
1700	Russia	R Moscow Int'l	17760	17735	15290	15185	15180	11940	11875	11870	World Service		05/08/93
1700	South Africa	Channel Africa	15220	4945							wAI/e&c&sAI		05/03/93
1645	South Korea	R Korea	5975								GOS		05/09/93
1630													
1800	Ecuador	HCJB	21480	214550	17790						ME	Arabic Sa 1745/Su 17	05/08/93
1700													
1715	Israel	Kol Israel	17575	15640	11675	11587	7465				AI/wNA/mwEu/NA/m		05/08/93
1800	Pakistan	R Pakistan	15550	11570							wEu		05/09/93
1755	Poland	Polish Radio Warsaw	9525	7270							Eu		05/07/93
1800	Russia	R Moscow Int'l	21670	17760	17735	15385	15290	15180	12065	12050	World Service		05/06/93
1800	South Africa	Channel Africa	11750	4945							wAI/e&c&sAI		05/03/93
1730													
1927	Netherlands	R Netherlands	21590	21515	7120	6020					e&wAI	#2 ->17655 for 3 wks	05/20/93
1800	Romania	R Romania Int'l	17805	17745	15365	15340					AI		05/22/93
1800													
1830	Portugal	R Portugal	9780								Eu	M-F	05/08/93
1900	Russia	R Moscow Int'l	21670	17760	15290	15190	15185	15150	12015	11685	World Service		05/25/93
1900													
1950	Germany	R Deutsche Welle	17765	15390	15350	13790	13690	11810	11785	11740	wAI/ME		05/22/93
1930	Israel	Kol Israel	17575	15640	11675	11603	11587	9435			AI/wNA/mwEu/LA/NA/m		05/09/93
1930	Lithuania	R Vilnius	9710	9675	1557	666					Eu		05/04/93
1930	Portugal	R Portugal	17900								AI	M-F	05/08/93

SCHEDULES BY SUBSTRON

START	END	COUNTRY	STATION	FREQUENCIES							TARGET AREA	NOTES	LAST Update
1900													
2000	Romania	R Romania Int'l	15365	11940	11810	9750				Eu		05/22/93	
2000	Russia	R Moscow Int'l	21670							World Service	13m	05/06/93	
2000	Russia	R Moscow Int'l	17875	17760	17560					World Service	17m	05/04/93	
2000	Russia	R Moscow Int'l	15580	15525	15490	15480	15425	15185	15180	15150	World Service	19m	05/06/93
2000	Russia	R Moscow Int'l	12015	11870	11760	11685	11630			World Service	25m	05/06/93	
1930													
2025	Poland	Polish Radio Warsaw	9525	7285	7270	6135				Eu		05/07/93	
2000													
2100	Russia	R Moscow Int'l	21670							World Service	13m/R Aum 2030-	05/06/93	
2100	Russia	R Moscow Int'l	17875	17560						World Service	17m/R Aum 2030-	05/06/93	
2100	Russia	R Moscow Int'l	15525	15490	15480	15340	15180	15150		World Service	19m/R Aum 2030-	05/06/93	
2100	Russia	R Moscow Int'l	11870	11800	11760	11730	11685	11675	11630	World Service	25m/R Aum 2030-	05/06/93	
2100	Russia	R Moscow Int'l	9880							World Service	31m	05/06/93	
2100	Russia	R Moscow Int'l	7300							World Service	41m	05/06/93	
2100	USA	KJES	9510							w/Canada	irregular	05/01/93	
2030	USA	VOA	21485	17895	17800	15580	15495	15410	13710	11785	621	Africa	04/28/93
2030													
2059	South Korea	R Korea	9870	9640	6035	5975				GOS/Eu		05/08/93	
2100													
2150	Germany	R Deutsche Welle	15360	13690	11785	9765	9670			As/Pac		05/22/93	
2150	Germany	R Deutsche Welle	15350	15135	9640					w/Al		05/22/93	
2300	Iraq	R Iraq Int'l	11805							Eu	irregular	05/22/93	
2200	Romania	R Romania Int'l	11940	9750	9690	7225	7195			Eu		05/22/93	
2200	Russia	R Galaxv	11880							w/Eu/cEu		05/23/93	
2200	Russia	R Moscow Int'l	17570	17560						World Service	17m	05/06/93	
2200	Russia	R Moscow Int'l	15580	15525	15480	15470	15385	15355	15340	World Service	19m > 15.3 MHz	05/06/93	
2200	Russia	R Moscow Int'l	15290	15290	15180	15150				World Service	19m < 15.3 MHz	05/06/93	
2200	Russia	R Moscow Int'l	13775							World Service	22m	05/05/93	
2200	Russia	R Moscow Int'l	11870	11800	11760	11750	11730	11690	11685	World Service	25m	05/05/93	
2200	Russia	R Moscow Int'l	9880	9820	9815	9640				World Service	31m	05/05/93	
2200	Russia	R Moscow Int'l	7300	7230						World Service	41m	05/04/93	
2103													
2115	Croatia	Croatian Radio	13830	9830	5920						News/English	05/03/93	
2130													
2200	Ecuador	HCJB	21480	21455U	17790	17490U				Eu		05/01/93	
2200	Israel	Kol Israel	17575	15640	11675	11603	11587	9435		LA/wNA/n/NA/wEu		05/08/93	
2200	Lithuania	R Vilnius	9710	9675	1557	666				Eu		05/04/93	
2145													
2245	South Korea	R Korea	15575	6480						Eu		05/09/93	
2200													
2300	Russia	R Moscow Int'l	17675	17570	17560					World Service	17m	05/06/93	
2300	Russia	R Moscow Int'l	15580	15535	15525	15330	15290	15220		World Service	19m	05/05/93	
2300	Russia	R Moscow Int'l	13775	13725						World Service	22m	05/04/93	
2300	Russia	R Moscow Int'l	11975	11840	11835	11805	11750	11665		World Service	25m	05/06/93	
2300	Russia	R Moscow Int'l	9815							World Service	31m	05/04/93	

START	SCHEDULES BY SUNDRSTROM										TARGET AREA	NOTES	LAST Update	
End	COUNTRY	STATION	FREQUENCIES											
2200			9640	7275							saAs/GOS		05/09/93	
2400	South Korea	R Korea	15315	15305	11805						NAm		05/09/93	
2400	United Arab Emir	V of UAE												
2300														
2330	Lithuania	R Vilnius	11750								NA/Eu	M-F	05/02/93	
2400	Russia	R Moscow Int'l	21690	21625							World Service	13m	05/04/93	
2400	Russia	R Moscow Int'l	17850	17675	17570	17560					World Service	17m	05/06/93	
2400	Russia	R Moscow Int'l	15580	15535	15525	15500	15480	15330	15320	15290	15220	World Service	19m	05/05/93
2400	Russia	R Moscow Int'l	13775	13725							World Service	22m	05/04/93	
2400	Russia	R Moscow Int'l	11975	11970	11905	11840	11835	11805	11665		World Service	25m	05/05/93	
2400	Russia	R Moscow Int'l	9815								World Service	31m	05/04/93	
0300	South Africa	Radio Orion	3230								Domestic		05/03/93	

Late-breaking Clandestine News. A clandestine station has been discovered in the aircraft band operating on 8840 and 8850 kHz. Allan Courtney (KY) found it while several of us were participating in the Sunday, May 23rd, night *GENie Radio RoundTable Conference*. Another participant who speaks several ME languages says the slant is anti-Iranian. It's been on three of the last four nights. On UT 24 May the signal was in the clear from 0145 to 0215 before the jammer showed up. On the following nights, the jammer showed up early on. The clandestine jumps every few minutes between 8840 and 8850 kHz, and the jammer follows 30-to-60 seconds later. As we couldn't identify the station, I asked BBC Monitoring to take a look (fax machines are useful tools). BBCM and I note it from around 0130 UT. Here on the east coast typically the strong signal starts to fade around 0215 and disappears by 0245 UT. (Geoclock shows this to be one to two hours after sunrise in the area, twilight in Egypt.) The jammer seems to be stronger than the broadcaster, and only starts to fade 20 or 30 minutes later. BBCM noted the clandestine signing off at 0328 on 27 May. David Kenny of BBCM/WBI on 27 May wrote: "We think your clandestine on 8840/8850 is Voice of Mojahed ("Sedaye Mojahed") in Persian/Farsi - we observed the station this morning from approx 0130 tune-in until sign-off 0328. As when you heard it, the frequency jumped between 8840 and 8850. Quite a strong signal here, but severe jamming at times." Thanks to David Kenny and BBCM/WBI for the quick response and help in identifying the station.

Tom Sundstrom

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