

New Arrivals at Universal Radio!

YAESU

FRG-100



The new Yaesu FRG-100 receiver provides the performance of a quality communications receiver at an affordable price. It provides solid coverage from 50 kHz to 30 MHz in CW, SSB and AM modes (FM mode with optional #0618). The latest microprocessor technology is used to merge performance and reliability with easy operation and functional simplicity. The FRG-100 incorporates features that both the casual and serious shortwave listeners will appreciate. Reception modes and most receiver functions are push-button selectable from the front panel. A crisp back-lit LCD with adjustable brightness provides frequency read-out and important operational status at a single glance. Selectable tuning steps of 10 Hz, 100 Hz and 1 kHz are standard, with other tuning steps programmable by the user. Fifty tunable memories store frequency, mode and filter information. Two additional memories provide band-edge information used for scanning. The FRG-100 has programmable 12/24 hour clocks and sleep timers to enable you to automatically switch the receiver on/off to record your favorite broadcasts. Multi-function scanning (memory, band, selectable group or priority) with carrier or time-delay is supported. A special broadcast band mode enables convenient selection of 16 pre-programmed international broadcast bands. The FRG-100's adjustable SSB carrier offset permits you to custom tailor the receiver's audio response. CW enthusiasts will enjoy the reverse BFO offset and selectable CW sideband. Installation of the 250 or 500 Hz narrow filter further enhances CW reception and interference rejection. Other features include adjustable AGC, RF attenuator, noise blanker, all-mode squelch, and signal strength meter. The Yaesu CAT system provides a direct link to the CPU in the FRG-100, allowing a personal computer with the optional Yaesu FIF CAT interface. This can provide computer controlled customized scanning and remote control of most receiver functions. Other options include: TCXO-4 Hi-Stability Osc, FM-100, and CW filters.

SPECIFICATIONS

Dimensions	..... 9"W x 3.6"H x 9.3"
Weight	..... 6.6 Lbs. (9 Lbs. ship)
Frequency Range	..... 50 - 30000 kHz
Power	..... 11-13.5 VDC 1 2A
Antenna Impedance	..... 50 or 450 ohm
Selectivity (-6dB)	..... AM-W 6.0 kHz AM-N 4.0 kHz SSB/CW 2.4 kHz FM (opt.) 15.0 kHz
Sensitivity	..... <25 µV 1.8-30 MHz SSB < 1 µV 1.8-30 MHz AM (S+N/N=10dB)
Freq. Stability	..... < 10 p.p.m. 0-50°C
Intermediate Freqs.	..... 1st IF = 47.21 MHz 2nd IF = 455 kHz
Audio Output	..... 1.4 Watts at 8 Ohms
Squelch Sensitivity	..... <2 µV 1.8-30 MHz (CW, SSB, AM) <32 µV 28-30 MHz (FM)
IF Rejection	..... >70 dB (1.8-30 MHz)
Image Rejection	..... >60 dB (1.8-30 MHz)
Standard Steps	..... 10Hz/100Hz CW/SSB 100Hz/1kHz AM/FM
Circuit Type	..... Dual Conv. Superhet.

FRG-100 List Price \$599.00
FRG-100 Discount Price
 Order #2786 **\$549.95 (+\$9)**

Quality **US** Tech

8A



The World Access Radio model 8A was completely designed and built in the United States. Over 75% of the total dollar value of the components are made in America. This continuous coverage, LED digital receiver tunes 100 kHz to 30 MHz to include longwave, medium wave and all of shortwave. The 8A also receives the FM broadcast band! The dual converter circuit provides good sensitivity and image rejection. A 7 kHz bandwidth is supplied. You can tune the 8A with the manual tuning knob or by the built-in keypad. Shortwave tuning resolution is user selectable at 1 or 5 kHz. Sixty non-volatile memories store frequency and band (AM/FM or SW). The 8A can band scan or scan presets. It has a telescopic antenna plus you can also attach a long wire antenna for extra pulling power on FM and shortwave. A full featured (12 or 24 hour) clock-timer circuit is featured with a 12 event timer. A rear mounted DIN jack is provided for record-out and recorder activation. The 8A comes with a power adapter (115VAC to 9 VAC) and is ready to play. In attractive light oak wood-like grain cabinet. Optional wood cabinets available soon. 12"W x 7"H x 5"D.

World Access Radio 8A

List \$296.95

Order #1483

\$239.95 (+\$6)

WORLD RADIO TV HANDBOOK 1993 Edition

Considered the SWL's Bible with schedules, frequencies and addresses of shortwave broadcast stations. Organized primarily by country. Also includes a by-frequency listing of SWBC stations. 47th Ed. ©1993 Billboard. 608 p.
 Order #2000 \$19.95 (+\$1 shipping)

THE 1993 WRTH EQUIPMENT BUYERS GUIDE

By W. Bos & J. Marks. A complete and objective buyer's guide to the current shortwave receiver market. Designed for the new or experienced worldband listener. Coverage includes portables and communications receivers, plus antennas, auto units and computer control software. ©1993 Billboard. 270 p.
 Order #1993 \$19.95 (+\$1 shipping)

DISCOVER DXING! - AN INTRODUCTIN TO TV, FM AND AM DXING

By John Zondlo. This book provides a readable introduction into DXing AM, FM and TV. Topics include: propagation, seasonal conditions, equipment, antennas and reference materials. There is an excellent section on "best bets" for hearing fifty states on AM. ©1992 Universal Radio Research.
 Order #0010 \$4.95 (+\$1 shipping)

► **HUGE 1993 catalog available on request!**
 ► **Used Equipment List available on request!**

SANGEAN

ANT-60

The Sangean ANT-60 portable "roll-up" shortwave antenna will improve the reception of any portable worldband receiver. The antenna wired may be extended up to 23 feet (7 m). Unlike other reel antennas, the ANT-60 terminates with a mini-plug. (3.5 mm). This will plug into the external antenna jack of most portables. If your receiver does not have a mini external antenna jack, an adapter plug is provided to clip the ANT-60 to your telescopic whip. Works with all brands of portable radios.

Sangean ANT-60

List \$15.95

Order #3184

\$10.95 (+\$3)



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 6830 Americana Pkwy.
 Reynoldsburg, Ohio
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NASWA Notes

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



Hello and welcome to Springtime! The Browns had a wonderful time at our first ever visit to Disney World. After our family vacation I sent the rest of the Browns home and I stayed for another week at WDW for the Microsoft Tech-Ed Conference, which was a very good conference for us computer technoids. On my last day there, it was 80 degrees and I was relaxing by the pool. The next day I was snapped back to reality with the "Storm Of The Century" dumping snow on Philadelphia. Yes, I'm ready for Spring.

Winter SWL Festival

On the third weekend of February, 206 radio enthusiasts converged on the tiny burg of Kulpsville, PA for the 6th Annual Winter SWL Festival. I'm not sure how we can keep improving on the Fest, it seems that every year turns out to be the "best one yet". All of us in attendance had a great time and for

those of you who couldn't attend I'll try to describe what went on.

Unlike prior Fests, this year's event was 2 full days, Friday and Saturday. Folks started arriving in Kulpsville as early as Wednesday. A group of us got together Wednesday evening for dinner. Half the fun of attending these events is getting together with a group for meals and yakking about radio and having some laughs. For some reason, I laughed more at this Fest than any other. You know as well as I that laughing is a great stress reliever and it's great to leave the stresses of the real world behind for a few days.

Thursday at noon is when the Fest "officially" opens with the ceremonial tapping of the 1st barrel of Molson, the official tuning oil of the Fest. Our own Richard Cuff did a fantastic job in managing the hospitality

Welcome to the following new NASWA members -

Adolph Auerbacher, Chappaqua, NY
Linda L. Boyce, Philadelphia, PA
Craig E. Brown WB6AVX, Bend, OR
Colleen Cary, Maple Grove, MN
Larry Compton, REP. OF SINGAPORE
Ken Cusick, Jacksonville, FL
Thomas F. Davis, Fairfield, CT
Donald H. Eubanks, Rockford, IL
Anne Fanelli, Elma, NY
John Patrick Feeney, Syracuse, NY
John M. Fickewirth, Ojai, CA
Brian J. Gibson, Toronto, ONTARIO
Robert A. Gleason Jr., Johnstown, PA
Captain G.L. Grosso, Jaffrey, NH
Charles Hammond, Chicken, AK
David Hannon, Clifton, NJ
Brian M. Harriger, Miamisburg, OH
J. R. Haight, Stanardsville, VA
Alfred R. Hoermann, Flushing, NY
Chris Hynes, Eric, PA
Patrick C. Jeffrey, Greenwich, CT

Thomas F. Johnson, Waterbury, CT
William L. Johnson, Tacoma, WA
Brandon Jordan, Memphis, TN
Jeff Kane, Brooklyn, NY
Loy W. Lee, Richmond, KY
Rick Mace N8VKE, Valley City, OH
David M. Martin, Atlanta, GA
William McGuire, Cheverly, MD
Thomas J. McKeon, Indianapolis, IN
Tom Miner, Bow, NH
Michael Monaco, Gloversville, NY
Kent Montgomery, Oxnard, CA
Glenn W. Morris, McConnellsburg, PA
Hal E. Nichols, Little Rock, AR
Wallace N. Peters, St. Paul, MN
Mr. Dusan Rysula, Sunnyside, NY
Claude SImone, Abington, PA
Mr. L. E. Szulczewski, Appleton, WI
Randall Trapp, Dodge Center, MN
John Vodenik, Mason, OH
Tony Ward, Whitby, ONTARIO

Our Motto Is - "Unity and Friendship"

room which was sponsored by Gerry Dexter and Tiare Publications. Alan Johnson took charge of the technicals regarding the installation of an antenna on the roof of the Holiday Inn and he provided coupling for the receivers that were going to be displayed in the main ballroom. A number of the clubs started setting up their displays and by late Thursday afternoon the ballroom setup was well underway. The ballroom is the main exhibit hall. Ten clubs were on display as well as Japan Radio Company, Gilfer SW, and others.

The Fest got underway on Friday morning with Skip Arey conducting a Beginner's Forum. Following Skip, Dave Schmidt, Kermit Geary and Ben Dangerfield discussed Mediumwave Trans-Atlantic DXing. After

lunch, Richard Cuff held a forum on Easy Listening. Next, George Zeller and Andrew Yoder conducted a forum on Pirate Radio. The last forum of the day was a VOA forum conducted by John Vodenik.

Saturday morning forums started with Hans Johnson discussing The Art and Science Of DXing. Following Hans, Rich Arland talked about Identifying and Quieting Noise Sources. After lunch, we saw a presentation on The Best of The Past, Present, and Future Receivers by David Clark, Alan Johnson, and Elton Byington. Next, Joe Buch gave us his Antenna Lowdown.

After a brief rearranging of the ballroom, we all reconvened for the evening festivities.

Calendar Of Events

- Apr 16** - Meeting, Boston Area NASWA Chapter, New Location 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).
- Apr 16** - Meeting, Philadelphia Area NASWA Chapter. Kulpville Holiday Inn, Kulpville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Apr 17** - 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
- Apr 20** - 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
- Apr 23-25** Dayton Hamvention, Hara Arena, Dayton Ohio. For general info, call (513)454-1456 or FAX (513)890-5464 Attn: Hamvention, or write Dayton Hamvention Informaiton, P.O. Box 964, Dayton, OH 45401-0964. The SWL/Scanner forum will take place on Sunday morning (see NASWA Notes for details)
- May 2** - 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.
- May 5** - Special Meeting, Boston Area NASWA Chapter, Old Location GTE Labs, Waltham, Mass. This will be a special meeting with Rich McVicar of HCJB. 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).
- May 21-23** The Fourth Annual Conrad Family Reunion (SWL/DXer gathering) will be held at the Holiday Inn at 529 Park Plaza Drive in La Crosse, WI 54601. Reservations can be made at (608)784-9500. Room rates were quoted as \$69/night for 2 adults and 2 double beds. More info, if wanted, can be had by calling Jim Conrad around 16-1800 GMT and 02-05 GMT at (319)232-7307. Bring comfortable clothes, this is strictly informal.

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

Harold "Hausie" Hausenfluck and 2 local musicians, Paul and Susan, provided some "Good Old Mountain Music" during the cocktail hour. Hausie, who many of you know from the ANARC SWL Net as WB4JSP, is blind. This disability has not stopped him from becoming a champion banjo and fiddle player and he and his friends really sounded great. Hausie ended the performance with some interesting interpretations of well know interval signals, including Song Of The Coconut Islands, all played on his fiddle!

After the banquet meal, I acted in Steve Forest's absence and presented the annual ANARC awards. The 1993 awards were: North American DXer of the Year - Richard A. D'Angelo, North American Utility DXer of the Year - Mike Hardester, International DXer of the Year - Gabriel Ivan Barerra. In addition, two special awards were issued. John Clark received a "certificate of appreciation" for his outstanding work with the RCMA (Radio Communications Monitoring Association) over many years and CIDX (Canadian International DX Club) was recognized with a "Spirit of DXing" award for their fine work in issuing QSLs on behalf of Radio Canada International.

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 and Dave Kirby N8JQX host an always lively gang of DX monitors. (Best heard in the eastern half of NAM)

Following the awards presentation, Rich McVicar of HCJB gave an interesting talk on HCJB, The Voice Of The Andes. After listening to Rich week after week on DX Partyline it was great to meet and chat in person. Thanks for coming Rich!

The last event at the banquet is the prize giveaway. As usual, we had a lot to give away with many contributions and purchased prizes. The highlights of the giveaway were a Lowe HF-150 and a Japan Radio Company NRD535D. Mark Zealor won the Lowe and Bill Oliver won the NRD535. Both Mark and Bill literally leaped out of their chairs when

HELP WANTED!

It is with great disappointment that I have to announce that Dan Ferguson will have to give up doing Listeners Notebook. Dan has been doing a great job for us but do to demands on his time he must pass the editing duties to someone else. Dan said that he can do May, and if necessary June, but that is it. We need some help folks! If we are going to maintain the quality information that Listeners Notebook provides then we need an editor who can weed through all the information provided him/her every month and put together the column. I personally would do it, and I would like to do it, but I would have to have someone pick up the desktop publishing duties I now do. I am currently pasting up (in Pagemaker), NASWA Notes, DXers Forum, Tech Topics, Equipment Reviews, Awards, Listeners Library, and Contributors Page. There is no way I can add editing Listeners Notebook to that list, however, like I said, if I could pass along the desktop publishing duties for those other columns to someone else, I could do LN. Or, I can continue doing all these and someone else do LN. The LN editor gets the weekly BBC Monitoring Service mailed directly to him as well as other club bulletins such as Shortwave News from Danish Shortwave Club International. Mike Fern has been doing a great job providing Dan with data on diskette. Although I have not had a chance to correspond yet with Mike about this I believe that he would continue to help out the new editor. If you can help in any way with either providing some desktop publishing help or editing LN you will be doing NASWA a great service. Please contact me directly by mail or at (215)822-1046 evenings if you have questions. If you write, please give me your telephone number so I can call you. It's time to regroup to continue to provide the membership uninterrupted service. Thanks!

their names were called. Thanks to Paul Lannuier and Japan Radio Company for their sponsorship of the Fest with the NRD535!

With the pulling of the big ticket, the festivities in the ballroom ended. Many went to the hospitality room for more refreshments and laughter as Pancho made his midnight ride. Goodbyes, See Ya Next Year, etc. were passed around and most hit the snowy highway early Sunday morning. Luckily, the Fest wasn't scheduled the same weekend the Storm Of The Century was!

There are a lot of people to thank for the success of this year's Fest and for fear of missing anyone let me just say a big THANKS to all of you that helped - you know who you are!

On Monday morning, Harold Cones and I visited with Terri at the Holiday Inn and booked next year's Fest for March 10-12, 1994. See ya then!

New Zealand DX Radio Association

I received a very nice letter from Noel Brown informing me that this year sees the 60th anniversary of NZDXRA. The club was begun on January 17th, 1933 and the first edition of Tune In, the monthly magazine was published March 10, 1933. The club is fairly small, but has an active membership in the South Pacific, with readers in other parts of the world who get the magazine to follow stations better received in that part of the world. New Zealand has long been known as a prime DX location. If any NASWA members should wish to send greetings to the NZ DX Radio Association, the editor is Ron F. Killick, 67 Dunbars Road, Christchurch 3, New Zealand. Thanks Noel for the nice commemorative pennant. Best wishes and congratulations from NASWA to NZDXA on their 60th Anniversary!

2 Meter SWL Net In New York City

Barry Schwartz, N2SHP dropped me a card to tell me that he is starting an SWL net on a repeater in NYC. The frequency will be 145.350 MHz and the net will convene on

Tuesdays at 9PM EST. Barry and Baruch Selevan are also interested in starting a NASWA chapter in NYC. If interested, contact Barry at 72-22 153 Street #2H, Flushing, NY 11367.

ANARC Update Available

ANARC has received a number of letters requesting information about subscriptions to the old ANARC Newsletter and to the new ANARC publication, *Update*. Executive Council has decided that individual hobbyists may write to obtain a current copy of Update by send a Self Addressed Stamped Envelope (SASE) and US \$1.00 (or 2 International Reply Coupons [IRC's]) to Bill Kurrasch, 5607 Lincoln Rd., Ontario, NY 14519. Under no circumstances will requests be filled without both conditions being met. Executive Council does not plan to compete with member clubs by offering subscriptions nor does it intend to over burden their Publisher by maintaining a mailing list. There will be no subscription payments accepted for *Update*. Requests from hobbyists located overseas should contain a Self Addressed Envelope (SAE) and US \$2.00 (or 4 IRC's). All requests should go direct to the publisher. This is a one issue at a time offer.

Dave Marshall and the All Ohio Scanner Club will be representing ANARC at the Dayton Hamvention the weekend of April 23-25 at the Dayton Hara Arena, Dayton Ohio. The program includes an SWL/Scanner Forum moderated by Mike Schulsinger on Sunday from 11:15 to 1:00 PM featuring: Bob Grove (Monitoring Times) - "Ideal Receiver". Judd Sheets (Opto Electronics) - "Hobby Uses of Near Field Receivers and Frequency Counters". Ian McFarland - "Short-wave Broadcasting Topics"

Where Did The Musings Go?

Musings was going great for quite a while and I haven't received any now for 2 months. What happened? Please write and muse a little about what you've been doing or contribute some verbage for this column. If you've got an idea about a Musing Topic please let me know.

Till next month - 73

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 @WB3JOF

This month Andrew Yoder tells us all about DXing Europirates. Hank Michalenka takes us to Hawaii and a visit to the NOAA Ionospheric Research Station located on Maui. **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.

European Pirate Dxing

by Andrew Yoder*

When DXers aim for tough shortwave regions, the stereotypical targets are Peru and Indonesia. Granted, most of these stations are excellent catches, but most people forget about Europe. Although Europe is peppered with high-powered international broadcasters that can probably all be heard on your toaster, few DXers ever target the European pirates, which often only broadcast with just a few watts. Others only see European pirates as a novelty—something to try for while waking up with some coffee before that Bolivian station starts to fade in. Fact is, the European pirates present some of the best DX that is available: the powers are extremely low, the broadcasts are often in English, the QSL packages are very nice, and you can even pick up a few new countries in the process; best of all, it's fun!

History

In contrast to American pirates, which began strictly as hobbies or pranks, European pirates were inspired by unlicensed commercial shipboard pop stations. The first of these, Radio Mercur, operated from off the coast of Denmark in 1958. From that time throughout the 1960s, offshore radio was the craze in Europe—especially in England. During this

time in Europe, the broadcasting regulations were very tight and only government-owned stations that offered no pop/rock music were authorized. So, without any competition, offshore stations, such as Radio Caroline, were the first outlet where Europeans could hear such bands as The Beatles, The Who, and The Rolling Stones.

By the early 1970s, most European countries had passed broadcasting laws, which prevented anyone from that particular country to work for or advertise on an offshore station. This closed down nearly every offshore station, and Radio Caroline was one of the few stations to survive this period. At this time, around 1972, the land-based pirates began to broadcast much in the same manner as their offshore predecessors. The emphasis was generally on pop music, jingles, fast-talking American-style disc jockeys, and sometimes commercial advertising.

Because few independent stations were yet broadcasting at that time, the pirates had a large audience—even on shortwave. The Dutch medium-wave pirate, Radio Nolan, said that they could receive over 100 letters for a one-hour broadcast in the late 70s/early 80s! However, European pirate audiences have declined in close proportion to the sales

* P.O. Box 209
Blue Ridge Summit, PA 17214

of Rubik's Cubes over the past decade. Some of the possible reasons include the great increase in local independent radio stations and also the boom in FM pirate radio (Pirate Chat newsletter listed 28 FM pirates from London in July/August 1992 alone!).

Operations

The differences between the operating styles of European and North American pirates are immense. For starters, shortwave pirate radio is a low priority for the DTI (the equivalent of the FCC in many European countries). With the many 24-hour FM pirates in operation, they have much more on their minds than catching someone on 6228 kHz for a few hours every month. This frees stations to operate for longer periods of time and at regular schedules. Even when a station is raided, the fine is usually very small in comparison to fines from the American FCC. Some stations, such as Radio Orang Utan in Holland, have operated for years, have been raided several times, and take pride in the fact that they have been raided and still continue to broadcast. Also, Ireland is virtually a free territory for broadcasting. The Irish government pressured the 24-hour station, Radio Fax, to close in September, but that is about the extent of the state's actions. A handful of other stations air regular programming from Ireland, including Ozone Radio, Jolly Roger Radio, and Radio Stella (the Scottish-programmed pirate that operates overnight every Saturday/Sunday). The 24-

hour shortwave station, Radio Merlin International, which was busted in England in December 1991, is also rumored to be setting up an Irish transmitter site.

Because pirate radio has been alive and well in Europe for over 20 years, the cat-and-mouse method of operation is more sophisticated than that of pirates in North America. Nearly all shortwave pirates, except for those in Ireland and Holland, use low-power transmitters that can be operated from a car battery and an inverter. The station personnel merely drive to a good broadcasting site, set-up the equipment, begin broadcasting, and leave the site. They will either return in a few hours after the program has finished or they keep a lookout at the transmitter site to avoid a raid. With this style of operations, it is more likely that someone will steal the cassette player and the transmitting equipment than it is that the station will be raided!

The low-power is also more conducive to use in Europe because the countries are smaller. Most English pirates are concerned with covering the British Isles and not much else. English is not the first language of people in continental Europe, so most of these listeners are oriented more toward pirates from continental Europe. In North America, virtually everyone from Alaska to Florida speaks English, so the pirates over here try to use powers above 50 watts. This desire to cover the continent is why North American

FROM THE REPUBLIC OF IRELAND



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INTERNATIONAL RADIO STATION

DATE



106FM + 6,220KHZ
LOCAL SHORT WAVE

106 MHZ 6,220 KHZ

stations are much more likely to broadcast with large ac-powered transmitters or use SSB modulation, which are both relatively rare in Europe (especially the use of SSB).

The standard European pirate broadcasting band is 6200-6300 kHz. The next band, 7300-7450 kHz, has been used for years to a much lesser degree in the summers. Unlike in North America, where all stations use a few different pirate channels, European stations have their frequencies, and it is rare for one station to "tail-end" another to pick up their audience. Even when QSOing with other stations, each station usually stays in its own frequency. However, with increased emphasis on the international nature of European shortwave broadcasting since the mid 1980s, more stations are using higher frequency channels. For example, many stations in Europe and North America now run international tests on approximately 11400 and especially 15050 kHz.

Programming is also much different on European pirate stations than in Europe. Most of these stations are entirely music-based. Station quality is most likely to be judged by how professional the jingles are and how close the announcer can imitate an American commercial DJ. North American stations generally avoid imitating commercial stations at all costs and the programming runs the gamut from terrible to excellent and/or eclectic. To the Europirates' credit, regular stations are expected to air at least 20 hours per month, which leaves barely any time for creativity.

Tuning In

For years, the standard day for shortwave pirate broadcasting has been Sunday mornings. So, the only chance for North Americans to hear these stations was to get up very early and hope to log a station near its sign on. Now that some stations test at other times and on other frequencies for North American listeners, it is possible to log a few stations in our afternoon or evening hours. Still, some of the best opportunities for listening are in the fall through spring from when the stations sign on until the sun rises at the transmitter site. This time frame is generally about 0800 UTC. If conditions are

good and a number of stations are on, you might be able to log a few stations on an early Sunday morning.

As you might expect, location of the transmitter and receiver sites makes a big difference with if the signal is heard. For example, anyone further west than Western Pennsylvania will have a difficult time logging Europirates on 48 meters (although these stations have been heard into the Midwest). The further East your location is, the better the signal will be. For example, DXers in the



The Voice of Ireland on Short Wave

Boston area will have a better chance than listeners in New Jersey or Virginia. For that matter, Jean Burnell in St. Johns, Newfoundland, Canada has an easier time logging pirates from Europe than he does from North America! The further east the transmitter site is in Europe, the more difficult it will be to log in the early morning hours because of the earlier sunrise. Thus, early morning German stations are rarely heard in North America. Fortunately, the new Russian pirates have been testing at night so that they are possible to be received in North America. The only way to be successful in DXing Europirates is to be informed. The regular broadcasts are extremely weak and special tests to North America are not common. The expensive way to go is to join one or more of the European newsletters. The ones I receive are FRS Goes DX, Pirate Chat, and Free-DX. All of these are excellent, and each slants toward a specific direction: FRS Goes DX toward offshore and continental pirates, Pirate

Chat toward English shortwave and FM pirates, and Free-DX toward English pirate logs. Each of these covers the entire shortwave pirate scene, but these slants are the differences in the coverage.

The less expensive way to go is to subscribe a good bulletin (such as *The Journal*) and to be informed. Read logs of these stations and look for patterns. Fine Tuning, Pirate Pages, and the 7240 ANARC Net all occasionally give advance notice for tests. The ACE sometimes has some more indepth coverage of European pirates. If you do hear a station and need a definite ID, address, etc, you can always write to one of these newsletters or call the ANARC Net for help. I am always happy to spare an address for someone who wants to write for a QSL. The following list of pirates and frequencies are for some of the more widely and regularly heard stations at this writing. Some of the stations use VFOs or have a number of alternate frequencies, so I just picked their main or most regular frequencies. Of course a few of these stations, frequencies, and/or addresses will change by the time this is published, but it should be a good place to start from. Happy DXing!

Some of the active Stations

- 6200 Radio Delta (Ruurlo) ¹
- 6201 Radio Orang Utan ²
- 6214 Radio Costello
- 6221 Dun Laoghaire Local Radio ³
- 6225 Capital Radio Int'l ⁴
- 6226 WGPO
- 6232 Jolly Roger Radio ⁵
- 6260 Radio East Coast Commercial ⁶
- 6262 Northern Ireland Relay Service ⁷
- 6265 Radio Silverbird Int'l ⁸
- 6275 Radio Delta (Elburg) ⁹
- 6276 Romantic Space Radio ¹⁰
- 6276 Radio Without Borders Int'l ¹⁰
- 6276 Subterranean Sounds ¹¹
- 6280 Ozone Radio Int'l ¹²
- 6290 Radio Orion ¹³
- 6290 Radio Piraña International ¹⁴
- 6290 Weekend Music Radio ⁷
- 6290 Live Wire Radio ²³
- 6291 Total Control Radio
- 6295 PFBS ¹⁵
- 6305 Radio Caroline ¹⁶
- 6400 WNKR ¹⁷
- 6538 Station Sierra Sierra
- 6550 Radio Brigitte ¹⁸
- 6911 Radio Dublin ¹⁹

- 7360 Britain Radio International ²⁰
- 7380 Weekend Music Radio ⁷
- 7415 Radio Mi Amigo ¹⁷
- 7446 Radio Stella ⁷
- 7473 Radio Waves Int'l ²¹
- 7475 Live Wire Radio ²³
- 7484 Radio Marabu ¹⁷
- 9987 Subterranean Sounds ²⁰
- 11401 Radio Waves Int'l ²¹
- 11413 Radio Stella ⁷
- 11415 Radio Titanic ¹⁷
- 13950 Radio Piraña International ¹⁴
- 15040 Radio Piraña International ¹⁴
- 15043 Weekend Music Radio ⁷
- 15050 PFBS ¹⁵
- 15050 Live Wire Radio ²³
- 15052 Radio Gloria ²²
- 21460 Radio Piraña International ¹⁴
- 21490 Live Wire Radio ²³

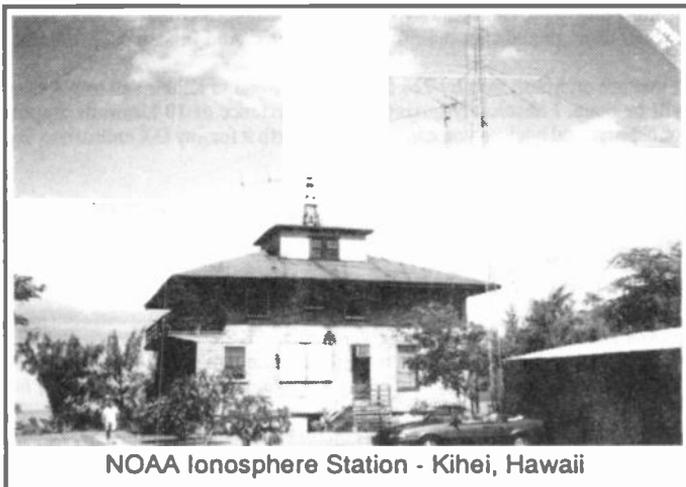
- 1 Box 65, 7260 AB Ruurlo, Holland
- 2 Box 114, 7040 AC 'sHeerenberg, Holland
- 3 DLR, Dun Laoghaire, County Dublin, Ireland
- 4 c/o Fax, The Forge, Cranleigh, Surrey GU6 7BG, UK
- 5 JRR, Box 39, Waterford, Ireland
- 6 RECC, K Flats, 9-11 Church St., Cromer, Norfolk, NR27 9ER, UK
- 7 14 Stone Row, Coleraine, County Londonderry BT52 1EP, Northern Ireland
- 8 Box 13, 7595 ZG Weerselo, Holland
- 9 Box 41, 8080 AA Elburg, Holland
- 10 Box 29, Moscow 109444, Russia
- 11 32 Victoria Road, Salisbury, Wiltshire SP1 3NG, England
- 12 Gary Lewis, 18 Shancastle Lawn, Quarry Vale, Clondalkin, Dublin 22, Ireland
- 13 6 Worcester St, Wolverhampton, West Midlands WV2 4LD, UK
- 14 Stefan Printz, Kamnarsvagen 13D:220, 22646 Lund, Sweden
- 15 Box 386, 5900 AJ Venlo, Holland
- 16 c/o Offshore Echoes, Box 1514, London W7 2LL, UK
- 17 Box 220342, 5600 Wuppertal 22, Germany
- 18 Brigitte van Gelder, Box 10, 7954 ZG Rouveen, Holland
- 19 Dublin 8, Ireland
- 20 32 Victoria Road, Salisbury, Wiltshire SP1 3NG, UK
- 21 Box 130, 92504 Rueil Cedex, France
- 22 Box 293, Merlin, ONN0P 1WO, Canada
- 23 30 Pinewood, Ballybrack, Ireland

Picture the Ionosphere....

by Hank Michalenka*

While visiting Hawaii on vacation, we stayed part of the time in Kihei, on the southwest corner of Maui. During our travels around the area, we came upon a collection of antennas right on the beach in a cluster of buildings behind a locked fence. Next to the "No Trespassing, Property of the US Government" signs was a small sign that proclaimed this to be the NOAA Ionospheric Research Station. After several unsuccessful passings by the locked fence, one evening the gate was left open. Considering this to be just like an engraved invitation, I drove in and met Stephen Barnes, Jr., an electrical engineer who was the son of the station manager. We arranged for a tour, even though his father was mainland at the time.

The site consists of several storage buildings/garages, an electrical building, and a two-story house/laboratory. This place has quite a lot of history; the beach it is on has an ancient Hawaiian healing pool (besides an incredible view!) Originally, the buildings were used for degaussing minesweepers in World War II (by sailing between two submarine cables and turning on the current). After that, it became the original site for WWVH! As I looked through my old WRTVHs, they moved to Kauai in 1972.



NOAA Ionosphere Station - Kihei, Hawaii

Presently, the station has two purposes. The first is straight-forward: they monitor WWVH on 5, 10 and 15 mHz with strip chart recorders using an S-125 (inoperable), an FRG-7 and two SP-600 receivers. The old-timers will recognize those sets with envy! These charts are constantly watched for drop-out. I was told if there was a sudden fade out, " We notify the military." I didn't ask who or where (seeing as I'm already behind the "Keep Out" signs anyway), and wasn't volunteered the information, but you can kind of figure things out for yourself.

The main equipment is an "ionosphere recorder C-2". If you don't have one of these things in your basement or garage, put it on your birthday list (though they haven't been made in something like forty years!). This is basically a low-frequency radar set with a very special purpose for people like us. Here's what it does; follow along closely ...

Every fifteen minutes around the clock, the transmitter powers up and shoots 10 kilowatts straight up. The frequency of this burst starts at 250 kHz and sweeps continuously to over 20 mHz in just twenty seconds! At the same time, two oscilloscopes provide the results of the receiving side; one for visual use, the other for photographic recording. Inside the laboratory, they develop the film (and subsequently send it along to Boulder). After development, they go through the process of "scaling". this entails projecting the transparency onto a logarithmic overlay, thereby quantifying the data and

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computing the MUF, along with complete sideways pictures of the ionospheric layers! How would you like to know what the ionosphere looked like every fifteen minutes? Stephen showed me several examples of the ionospheric pictures in sequence (like a flip chart), and it is incredible to watch the layers wander and disappear over time!

There is apparently a network of these transmitters around the world, and Stephen has done repair work seemingly everywhere. He tells me one of the biggest problems is that the cows in England tend to do something untoward with the antennas over there, causing the occasional missing data in the reporting process.

Stephen Barnes, Sr. is an avid ham (KH6SB) (note the initials in the call). You can find him working promarily 12 and 17 meters, but normally on 21272 at 2000 UTC. He has been working with NOAA to allow him to provide tours (officially) of the site, since there always seem to be people like me who wander through and sign the official guest book. And I mean people from all over the world!

If you are on Maui, stop by 726 South Kihei Road in Kihei. You might like to write first, so the gate will be open. I absolutely guarantee the experience of 10 kilowatts zipping past your ear up to the ionosphere and back so you can watch it is worth it for any DX enthusiast. By the way, the rest of Maui is nice, too.

Hardware Bits

by Alan Johnson

KIWA FILTER BOARD - I recently installed a KIWA filter switch board in a FRG-7, with excellent results. The product's quality is outstanding. For complete information about this company's products, contact Kiwa Electronics, 612 South 14th Avenue, Yakima, WA 98902; 800-398-1146.

DAR ELECTRONICS - This Chelsea, MA company has been advertising as a source for National Co. owner's manuals. According to Barry Wiseman in the March 1993 issue of Electric Radio magazine, there have been complaints that orders have not been filled and that the firm is not responding to messages left on their answering machine.

DSPAUDIO FILTERS - Timewave Technology, Inc. offers two digital signal processing audio filters to reduce noise and interference. The DSP-9 is \$149 and the deluxe DSP-59 is \$299. The company can be reached at 2401 Pilot Knob Road, St. Paul, MN 55120; 612-452-5939.

PORTABLE SOLDERING IRON - Steven Roberts gives a rave review of the Ultratorch, a butane-fired pencil soldering iron, in the April 1993 issue of 73 Amateur Radio Today. Price class is \$60 - \$80, depending on model. Contact Master Appliance, P.O. Box 68, Racine WI 53401; 800-558-9413.

AFBOX-1 - Electron Processing, Inc. has introduced the AFBOX-1, which allows for connection of the speaker output of a receiver to a hi-fi amp. The small box contains an isolation transformer and attenuator circuit to minimize hum and noise and allows feeding both channels of a stereo amplifier. Price is \$30 plus \$5 shipping. Electron Processing, Inc., P.O. Box 68, Cedar, MI 49621; 616-228-7020.

DIAMOND D-505 MOBILE ANTENNA - In my review of the Phillips DC-777 automobile SW radio, I speculated that this mobile active antenna might help improve reception. Bill Bowers loaned me the evaluation sample of the wideband D-505 mobile antenna that he tested for his active antenna comparison tests that were published in the '92-'93 edition of Fine Tuning's Proceedings. He found this antenna's performance to be so dismal that he didn't include it in his review. My preliminary tests confirm his findings. Maybe this was just a bad sample, but my advice would be not to buy one of these antennas unless you are sure that you can return it for a refund.

Easy Listening

Richard D. Cuff
213 Parkview Avenue
Allentown, PA 18104-5323
GENie R.CUFF
MCI Mail 375-4854
CompuServe 71207,1604
Prodigy NCHT70A

Radio Deutsche Welle

Deutsche Welle's 0300-0350 UTC broadcast beamed to North America now has an abbreviated edition of European Journal to make room for feature programming heard on other Deutsche Welle English broadcasts but missing from those targeted to North America.

I've spent some time listening to the 0300 broadcast this past month, so I'll fill you in on some of the programs. The News still opens the broadcast to 0310, and European Journal runs from 0310 to 0335 on Tuesdays through Saturdays.

The Sunday program essentially duplicates the 0100 and 0500 lineup, featuring Nickelodeon, a German music request program, alternating with Mailbag. Deutsche Welle's program lightheartedly answers listeners' letters. Deutsch? Warum nicht!, the current German By Radio course, then follows both Nickelodeon and Mailbag.

The Monday program is the same as in the other North American releases, featuring Living In Germany and Random Selection. The Living In Germany segment was particularly interesting, with a frank background piece on the increasing right-wing violence in Germany.

Tuesdays 0335 - Economic Notebook is featured, or, it's supposed to be featured. The program I taped had the newscaster mention Economic Notebook in his closing comments, but European Journal rolled right on through the hour as it does in most other releases. Deutsche Welle's program guide says Economic Notebook looks at economic matters in Germany and around the world.

Wednesdays 0335 - Insight is featured. This program resembles The World Today on the BBC World Service: One current affairs (normally on politics) subject is covered in detail. The edition I listened to discussed the upcoming French national elections, their likely outcome,

and their effect on France's political parties and political process.

Thursdays 0335 - Deutsch - Warum Nicht? is Deutsche Welle's current German by radio offering. This is also aired in all North American releases on Sundays.

Fridays 0335 - Science And Technology is the featured program. The edition I heard featured a detailed review of Lufthansa's purchase of new Airbus Industrie aircraft. The review was quite understandably favorable - the Airbus consortium includes significant German interests. The other science features included pharmaceutical research and German participation in the Russian Mir space program. German participation in the flight cost much less than Germany will have to pay NASA for an upcoming Space Shuttle flight including two German astronauts.

Saturdays 0335 - Through German Eyes, in-depth interviews with German journalists where they share their perspective on world affairs, follows European Journal in all three releases.

Voice of Nigeria

News about Africa is hard to come by - news from Africa even harder. This time of the year, the Voice of Nigeria could be considered a reasonably easy catch at 0455 through 0700 in English on 7255 kHz. A half-hour news program begins at 0530, featuring news about Nigeria, news about other African countries, and general world news. The timing isn't exactly convenient for prime time North American listening, but a timer and tape recorder can easily remedy that fact. Reception isn't consistent, and co-channel interference is a problem, but it's worth the effort for the variety.

BBC World Service Highlights

The Spotlight on South Asia series finishes up this month. Specific program highlights are in the News and Feature Programs section. News and Feature Programs

Sundays 0230 through April 25th - *Indians Abroad* takes a look at how Indian culture and society have migrated abroad. Indians in Tanzania, Fiji, and England are each featured in a weekly installment. Repeated at 1615 and Mondays 0730.

Mondays beginning April 5th, 0101 - *Breakfast of Champions* looks at how five world-class athletes start the day on their home turf. The program explores whether or not a nutritious breakfast and morning workout is any better than a cup of coffee and a morning newspaper as part of an overall training regimen. Chris Boardman (a gold-medal cyclist), Chris Eubank (the current WBO Super-Middleweight champion), and Chen Xinhua (Britain's table tennis champion) are among those interviewed. First airing Saturdays 1901; also airs Mondays 1530.

Mondays beginning April 5th, 0415 - *An English Alphabet* is a new 13-part series on some of the more everyday aspects of life in England. Each program looks at two letters of the English alphabet - with one word comprising the subject matter for that letter. For example: *Allotments* deals with the practice of setting aside government land for small community gardens - which is gaining favor with English young people. *Fish 'n' Chips* is the subject when the program gets around to the letter F. Also airs 0915 and Wednesdays 1515.

Wednesdays, 1235: - *The flip side to Fame* (see below) is *Whatever Happened To...?*, a weekly 10-minute series that follows the lives and careers of the recently famous. One highlight from April's roster is Pierre Salinger, press secretary for JFK (April 7th). First airing Mondays 1635; also airs Tuesdays 0750.

Thursdays, beginning April 8th, 0030 - *It's Magic!* is a three-part series chronicling the story of conjuring, tricks, and illusions through the ages. Brian Sibley hosts and subjects himself to the wizardry of Jack Delvin of the renowned worldwide society of magicians known as the Magic Circle. The front cover of *BBC Worldwide* this month shows Delvin levitating the 220-pound Sibley. Magicians from ancient times through Harry Houdini to the present are profiled. First airing Wednesdays 1530; also repeated Thursdays 1030.

Friday, April 9th, 1215 - *The Poisoned Leaf* investigates India's significant tobacco industry. With few health restrictions or grass roots anti-smoking campaigns, many of the world's

largest tobacco companies are aggressively promoting their products in India. Also airs at 0730 and 1930.

Mondays beginning April 12th, 0115 - *The Making of the Middle East* looks at the development of today's Middle Eastern states from the end of World War I forward. The time just after World War I reflects the process of carving up political entities by Great Britain and France. This should be especially interesting from the British perspective given Britain's nurturing of such middle Eastern states as Jordan, Israel, and the UAE. First airs Sundays 1915, also repeated Mondays 1530.

Mondays beginning April 12th, 2315 - *But Why A Degree?* explores the value of a college education and its value even when the subjects studied had no direct relevance to one's career choice. It will be interesting to see if the British angle on this debate differs from the debate here in North America. Subjects that can be studied both on and off campus are reviewed by Michael Diamond. Repeats Tuesdays 0445 and 0930.

Fridays, April 23rd and 30th, 1215 - *Fame* is an interesting-looking series on the riches and risks associated with being famous. Nowadays, in this media-saturated world, it seems one can become famous merely for the sake of being famous. Emma Freud discovers how fame has become an international cult - with its own angels, devils, worshippers, and victims. The concept is viewed from the anthropological perspective, as well as the from the practical perspective of the industry of keeping the famous famous via public relations, image, and style selection. Among the presenters: Mark Tully (BBC Delhi correspondent) and British celebrity interviewer Terry Wogan. An aside: From my visits to the UK the past couple years, Wogan appears to be the best-known talk show host in the UK, a la Johnny Carson here in the USA. Also airs 0730 and 1930.

Wednesdays beginning April 28th, 0130 - *Sound Business* talks to small business experts in the UK and explores how four internationally-based companies are dealing with the challenges of cash flow, product targeting, and marketing techniques.

Drama

Sundays, 0101 - *Highlights on Play of the Week*: April 11th - *A Scourge of Hyacinths* was specially commissioned for radio and was written

by Nigeria's most famous dramatist, Wole Soyinka. Miguel is a new prison inmate incarcerated by the military government, who could change the rules and either execute him or commute his sentence. Miguel tells his cell-mates how his chances of escape were damaged by the spread of water-hyacinths through Nigeria's lakes and rivers. April 25th - Venus and Adonis is an adaptation of William Shakespeare's first published poem. Adapted for radio by Marcella Evaristi and aired in honor of the anniversary of Shakespeare's birth. Play of the Week is repeated at 1201 and 1901.

Fridays, 0230 - Highlights on Thirty Minute Drama: April 15th - Say Something Happened explores the pride of the elderly in the face of an eager young social worker wanting to provide safety and security for those considered "at risk". April 29th - Simon explores the life of a modern-day trial lawyer and how he tries to stay the course when immersed in the lives of people in desperate situations. Thirty Minute Drama also airs Thursdays at 1130 and 1715.

Music

Tuesday, April 6th, and Thursday, April 8th, 2315 - One of the traditional music works performed in Holy Week preceding Easter is J. S. Bach's St. Matthew Passion. Conductor Sir David Wilcocks introduces highlights from his own two recordings of the St. Matthew Passion. The Bach Choir, the boys of St. Paul's Cathedral Choir, and the Thames Chamber Orchestra are featured. The program follows the two part structure envisioned by Bach. Part 1 also airs Sunday the 4th at 1515 and Tuesday at 0815. Part 2 also airs Good Friday, April 9th, at 0815 and 1515.

Mondays beginning April 12th, 0145 - World Bandstand is a new classical music series featuring woodwind and brass ensembles from around the world. The Tokyo Kosei Wind Orchestra, The City of London Wind Ensemble, and the USAF Band In Blue are among the featured groups. Repeated Tuesdays 1445 and Fridays 0415.

Sundays beginning April 25th, 0445 - Pop The Question sorts through pop music trivia facts, figures, and fiction to answer some of life's most perplexing questions. For instance: Did Jailhouse Rock sell more copies than Love Me Tender? How do Techno' and 'Rave' music differ? Is Prince taller than Kylie Minogue? Send your question to Pop The Question] at the usual BBC Bush House address. Also airs Mondays 1445, Wednesdays 0815.

A New Arrival]

No, not a another new baby...a new radio. After frying my Sangean ATS-803 in January, I have now purchased a Sony ICF-2010 from the Sony outlet in nearby Lancaster, PA. It has many handy features for my style of listening - the four programmable timers are particularly handy.

E-Mail Connectivity]

I have decided to cancel my CompuServe subscription, in order to save some dollars. CompuServe members can still E-Mail me at my MCI Mail ID shown above.

Those who would have joined the GENie on-line service but haven't due to telephone costs may benefit from GENie's addition of SprintNet (what used to be called Telenet) access numbers. SprintNet numbers do carry a \$2 per connect hour surcharge, but that is less expense than a long distance phone call.

Those with access to the Internet can exchange E-mail with CompuServe, MCI Mail, and GENie users. CompuServe and GENie both charge extra for sending messages to and receiving messages from Internet users. With GENie, the GENie member must also pay a one-time registration fee.

Until next month,

73 DE Richard

WANTED: Yaesu FRG-7 owner's manual. Will pay postage, etc. I would also like to contact any Long Island NASWA members. Errol Urbelis, 563 Meadow Roadm Kings Park, NY 11754. Phone (516) 269-5913.

WANTED: Datong PL-3 and Lowe HF-150. Hans Johnson, 7529 Red Cravat Ct., Cloumbia, MD 21046. Phone (410) 381-5691. No collect calls, please.

FOR SALE: Sony ICF-SW7600 portable. New with box and all accessories. \$150.00. Marv Kamin-sky, 24 Bordeaux Drive, Flanders, NJ 07836. Phone (210) 927-1053 evenings.

Asian Destinations

Mitch Sams
779 Galilea Court
Blue Springs, MO 64014



Welcome to 'Asian Destinations' for April. This month a follow-up on the Tuva item in the January column and Asian DX from a recent DXpedition.

TUVA FOLLOW-UP

I really appreciate the response received from readers answering my questions about Tuva, the remote Russian republic situated on the Mongolian border. *Jim Feeley* in Georgia wrote to remind me about his book review in the July '92 Journal of *Tuva or Bust!*. This book, written by Ralph Leighton (W.W. Norton & Company, 1991), subtitled "Richard Feynman's Last Journey", is an account of the famous physicist's and two friend's attempt to visit what they considered to be the most obscure country in the world.

John Fisher, Chelmsford, MA, provides the interesting shortwave related details from *Tuva or Bust!*. It is Ralph Leighton's account of his attempt to QSL Tuva - "...I set my alarm clock to 3:55 AM for a few nights and tuned in 3995 kHz....Most of the time I got one signal - presumably Yuzhno-SakhalinskBut one night I got two signals, one faint and one loud. The fainter one said something like "Rabeet Tivah" before it was drowned out by the louder one. I played a tape of "Rabeet Tivah" to Mary Zirin, who thought the words might be "Govorit Tuva". That prompted me to send a reception report to Kyzyl". John wrote to Leighton and asked him if he ever received the QSL - he never did.

Andrew Wallace, of Lowell, MA, adds the following: Richard Feynman was the one who dunked the Challenger O-ring in ice water to prove they were unreliable in freezing temperatures (read his excellent book *Surely You're Joking, Mr. Feynman!*). He collected stamps and discovered the wonderful triangular Tuva stamps from the 1930's. *Tuva or Bust!* includes a sound-sheet of Tuvan throat-singing. If you've never heard this, you'll be amazed. Basically the singer seems to sing a low square-wave note, which produces lots of harmonic overtones. He then modulates those overtones with his mouth. The effect is that of a singer accompanied by a whistle or flute. Radio Moscow recently spotlighted this in one of their programs on the World Service. The Discovery Channel on cable TV had documentary last year

called "The Lost World of Tannu Tuva". I recently picked up a CD of Tuvan music, put out on the prolific Smithsonian Folkways label. It's called *TUVA: Voices from the Center of Asia*. Catalog CD SF 40017, and even a digital recording!

Andrew continues: Leighton and Feynman used a Russian book in their Tuvan searches. I managed to find a copy for \$5 at one of those traveling discount book sales: *Nomads of South Siberia*, by Sevyan Vainshtein. Cambridge University Press - the book is the English translation, is illustrated and about 300 pages! Ralph Leighton also started an organization called *Friends of Tuva*, Box 70021, Pasadena, CA 91117. Simply send them as many SASEs as you want to receive issues of their newsletter. They offer a two page catalog of some really neat Tuvan stuff - Tuvan music, stamps, Defense Mapping Agency Tuva maps, postcards, souvenir pens and pendants, etc.

Mike Fern, Covina, CA, provides the phone number for Leighton's Tuva Hot Line - (213) 221-TUVA. Mike also sent a copy of a January 10, 1993 article in the Orange County Register about a Tuvan musical performance at the Bowers Museum of Cultural Art in Santa Ana. The article describes the Tuvan throat music as low and eerie, like a bear with laryngitis. Bowers Museum (2002 N. Main St.) offers tapes (\$10) & CDs (\$15) of the Tuvan performance. *Neil Olien* of Boulder, CO says that *Tuva or Bust!* is available in paperback from Penguin Books. He also notes that from the book, it is clear that Tuvan is a quite different and difficult language.

Al Sgrosso in Lexington, MA forwards a newspaper article about the Tuvan musical tour appearance in Boston. The article mentions the fact that the Tuvans appeared on horseback in the Rose Bowl Parade and were guests of honor at a party-cum-recording session at Frank Zappa's house, at which they jammed with Zappa, Indian violinist Shankar, Johnny (Guitar) Watson, and the Chieftains. Thanks also to *Emilio Toro* in Tampa, FL for forwarding Tuva info.

Since my last column a new station has landed on Tuva's listed frequency of 3995 kHz. Its *Radio Republik Indonesia Pontianak* and is well heard on this frequency here in the midwest US. This means that it will be very

difficult to hear Tuva on this channel - if they are even active on shortwave anymore.

STILLWATER DXPEDITION

On the weekend of March 20-21 I got together with *Kirk Allen, John Bryant and John Wilkins* for some radio-in'. We gathered at John Bryant's house out in the country near Stillwater, Oklahoma. John's wife, Linda, was as usual a very gracious co-host.

We had two 450-foot beverage antennas strung up, one pointing NW/SE and the other pointing NE/SW. John had also acquired an interesting and useful piece of military surplus gear from Dan Ferguson - an amplified antenna splitter capable of serving a few dozen radios!

We had the best of both worlds as far as DXpeditioning goes. We were "roughing it" in John's DX-mobile. It is a small camper trailer with just enough room to seat all 4 of us. The trailer was located in John's backyard so we weren't far from modern conveniences.

We had drawn up a hit-list prior to the DXpedition and hoped to zero in on some Asian DX. This is a good time of the year, during the equinox, to catch Papua New Guinea, Indonesia, Southeast Asia and China. It is usually around equinox when we are able to log the elusive flea-powered 2 MHz Indonesian RPDs and Amateurs.

Propagationally speaking things were quite different on Saturday than they were on Sunday. This can be attributed to two events that are possibly related. First, there was an increase in solar activity late Saturday, and secondly long path propagation didn't open up until later in the morning on Sunday. We noticed Saturday morning that signals from Southeast Asia and PNG were much better on the NE/SW beverage, indicating long-path propagation. Indonesia and PNG were in early and at strong signal levels. At this time of the year the northerly propagation path near the north pole which is dominant during the winter, begins to swing southward because the north pole is now coming into more constant daylight.

However, on Sunday morning just before and after sunrise things seemed to be a bit dead. The long-path beverage (NE/SW) didn't outperform the NW/SE beverage and while conditions were overall were good, it seemed that nothing new was being heard. But

around 1245 UTC we noticed a sudden increase in signal strengths from Asia, as well as the appearance of Indian regionals on 3277, 3255 and 3355 kHz - which is unusually late in the season for 90 meters - *all on the long-path beverage*. Just as surprising was the solid logging of an Indian regional on 4760 kHz (hopefully Andaman Islands), at equal level to the Chinese outlet here - again very late in the year for this to happen. It was also at this time that Kirk found an unidentified Indonesian on 2885.5, which peaked nicely around 1250 UTC.

Long-path propagation on the tropical bands stayed in till just past 1400 UTC and allowed us to hear some things that we normally don't catch. It seemed as if signals were in from everywhere - lots of Chinese regionals, CIS regionals, Indonesia, Vietnam, Papua New Guinea, India, Bangladesh, Pakistan and Malaysia were all well represented on the tropical bands. This was the first time that I was able to hear Thailand's external service in English on 4830 kHz in the 60 meter band.

So, it would seem that the occurrence of long-path propagation to Asia (NE/SW) is the key to rare DX at this time of the year.

ASIAN HITLIST

I thought it might be interesting to extract a few of the more unusual items I found as I was putting together a hitlist for the Stillwater DXpedition.

Recently reported in OZDX, the *New Star Broadcasting Station* from Taiwan. Heard on 15388 kHz around 1000 UTC. An English service has been reported from *Bishkek, Kirghizia* on 4010 kHz (parallel to 6080 kHz) from 0010-0015 UTC. From the Philippines a rare one: *Radio Mindoro/FEBC-Baco* on 3329.3 around 2320 UTC or 1100 UTC. I have seen only a couple of North American loggings for this one. Besides Radio Bosnia which had been active on 6220 kHz you can try for the Radio Yugoslavia transmitter at Bijeljina, which is located inside of Bosnia's eastern border. The program is *Radio of the Bosnian Serbs* on 9720 kHz until 2128 UTC sign-off.

Thanks again for your letters, much appreciated. Before I go, anybody know where I can get some good Indonesian recipes? 73zzz, Mitch

Тываның Өңнүктери

The Friends of Tuva newsletter. Sixth issue: Spring, 1993

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THE GREAT KULPSVILLE EXPERIMENT

The 1993 Winter SWL Fest at the Kulpville, PA Holiday Inn was a rousing success. An unusual experiment, not on the planned program, was conducted late Friday evening. This experiment is the topic of this month's column.

The Great Kulpville Experiment explored one of the oldest but least documented types of receiving antennas, the biological antenna. Have you ever noticed that when you touch your finger to the antenna connector of a shortwave radio that reception improves? The human body makes a pretty good antenna. Biotechnology stocks have captured the fancy of Wall Street. The application of biotechnology to shortwave listening is a wide open field for the experimenter. A group of DXers was sitting around the lobby of the Kulpville Holiday Inn discussing the interesting phenomenon when one of the gang suggested that it would be interesting to perform some quantitative measurements of this effect.

We had a ready group of enthusiastic and well lubricated volunteers who willingly contributed to this advancement of science. The data has now been reduced and certain interesting correlations are readily apparent between different individuals and their efficiency as receiving antennas. Those results are presented herein as an enduring contribution to the vast (some would say half-vast) body of antenna theory for the SWL.

1. CAPTURE AREA

The capture area of the human body is proportional to the cross-sectional area expressed by the equation of the form:

$$A = K \left(\frac{\text{Height} \times \text{Girth}}{\text{Pi}} \right)$$

Where A = Capture Area
K = Cones constant (see text)
Girth = Waist measurement in same units as Height
Pi = 3.14159

Cones constant is determined empirically in order to make the actual results match the theoretical expectations. This is a well known technique long practiced by researchers who cannot otherwise explain their results. The constant is named for and immortalizes Dr. DX who contributed important insights and guidance in the rigors of the scientific method to the research described herein.

Obviously, the larger the capture area, the better an antenna is at intercepting the electromagnetic wavefront. For example, two people holding hands should have a 3dB gain over a single person as long as they stand on a line perpendicular to the wavefront. Additional experiments should be conducted to measure this effect in an isolated environment. Capture area is only part of the story, however, when it comes to antenna performance. The efficiency with which the body absorbs the energy is also important.

2. EFFICIENCY

Physicists have long known that a black body is the best absorber of electromagnetic energy. An optically black surface looks black because it absorbs all of the light reaching it. Physicists also know that a good absorber is a good emitter. That is why an antenna that is good for transmitting is also good for receiving. (CAUTION: You should not attempt to verify this fact by sticking your finger on the antenna connector of a transmitter. Dr. R.F. Burns [his friends call him Lefty] discovered that the human body has certain non-linear, irreversible reactions to high RF currents).

Darker skinned persons were demonstrated to have an advantage absorbing energy from the incident wavefront. The sample size was limited, however, preventing the collection of statistically significant quantitative data. More research is needed in this area.

Another element of efficiency is how well the absorbed energy is coupled to the receiver. The coupling efficiency is a function of how well the body's impedance matches that of the receiver.

3. IMPEDANCE

Ordinarily the DC resistance of the human body is in the hundreds of thousands of ohms. You can verify this by grasping the leads of an ordinary ohmmeter. The AC impedance must, therefore, be even higher since the AC impedance is the vector sum of the DC resistance and the reactance at the frequency of interest.

Most modern radios are designed to match a 50 ohm, non-reactive antenna. Thus, a significant mismatch exists under most conditions. The situation can be improved if the person acting as an antenna has moist skin which lowers the DC resistance. Experiments conducted in the Holiday Inn lobby showed that results were similar regardless of whether the moisture comes from spilled beer or sweaty palms induced by watching mini-skirted nymphs saunter from the bar to the ladies room. The more moist the skin, the closer the match will be. This parameter is not as critical on older radios with high impedance antenna inputs.

4. POLARIZATION

Several sample biological antennas were tested where the horizontal dimension of the receptor approached the vertical dimension. These antennas performed quite well because they not only exhibited a large capture area but responded well to both horizontal and vertically polarized waves simultaneously.

Skinny people showed a pronounced sensitivity to the polarization of the electric field vector. A reclining skinny person exhibits at least 6 dB improvement in signal to man-made noise ratio. The advantage was cancelled out, however, if the reclining skinny person began to snore.

People who stand vertically erect should respond best to vertically polarized radiation. Because the experiment was conducted late in the evening, after the Molson's had been flowing freely for many hours, it was difficult to find sample antennas that could maintain a vertical attitude long enough to gather quantitative data.

Biological antennas need not be human. A single wire-haired terrier was attached to a scanner and showed significant gain at VHF frequencies for circularly polarized waves compared to a standard poodle reference.

5. INTERMODULATION DISTORTION

Experienced SWLs know how difficult it is to find a really good active antenna when intermodulation distortion is considered. Our experiment confirmed that the calm, mild-mannered person who never says much and goes with the flow is least susceptible to strong signal overload effects. Passive people have much lower IM distortion than their more active, energetic counterparts.

6. BANDWIDTH

The bandwidth of any antenna is inversely proportional to its Q factor.

$$Q = \frac{\text{Frequency}}{\text{Bandwidth}}$$

Where bandwidth and frequency are in the same units.

The narrower the bandwidth, the higher the Q. High Q circuits are more efficient than low Q circuits but high Q antennas are by definition narrow bandwidth devices. The ideal SWL antenna should be broad-banded, i.e. low Q. Low Q antennas are inherently lossy. The high skin resistance of human biological antennas makes such antennas inherently low Q, broadband devices. Our experiments were unable to discern any resonance effects as long as the height of the person was significantly shorter than a quarter wavelength at the highest frequency of interest. Biological antennas of the female sex tended to be more broad all other factors being equal.

The author wishes to thank the many people who contributed to the success of the Great Kulpville Experiment. This year's experiment barely scratches the skin of the body of knowledge that is waiting to be explored. You might enjoy running your own experiments. More work is certainly needed to analyze the efficiency of different coupling techniques when two or more biological antennas are combined for added gain. Document your experiments with lots of photographs and maybe Dr. DX will ask you to present your results at next year's Winter SWL Fest. The 1994 Fest is scheduled for 10, 11 and 12 March, which is just in time for your experiments to be reported in the April 1994 NASWA Journal.

Equipment Review

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THE MFJ-8100 REGENERATIVE SW RECEIVER KIT

The regenerative detector was a landmark advance in radio technology in the 1920's. It afforded a previously unobtainable level of sensitivity and selectivity and allowed for the reception of both AM (phone) and CW (Morse code) signals. A regenerative set was also relatively cheap and simple to build and was the "first" receiver for many radio amateurs and SWL's even into the 1950's. The regenerative detector design is based on the principle of positive feedback - the incoming radio signal is "fed back" from the output to the input of the detector stage, which in the early regen sets was a triode vacuum tube. Each time the signal is fed back, it receives additional amplification - this is how the regen set achieves its amazing sensitivity. The improved selectivity of the regen is due to the fact that a regenerating circuit has a higher "Q".

These advantages are accompanied by several disadvantages, however. The first is the critical adjustment of the amount of feedback - too much and the receiver will break into oscillation, with squeals and howls accompanying the desired signal; too little feedback and the receiver will be insensitive. Often, the regeneration control will have to be adjusted even within the same band of frequencies for best reception. Changes in the antenna, even as minor as the antenna swaying in the breeze, can affect the setting of the radio's controls. Finally, since the regenerative detector is basically an oscillator (and must be set to oscillate for reception of CW signals) the radio can also serve as a transmitter, interfering with reception on nearby radios.

UPDATED DESIGN

MFJ Enterprises has come up with a modern version of the regenerative receiver which addresses some of the problems of the design, while maintaining its simplicity. The MFJ-8100 is a three transistor, one IC circuit which is easy and fun to build and provides pretty amazing performance for its simplicity. A FET

RF amp stage serves to boost the signal and isolate the antenna from the detector stage, which reduces the signal radiated from the receiver and minimizes antenna-induced tuning changes. The other two transistors form the regenerative detector circuit. The IC is the audio amplifier which drives two 1/8" stereo headphone (Walkman type) outputs. Extreme care was taken in the design to provide optimum bypassing and filtering to insure smooth and predictable performance. There are five switch-selected bands of tuning, which are not continuous. The tuning ranges in MHz are: 3.5 - 4.4, 5.9 - 7.5, 9.5 - 12.1, 13.1 - 16.6 and 17.5 - 22.5. These tuning ranges are approximate, depending on the exact values of the inductors used in the kit (all have a 10% tolerance). Tuning is very smooth, thanks to the use of a 6:1 vernier drive on the tuning capacitor. The dial scale is marked in increments of 200 kHz on the lower frequency bands and 300 - 500 kHz on the higher ones. The accuracy of the dial calibrations varies, again due to individual variations of the inductors. The regeneration control, which is a variable resistor in this design, does require readjustment as one tunes across each band, but behaves smoothly and predictably, without "pops" as regeneration begins or "dead" spots as it is turned through its range. The only other controls on the '8100's front panel are a volume control and a pushbutton for power with an LED "on" indicator. On the back panel is a binding post for the antenna, a wing nut for grounding, an access hole for the RF gain trimmer and two 1/8" stereo headphone jacks. The unit is powered by a nine volt battery and requires a minimum 10 to 20 feet of wire for an antenna. The price is \$59.95 for the kit version and \$79.95 wired and tested.

EASY ASSEMBLY

I was able to slam my '8100 together in about two hours, not including reading the manual prior to assembly. The manual is very thorough, including circuit theory sections for both

beginners and advanced hobbyists and clear, step-by-step assembly and operating instructions. All parts mount on a well laid-out and labeled printed circuit board. This would not be too difficult a project for the first-time kit builder. In fact, MFJ offers a money-back guarantee if, on examination, the kit appears to be beyond the capabilities of the purchaser to build. The kit must be returned in complete and UNASSEMBLED condition for the refund. There were only a couple of rough edges, such as not explaining the markings on the potentiometers in the parts check-off list but later in the text and the markings on one capacitor not matching those given in the parts list. Also, my kit was short one 0.01 uF capacitor, which I had in my junk box (and also available at Radio Shack). The kit went together smoothly and worked the first time I turned it on. One bit of advice to others who build this unit is to follow exactly the instructions concerning mounting the dial pointer to the tuning capacitor shaft. It is a very tight fit, and I made the mistake of reaming it out slightly - then it was too loose and I had to glue it to the capacitor shaft. The fit and finish of the radio and its cabinet is superb, with the exception of the dial pointer, which, on close inspection, is very crude and cheap. Unlike the digital readout kit from another manufacturer that I'm currently struggling with, all the holes in the case and chassis of the '8100 are pre-drilled and match perfectly. The finished unit is very professional looking. The overall size is 7 x 6 x 2 1/2 inches (WxDxH).

ADJUSTMENT AND ALIGNMENT

Once the unit is assembled and found to be working, there are only a couple of internal adjustments to be made. One is to adjust the regeneration trimmer resistor so the unit will regenerate on all bands. This is a simple, easily audible adjustment. The other is to calibrate the tuning dial by adjusting the tuning trimmer capacitor. This can be accomplished by tuning in WWV, using a signal generator or a general coverage receiver. Throughout the manual, the user is cautioned that the tuning dial markings are only approximate, so I was pleasantly surprised to get fairly accurate dial calibration on the lower three bands. On the upper two bands, the received frequency is several hundred kilohertz higher than the frequency marked on the dial.

PERFORMANCE

OK, this is no JRC NRD-535D, but it is a load

of fun to play with. There is no problem receiving all the major international broadcasters with 15 feet of wire indoors. Use of a longer wire requires turning down the RF gain pot, which is a variable resistor in series with the antenna input. Maximizing sensitivity and selectivity on an AM signal requires advancing the regeneration control until oscillation occurs (i.e. the receiver squeals) and then backing it off until the squealing just stops. Tuning in a CW/SSB signal requires advancing the regen control until the set oscillates, then fine-tuning the tuning and regeneration controls to achieve the proper pitch. The audio quality of both types of signals is very good. Remember that the audio output level is sufficient to drive headphones only - to drive a speaker requires an outboard amplifier. Selectivity is pretty poor, even with maximum tweaking of the regen control. The receiver will also "lock-in" (another undesirable feature of the regenerative detector design), meaning a near-by strong signal will "pull" the frequency of the detector to match that of the signal. If this happens, it can be countered by adjustment of the RF gain control.

WHAT DO I THINK?

I love this little radio. It gave me a chance to build something that works and is useful and it let me play with a type of circuit that I hadn't been exposed to before (I started in the hobby in 1969 and went immediately to a superhet receiver, albeit a poor one). The intricacies of tuning the radio are easily mastered, but finding one's way around the dial is facilitated by experience in knowing what the frequencies of the major broadcasters are, so they can serve as "markers" to find other frequencies. This radio might be a bit frustrating for new hobbyists to use at first, but for "old-timers" and confirmed "knob-twiddlers" it's truly a "thrill box".

What would I do differently if I built another MFJ-8100? I'd put the battery holder on the back of the case instead of inside, so I could change the battery without removing the case. I'd also mount a potentiometer on the back panel for easy adjustment of the RF gain. (By the way, the manual suggests both of these things.) I also think I'll experiment with using slug-tuned inductors in place of the fixed ones to see if I can then calibrate the dial on all bands. I'll probably also play with different values of inductance to see if I can get it to cover the 60 meter tropical band. MFJ Enterprises can be reached at P.O. Box 494, Mississippi State, MS 39762. Their order line is 800-647-1800, tech help line is 800-647-8324 and toll line is 601-323-5869.

Listener's Library

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I receive a great deal of mail from folks in my role as Beginner's Corner columnist for Monitoring Times. Letters come in covering every aspect of the listening hobby. A full 70% of the queries for my "Radio Sage" advice deal with antennas. This quest for antenna knowledge does not reside exclusively with the novices in our hobby. We all seem to derive a great deal of pleasure from fiddling around with our antenna systems.

Unlike our fellow hobbyists who enjoy amateur radio, shortwave folks are not as bound to the strict theories of antenna construction. For us, almost any wire will do. The basic rule is always; Get the most wire you can up as high as it will go. We don't need to lose sleep over Standing Wave Ratios or even Feedline Impedances.

This relative freedom allows us to get very creative in making the best use of available space and situation. Over the years many creative antennas have appeared in the pages of the NASWA Journal. Since wire is cheap, many of us will string a few antennas or, at least, make frequent changes to our existing skywires. We all do it in hope of improving our access to the signals our receivers are seeking.

For the last several years, I have found the best answer for practical antenna planning to be one particular book. Originally published in 1988 by Howard W. Sams & Company, now republished by MFJ Enterprises, I must be referring to . . .

EASY-UP ANTENNAS FOR RADIO LISTENERS AND HAMS

by: Edward M. Noll, W3FQJ
162 Pages
\$16.95 & \$3.00 S/H
MFJ Enterprises, Inc.
P.O. Box 494
Mississippi State, MS 39762

I was in trouble with several of the more renowned radio book sellers for a while. You see, I kept recommending Ed's book even though it was out of print. Demand remained high and when radio equipment manufacturer MFJ decided to get into the publishing business, they

jumped at the chance to put several of Ed's books back in print.

Ed Noll is now happily retired in Doylestown, PA. He began his commitment to the radio hobby in 1933. He has worked in the radio industry and taught radio communications on the university level. Over the years he has published 52 books and an unknown quantity of articles, technical manuals and other radio related publications. Speaking as someone who has been preparing a book for publication "real soon now," Ed's accomplishments are amazing. If this hobby ever generates a Hall of Fame, I want to be the one to nominate Ed Noll for all the help he has given folks over the years.

Easy-Up Antennas is a "must have" book. You don't have to read my review, just go out and get it and buy a bail of wire on the way home. You will have tons of fun!

But since you are committed to spending the evening reading the NASWA Journal I will fill you in with a few paragraphs of information. Just to let you know what you have been missing for so long.

Easy-Up Antennas is fairly short on theory and very long on practice. When I say short on theory, I do not mean incomplete. Ed gives a good overview of the basic equations and constants that apply to cutting wires to resonance at particular frequencies. If the thought of even the slightest bit of math gives you the shivering heebie jeebies, just relax. Ed also includes very complete tables of antenna lengths and sizes for most common frequency applications.

What makes Ed Noll's way of seeing things so great is that he doesn't just theorize about the ideal antenna. He knows we all live in a rather imperfect universe. None of us have a yard that is just the right size with two trees just the right height and distance from our absolutely ideal feed point. We all wish we could hang a perfect dipole for each band, pointed in just the right directions to boot. Few if us can. Ed took the "school solution" antenna designs and then went out and actually built them under real world conditions. He shows us how to get the most antenna into our available space. Noll demonstrates how you can twist, turn, coil and bend the wire and still have respectable

performance. Constructing antennas right in his own backyard, Ed shows even the first time antenna builder how to get the job done.

Ed smashes a few icons by including a chapter on vertical antennas for shortwave listening. Anyone who has a space or esthetics problem needs to take a good look at chapter 4, Vertical Variations. Chances are you will find something both you and your neighborhood can live with.

The book also includes dozens of dipole and longwire configurations, including directional designs for those of us with property pointing in the right direction. Ed's own "FLEXOSWITCH" and Pseudo Windom Antenna will give you tuned wires on most popular SW bands. All designs go into detail concerning construction techniques that can be applied in almost any situation.

The chapter on confined space and indoor antennas demonstrates just how much you can do with a little old fashioned tenacity. This section will have you stringing wire all over your apartment or dorm room.

The book contains sections on long wave, medium wave, VHF/UHF and amateur band antennas. Do not discount the information in these pages. Ed's application of the ground plane (a traditionally VHF design) to the 13 meter band is very thought provoking.

I was very happy when MFJ sent Easy-Up Antennas for review, you see my own personal Howard W. Sams edition has become pretty shop worn since 1988. It is without a doubt the most referred to technical book in my shack. I am sure you will find the same to be the case at your listening post.

I mentioned that Ed Noll was now retired and living in Doylestown, PA. I forgot to mention that he now resides in a condominium. You would think that this living situation would get a confirmed antenna addict down. Not so! It just called for some more experiments and another book.

SHORTWAVE LISTENER'S GUIDE FOR APARTMENT/CONDO DWELLERS

by: Edward M. Noll, W3FQJ
56 pages
\$9.95 & \$3.00 S/H
MFJ Enterprises, Inc.
P.O. Box 494
Mississippi State, MS 39762

When I first cracked the cover of this book, I expected it to be another antenna collection, geared more for the modern day cliff dwellers in our society. I was pleasantly surprised! What I found instead was a comprehensive guide to the shortwave hobby, covering every aspect from listening techniques through equipment, including antennas.

For years, the stock answer to anyone interested in the hobby who happened to live in a high-rise was one word. Move! Pundits pooh poohed the notion that you could enjoy the shortwave world surrounded by concrete, steel and electrical noise. Ed's book on the subject, drawn from his own experiences, shows that you cannot only survive, but thrive in this traditionally overlooked environment.

Ed Noll has written the beginner's book I keep meaning to publish. The key difference is that he has latched on to the notion that many beginners live in apartments and condominiums. He takes the novice listener through all the basic listening skills, giving advice and counsel to the unique problems presented by high-rise living. His attention to detail and supportive style serves to help the new listener over the bumps.

Ed's notions on apartment/condo dwelling are also of use for any of us who may have made life changes that necessitate a move to a townhouse or apartment. For this reason, the second half of the book, devoted to equipment and antennas, will have broader appeal. Noll goes into detail on the practical aspects of active antennas, antenna bridges, broadband amplifiers and switching systems.

No book by Ed Noll would be complete without a few of his personally tested antennas. In this book, Ed opts for short wires and loops, designs that may have appeal for folks who even have more free space than their high-rise compatriots. He includes some thoughts on using large metal surfaces to end-load short wire antennas. This is a way to take advantage of all that metal that surrounds (and traditionally shields) the apartment dweller.

Bob Grove once told me that you could sell just about anything you write if you keep it under one hundred pages and keep the cover price under ten dollars. Ed Noll has accomplished both of these guidelines. However, he has filled those pages with value. If you have a friend who you would like to turn on to our hobby, buy them this book. It's the best "quick read" beginner text you will find. That is, until I get my book published "real soon now."

NASWA Portraits

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Where does the time go to? Before you know it we'll be saying adios to another DX season. Meanwhile, welcome to another NASWA "Portrait". I think you'll really enjoy our visit this month. We're going to the beautiful city of Vancouver, B.C. and the home of fellow NASWAn Eric Walton....

"I have been SWLing off and on since 1942 whilst in the service with the British Army. I lived in Australia for 12 years and New Zealand for two and have resided on the west coast of Canada for 30 years. I have been fortunate in traveling to many exotic and isolated places throughout the world. I retired in 1990 and purchased a Sangean ATS 803A and an MFJ tuner and started 'listening to the world' on a full time basis. I recently purchased a Kenwood R5000 and a Dymek DA100DM antenna and I also use a special short inverted 'L' end fed antenna which I have used with portables for over 40 years with excellent results. It even out does the Dymek. Both are mounted on a balcony which is 100 feet above ground level."

"After mastering the intricacies of the Kenwood, a friend of mine in Maryland mentioned that he had purchased a Kenwood and was having problems with its' operation. He thought the owners manual was 'confusing'. (I'm glad to hear that I'm not the only one! - ed.) So I typed out a six-page 'translation', in simple terms and mailed it. In reply he indicated that he was 'tickled pink' with it and was enjoying his receiver. He mentioned that a local radio station was using a R5000 as a mobile, and was in the same situation in knowing how to use the various scan modes. So I thought, "why not?"

"Consequently, in an article in Monitoring Times I suggested that if any of their readers were having trouble operating their R5000 receivers, they could write and send \$2.00 U.S. and I would mail them the ten page step-by-step procedures. So far, I have received ten requests, from as far away as St. Croix in the Virgin Islands as well as Mexico. However, I may not break even on this, so if any of your readers are interested, I am prepared to mail a copy of this document within N. America for \$3.00 U.S. or 4 IRCs and worldwide for \$4.00 or 5 IRCs."

"You might be interested to know that I am an 'official' monitor for Radio Nederland, Radio Austria International and KBS in Seoul, South

Korea. I am also a member of the following clubs: New Zealand Radio DX League, Southern Cross DX Club of Adelaide, South Australia, ANDEX Int. (HCJB) and I subscribe to 'London Calling' and European DX Council."

"I have been corresponding with over 30 stations and have a fairly extensive QSL collection. Even with the minimum antenna situation I am still able to receive the 10 kw stations from Australia, New Guinea, Solomon Islands, etc., and I have mounted the Dymek in a horizontal position, making it directional and have no difficulty in tuning into the 80 meter band."

"I have lost some weight since the enclosed photo was taken and I have recently considered moving into the RTTY mode. Maybe someone can give me a few 'hints' on how to get started?? I should add that I am 'crowding' 68 years old and retired, but NOT 'TIRED'. The hobby of SWLing is a great way for me to keep in touch with countries that I have lived and worked in as well as many others that I have visited. It is also a means of promoting International friendship. I should have joined NASWA many moons ago and I think the Journal is NULLI SECUNDOS, or second to none! As I am a fairly prolific writer, if anyone tunes into Radio Korea broadcasts at 12:52 on Sundays, quite often my letters are read on their "FEEDBACK" program."

We'll just do that Eric, and thanks a bundle for sharing your interesting and enviable story with us. Til next time 73zzzzzzzz!!!!



NASWA Awards

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Howdy! Here it is, spring in Virginia, and I am struggling through my annual case of the spring flu. I thought I had somehow avoided it this year, but it caught up with me while I was on an overnight field trip to the beach--hay, I know it is a rotten job, but somebody has to do it!

The Fest was an outstanding success again this year. I sure enjoyed seeing many of you again (and meeting some of you for the first time) and increasing my circle of friends in the radio hobby. It is always a thrill to put a face with a name. We had some snow on the Sunday morning of Fest and while I was out enjoying it, I stumbled into Bill Oliver who was still suffering from the "I-still-don't-believe-its" over winning the grand prize of the NRD-535. Congrats, Bill, and for the rest of you, honest, the draw was on the up and up. Other NASWA staff at the fest included Bob Brown, Jerry Berg, Gerry Dexter, Richard Cuff, Dan Ferguson, Joe Buch, Sam Barto, Tom Sundstrom, Skip Arey, Bill Kurrasch, Alan Johnson and Fred Kohlbrenner.....and a good time was had by all.

Award activity has been brisk this time with Fred Kohlbrenner cleaning his files out to take away eight awards and two endorsements. Jerry Klinck was right behind him. How do these guys have time to send reception reports and still write for the Journal? If they can do it so can you, so why not send in those applications that have just been piling up. You will receive in return a nice piece of green paper that is suitable for framing, wrapping fish or plugging up air leaks in your shack.

I really enjoy the notes you send with your award applications and was especially pleased with the post card I received from Tom Davies of South Africa. Tom's card was a beautiful town-on-the-ocean scene with a notation that one of the houses on the card was his---sigh, wadda beautiful place to live and the DX must be fantastic. Oh well, before I get too carried away fantasizing about beautiful DX sites, I better let you in on who the latest bunch of folks are to be wearing NASWA green in their shacks:

- John Brown World Wide DXer
- Paul Bauer Senior Nigerian DXer
- Tom Davies International DX Listener with
100 station endorsement
World Wide DXer
- John James Dawe Ecclesiastic DXer
- Anthony Scott Helm All Continental QRP- 50 kW
- Steve Jarvis 'Round the Clock Continental DXer
- Jerry Klinck Senior Ecclesiastic DXer
Australian DXer
South American Continental DXer
North American Continental DXpert
Antarctic DXer
170 endorsement for the Senior DX Centurion

Fred Kohlbrenner	Antarctic DXer North American Continental DXpert Master Pacifica DXer All American DXer Australian DXer Senior Papua New Guinea DXer Master Soviet Sphere DXer Pirate DXer Senior Ecclesiastic DXer with 40 station endorsement 170 endorsement for Senior DX Centurion
Steve Lare	South American Continental DXpert All Germany DXer
Steve Martin	European Senior DXer
Dr. John Overman	World Wide DXer
Michael Stine	World Wide DXer
John Wilkins	All American DXer with 25 station endorsement 70 station endorsement for the Senior Ecclesiastic DXer 40 station endorsement for the Senior Peruvian DXer

Featured Award of the Month

I get a lot of questions about the Tropical Band DXer and Senior Tropical Band DXer awards, mainly about what counts. When I was working on this award, I spent hours searching in an atlas to compile a list of "countries between the Tropics of Cancer and Capricorn." Even with the list in hand, I was never quite sure if I should count the countries that were split by the Tropic lines. A quick count convinced me that split countries had to count, since it was nearly impossible to get the 75 country award without them, so I counted them. And of course, the kicker is that all stations counted had to be below 6000 kHz, so the high powered countries could not be counted. The Senior Tropical Band DXer was a painfully slow award to work on for me and I never really thought I would ever get it. I finally did and it remains one of my finer accomplishments. But before you begin to think you have become trapped in an Uncle Skip column, Bunky, let me make my point. Many of these awards require a knowledge that is not always obvious and often acquiring that knowledge is more important than the award. In the case of this award, I learned a bunch of geography (and a whole buncha curse words) that proved helpful in working on other awards. And I learned the fine art of trying to verify countries that could count for two or three different awards, including the Tropical Band DXer.

So now that I have made the point that educating yourself is a necessary evil for the shortwave listener, I will nullify it all and tell you the good news--in my next column, I will print the definitive list of what counts and what does not count for these two awards. And it is quite a list, so you better be ready! The list was compiled last year by the Awards Committee and has been receiving its final touch-ups and is now ready.

'Til then, hang in there and start reading up on summer DX--yep, there can be some great summer DX, but not much, I am afraid, that will help with the Tropical Band awards. Hope all the good stuff comes your way.

Listener's Notebook

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All times, dates, and days of the week are GMT (UTC), dates are MM/DD or MM/DD/YY.

ANGOLA - *Emissora Provincial do Zaire*; presumed log of this one operating on 4884 at 1848 in vernaculars with time pips and news at the top of the hour. (Keeskes DX'ers Calling via HJ)

According to *Emissora Provincial do Kuanza Sul* 7260 kHz is inactive and they have no plans to return to shortwave. (Korinek NU via HJ)

This country now has *two* loud *Voices of the Resistance of the Black Cockerel*: the first sponsored by the UNITA rebels, the second launched in early March by the official MPLA regime. The latter uses the same name, same opening announcements, and the same signature tune on frequencies of *R. Nacional de Angola* in Luanda, 0455-0700 on 9720 kHz, 1055-1300 on 11955 kHz, and 1655-1900 on 9535 kHz. The bogus Black Cockerel attacks UNITA principals and attempts to sow confusion. (Richard Measham, BBCM, on RNMN 3/18)

ANGUILLA - The *Caribbean Beacon* plans to increase power on 1610 kHz above 50 kw; 690 kHz has been boosted from 30 to 100 kw. The FM xmtr will remain on 100.1 MHz but effective radiated power (ERP) will become 100 kw. (Norman Hill, DC, on RNMN 2/25)

ARGENTINA - According to reception and a verification letter *Radio Malargue* operates 1000-0400 on 6160 & 790 kHz and 88.1 MHz FM. The slogan is *La Adventura de Hacer Radio en la Frontera*. A coverage map of the shortwave transmitter shows coverage to the northwest, including towns such as Cunco, Talca, and Linares in Chile, and to the southeast further into Argentina. Verification signers are: Eduardo V. Ludea, Jefetecnico and Jose Pandolfo, J. Dpto. Adm. Return postage is appreciated. (HJ)

AUSTRALIA - *Australian Armed Forces Radio*, providing programs to Australian forces in Somalia now operates 0300-0400 on 17900, ex 0530-0630 on 17840. It uses the *Radio Australia* Darwin transmitter plant. (Mike Bird on RNMN via ADXN)

AZERBAIJAN - *R. Baku's* EE broadcast to Europe at 1700 moved from 6175 to 9840 kHz. Baku also broadcasts to the Middle East in AA and Farsi. The EE broadcast is transmitted from Moscow; it IDs as *The Voice of Azerbaijan*, not *R. Baku*. (Yoshinori Kato on RJMR 2/27)

BANGLADESH - *Radio Bangladesh's External Service* was heard frequently in March on 13610 (announcing 13620) at 1230-1300 in English (presumably replacing 15200) and from 1315-1730 in Nepali, Hindi, Urdu and other languages. Deutsche Welle is co-channel on 13610. (Victor Goonetilleke on RNMN) Dave Clark, in Ontario, noted the station in the clear 3/13 on 13620 with IS at 1228 - strong signal but very low audio level; on 3/14, missing at 1435 with both 13610 & 13620 were open. (Dave Clark in DXO) [Dave also notes that *RB's Domestic Service* on 4880 kHz now signs on at 0030. See March LN.] While in Providenciales, Turks & Caicos Is., *RBD* noted on 4880 from 2221 3/7 w/chants, announcements 2230 in presumed Bengali by deep voiced man, back to chanting. Then on 3/8 from 0028 w/lute IS several times, s/on anmts 0030 by same *basso profundo*. Soon clobbered by a woman saying "uniform X-Ray Lima" over and over. What a boring dinner companion she must be. (Bob Hill)

Veri signer for *R. Bangladesh*, 4880 kHz, is Mohammad Nor-Al-Islam, Station Engineer. (Brown FT via HJ)

BOLIVIA - *R. 11 de Octubre* has been heard recently on 4183.4 kHz. (Martinsson SWB via Play DX via HJ) Try our local evenings about half an hour after sunset. (HJ) Also reported as *R. 20 de Octubre* here so a bit of confusion. (Barrera Conexion via HJ)

Radio Eco heard signing off on 4408v kHz at 0208 rather than listed 0300. (Perolo NU via HJ)

Radiodiffusion Minería signing off on 4981 kHz at 0230. (Camporini Conexion via HJ)

Radio Sararenda is active on 4886 kHz. (Camporini Conexion via HJ)

Radio Cosmos heard at 0910 on 6095 kHz with Spanish program "El Servicial". (Camporini DX'ers Calling via HJ)

BOSNIA - Mail service to Bosnia has been suspended. (Sams FT via HJ)

BOTSWANA - *Radio Botswana* noted on 3356 kHz signing on at 0245 instead of usual 0300. (Schulze DSWCI via HJ)

The *Voice of America* relay is being heard in New Zealand on new 12080 kHz with excellent signals at 0600, almost as good as the BBC on 12095. (AC on RNMN 3/11)

BRAZIL - *R. Transamerica*, Santa Maria, was heard in Japan with good signals from 2130-2215 on new 11704.15 kHz in mid-February. The 25m freq is not mentioned in the station ID. The 49m freq is 5965 kHz. (Nobuyoshi Aoi on RJMR 2/20) [WRTH 93 says 1000-2200 on 11705 and 1000-0200 on 5965--mf]

Radio Eldorado FM is the new station on 6160.2 kHz, although its location is still unknown. Probably not more than a 1 kw transmitter which will make this a tough catch outside of southern Brazil. (Jones NU via HJ)

BULGARIA - *R. Sofia* announced in mid-March that the Bulgarian international service would begin calling itself *R. Bulgaria* at the end of March. (Richard Measham, BBCM, on RNMN 3/18)

CAMEROON - A reporter in Alabama on the SW Echo thinks he heard Buca reactivated on its former 6005 kHz frequency (listed 4 kW); noted in French at 0710. (WOR, via Dave Clark in DXO)

CANADA - Last month we carried an item from RNMN concerning the planned return to the air of CKFX. [I see I messed up an attempt by Mike Fern to get me to spell the C.E.'s name correctly. Sorry. - df] Glenn Hauser confirmed with the station engineer that there had been some delay in getting the transmitter ready to bring back on the air and that late March was a likely timeframe. The station will again be running only 10 watts, pending processing of the new license application, for 100 watts. The antenna is an omnidirectional vertical "with a good ground plane" (WOR via DXO) Dave notes that the best time to check for this might be the 0500-0700 period, since there is a Russian station on the channel which tends to dominate after 0700.

CHINA - *China Radio International* broadcasts in 43 languages and dialects, 165 hours/day. It maintains correspondence with audience in over 200 countries and regions. In 1992 it received over 328,000 letters from

overseas listeners. (Zhongguo Xinwen She news agency via WBI 3/5)

Xizang PBS (Lhasa, Tibet) listed on 5240 kHz, has been inactive since 1/17 (Tropical Band DX Review via Herkimer, via DXO)

Gansu PBS (Lanzhou) listed on 4865, 6005 and 6155 has been off the air since 11/2/92. (Tsutomu Kito via OZDX) Interesting, as BBCM shows those frequencies, as well as 684 & 873 MW, schedule at 0230-0640, 0850-1600, 2155-0130, all in Mandarin. (WBI 3/19)

A friend of Arthur Cushen's who learned his English from the BBC was in Beijing for the Chinese New Year and found a few changes: a traffic radio station on 801 kHz, an economics station on 900 kHz. R. Nanking on 1008 kHz has been completely upgraded; at the end of 1992 it was the only local station in the area, serving a population of 10 million. The services for Taiwan are still on 702 and 1314 kHz with active SW relays. (AC on RNMN 3/11)

CHILE - According to Ray Woernern, Director of *Radio Esperanza* (Hope), 6088 kHz, they plan to add a new transmitter with a power of 5-6 kw. (Moore DXSF via HJ)

CLANDESTINE - (BOUGAINVILLE) PNG Defense Forces claim to have retaken Arawa in Bougainville. The government is believed to be considering installation of a radio station run by the government directly rather than the NBC. (Darling NU via HJ) Still no sign of *Radio Free Bougainville*, formerly on 3880v. (HJ)

(BURMA) *The Democratic Voice of Burma* mailed me a "prepared card", addressed to General Than Shwe, urging that Aung San Suu Kyi, the 1991 Nobel Peace Prize winner, be freed from house arrest. (HJ) *The Voice of Democratic Burma*, which uses a Radio Norway transmitter, has been heard on new 15180 kHz at 1430-1530. Signals were fair with no noticeable interference. (Yoshiaki Hayashi on RJMR 3/11)

(COLOMBIA) 5835 *Radio Patria Libre* heard around 0045 on 5835 kHz, ex 5850. The station that jammed the above, *El Pueblo Responde*, is untraced. The following programs are broadcast: UTC Tues-Sat *Noticiero Patria Libre*; UTC Sun *Microfono Abierto*; and UTC Mon *Revista de la Semana*. In addition to 20 journalists working for them inside Colombia they also get material from listeners. (Kuhl Clandestine DX via HJ)

(IRAN) *The Voice of Human Rights and Freedom for Iran* [Persian: *Seda-ye Hoquq-e Bashar va Aazadi-ye Iran*] was formerly known as *Iran's Flag of Freedom Radio* [Persian: *Derafsh-e Kaviyani Radyo*] and before 2/14/87 as the *Voice of the Liberation of Iran* [Persian: *Seda-ye Jebhe-ye Nejat-e Iran*]. The station gives IDs in English and French at s/on. Broadcasts are in Persian (Farsi), though some items may be in Azeri (Azerbaijani). The station

is pro-monarchist and hostile to the government of Iran. Transmitters are believed to be in Egypt. The schedule is 1400-1445 on 9350, 15100 kHz; 1630-1825 on 11470, 15100, 15620; 0330-0525 [repeat of 1630 previous day] on 9350; and 0645-0730 [repeat of 1400 previous day] on 11470, 15100, 15670 kHz. (WBI 3/5)

The *Voice of Iranian Kurdistan* [Kurdish: *Ira Dangi Kurdistanî Iranî*] supports the Iranian Kurdistan Democratic Party. Announcements state it is the "voice of democratic revolutionaries who are struggling to end the infiltration of imperialism, and especially American imperialism, to overthrow the reactionary regime of the Islamic republic, and to establish in Iran and autonomy for Kurdistan." Schedule is 0315-0430, 0930-1100 & 1630-1900, on 3945 & 4643 kHz, all in Kurdish & Persian. Frequencies vary widely to avoid interference. Previous frequencies used by the station include 7360, 5080, 4890, 4665, 4070, 3965 & 3935 kHz. Frequencies may not be exactly in parallel - there can be a delay of several seconds between transmitters. (WBI 2/26)

The *Voice of Iranian Kurdistan*, 4065 kHz was heard in England at 0325 2/19 with haunting Kurdish music and the Kurdish patriotic slogan "Kurdistan nya naman." The sked is 0230-0330, 0800-0930, and 1630-1800. This station has been around for 20-odd years; it also uses 3875 kHz. (Norman Redfern, UK, and Andy Sennitt on RNMN 2/25)

(UNID) First found on 4870 3/8 at 0109 when landed atop Sri Lanka w/ Qur'an and woman in Farsi; bubble jammer quickly hit it. Began to jump back & forth between 4870, 4880 & 4890, with the jammer quickly following. Presumably same station 3/11 on 5090 at 0106, then jumped to 5080 & 5070, always shadowed by the jammer. I'm not up on clandestines after a three year layoff, but perhaps this is *Voice of the Mojahed?* (Bob Hill)

(KOREA) *Voice of the People* is now scheduled at 0300-0430 & 0600-0730, both on 6518 & 6600 kHz; 0830-1000 on 6600; 1400-1700 & 2000-2130 on 3912; 2300-0030 on 6518 6600; all in Korean. (Tutomu Kito in TBDXR)

(KURDISTAN) BBCM reports *Voice of Independent Kurdistan* [Kurdish: *Aira dangî Kurdistanî Sarbakhoja*. Turkish: *Burasi Radio Kurdistanî Sarbakha*.] on 7030 kHz in Turkish 1300-1330; then Kurdish to 1400. Frequency has varied 7024 - 7036 kHz. One announcement referred to an additional 15 minute broadcast in Turkish between 0700-0800 an 41 meters. The radio supports the Kurdish Workers Party (PKK). (WBI 3/5)

(LIBERIA) *Radio ELBC* run by Charles Taylor's *National Patriotic Front* in opposition to present government, was heard signing on at 0600 with weak, but clear, signal in English on 3255. (Berg NU via HJ) Heard at times in our local afternoon with sign off as late as 2400. (HJ)

(MOZAMBIQUE) *A Voz de Renamo* is unheard on any of its frequencies in South Africa (Korinek NU via HJ) The station is located in Maringue in Sofala Province. As part of the peace process, the Italian government is to supply the station with new transmitters in order to improve its signal. (Mozambique News Agency via Echvaria DX Daily via HJ)

(RWANDA) *Radio Muhabura* the station of the Rwanda Patriotic Front is heard on 6340.1 kHz signing on at 0348. (Korinek NU via HJ)

(SOUTH AFRICA) The *Voice of the Pan African Congress of Azania* is hostile to the South African government and is still active on Thursdays only via Radio Tanzania on 5050 kHz. The 15 minute program has been heard starting at both 1715 and 1815. (Krone, Kuhl Clandestine DX via Play DX via HJ)

COLOMBIA - *Ecos del Atrato*, 5020 kHz, has reduced its hours of operation because of electricity cutbacks. (Dx'ers Calling via Conexion via HJ)

CONGO - *Radio Congo* is inactive on 4765 kHz. (HJ)

COSTA RICA - *AWR-Latin America* is in the process of closing its Alajuela transmitter site. The last remaining transmitter is 5 kW on 11870 and it will soon be moved to Guatemala.

The new AWR site is at Cahuita, an isolated area on the Atlantic coast which was once used by the now defunct Radio Impacto. There are 5 shortwave transmitters on site which have been testing on 9722.5 and 13750. Additional frequencies will be used in due course. (Radio News Bulletin by Adrian Peterson, via DXO)

AWR on 11870 kHz has been making it to south India and Sri Lanka at 0100 with fair signals. (Samil Deep, Kerala, and VG on RNMN 3/11)

CROATIA - *Hrvatski Radio* on new 6145.1 kHz, ex 6150 ex 6210 at 0425. (Krueger in DXSF via HJ)

DJIBOUTI - *Rdiff RV Djibouti* noted just about daily on 4780 on extended Ramadan sked around 2200-2230 w/Somali style chanting. Surprisingly strong; separable from sandwich of powerful utes thanks to Kiwa filter on Sony 2010, and the Sony synchronous detector. The Caribbean turns out to be Ute City, much worse than the U.S. (Bob Hill)

DOMINICAN REPUBLIC - *Radio Quisqueya* is the station on 6205 kHz, not *Radio Estrella* as reported by North American Dxers. (Krone Play DX via HJ) Having relistened to my tapes of first few days of reception, I believe he is right. (Berg NU via HJ)

ECUADOR - *H/CJB* moved its European morning service in EE, 0700-0830, from 6205 to 9600 kHz 3/1. (John Beck on DXPL 2/20)

Escuelas Radiofonicas Populares, 5011 kHz, is inactive. (HJ)

Radio Federacion heard on 5985 kHz, but not // 4960. (Gaviria Play DX via HJ)

EGYPT - *Radio Coiro's* schedule, as of 2/23: *English* at 0200-0330 to Am on 9475 & 11865; 1215-1330 to Asia on 17595; 1630-1830 to Africa on 15255; 2030-2200 to Africa on 15375; 2115-2245 to Europe on 9900 kHz. *Arabic* 0030-0430 to Am on 9900; 0900-1000 to ANZ on 15435; 1100-1130 to Afr on 17800; 1115-1215 to ME/As on 17745; 1415-1615 to Afr on 15220 & 6230 (from 1600); 2345-0045 to Am on 15220 & 17770 kHz. (WBI 2/26) The *Voice of the Arabs* program is transmitted to Europe & the Middle East at 0300-0600 on 9850 & 15285; 0600-1400 on 11980 & 15285; 1400-1800 on 15285; 1800-1900 on 9700 & 15185; 1900-0030 on 9700, 11665, 15285 kHz. (WBI 2/26)

R. Coiro began testing some new freqs in a bid to improve reception in North America between 0200-0330: from 3/11 to 3/14 on 9720; from 3/15 to 3/21 on 11600, and from 3/22 to 3/28 on 11980 kHz. Reception reports should go to Radio Cairo, North American Tests, Box 566, Cairo. (Robert Thomas, CT, on RNMN 3/11)

EL SALVADOR - The ex-clandestine stations *Radio Venceremos* and *Radio Farabundo Marti* are now official stations in El Salvador with the following addresses: *Radio Venceremos*, Apartado Postal 05-209, San Salvador. Director is Carlos Enrique Consvi. The SW transmitter on 6,300 kHz has been off the air due to technical problems since August 1992. *Radio Farabundo Marti*, Apartado Postal 3080, San Salvador. The station plans to return to shortwave for Salvadoreans living abroad. (Contact 2/93 via Rich d'Angelo)

Radio Nacional v/s Alfonso Perez Garcia, Administrator. (Sharp DXSF via HJ)

ETHIOPIA - A relief organization working in Somalia, funded by UNICEF, is using the *Voice of Ethiopia's* SW transmitters to broadcast in Somali. The station, known as *The Voice of Peace*, is on at 1100-1200 on 11800 and 9560 kHz with opening announcements in English. (Richard Measham, BBCM, on RNMN 3/18) Gave the address as P. O. Box 1631, Addis Ababa. The *External Service of the Voice of Ethiopia* normally carries its own daily broadcast in Somali at 1200-1300 on 9560 & 7165 kHz. During Ramadan this year it was heard instead at 1800-1900. (WBI 3/19)

The *Voice of the Broad Masses of Eritrea*, in Asmera, announced it would introduce a new broadcasting schedule 3/20, splitting into two services. The first, broadcasting on 7200, 5000 & 945 kHz: 0330 Afar, 0400 Tigrigna,

0500-0600 Tigre, 0930-1030 & 1200-1400 Sa/Su Tigrigna, 1430 Afar, 1500 Tigre, 1600-1700 Tigrigna. The second service, on 7380, 3940 & 1089 kHz, is scheduled 0330 Kunama, 0400 Arabic, 0500-0600 Amharic, 1200-1400 We/Fr Arabic, 1430 Kunama, 1500 Amharic, 1600-1700 Arabic. (WBI 3/19)

FRANCE - *Radio Neige* (Snow) heard on 25900 kHz around 1315 in French is a link used to pipe music into hotels in the French Alps. (Dave ANARC SWL net via HJ)

GUAM - The schedule of the Australian Radio DX Club show *DX Asiawaves* via *AWR*, Guam is: 1615 Sat on 11980; 2315 Sat on 15610; 0215 Sun on 13720; 1615 Sun on 11980; 1815 Sun on 13720. A QSL is available from Box 227, Box Hill, Victoria 3128, Australia. Return postage is appreciated. (ADXN via HJ)

GUATEMALA - *TGNA, Radio Cultural* is installing a new MW transmitter and then the old MW transmitter is to be modified for use on short wave, possibly a reactivated channel in the 31 meter band. (Dave Clark on DXO)

AWR-Guatemala, 5980 kHz, uses a transmitter rated at 10 kW but it is only putting out about 3 kW. A 5 kW transmitter from the *AWR-Latin America* site in Costa Rica is to be relocated here soon. (Radio News Bulletin by Adrian Peterson via DXO)

GUYANA - *GBC* is inactive on 5950 kHz. (Wilknor DXSF via HJ)

HONG KONG - *BBC* veri signer is Philip Sandell. (Howard FT via HJ)

INDIA - *AJR Srinigar*, 3277 kHz, barely breaking the noise level at 0118 w/IS over & over till *0120, but not audible thereafter. *AJR Bhopal* on 3315 from 0103 w/woman in language, then into exotic flute music & subcontinental vocal gymnastics past 0108. Very weak, hammered by QRN and going fast 3/10. Also 3/14 from 0024 IS, s/on anmt 0025. Very poor. Tentatively *AJR Port Blair*, 4760, from 0024 3/8 w/AJR IS, brief anmt by woman, into chorus till 0026, then back to woman. How can one be sure which *AJR* is on 4760 at which time these days? (On India Broadcasts '93 from ODXA. It has more detail than you ever wanted to know, including schedule graphs in 5 minute increments, though that forces them to break the schedules up into too many pages. - dt) Tentatively *AJR Guwahati* on 4775 with IS barely audible at 0024. Am assuming this is Guwahati, though *AJR's* Sikkim outlet is supposedly here now, as well. *AJR Madras* on 4920 from 0016 w/IDs in English & Hindi & into wild subcontinental vocal. Much stronger than I've ever heard it from the States. Still there at 0120 recheck, 3/8. *AJR External Service* on 4990 at 0018 w/woman reading news in presumed Tamil; strong with low het QRM

3/8. A Gain 3/11 at 0020 in Tamil, very good dual 9950. (Bob Hill)

INDONESIA - Dave Clark notes in April's DX Ontario that *RRI Samarinda* (Kalimantan) continues to operate on an extended (new?) schedule, sometimes past 1430, on 9614.38. Dave suggests looking for the signal to peak within the first hour or so after your local sunrise. Since 2/23 there were extensive periods of Islamic religious programming for Ramadan (which ended 3/24) in place of the usual lagu and pop music format. On 3/1, Samarinda was blocked by the new VOA relay at Udorn, Thailand, after 1400 but VOA has since moved, leaving Samarinda available for reception as late as 1430 when *Radio Veritas Asia* opens on 9615. There may be some QRM from *RRI Jayapura* (March LN) which is still noted on the reactivated 9612.4 channel (switching from 6069.8 around 1300) and/or AIR Bombay which is on 9615.1 kHz from 1330 sign-on. (DXO) Samarinda has local news at 1400 & s/off is 1430. (Juichi Yamada, Japan)

An unidentified station heard on 2700 kHz IDing as *Suara [Voice] Arisa* at 1153. Also, unidentified stations on 2945, 3445, 3460, 3560, and 4695 kHz, all heard around 1400. (van Arnhem DSWCI via HJ)

RRI Bukittinggi heard on 4911.2 kHz with a local program at 1800-2110 fade. First noted 3/2 after not having been heard since the middle of January. I don't know if this change is related to Ramadan. (Juichi Yamada, Japan)

RRI Jayapura heard on 9612.3 kHz signing on at around 1310. (Clark in FT via HJ)

RRI Merauke on 3905 kHz has a fair signal in Japan by 1715; is covered by R. New Ireland from 2000. IDd 2/28 at 1811 as *Kembali bersamukan Radio Republik Indonesia Merauke Programa Regional ... gelombang 76.82 meter, ... pada frekwensi 3905 kHz*. And at 1843 as ... *siaran Radio Republik Indonesia Merauke Programa Regional ... gelombang ... 76.82 meter ... pada frekwensi 3905 kHz ... Waktu Indonesia Timur*. (Juichi Yamada, Japan)

RRI Padang, 4000 kHz, has an English program on Mondays only starting at 1430. (Kito in Play DX via HJ)

RRI Palembang, 4855.8 kHz, not heard this year. (Juichi Yamada, Japan)

RRI Pontianak is on 3995 kHz with a new 1 kw transmitter. (Martin OZDX via Clark FT) Try around 1030 (HJ) Heard 3/9 at 1333, fair with local news at 1400, s/off 1613 after Jakarta news relay at 1600. (Juichi Yamada, Japan)

RRI Surakarta is heard daily on 4931.6 kHz since 2/18. (Juichi Yamada, Japan) No time given. [df]

RRI Pekanbaru (Sumatera) frequency is actually 5984.4v and 0110 apparently replaces the long-standing morning s/on at 2200. (Dave Clark in DXO) [see March LN]

RRI Tanjungkarang 3/7 only, booming in on 3395 just after 2300 with Jakarta relay. Tropical band propagation into South Asia was excellent this evening. (Bob Hill)

INTERNATIONAL WATERS - A new offshore station is transmitting to Indonesia from the MV *Friendship* which was fitted out in Macau. The *Voice of Friendship* is anchored 15 miles off Java and is transmitting on 264 meters with 20 KW, 89.5 FM with 1 kw and 11960 kHz shortwave with 10 kw. The station is a joint venture between *High Adventures Ministries* and *World Harvest Radio International*. [Caroline Movement Newline] I'm somewhat dubious about this but the CM Newline and other sources quoting this have been reasonably reliable in the past. Can any Asian members keep an ear on 11960 kHz and can American members check with *High Adventures* and/or *WHRP*? [Mike Barraclough, DX News Editor] (Contact 2/93 via Rich d'Angelo)

IRAN - *VOIRI* heard 3/10 with Arabic service on 7115 closing at 2127 after ID "*Idha'at Tehran, sau-i jumhuriyya-i il-islamiyya fi Iran*". An Arabic speaker noted here from 2308 past 0100 might also have been Teheran on extended Ramadan sked; couldn't stick around for an ID. (Bob Hill)

IRAQ - *Radio Iraq International* heard on 11860 kHz in English at 0400. (Alexander in via HJ) And on 15250 kHz in English at 1430. (Valko via IU)

ISRAEL - The proposed VOA facility in the Israeli desert is now definitely a "dead duck" [you may recall one of the principal objections from environmentalists was that the RF radiation would disrupt an important migratory route for birds]. In its stead, a relay facility is to be established in Kuwait to enhance coverage in the Middle East. (Bill Whitacre via DX Daily via DXO)

ITALY - A number of USB feeder frequencies have been located for *Radio Uno*, the Italian Home Service: 7705 and 10233.5 with news at 2000 and heard in parallel past 0100; the listed outlet on 9515 is parallel until closing at 2230. (Brian Alexander via DX Daily via DXO)

JAPAN - *Radio Japan's* Korean service has been severely jammed since 3/11 apparently from North Korea. It was first confirmed in Japan by Atsushi Otsuka of the Asian Broadcasting Institute, who found that 15410 and 17835 kHz were heavily jammed at 0330 3/11. Radio Japan has three daily 60-min broadcasts at 0300, 1030, and 1400. Tetsuya Kondo and Toru Yamashita checked the later transmissions on 3/11 and found both also jammed. Unmodulated carriers were used on 7210 and 9580 kHz at 1020, well

before the start of the broadcast, and continued until 1132. 7210 was jammed by an open carrier from 1348 and 9580 kHz at 1411. Both jammers shut down at 1506. *Radio Japan's* own engineers listened on 3/12 and found the 0300 broadcast totally jammed and almost unreadable. (RJMR 3/13) [The RJ engineers presumably were not listening in the target area. - df]

The Pyongyang transmitter on 3250 kHz is again carrying JJ from 0900-1450. The Korean transmissions may have been a punch-up or patchboard error. There is no obvious jamming during the JJ broadcasts. (Mike Fern-CA)

KOREA - (South) *Radio Korea* and the *BBC* have tentatively agreed to relay each other's programs, beginning in May. *Radio Korea's* Korean, English, German and French services will be relayed via Skelton in the UK. *BBC's* English, Chinese, and Cantonese programs will be carried over the Kimjae station. *R. Korea* will expand its Korean service for Koreans abroad, especially in China and Russia. The General Service will be linked to the *KBS* home service, using an additional freq of 9525 kHz for Southeast Asia. A Vietnamese language service will be launched late in 1993. (Chae Hoon-Pyo, head, English Service, Radio Korea, on RJMR 2/20) *Radio Korea* will begin relays via *BBC* Skelton on 5/1, with English at 2030-2100, French 2100-2145, and German 2145-2230. The *BBC* will broadcast via Kimjae with English at 1300-1400 and Chinese at 2200-2300. On July 1, Radio Korea will add Korean at 0630-0730 and the *BBC* will add Standard Chinese at 2300-2400. Frequencies had not been chosen in early March. (Toru Yamashita on RJMR 3/6)

Radio Korea will celebrate its 40th birthday on August 15, 1993. Its English service started on the same date. Special programs and a birthday party [in Seoul] are planned. The theme of the programs will be *International Broadcasting Today and Tomorrow*. They will discuss the role and mission a shortwave broadcaster should have in this rapidly changing world.

The EE service was aired only on MW, for foreigners living in Korea, at first. Japanese was the first language broadcast on SW, starting in 1955. French was added in 1958. SW programs in EE and KK for North America began in 1957. EE for Europe started in 1960. In 1973 the station's name was changed from *Voice of Free Korea to Radio Korea*.

During the Gulf War *R. Korea* broadcast special programs for Korean construction workers in the Middle East. Those who listened wrote that they were deeply touched by the Korean government's measures to help them take shelter. It was a real source of pride for *Radio Korea's* staff as well.

R. Korea has 355 official monitors in 72 countries who regularly send in reception reports and comments on its programs. It also has 54 listening clubs abroad in 23 countries, with 1,051 members. *R. Korea* received nearly 40,000 letters in 1992. It has two listener-oriented programs: a mailbag on Saturdays and "Shortwave Feedback" on Sundays.

Three special program series are planned for 1993: a six-part series on Korean people and culture; New trends on the Korean peninsula, and a four-part series on the Taegon Expo 93. (Chae Hoon-Pyo, director, EE service, *R. Korea*, on RJMR 2/20)

The *Korea Times*, a principal English daily, said the South Korean government is considering an end to its ban on shortwave radios. The Communications Ministry says it must consult other government agencies, including the Agency for National Security, but it hopes to lift the ban by the end of 1993. The argument has been that South Koreans might listen to broadcasts from North Korea. If the ban is lifted, South Korean electronics firms might enter the shortwave portable market. (Richard Measham, BBCM, and JM on RNMN 3/18) [The ban might be unenforceable. *Radio Japan* broadcasts three hours a day on SW in KK, and has a DX program in KK also. Its presenter, Toru Yamashita, visits South Korea frequently to gather information for his program, which is "not* broadcast on medium wave.--mf]

KOREA (North) Pyongyang has jammed broadcast from Seoul since the mid-1970s. NHK's Korean service was launched in 1960, and have not been jammed until 3/11. [See above under Japan.] North Korea began jamming *VOA* Korean broadcasts on shortwave in mid-January. *VOA* then began relaying its Korean service on medium wave facilities of *Radio Moscow* in Vladivostok [actually Usseriysk - df]. The medium wave transmissions have not been jammed. (WBI 3/19)

LAOS - The *National Radio of Laos*, in Vientiane, has 30 minute programs on 1030 and 7116v kHz at 0000 Khmer, 0030 French, 0100 English, 0400 Khmer, 0430 Vietnamese, 0500 Thai, 0530 French, 0600 English, 1130 Thai, 1200 Vietnamese, 1230 Khmer, 1300 French, 1330 English, 2300 Thai, and 2330 Vietnamese. (WBI 3/5)

Best time to try for *Lao National Radio*, 6130 kHz, is when CHNX, Halifax is off on Sunday mornings. Listen for the distinctive gongs at 1200. (Clark in FT via HJ)

LESOTHO - *Radio Lesotho* is irregular on 4800 kHz here. (Korinek NU via HJ) Try at 0300 sign on. (HJ)

LITHUANIA - *Radio Vilnius* showed up on new 9810 kHz in the second week of March [presumably replacing 7150] for English to North America at 0000-0030. (WOR via DXO)

MALAYSIA - The veri signer for *RTM Kuching*, 5030 kHz, is Kho Kwang Khoon, Deputy Director of Engineering. (Brown in FT via IU)

MAURITANIA - *Mauritania Radio*, Nouakchott, operates: 0630-0800 & 1700-0100 on 4845; 0800-0900 (-1200 Fri) & 1200-1700 on 9610 kHz; all in Arabic, French & local languages. In the past 7245 kHz has been used in place of 9610, and 4920 instead of 4845. Telephone number is +222 52164; FAX: +222 54869. (WBI 2/26)

MONACO - *Trans World Radio's* summer schedule is: English 0640-0820 (Su -0845) on 9480 kHz. German 0345-0415 6230; 0730-0745 (Su -0815) on 7160 & 9795; 1005-1020 Mo-Sa on 7160 & 9795 kHz; 1330-1400 on 7160 & 9795 kHz; 1930-2000 (Su-Tu -2015) on 6230. (BDXC via JN on FNSWE)

MOZAMBIQUE - An African Clandestine specialist advises that according to the Mozambique News Agency, *The Voice of Renamo* (operated by the Mozambique National Resistance movement) is situated at Marinque in central Sofala Province. The station has been legalized, as provided for in the 10/92 peace accord, and the Italian government is said to be providing new transmitters. Last reported frequencies [several months prior] by BBCM were 6155 at 0515 and 5916 at 1615. (DX Daily via DXO)

NETHERLANDS - *Radio Netherlands* conducted a test on 2/24, broadcasting the football match between Holland and Turkey over the 1,000-kw. xmttr at Krasnodar, Russia, on 7400 kHz. Since sports coverage is an important part of the Dutch language service, RNI wanted to broadcast the program without disrupting its other services. JM posted a message on Internet the day of the game which brought in 123 reception reports within 24H, the most distant coming from the central U.S. Further tests may be announced on Media Network. (RNMN 3/11)

Radio Netherlands learned from its printer the week of 3/8 that special color QSLs for its CIS relays will not be delivered until 4/19. The envelopes and address stickers are all done and waiting. (RNMN 3/11)

The following freq changes were to take effect Sunday 3/28:

Pacific service, unchanged, 0730-1025 on 11895 kHz; 0730-0825 on 9630 kHz and 0930-1025 on 9720 kHz. To the Far East and Southeast Asia from 0930-1125 on 15470 kHz

(Irkutsk) and 12065 kHz (Petropavlovsk-Kamchastskiy).

The English lunchtime service to Europe will get a second frequency, 9860 kHz, at 1130-1325, because listeners have complained that 5955 kHz does not carry well at that hour.

The evening broadcast to Asia at 1330 has been expanded: 1330-1625 on 17610 and 13700 (Flevo); 15150 and 9890 (Madagascar).

Sunspots have forced a change in frequencies for East Africa: 21590, 21515, 7120 and 6020 kHz from 1730-1925. The West African service is aired from 1930-2025 on 21590 and 17605 kHz.

The North American service is unchanged from 2330-0125, but 11835 kHz will make a crash start (no tuning signal) at 0030 to prevent a conflict with the Voice of America. The transmission for Western North America will move to 9590 and 6165 kHz from 0330-0425.

The morning services for Asia will use Alma Ata on 9825 kHz from 0030-0125. From 0130-0325 the EE service will use 12025 kHz at Alma Ata. Other freqs in use from 0030-0325 are 9860 and 11655 kHz from Madagascar and 13700 kHz from Flevo. The latter xmttr, in Holland, may also provide a usable signal into Eastern North America. This xmttr will carry the first release of Media Network at 0150 Thursday (9:50 p.m. EDT Wednesday.) (RNMN 3/18)

New broadcasting rules adopted by the European Economic Community forbid most simulcasting on AM and FM. The Dutch minister of culture, Ms. Hedy D'Ancona, is studying a plan to move some Dutch-language news programs from Radio One, 747 kHz to Radio Five, 1008 kHz. Dutch radio started a new FM network in 1992 and the public transmitter operator, NOZEMA, was told 747 kHz was to be awarded to a commercial station. Debate in Parliament began 3/17. The minister was handed a petition with 10,000 signatures, mainly from truck drivers who want Radio One to stay on 747 kHz which reaches outside the country. R. Netherlands is also involved in the debate, because one reason for setting up the 747 kHz service was to serve Dutch people traveling abroad. RNI's chairman has asked for 747 kHz but doesn't think he will get it; the transmission costs would be \$2.5 million for a year, and there are other uses for that money. Minister D'Ancona has asked a commission to investigate the future of 747 kHz again; meantime, it carries Radio One. (RNMN 3/18)

Radio Netherlands' rewrite of its antenna booklet has been delayed by budget discussions imposed on RN in the late winter. The previous edition was exhausted in 1992. The new edition isn't abandoned, but it's sidetracked for the moment. (JM on RNMN 3/18)

NICARAGUA - *Radio MiSkut* heard on 5770 kHz, instead of listed 5970 kHz, until 2310 sign off. (Giroletti Play DX via IU)

PAKISTAN - *Azad Kashmir Radio* on 4790 from 2356 w/subcontinental style chanting; at 0000 anmt in local tongue by man, then harangue by another man. Great signal but tough to pull through huge co-channel ute. In well another day at 0124 w/man in subcontinental tongue; found dual on 4816.2, not an AKR channel as far as I know. Most likely AKR was relaying Karachi program at this time. *PBC External Service* on 7290 from 0048 w/Qu'ran; at 0054 into presumed Hindi, then local song. Terrible hum on carrier. (Bob Hill)

PALAU - The Journal has learned that Dr. Gene Scott's University Network will not be aired on *KHBN* because of a doctrinal conflict with one of *KHBN*'s established program contractors. The contractor concerned is not involved with High Adventure Ministries' Lebanon operation. (mf)

PAPUA NEW GUINEA - *VLK* is testing irregularly on 3925 kHz, probably using 2 kw. It might be on a regular schedule sometime in March. *VLT*, 9520 kHz, might be on later this year. This is the result of an Australian aid package. (Darling to Clark FT via HJ)

PERU - *R. Nuevo Cajamarca*, Nueva Cajamarca, 5800 kHz, was heard in Japan between 1000-1100 between 1/20 and 2/15. Reception was poor, with QRM from a Chinese home service station on the same freq after 1030. The station was established in 1982 but had not been heard in Japan before. (Nobuyoshi Aoi on RJMR 2/27) [WRTH 93 says 1145-1500, 1800-0200, but to 0100 Sun UTC. WRTH and Aoi gave the name and city as above. The short answer seems to be that the word 'radio' in SS may be either male or female, but names of cities are treated as nouns of the female gender, e.g. Nueva York because York, UK, is technically female.--mf]

La Voz de Oxapampa, 3260 kHz, current schedule is 1000-0430. (Camporini Conexion via HJ)

Estacio Wari, 3280 kHz, is located in Ayacucho Department and heard around 0040. (Petersen via Krueger DXSF via HJ)

Radio Internacional, 3402 kHz, is located in San Pablo in Cajamarca. The address is Jiron Bolognesi 532. They announce 3395 kHz. They also use on 1400 kHz and 100.7 FM. (Klemetz Play DX via HJ)

R.A.M. Radio Adventisa Mundial is a new station slogan for *La Voz de la Esperanza* (The Voice of Hope), 3871.7 kHz. The address is Jiron 2 de Mayo 218 Celendin Cajamarca. (Klemetz Play DX via HJ)

Radio Naylamp has reactivated on 4299 kHz. It was last heard during July 1992 on 4110. Try around 1100. (HJ)

Aztecán X has been heard in Iowa on 4593.5 kHz by Don Moire. Try at 1100. The

station's slogan is *La Nueva voz del Peru*. (FT via HJ)

Radio Tendency has reactivated 4910 kHz, //6173.9. (Camporini Conexion via HJ)

Radiodifusion Amauta is the new name for Cultural Amauta. (Camporini Conexion via HJ) Power is 5 kw, frequency is 4954 kHz. (Latin American New Letter Conexion via HJ)

Radio El Mundo has been heard around 1000 on 5082 kHz with the program *Voa Campisena* (Voice of the Farmers' ?) in Quechua and Spanish. This is the identification you will probably hear rather than *Radio El Mundo*. (HJ)

Radio Vision this station has reactivated on 5131 kHz and been heard at 0045 with IDs and the slogan *La voz de la Familia*. (HJ)

Radio Tayabamba is heard around 5386.4 kHz at 1030 but the transmitter drifts up about a 100 Hz a minute. It has been as high as 5528 recently. (HJ)

Radio Victoria, 6020 kHz - pardon my translation but this one is inactive and apparently has trouble importing parts for its transmitter that was built in the 1940s. (Camporini Conexion via HJ)

Radio Santa Rosa, 6045.4 kHz, is a difficult catch, but heard at 1015 during the end of February. (HJ)

Radio Cuzco has left 6194.5 for 6203.7 kHz in order to get away from the Bolivian *Radio Metropolitana* which has reactivated on 6194.5. (Dave Valko via HJ)

The morning program of *Ondas del Mayo*, 6803.5 kHz, goes by the name *El Madrugador*. (Moire in FT via HJ)

R. Cusco, Cusco, has moved from 6195 to 6204 kHz to get clear of *R. Metropolitana*, La Paz, Bolivia, on 6195. (Nobuyoshi Aoi on RJMR 3/13) WRTH 93 gives *R. Metropolitana*'s MW sked as 0900-0400. (mf)

PHILIPPINES - *PBS* noted on 12363.8 kHz in Chinese at 1450. (Korinek NU via HJ)

PIRATES EUROPE - *Radio Lightning International* is a new station on 6209 kHz. Address is P.O. Box 10 Stuart House, Kings Street, Droytsden, Manchester, England.

Renegade Radio is a new station on 6233 kHz whose address is: 32 Victoria Rd., Salisbury, Wiltshire, England.

Xenon Transmitting Company, 6255 kHz, uses the Wuppertal address.

Crazy Wave Radio a new German station on 6272 kHz has the address: P.O. Box 202, 6440 Bebra, Germany. (All above Free DX via Contact via HJ)

Radio Lowland, a Dutch pirate on 6285 kHz, was raided 1/31 and is off the air. (Free Radio Page via Play DX via HJ)

Starshine Radio operating on 7415 kHz from Sweden with 75 watts can be reached at S.R., 12 Dorman Road, Preston PR2 6AS, England. (Free Radio Page via Play DX via HJ)

Radio Waves International might be having trouble with the transmitter on 7473 kHz, so try 11400. (Free Radio Page via Play Dx via HJ)

PACIFIC - Kiwi Radio, 5030 kHz, heard at 0609 with 60s and 70s pops. (Ormandy DSWCI via HJ) Careful, this is co-channel Tonga. (HJ)

Radio G'Day heard signing on at 0758 on 9150 kHz. (Ormandy DSWCI via HJ)

PORTUGAL - Voice of Orthodoxy broadcasts via *Radio Trans Europe* in Russian Saturday at 1630-1700 UTC on 9,670 kHz, Sundays at 0500-0530 UTC on 9,690 kHz, and 1100-1130 UTC on 9,670 kHz. Reception reports are verified with detailed QSL's. Address is Voice of Orthodoxy, B. P. 41608, 75366 Paris Cedex 08, France. (Contact 2/93 via Rich d'Angelo)

RUSSIA - Deputy Chairman of the Ostankino Broadcasting Corporation, Valentin Lazutkin, said in an interview that the foreign service of Russian Radio will soon have its own voice, on the basis of *Radio Moscow International*. The new station is to be called *Russian Wave* [Russian: Russkaya Volna]. (WBI 3/5)

A station calling itself *the Voice of the Assyrians*, operating in Moscow, was first noted 2/24 on 1494 kHz from tune in at 1608 to 1630 close. The station announced its programs were for the Assyrian community in Moscow, and had begun operating 2/20. It has some announcements in Persian and Arabic, as well. Announced as 1600-1630 Wednesday and Saturday on 5905 and 1170 kHz. Address is Pyatnitskaya Street 25, Moscow, Russia. (WBI 3/5)

A station in Russian calling itself *Radio Station Sofiya* was noted with a religious program in progress on 12070 kHz at 2250 2/26. It described itself as a service of the Moscow Patriarchy's Department for Religious Education and the Teaching of the Catechism. Prior to s/off at 2329 it gave an address: 113 326 Moscow, ul Kachalova 24. (WBI 3/5)

Far Eastern Christian Broadcasting, Khabarovsk, moved its Russian service from 4060 kHz to 9560 kHz 0800-1200. First heard in Japan 2/13 by Toru Yamashita and Tsutomu Kato. 4060 kHz is still mentioned in the opening announcement in KK. (RJMR 2/20)

The Voice of America's SW relay via the Russian Far East from 1400-1600 moved from 5925 to 5915 kHz in mid-February. (Tsutomu Kito on RJMR 2/20). 5925 had been subject to jamming by China. 5915 interferes with R. Tashkent [see below]. (Bill Whitacre, VOA, and Toru Yamashita on RJMR 2/20)

Ehart Goddyn of Radio Netherlands' frequency bureau visited Radio Japan in early February while observing signals of RNI's new

Russian relays and the old Madagascar site. Russian signals were SIO 454, almost as good as Japanese MW signals except for fading. Madagascar was fair to poor. As of 3/28 the 0930 broadcast to Japan and the Dutch xmsn at 1330 moved to 12065 kHz NF. Radio Netherlands engineers make trips abroad twice a year. Hardeyn's most interesting expedition was to Lebanon in the 70's when Dutch troops joined the United Nations force. He flew by helicopter from Cyprus and had to show the servicemen how to tune SW receivers. (RJMR 2/20)

China began jamming VOA and BBC relays via the Russian Far East in early February. The VOA uses 5925 and 5945 kHz from 1400-1600; the BBC uses 9845 kHz. Jamming of other BBC freqs carrying Mandarin in the Far East has also been stepped up. (Bill Whitacre, VOA, on RNMM 2/25)

The DX editor of a Russian radio publication claims that *R. Moscow International* may have to close down because of unpaid bills for transmitter rentals. (Mikhail Paramanov, Moscow, on DXPL 2/27) [Inflation in Russia has been running at a monthly rate of 50 per cent per year; at the end of February the ruble was quoted at 569 to the dollar, on 3/9 it was 648 to the dollar.--mf]

R. Ala and **R. Art** have both been closed down by *R. Moscow* because they had not paid transmitter rentals. Both stations are in debt and will not be allowed back on until their bills are paid. (Mikhail Paramanov, Moscow, on DXPL 2/27)

R. Nadezhda has extended its broadcast to the Far East by one hour, 0700-1100 on 630 kHz MW and 15640 kHz and 0900-1100 on 6050 kHz. (Yoshinori Kato on RJMR 2/27).

FEBC via Khabarovsk, on 4060 kHz, from 0800 until 1200* in Russian and Korean. Ex 9560. (Kito DSWCI via HJ) **FEBC** via Vladivostok on 6035 kHz from 1230 until 1730. (Rudnev, Contact via HJ)

Radio Stantze Unie is a new station via Dushanbe on 4740 kHz. Heard with Russian and English pop music and Russian IDs at 0040. (Jorgensen DSWCI via HJ) **Radio Yunost** (Youth) is the one that had been logged here. (HJ)

Radio Bereyzovo in Khanty-Mansiysky Natsionalny Okrug heard at 0400 with sign off at 0543 on 5070 kHz. This station has reactivated and has its own IS plus ids in Russian. (Timofeyev DSWCI via HJ)

Radio Polis, 6045 kHz, has left shortwave (Grigoriev Contact via HJ)

Radio 7 is a new independent station broadcasting from Samara via the Zhigulevsk transmitter at 1300 and 0500 in Russian and Chuvash on 6115 kHz. The address is Ul. Gagarina 6A, 443079 Samara, Russia (Grigoriev Contact via HJ)

Radio Shark and **Radio Titan** are sharing a transmitter and using new 6185 at 0200-2000 (Rudnev, Grigoriev, Contact via HJ)

Radio N has stopped using 6200 kHz. (Grigoriev Contact via HJ)

BBC via Chita in English and Chinese at 2200-2300 on 7135 kHz, and on 7420 from Vladivostok at the same time. (Rudnev Contact via HJ)

Radio Pamyat heard here from 1430-1600 then **Radio Radonez** until 1700. (Koutamanis DSWCI via HJ)

Radio Magadan has local programming in Russian at the following times on 5940, 7320, 9530 and 9600 kHz: 1700-1800 Sat/Sun, 2100-2200, 2210-2300 Fri, 2215-2300 Sun-Thur, 0020-0100 Mon-Fri, 0420-0515 Mon-Fri. The station's address is ul. Komuny 8/12, 685000 Magadan-13. (Grigoriev, Dx Moscow via Play Dx via HJ)

Radio SNC has left shortwave. (Rudnev, ADXN via HJ)

Radiostaniya Vostok (Radio Station East) is on the following schedule: 0700-0830 (M-Sa), 0700-0800 (Su), on 4610 (Komsomolsk) and 7210 (Khabarovsk). (Rudnev ADXN via HJ)

Radio Yunost operates on the following schedule: 7200, 11820 and 17900 kHz at 0200-2200; 5995 at 2300-2000; 6130 at 2100-1600; 4610 at 0300-2200. (Klepov, DX Moscow via Play Dx via HJ)

Radio Rukhi Meroc (Spiritual Heritage) operates in Tatar on 4055 & 17890 kHz at 1600-1645 Fridays. Address is 129090 Moscow Vypolzov per. d.7. (Pavlova, DX Moscow via Play DX via HJ)

Radio Diapazon is a new station in Perm broadcasting in Russian on 5290 kHz at 0430-0500. (Goloss Rossii, via DX Moscow, via Play DX, via HJ)

Radio Center is a new station in Krasnoyarsk broadcasting in Russian on 5290 kHz at 0400-0430. (Ibid)

Dx Moscow, a Russian Dx Club, is providing translation services: (1) The cost is 1 dollar to translate a letter and mail it to a Russian station. (2) The cost is 3 dollars if you want to receive your reply via the club. Letters must be sent registered to the following address: Anatoly S. Klepov, ul. Tvardovskogo, 23, kv. 365, 123458 Moscow, Russia.

R. Moscow International has apparently dropped the Western North America English service at 0400-0800. Old (W-92) opening announcements were used until 3/9. No opening announcement was heard 3/10. Freqs heard in CA 3/10 and 3/11 include: 0400-0530, 9810, 12050, 15425 and 17570 kHz; 0430-0500, *R. Aum Shinrikyo*, 9810, 17655 and 17690 kHz; 0530-0600, 12000, 12050, 15425, and 17690 kHz; 0600-0800, 12000 and 12050 kHz. This sked is still tentative. 5905 kHz is used for English to Asia 1200-1300 and 1400-1500; 7380

kHz is used from 1500-1600. 9810 kHz may be in Europe. Tracing has been complicated by ionospheric upsets. (Mike Fern-CA)

R. Moscow International, like some independent stations, may be a casualty of the fight between President Yeltsin and the Russian Parliament over financial matters. Russia has no formal unemployment compensation program. So the hard liners in Parliament have forced the Central Bank to print money to keep workers on factory payrolls. Yeltsin lost his first attempt to get control of the Central Bank in early March. (mf)

Radio Alma Ata, via Novosibirsk, on 3955 at 0115, operatic style song, dual 5260, both rather weak. (Bob Hill)

SAUDI ARABIA - R. Luxembourg on 1440 kHz closes early at 2200, leaving the channel open for the 1600 kw. xmttr at Dammam which signs off at 2300. (Peter Goody and Ray Woodward, UK via Fidonet on RNMN 2/25) There are rumors that a country music program may take over on R. Lux after 2200. (Andy Sennitt on RNMN 2/25) [The most powerful MW station in use now is probably the four-megawatt xmttr output (not ERP) outlet on 1314 kHz in the United Arab Emirates. You could drill oil wells with a ground rod in that neighborhood if you could hold the rod...-mf]

SEYCHELLES - FEBA on 11770 signing on at 0159, perhaps the Urdu service. Not listed in 93 WRTH. (Sharp DXSF via HJ)

SINGAPORE - Radio One, both the 5010 and 5051.8 outlets audible from 2303, woman with news in English; weak and 95% unreadable amid QRN. (Bob Hill)

SOMALIA - Radio Rajo (R. Hope), operating on 9540 kHz at about 1100, had not been heard by BBCM since 2/15. (Richard Measham, BBCM, on RNMN 2/25)

SOUTH AFRICA - BBC transmissions from Meyerton, effective 1/25, were: 0245-0330 Swahili on 11920; 0430-0500 Portuguese on 6175, 9515 & 11940; 0530-0600 Portuguese on 6005, 9515 & 15105; 0700-0730 on 17790; 1700-1730 Portuguese on 6070, 7230 & 9515; 1700-1900 English on 15420; 1745-1800 Swahili on 7230; 1800-1830 French on 7230. (Tom Davies, Muizerberg, South Africa)

Radio Orion, the SABC's domestic EZL service, will close at the end of May or June. An announcement of the closing was broadcast 3/1, but the closing date was uncertain in mid-March. R. Orion uses MW and 4810 kHz SW from *2200-0300.* Another domestic network, R. 2000, will take up the slack. Whether it will use SW had not been confirmed. (Bill McClintock, MN, and JM on RNMN 3/18)

SRI LANKA - Dave Clark notes in *DX Ontario* for April that the best bet for SWLs to log this country is the *SLBC* morning program in English from 0030 past 0100 on 9720 kHz. The easy-going DJ runs a program of modern pop music. Dave says the signal booms in almost every evening he's checked - no doubt using one of the 300 kW *Radio Japan* relay transmitters. (Dave Clark in DXO)

SLBC's Sinhala Commercial Service on 4870 from *2325 w/drums, also at 0012 recheck w/typical Sri Lanka chanting, similar to Arab style but more monotonous. 3/11-12 was stronger than 4902 & 5020. *National Service* on 4902 most days at *2325 w/drums & chorus; often audible as late as 0140 with chants, subcontinental vocals, dramatic readings & talk in presumed Sinhala. On 3/7 already on at 2210 w/chanting. At 0103 on 3/8, was dual 4870 w/woman in English, seemingly news, but both frequencies too weak and QRN-ridden to be positive. *Tamil Commercial Service* on 5020 from 2310 w/man reading a list of names; 2315 into chanting past 2334. (Bob Hill)

ST. HELENA - John Ekwall & Jan Tuner, well known DXers and proprietors of *South Atlantic Travel & Trade*, have released an information sheet concerning the success of the 1992 Radio St Helena Day broadcast. Over 700 reception reports were received. Propagation to North America was excellent, but European DXers did not fare as well as in 1990 for the inaugural transmission. The newsletter concludes with the message: "We shall be back to you with further news about the 1993 Radio St Helena Day!". (via Harold Sellers in DXO)

SWAZILAND - *Trans World Radio* inaugurated a new 100kw transmitter on 11/13 to replace an old 25 kw unit. The transmitter operates on the following schedule: 0300-0355 Port 3335 often heard in North America; 0400-0415 Lomwe 6020; 0430-0820 Lomwe 11740; 1440-1530 Port 9515; 1530-1545 Lomwe 9515; 1600-1700 Chewa 9520; 1700-1745 English 9520; 1745-1830 Shona 4790; 1845-1900 Umbundu 7120; 1900-1950 Port 7120. (Bushell DSWCI via HJ) The *TWR* English schedule from March 7th until September 4th is as follows: 0430-0600 4760 5055 7180 7200 7215 7290; 0600-0700 above plus 11740; 0700-0835 7180 7200 7215 7290 11740; 1600-1845 9500 9520 9525 9630 9650; 1800-2015 3200 3240 3275; 1900-2045 3240 simulcast with 1170 MW. I don't believe that they are on all these frequencies but rather one per meter band per time slot. Their schedule is very difficult to read. (HJ) It always has been. The technicians must have a better schedule to operate from, else they'd never figure out what to do. [df]

Trans-World Radio was heard in New Zealand in early March with gospel music and an English announcement at 1745 on 9500 kHz.

(AC on RNMN 3/11) [This may be a Z-93 sked.--mf], My recollection is that they tend to operate on the (ex-)IFRB schedules (M, J, S & D), rather than the Z and W schedules. [df]

SWEDEN - A fire at the 600 kw xmtr on 1179 kHz at Solvesborg has shut the xmtr down for several weeks. A low-power backup is in use until full power returns. 1179 is used for R. Sweden's international service. R. Sweden was to learn the extent of possible budget cuts for fiscal 1994 on 3/24. The Swedish parliament is to vote on the issue 4/14. (RNMN 3/11)

R. Sweden says the first of its new 500-kw. xmtrs will take the air in early April. (RNMN 3/18)

SWITZERLAND - In its 2/26 edition, BBCM excerpted an interview on *Swiss Radio International* with SRI's new director, Ulrich Kuendig. Some excerpts from the excerpt: *We should try to diversify our programs with new possibilities of distribution and the new target groups and the new target countries. ... I think we should give more of this, of an impression of the cultural Switzerland to other people and other countries.* [My impression is they used to do that 25 or so years ago. df] To a statement by the interviewer that SBC has received quite a number of letters from listeners complaining they could no longer receive SBC programs because of a shift in emphasis from shortwave to satellite, Mr. Kuendig responded, "Well, they have to change their radio sets, I'm sure they have to." [Wonder what the TOMers would say about all this. - df] To a query in regard to the problems he sees at SRI, he responded, "Money. It's always the same." (WBI 2/26)

Swiss Radio International's radioteletype service closed at the end of March. The message of explanation claimed the service cost too much and didn't arouse enough interest. A different story than that given by the former SRI chief, Roy Oppenheim, on RNMN in 1992. SRI is looking for more efficient ways to transmit text over long distances. One test is a Teletext page on the TV-5 satellite TV channel: Text page 138. (Dave Alpert, NY, on RNMN 3/18)

THAILAND - *VOA Udorn Relay Station* began test broadcasts in Mandarin on March 1 with a single transmitter at 1100-1400 on 11785, 1400-1500 on 9615, 1500-1700 on 9680, and 2100-2300 on 6045 kHz. The 1400-1500 piece moved to 9715 kHz on 3/11. The antenna was a 2x2 portion of a 4x6 curtain, beamed 30 degrees.

I did manage to hear the new VOA relay from Thailand yesterday (I was home sick with the flu). Caught the end of the 11785 kHz broadcast and the change to 9615 kHz at 1400. The first frequency was reasonably good but the latter suffered QRM from Radio Veritas Asia around 1430. I imagine that is creating some problems in the intended target area????? [Moved

to 9715 about 3/11. df] The later change at 1500 to 9680 kHz produced a fair signal. However, 11785 kHz was the best of the bunch. My report is off to the special QSL address. (Rich d'Angelo)

TONGA - Richard Wood reports from Hawaii that he has established commercial ties with a representative of the Tongan government. In doing so, he has apparently urged and received indications that the shortwave outlet of the *Tongan Broadcasting Corporation* on 5030 kHz could be back on the air soon. The 1 kW transmitter has been off the air for more than a year after it was damaged by a lightning strike. (DX Daily via DXO)

UGANDA - R. Uganda has reported that the Minister of Information has given the green light to a private station, *R. Kampala*, in line with the government policy of liberalization. Uganda is to have a private TV station as well. (Richard Measham, BBCM, on RNMN 2/25)

UNITED KINGDOM - The *BBC* resumed its Albanian service 2/28 after a 26-year silence. It is on the air from 1830-1900 on 7105 and 9770 kHz and via Tirana on 1215 kHz and perhaps on FM. (Richard Measham, BBCM, on RNMN 2/25) *BBC* WS newscasts the weekend of 2/26 promoted the new service heavily in English. It is targeted not just at Albania proper but at the Albanian speaking minorities in Yugoslavia and Macedonia. (mf)

The *BBC* was expected to start audio subcarriers to the UK Gold channel on the Astra 1-B satellite: *BBC* WS, Radios One, Four and Five may have begun on 3/19. (JM and several callers on RNMN 3/18)

R. Fax, an English operation which used SW xmters in Ireland until 9/92, says it hasn't given up its campaign for an official British license. The UK Department of Trade and Industry's Radio Communications Agency has had more letters requesting *R. Fax* be given a license than any other topic except the complaint about the removal of *BBC* Radio 4 from long wave. Trevor Brooke, station manager of *R. Fax*, says he's disappointed that the DTI believes there's a shortage of available freqs, and has come up with a very large cost estimate for any possible SW license. *R. Fax* is currently quizzing the British government as to why it will allow programs from Japan and, soon, Korea to be relayed from its territory but refuses to consider private commercial requests. (JM on RNMN 3/11)

UNITED STATES - President Bill Clinton's economic plan eliminates a \$1 billion U.S. government relay base planned for the Israeli desert, and puts a \$125-million relay base into Kuwait. The Israeli project, conceived during the Cold War, would have relayed Voice of America

and Radio Liberty broadcasts in 28 languages to Eastern Europe, Central Asia and Africa. The station envisioned for Kuwait would be an SW/MW outlet for AA broadcasts. The proposed Israeli project drew protests from environmentalists who claimed the 43-aerial complex would damage the environment and disorient millions of migratory birds. The Clinton plan also seeks to shut down Radio Free Europe and Radio Liberty by 1995. The capital assets of those two services, put in place during the Cold War, would be transferred and merged with the VOA. (Unnamed wire service on DXPL 2/20)

President Bill Clinton plans to terminate the *Board for International Broadcasting, Radio Free Europe* and *Radio Liberty* in 1995. Under this proposal, the capital assets of the RFE/RL in Germany, Portugal and Spain would be transferred to the USIA. President Clinton's plan also provides \$30 million as seed money for *Radio Free Asia*. Sen. Russell Feingold of WA has introduced S.51 to consolidate or eliminate RFE and RL. Much more to come. (JM on RNMN 2/25)

Two Macedonian groups in the U.S. are sponsoring programs in Macedonia on *WHRI*, South Bend, IN, at 0100-0130 Tu/Th/Sat on 7315 kHz. An opening announcement in English identifies the program as *The Macedonian Voice from the U.S.* The program consists of a long news bulletin and some folk music. The sponsors appear to be the Macedonian World Congress and the Movement for Macedonian Human Rights, both U.S. groups. Time and day announcements, not in UTC, indicate Macedonians in the U.S. are the targets. (Richard Measham, BBCM, on RNMN 2/25)

WJCR, Upton, KY, has moved its transmitter for Latin America to 13590 kHz because of interference. (Brian Johnson, CA, via Fidonet on RNMN 2/25) [back on 13595 3/7.--mf]

WEWN has begun testing a second transmitter, heard at 2045 on 17850 kHz. A station engineer says the transmitters, capable of 500 kw output, are currently held to 300 kw. (George Thurman, IL, on RNMN 2/11)

The *Society for the Eradication of Television* may be reached at Box 10491, Oakland, CA 94610. A survey in the February issue of the medical journal *Pediatrics* revealed that TV may be contributing to a near-epidemic in obesity among children. Watching TV seems to be coupled with a profound lowering of the metabolic rate. One out of every four youngsters in the U.S. is overweight, along with 30 percent of the adults. (RNMN 3/11) [Most SWLs are

slender. Just check the photos in the Journal.--mf (5' 4", 170 lb.)

New World Radio, to open 4/15 in Washington D.C. on 1120 kHz, will specialize in SW and satellite programs originating abroad. Early birds include *Radio France International* (2 hours a day in French), *Voice of Free China* and *China Radio International* for Chinese and English, *Radio Austria International* and some German private stations. VOA in English will be used as filler. (RNMN 3/11).

Signals, the media program produced on *WWCR* by Gary Bourgeois, may never return in its old form. The sponsor, a SWL specialist publisher, has also suspended operations for lack of finance. (RNMN 3/11)

URUGUAY - SODRE has reactivated 9620 kHz. (Jones NU via HJ) *SODRE*, 6125 kHz, started in 1948 and has a power of 175 watts. (Munoz F. Radioactividades via Conexion via HJ)

UZBEKISTAN - R. Tashkent began a Chinese service at 1430-1500 on 5915 kHz. It had been planned to start on 1/1/93 but was first heard 1/17. Chinese is also broadcast at 2330-2400, but has not been heard in Japan. A parallel freq of 6135 kHz is used at 1430-1500 but had not been heard in Japan in mid-February. 5915 kHz also carries R. Tashkent's Uighur service at 1230-1330 and 1530-1600. (RJMR 2/20)

Uzbekistan Home Service heard on 7105 kHz, ex 9545 // 4850 at 1715-2100. (Pankov, in DSWCI via HJ)

VANUATU - Radio Vanuatu is still active on 3945 kHz. (Galassi Play DX) New winter schedule is 1800v-1015v. (Timofeyev in DSWCI via HJ)

VIETNAM - The relatively new Vietnamese outlet on 5033v has been heard at 1107, parallel 10059. It's still unknown if this is a Hanoi outlet or a relay by a new regional station. (Craig Sieger in ADXN via DX Daily via DXO)

Voice of Vietnam Domestic Service was heard in Japan 2/23-24 at 1100-1300 on new 6164 kHz, apparently replacing 6136v. The program was in a local language at 1200-1230, otherwise in Vietnamese. The parallel outlet formerly on 5020 kHz could not be heard and may no longer be in use. (RJMR via DXO)

The *Voice of Vietnam's* home service has been heard on 12035 opening at 0300 and continuing past 0700 // 10059 kHz. 12035 normally carries the foreign service, but was used for home service in this time period during 1989. (Hans van den Bokherf, Taiwan, via DX Window on RNMN 2/25)

Quang Ninh Provincial Station is still on the air signing on at 1130 possibly on a frequency between 4698 and 4705. There are a number of Russian language programs on FM in both Hanoi and Nha Trang. (Both via van Arnhem DSWCI via HJ)

The *Voice of Vietnam's* home service was heard in Japan 2/23 and 2/24 from 1100-1300 on new 6160 kHz. Reception was poor. Programs were in Vietnamese, with Meo between 1200-1230. 6160 is believed to replace 6135 kHz, heard late in 1992. The same service was heard on 5020 kHz early in 1992, but was not heard in 1993. (Isao Ugusa on RJMR 3/13)

YUGOSLAVIA - R. Yugoslavia, Belgrade began carrying "The Radio of the Bosnian Serbs" in mid-February. A 5-min program in Serbian is broadcast 2125-2130 on 6100 and 9720 kHz for Europe and repeated to North America at 0055 on 9680 kHz. BBCM believes this program is not in parallel with the normal home service on 1359 kHz; the 9720 kHz xmsn is probably an early-morning release for Australia. (Richard Measham, BBCM, on RNMN 2/25) [The IS is a 12-note theme on a zither or dulcimer; the ID sounds like "Izbi Radio Televizija Republika Serbska." WRTH 93 lists two low-power xmtxs in Vojvodina, not Bosnia, on 1359 kHz.--mf]

RESOURCES - (Latin America) If you can understand a bit of Spanish and are interested in Latin American Dx news, you might want to order a sample copy of *Conexion*, an Argentine bulletin, for 6 IRCs via Casilla de Correo 465 1900 La Plata, Argentina. (HJ)

DISCLAIMER - Any opinions I express here are mine, not those of VOA, where I work. [Can an organization have an opinion?] Back next month. Dan

QSL Reports

Sam Barto
47 Prospect Place
Bristol, CT 06010



BBC auf DEUTSCH



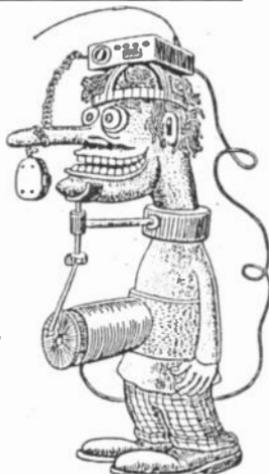
B.B.C.
East Asia Relay
HONG KONG

- f/up rpt. requesting sites. (Rigas-IL). **Radio Moscow** 15580 via **Irkutsk** f/d cd. in 2½ mo. (Barto-CT). **Deutsche Welle** 7340 via **Krasnoyarsk** n/d cd. in 3 mo. (Barto-CT). **PRC Russia** 9560 f/d "Armoured Launch Memorial" cd. w/ newsletter in 30 ds. v/s Viktor Akhterov, Russian Ministries. Addr: P.O. Box 1, La Mirada, CA 90637. (Yamada-JPN).
- AUSTRALIA: VLBT** 2325 f/d "A&C Map" cd. in 81 ds. for a taped rpt. and ms. (used) (Klinck-NY). **VLBA** 2310 f/d ltr. w/ station info., stickers in 71 ds. for a taped rpt. and ms. (Klinck-NY). **Radio Australia** 9580 f/d ltr. w/ "Wilderness Society" cd. and sked. in 51 ds. (Poston-TA). 13605 via **Darwin** f/d ltr. in 2½ mo. for \$1.00. (Millard-TX). 6020 f/d ltr. w/ schedule and cd. in 43 ds. (Schwartz-NY). **VLWG** 6140 via **Wanneroo** p/d cd. in 42 ds. for 2 IRCs. (Field-PA).
- BAHRAIN: Radio Bahrain** 9746 cd. in 7 wks. for a taped rpt. VIC # 229. (Berg-MA). (Clar).
- BELARUS: Radio Minsk** 17690 f/d cd. w/ schedule in 1 yr. for a taped rpt. and \$1.00.
- BELGIUM: BRT** 9930 and 13655 f/d cd. in 90 ds. (Levison-PA). 9930 f/d cd. w/ schedule and stickers in 69 ds.
- BIAFRA: Radio Nigeria** 6025 via **Enugu** f/d (Jones-OH).
* ltr. in 2 mo. for SASE. v/s L. Nnamuchi, Chief Engineer. (Kohlbrener-PA).
- BOLIVIA: Radio JuanXXIII** 4965 f/d prepared cd. in 3 wks.
* after 2 f/up rpts. in SP w/ SASE. (Kohlbrener-PA) **Radio Santa Cruz** 6135 f/d ltr. w/ pennant in 10 mo. for a SP rpt. after a f/up rpt. v/s Victor Blajot S.I. (Lare-MI). **Radio San Miguel** 4926 rcvd. a computer generated ltr. w/ freq. only in 5 wks. for a taped rpt. v/s Felix A. Rada Q., Director. Addr: Casilla 102, Ribalalta, Beni, (Lobdell-MA). **Radio San Gabriel** 6085 f/d "Certificado" cd. w/ personal ltr. in 44 ds. for a SP rpt. and \$1.00. v/s Hno. Jose Canut Saurat, Director Gerente. (D'Angelo-PA). **Radio Fides CP12** 6155 n/d ltr. w/ XMAS cd. and calendar in 57 ds. for a SP rpt. and SASE. v/s Eduardo Perez Tribarne, Director. (Palmer-MA).
- BONAIRE: Trans World Radio** 11815 f/d cd. in 25 ds. (Gaharan).
- BOSNIA (Yugoslavia): Radio Yugoslavia** 6100 via **Bjeljina** f/d cd. w/ site in 65 ds. (Rigas-IL). 9580 f/d "Danube Fest" cd. in 68 ds. for \$1.00 and 1 IRC. (Palmer-IL). 7200 p/d cd. in 3½ mo. (Barto-CT).
- BOVISMANA: VOA** 15495 f/d cd. in 22 ds. (Straus-NJ). 7265 p/d "50th Anniversary" cd. hand-written by Dan Ferguson in 7 ds. after a f/up rpt. (Klinck-NY).
- BRASIL: Radio Bras** 15445 f/d cd. w/ sticker in 47 ds. for \$1.00. (Klinck-NY). **Radio Oito de Setembro** 2490 **ZYG866** n/d cd. w/ ltr. in 4 mo. for a PT rpt. (Barto-CT).

- AHU DHABI: UAE Radio** 13605 f/d ltr. in 153 ds. for 1 IRC. (Palmer-IL).
- ALASKA: KNLS** 7355 f/d cd. w/ schedule in 1 mo. for ms. (Pankake-MN).
- ANTIGUA: Deutsche Welle** 17715 and 15275 cd. in 2 mo. (Barto-CT). **BBC** 17840 f/d prepared cd. in 7 wks. for \$1.00. (Pankake-MN).
- ASCENSION ISLAND: BBC** f/d ltr. in 145 ds. for 1 IRC. via Orlando, FL v/s Dinah Fowler. (Anderson-MI).

- ASIATIC RUSSIA: Radio Vilnius** 15580 via **Petropavlovsk-Kamchatsky** and 13645 via **Khabarovsk** cd. w/ sites in 30 ds. after a

WIRE LINE RADIO



via Lobdell

The No Metal. No Rap. No Crap. Pirate II
On Your 41, 19 Meter and MW Dial

PENNANT MUSEUM: Mr. Andy Schmidt of P.O. Box 61, D-W-8737 Euerdorf, Bavaria, Germany has been operating a Pennant Museum for quite some time. He has more than 1,000 different pennants on display. He is actively looking to trade or exchange pennants with other individuals. Andy has boxes full of duplicates and wishes to add new items to the museum. If you are interested in this operation, please contact Andy at the above address. Tell him you read it in the QSL Column....Sam.

RADIO BANDEIRANTES



SÃO PAULO
BRASIL

BRASIL: Radio Aparceida 5035 f/d cd. in 60 ds. for a PT rpt., tape and ms. (Klinck-NY).

HUNGARY: Radio Sofia 11720 f/d cd. in 1 mo. (Levison-PA). f/d cd. in 7 mo. (Gaharan-IA).

CAMEROON: CRTV 3970 via Buea f/d prepared cd. w/ ltr. & info. about a pen-pal club for SWLs for a \$25.00 fee: in 66 ds. for a FR rpt. and a \$2.00 contribution to CATHCA. v/s James Achanyi Fontem. (D'Angelo-PA).

CANADA: Radio Canada International 11945 f/d "XV Winter Olympics" cd. in 14 ds. (Schwartz-NY). CFVP 6030 p/d folder cd. in 14 ds. v/s John H. Bruins. (Pappas-SD). CHRY 6130 f/d cd. in 317 ds. after a f/up rpt. (Helm-KS). f/d ltr. in 9 ds. for \$1.00 v/s Kurt J. Arseneault, Chief Engineer. (Pankake-MN). f/d ltr. in 14 ds. for \$1.00. (Pappas-SD). f/d ltr. in 45 ds. for \$1.00. (Poston-IA). CRFX 6070 f/d "Map" cd. w/ schedule in 14 ds. for \$1.00. v/s Stephen Carney. (Poston-IA). CFPC/ACTOX 6005 n/d cd. in 2 wks. (Pappas-SD). CKZI 6160 p/d cd. in 2 wks. v/s Dave Newbury. (Pappas-SD)

Canadian Forces Network f/d ltr. w/ sticker in 29 ds. for 1 IRC. v/s Jean Choquette. (Poston-IA).

CHINA, PEOPLES REP. OF: China Radio International 9370 cd. w/ sticker and schedule in 2 mo. (Barto-CT). Voice of Jingling 4875 p/d "Garden of the Master of the Nets" cd. in 40 ds. for a taped rpt. (Washburn-ME).

CLANDESTINE: La Voz del CID 9942 f/d "Logo" cd. in 7½ mo. for a SP rpt. and

* \$1.00. (Clar-NY). Democratic Voice of Burma 17845 via Radio Norway at Kvitoy f/d "Periodic Beam Antenna" cd. in 22 ds. for \$1.00. v/s Khin Maung Win. (Kusaltik)

COSTA RICA: Radio For Peace International (RPFI) 6201.2 f/d cd. in 7 wks. (Barto-CT).

* Radio Nex Meol 7385 via RPFI f/d cd. in 2 mo. (Barto-CT)...more below.

NOTES: Jerry Klinck says that he has just QSLed African #49 and wonders whom will be #50: he says his two biggest nightmares are his recorder malfunctioning while taping Tristan or me giving up the QSL Column...Better check out your tape recorder. Hi!...Sam. Mr. Edward E. Lion sent me a very nice package of materials from the Emerald City in the Land of OZ. Thank you so very much from me to the Voice of OZ...Sam. Ross Comeau sent in a few illustrations for the Column. We will certainly use them. Kevin Murray had a case of the flu and a sinus infection in early January. Hope you are better now. I kept telling my wife that I have the flu but she makes me roll over in bed anyway...Sam.

COSTA RICA: United Nations Radio 15031.5 via RPFI f/d "UN Building" cd. in 104 ds. for ms.

* (Palmer-IL). FIRE Radio 7385, 7375, 15031.5 and 13630 f/d cd. in 9 wks. (Barto-CT).

UNESCO Radio 13630 via RPFI p/d form ltr. w/ cd. in 31 ds. for 1 IRC (returned). v/s

Erin Faherty-Mella, Executive Radio Producer. (Hardester-NC)...Congrats on your award Mike. Very well deserved!!!!...Sam. TIAMR

Radio Lira International

5030 via Alajuela f/d "Solar Eclipse" cd. in 52 ds. for \$1.00. (Palmer-IL).

CUBA: Radio Habana Cuba 11950

f/d "Cattle Breeding Project" cd. in 4 mo. for 1 IRC. (Pappas-SD).

CZECH REP: Radio Prague 7345

via Litomyšl f/d "Lynx" cd. in 33 ds. for \$1.00. for 1 IRC. (Palmer-IL). f/d "Protected Flora" cd. w/ schedule in 36 ds. (Poston). More on next page...Sam.





Rádio Educação Rural Ltda
 08 - 211 267 - 030 642 - 16 64
 01 - 211 - 084 - 4780 624 - 16 64
 Moggi - rd JUCEM 11 Br. 26 1478
 C.C. 147 Br. 26 4780 624
 Av. Maria Graham 538 - Centro
 Ca. P. A) Fone 624 400 - 262 2736
 29 49 - Campo Grande - MS - BRASIL

via Chris Lobbell



Desiderio Santiago
 Recibirnos e agradecerlos es un
 honor de por esta carta de 1. No de 27 de
 Janeiro de 1.992.

*Espero a paz e de confianza ple-
 namente en todos de sus trabajos.
 Nueva musica continua siempre a
 un completo despa*
Contadurista



**CZECH REP: Czech and Slovak
 Radio International** 7345
 f/d cd. in 21 ds. for
 \$1.00. My rpt. was for
 12/31 and 1/1 when the
 country split. (Hardes-
 ter-NC).

DOMINICAN REP: Radio Cima
 * 100 4962 cd. w/ form ltr.
 coin and pennant in 67
 ds. for a SP rpt. v/s
 Roberto Vargas, Director
 General. (Durden-GA). 4960
 f/d cd. w/ computer ltr.

in 125 ds. for a SP rpt. and \$1.00. Also rcvd. tape
 of "Merengues Tradicionales" (D'Angelo-PA).

ECUADOR: HCJB 21455 (USB) f/d "Agony Falls" cd. in 19
 ds. (Schwartz-NY). 9745 f/d "Children" cd. in 37 ds.
 for ms. (Washburn-ME). 17490 p/d cd. in 26 ds. for 2
 IRCs. (Hardester-NC). 17790 f/d cd. in 93 ds. v/s
 Glen Volkhardt. (Jones-OH). **Radio Federacion** 4961 p/d

personal ltr. in 125 ds. after a f/up rpt. in 14 ds. of
 Utitaj P. (Durden-GA). **Escuelas Radiofonicas Populares** 5010 long n/d personal ltr.
 in 23 ds. for a SP rpt. and \$1.00. v/s Juan Perez Sarmiento, Director Ejecutivo. (Dur-
 den-GA).

ENGLAND: Radio Canada International 7235 via **Skelton** f/d cd. in 14 ds. of
 the "XV Olympics". (Schwartz-NY).

ADDRESSES NEEDED: Your QSL Editor is looking for addresses for two TIS stations, namely
 the New York State Thruway stations **WNYF574** and **WNYT722**. Also the New Jersey Transit
 Authority's Highway Advisory Radio System and the Bergen County Police Dept. station
WPAF592 in Paramus, NJ. Any help?...Sam.

ERITREA: Voice of the Broad Masses of Eritrea 7380 f/d blue cd. in 1 mo. for \$1.00. v/s
 * Mehreteab T. Giorgis, Dept. of Information and Culture, P.O. Box 872, Asmara (Wallace-
 CT). same in 38 ds. for \$1.00. (Palmer-IL). cd. in 35 ds. (Yamada-JPN). brener-PA)

ESTONIA: Radio Tallinn 5925 f/d cd. w/ schedule and pennant in 2 mo. for \$1.00. (Kohl-
 EUROPEAN RUSSIA: **Radio Vilnius** 11780 via **Krasnodar** f/d cd. w/ site in 30 ds. after a

* f/up rpt. requesting site. (Rigas-IL). **Radio Moscow** 21575 f/d cd. in 3 mo. via **Moscow**
 * (Barto-CT). 9890 via **Sankt-Petersburg** f/d "Kremlin" cd. in 40 ds. (Yamada-JPN). 7150
 via **Armayir** f/d cd. in 76 ds. for \$1.00. (Palmer-IL). **Adventist World Radio** 12060 via
Samara f/d cd. in 21 ds. for a taped rpt. and \$1.00 (this was returned and station
 requested IRCs instead:) (Helms-KS).

EUROPIRATE: Radio Caroline 6295 cd. w/ personal ltr. from John Knight w/ sales catalog
 * of over 200 items: Addr: P.O. Box 963, London SW20 8XL. The ship is in Dover
 Harbor. (Berg-MA).

FRENCH GUIANA: China Radio International 11680 f/d "Pei Hai Park" cd.
 * in 15 ds. Card was returned twice for the site: v/s Miss Fuguang

GABON: Radio France International 12015 via
Moyabi f/d cd. in 76 ds. for 1 IRC. (Palmer-IL). **Swiss**

Radio International 12035 f/d cd. in 42 ds. for 1
 IRC. (Pankake-MN).

GERMANY: Bayerischer Rundfunk 6085 p/d "Logo" cd. in 65
 ds. w/ stickers. (Frodge-MI). **Deutsche Welle** 25740.1,

21540, 13780 and 21560 n/d cd. w/
 sticker and schedule in 3 mo. (Barto)

GREECE: Voice of Greece 9420 f/d "Met-
 eora Monasteries" cd. in 184 ds. for
 1 IRC. Schedule was rcvd. (Martin-CA).

GUAM: Adventist World Radio 15610 f/d
 cd. w/ schedule in 22 ds. for \$1.00.
 (Pankake-MN). **KSDA** 11980 f/d cd. in 2
 wks. for ms. (Pappas-SD).

GUATEMALA: TCNA Radio Cultural 3300 f/d cd. of
 "Ouetzal on Microphone" w/ ltr. and schedule
 in 31 and 88 ds. after 5 rpts. and a f/up rpt.
 v/s Wayne Berger, Chief Engineer. (Schwartz-NY).

HAWAII: WWVH 5000 f/d cd. in 27 ds. (Lare).

RADIO REPUBLIC INDONESIA
RRI



+RCBS

Red Cross Broadcasting Service
 via Mayberry





Democratic Voice of Burma

via Wendel Craighead

P.O. Box 6720
St. Olavs Plass
0130, Oslo
Norway

Tel. 47 22 114:800
Fax. 47 22 114:808

HONDURAS: HRVC 4820 f/d ltr. in 17 ds. for a SP rpt. w/ stickers, calendar and a staff photo. v/s Uelsen Raul Acosta Castillo. (Helm-KS).

HONG KONG: BBC East Asia Relay 21715 f/d sheet in 18 ds. for 2 IRCs. v/s Phillip Sandell. (Clar-NY). cd. in 1 mo. (Howard-CA). 11765 f/d cd. in 25 ds. (Helm-KS). 11820 f/d ltr. in 3 wks. for \$1.00. (Taylor-PA). f/d cd. in 17 ds. for \$1.00. (Pankake-MN). 7180 f/d ltr. in 3 wks. for \$1.00. (Wallace-MA). f/d ltr. in 18 ds. (Martin-CA).

HUNGARY: Radio France International

in 19 ds. (Buer-FL).

* 15460 via Dioad f/d "Seine River" cd. w/ site in 19 ds. (Pappas-SD).

ICELAND: INHS 15770 f/d cd. in 21 ds. for ms. (Pappas-SD).

INDIA: All India Radio 11620 via Bangalore f/d cd. in 72 ds. for 1 IRC. (Martin-CA). 7412, 9950 and 11620 f/d "Miniature Painting" cd. in 1 1/2 mo. (Lare). 3355 via Kursong cd. in 9 wks. for a tentative taped rpt. (Berg-MA).

IRELAND: RTE Radio 1 Tullamore 567 f/d cd. in 17 ds. I know this is MW but it is the only thing I've ever heard from Ireland. (Schwartz)...Try 6221 or 6238...Sam.

NOTES: Mike Hardester in NC checks in to say that he is presently using a 25 foot longwire, indoors and untuned with some fairly decent results. As soon as the weekend rains stop, the outside antenna will go up. Wendel Craighead questions if anyone in NASWA has received a QSL from Radio Prague with Radio Czechoslovakia or Radio Czechoslovakia International actually written on the card? I really don't know - has anyone?...Sam. John Scurlletta says that on their first day of broadcast (1/1/93), the station actually IDed at one time as Radio You Know Who!...Hi!...Sam.

ISRAEL: Kol Israel 7465 f/d cd. w/ pennant and schedule in 1 mo. for \$1.00. (Lare). 17575 f/d cd. in 1 mo. for 1 IRC. (Pankake-MN).

ITALY: IRRS Milan 7125 f/d "Milan" cd. in 66 ds. for \$1.00. Addr: P.O. Box 10980, I-20110 Milano. (Frodge-MI). Radio Europe 25900 via Pioletto f/d cd. w/ personal ltr. in 53 ds. for \$1.00. Also rcvd. stickers, pennant and station info. v/s Dario Monferini. (D'Angelo-IT).

JAPAN: Radio Japan 11865 via Yamata f/d cd. w/ site in 30 ds. (Rigas-IL).

* NHK Matsuyama 3970.2 f/d cd. w/ site in 18 ds. (Howard-CA). NHK Sapporo 3970.2 cd. of "NHK Sapporo Building" w/ MW/FM data but no mention of SW in 26 ds. for \$1.00. (Howard)

JYY 8000 f/d cd. w/ sticker and info. sheet in 18 ds. v/s A. Otsuka. (Helm-KS). Radio Japan 9535 f/d "Kites" cd. in 5 wks. for ms. v/s K. Hishikawa. (Pappas-SD).

JORDAN: Radio Jordan 11810 f/d cd. w/ program schedule and stickers in 374 ds. v/s Javad Zada. (Hardester-NC).

KAZAKHSTAN: Radio Moscow 15480 via Alma Ata f/d cd. in 2 1/2 mo. (Barto-CT).

KENYA: Voice of Kenya 4935 f/d aerogramme ltr. in 60 ds. for 2 IRCs. (Durden-CA). 4934 same (but torn by the USPS!) in 6 wks. for \$1.00. (Taylor-PA).

KYRGYZSTAN: Radio Moscow 4940 and 4975 via Bishkek f/d cd. in 62 ds. (Palmer-IL). f/d "Kremlin" cd. w/ New Year's cd. in 40 ds. (Yamada-JPN). 12070 f/d cd. in 3 mo. (Barto-CT).

LATVIA: Radio Latvia 5935 f/d cd. in 2 mo. (Barto-CT). Radio Riga 5935 f/d cd. in 16 ds. for 1 IRC and \$1.00. (Straus-NJ).

LIBYA: Radio Jamahiriya 15417 f/d cd. in 36 ds. for a FR rpt. (Helm-KS). 15415 f/d "Rainbow" cd. in 54 ds. for 1 IRC and \$1.00. (Palmer-IL).

MALAGASY REP: Radio Nederlands 11655 f/d "Floral" cd. in 63 ds. for 1 IRC. (Nibecker-MEX).

MALT: China Radio International 11715 "Vase" cd. in 20 ds. w/ paper cuts and schedule. (Levison)

Radio Cima 100.0 FM
ONDA CORTA 4960 BANDAS 5 MTS.
via Lobbell

EN LA CIMA DE LA PUNTA BLANCA
ESTACION DE AMERICA CUNA DEL NUEVO MUNDO
ESTACION DEL CHECO RADIAL ROBERTO VARGAS R V
P.O. BOX 809

ALCAZAR DE COLON
Santo Domingo
REP. DOMINICANA



MALTA: C.R.I. 11715 via Bamako f/d "Coconut Hair" cd. w/ sked. and rooster papercut in 24 ds. (Schwartz-NY). 9770 and 11715 f/d cd. w/ papercuts in 13 ds. (Levison-PA). same in 2 mo. (Barto-CT).

MALTA: Deutsche Welle 9545 n/d cd. in 3 mo. (Barto-CT). Voice of the Mediterranean 9765 f/d "Cathedral" cd. in 58 ds. for \$1.00. (Gold-MI).

MEXICO: Radio Mil 6010 n/d ltr. in 44 ds. for a SP rpt. (Helm-KS). p/d ltr. in 68 ds. for \$1.00. (Palmer-IL). Radio Educacion 6185 n/d ltr. in 8 mo. for ms. v/s Luis Ernesto Pi Orozco (Pappas-SD).

MOLDAVIA: Radio Moscow 12070 via Kishinyov f/d cd. in 66 * ds. (Gaharan-LA). 15485 f/d cd. in 2 1/2 mo. (Barto-CT).

MOLUCCA ISLANDS: RRI Ambon 4863.8 f/d cd. in 4 mo. for an IN rpt. and ms. (Kohlbrener-PA).

NOTES: Scott Helm, besides sending in some very fine QSL reports, did receive a new typewriter for XMAS. Thanks for the information on Samara and Kuybyshhev...Sam. Jim Ciar says the Radio St. Helena and his first Peruvian QSL more than made up for a rather lackluster QSL month. Thanks for the sticker of the Rochester Americans AHL Hockey Team. I do collect Hockey memorabilia. Thanks so much...Sam. Steve Martin says that he enjoys reading the QSL Column. The information that is provided is critical to the collecting of QSLs. I hope we provide something useful...Sam. Rich Davis was very pleased with his recent QSLs from Bahrain, Palau, Malawi and Saint Helena. I would be too! I still need all of them except Malawi...Sam.

MOROCCO: RTVM 15335 p/d "World Map" cd. in 227 ds. v/s Tanone Mohammed Jamal Eddine, Chief of Division. (Schwartz-NY). p/d cd. in 140 ds. for 1 IRC. (Anderson-MI).

NEW BRITAIN: Radio West New Britain 3235 p/d ltr. in 214 ds. after 2 f/up rpts. w/ ms. v/s Esekia Mael, Provincial Program Manager. (Durden-GA).

NEW IRELAND: Radio New Ireland 3905 f/d ltr. in 3 wks. for \$1.00. (Taylor-PA).

NEWFOUNDLAND: CFCZ 6160 p/d folder in 1 mo. for \$1.00 (returned). (Pappas-SD). same w/ ltr. in 31 ds. for \$1.00 (returned); (Poston-IA). in 46 ds. for \$1.00 (returned). (Palmer-IL)...Somewhat surprised about the honesty of this return policy...Sam.

NIGER: La Voix du Sahel 3260, 5020, 6060, 7155 and 9705 f/d cd. in 28 ds. for a FR rpt.

NORTHERN IRELAND: Southern Music Radio 6272.5 f/d white cd. w/ ltr., info. (Helm-KS). sheet in 5 wks. for a taped rpt. to P.O. Box 130, 92504 Reuil Cedex, France. The reply came from New Zealand. (Berg-MA).

NORWAY: Radio Norway International 9650 f/d "Ceramics" cd. in 45 ds. v/s K. Salomon- sen. (Christensen-ALB).

OHIO: REC 15310 f/d cd. in 1 mo. for 3 IRCs. v/s Dave Plater. (Pappas-SD). 9750 f/d cd. w/ photo in 3 wks. for \$1.00. (Taylor-PA). (Palmer-IL).

PAKISTAN: Radio Pakistan 11570 via Islamabad f/d ltr. in 30 ds. for \$1.00 and 1 IRC.

PALAU: KHEH 9830 f/d "Map" cd. in 29 ds. for \$1.00. v/s Ben Cabral. (Frodge-MI). same

in 20 ds. for \$1.00. (Washburn-ME). cd. in 2 wks. v/s David E. Laufer. (Pappas).

PAPUA NEW GUINEA: P2K4 4890 f/d cd. in 5 wks. for a taped rpt. & \$1.00. (Taylor-PA)

THE CASTLE, JAMESTOWN, ST. HELENA, SOUTH ATLANTIC OCEAN
Telephone: 4669 Telex: 4202 (GOVT MI. Fax: (290)2359
4542
4634



ZHH

25TH
YEAR
OF
TRANSMISSION

Radio
ST HELENA



turns me on!

1967...1992

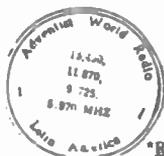
Shawn S. Johnson



WE ARE PLEASED TO VERIFY YOUR RECEPTION OF OUR STATION.

ON 15-06-92 (DATE)
AT 00:45 - 01:00 GMT
IN THE 31 METER BAND
ON THE FREQUENCY OF 9.725 MHz

WE THANK YOU FOR YOUR INTEREST IN A WR AND YOU CONTINUED GOOD LISTENING



PROGRAMMING DEPT
ADVENTIST WORLD RADIO
APARTADO 1177, ALAJUELA COSTA RICA
CENTRAL AMERICA

PARAGUAY: Radio Nacional 9735 p/d ltr. in 75 ds. for a SP rpt. and 1 IRC. v/s Filemon Arguello M. (Pappas-SD).

PERU: Radio Quillabamba 5025 * n/d ltr. in 33 ds. after 4 rpts. w/ ms. and several dollars. v/s P. Francisco Panera, Director...says the station has been attacked 3 times and they are trying * to survive. (Durden-GA). **Radio Satellite OACZL** 6724.4 p/d cd. w/ f/d prepared cd. and a f/d personal ltr. in 48 ds. for a SP rpt. and \$1.00. v/s Sabino Llamo Chavez, Gerente. (Palmer-shim-WA). 6725 cd. w/ long personal ltr. in 104 ds. for a SP rpt. and ms. (Durden-GA).

* **Radio Omeo** 6195 f/d cd. w/ f/d prepared cd. in 38 ds. for a SP rpt. and \$1.00. Sticker was rcvd. v/s Raul Siu Almonte, Gerente General. (D'Angelo-

PA). **Radio Ancash** 4990 f/d ltr. w/ postcard in 2 mo. for a SP rpt. and \$1.00. v/s Armando Moreno Romero, Gerente General. (Kohlrenner-PA). **Radio Maranon** 4835 f/d prepared cd. in 3 1/2 mo. for a SP rpt. for an 87 reception. (Berg-MA).

POLAND: Radio Polonia 9525 f/d cd. w/ schedule and stickers in 44 ds. for a taped rpt. (Helms-KS). 6095 f/d cd. in 70 ds. (Rigas-IL).

PORTUGAL: Deutsche Welle 15245 and 21680 via **Sines** cd. w/ sticker in 3 mo. (Barto-CT). **Radio Liberty** 7155 via **Maxoqueira** f/d cd. w/ power and site in 20 ds. (Rigas-IL).

NOTES: The good **Rev. Ed Poston** says he is a United Methodist pastor. During the past few weeks he has been thinking about sacrificing the local post master in an effort to appease the USPS postal gods. However, he is a member of his congregation and this recent batch of QSLs has won him a brief reprieve. Ed also says that if he could control the atmospherics he would be Bishop. Hi!...Sam. Its nice to know that someone else has a sense of humor. **Paul Brouillette** says that he has been sending out reception reports which cover a few days monitoring along with some general program comments. The stations seem to appreciate this and reply sooner. Good idea. **Marina Pappas** notes that the Senior Transmitter Engineer at Radio Oman, Dave Plater, will be returning to the UK in March of 93. Some of his photographs may be utilized on the Oman QSL card.

RUSSIA: Radio Vedo 13710 f/d cd. in RS in 8 mo. after a f/up rpt. for 2 IRCs. (Kusalik-ALB)

* **RadioFolia** 6045 via **St. Petersburg** very nice cd. in 9 1/2 mo. for a registered taped rpt. This was a light blue cd. w/ a dark blue drawing of the skyline and drawbridge. The station slogan was in gold. Very professional. (Berg-MA). **Radio Aum Shinrikyo** 15425 f/d cd. in 15 ds. for \$1.00. (Frodge-MI).

RWANDA: Radiodiffusion Rwandaise 6055 p/d form ltr. in 44 ds. for \$1.00. v/s Marcel Singirankabo. (Palmer-shim-WA).

SANT HELENA: ZHF Radio Saint Helena 11092.5 cd. w/ informative ltr. in 2 1/2 mo. v/s Tony * Leo. Cover contained 25th Anniversary stamp. (Berg-MA). cd. w/ ltr. in 117 ds. (Clement-GA). in 2 1/2 mo. for \$1.00. (Kusalik-ALB). in 82 ds. for a FAXED and mailed rpt. for \$1.00. (Frodge-MI).

SAUDI ARABIA: BSISA 9885 f/d white cd. via registered mail in 6 wks. for \$1.00. (returned). Also rcvd. tourist brochures in FR and PT! (Wallace-MA).

SEYCHELLES: FEBA 11840 f/d cd. in 5 1/2 mo. for a taped rpt. (Berg-MA).

SIERRA LEONE: SLES 3316 f/d prepared cd. in 77 ds. for ms. after PT! 4 yrs. of rpts! v/s Joshua Nicol. He is in training at the Radio Netherlands Training Centre and serves as Special assistant to the Dir. of Broadcasting. (Field)



OFFICE DE RADIODIFFUSION
TELEVISION DU NIGER

ICI

LA VOIX DU NIGEL
(RADIO-NIGER)

new style QSL from
Niger via Helms

BP 361 NIAMEY-NIGER



Airmail Return Postage and DK Supplies: Mr. William Plum

of 12 Glenn Rd., Flemington, NJ 08822 has been selling mint foreign postage stamps for return postage for several years. These are used in place of IRCs.

Sometimes they may work better than IRCs. If you are interested in utilizing Bill's service, please write to the above address or call (908) 788-1020 or FAX (908) 782-2612....Tell Bill you read it in NASWA and he will double your next order for free! Just kidding!...but this is an excellent service with impeccable credentials...Sam.

SINGAPORE: BEC 9740 f/d cd. in 86 ds. for 2 IRCs. (Martin-CA).
SLOVAK REP: Czech and Slovak Radio International 9580 via Velke Kostolany and 11990 via Rimavska Sobota f/d "Lynx" cd. in 21 ds. for \$1.00 and addr. label. (Hardester-NC).

SOUTH AFRICA: Radio Orion 4810 f/d ltr. in 1 mo. for \$1.00. v/s Kathy Otto, Shortwave Section. (Wallace-MA). Channel Africa 15430 and 11900 f/d "Lioness" cd. w/ stickers in 3 mo. (Barto-CT). 15430 f/d "SABC Collage" cd. w/ schedule and stickers in 1 mo. for \$1.00. (Wallace-MA).

SPAIN: China Radio International 9690 via Nobelias cd. w/ sticker and paper cuts in 2 mo. (Barto-CT). same in 30 ds. (Levison-PA).

SRI LANKA: Deutsche Welle 15390 n/d cd. w/ sticker in 2 1/2 mo. (Barto-CT)

SULAWESI: R.P.D. Tk2 Poso 3579.8 f/d prepared cd. w/ ltr. in 38 ds. * after a f/up rpt. in IN for an 89 reception. v/s Joseph Tinagari, Kepala Stasiun. He also sent along his photo. (Kusalik-ALB).

SOMATRA: Voice of Indonesia 9675 f/d multi-colored "Folk-Art" cd. in 68 ds. (Washburn-ME). ERI Jambi 4925 f/d prepared cd. in 2 mo. for an IN rpt. & SASE. (Kohlbrener-PA). same in 29 ds. for an IN rpt. and 1 IRC. v/s Marlis Ranali, Kepala. My reply came from Mr. Tuomo Niemi in Finland who informed me that he had received my QSL with his QSL. Thank you! (Yamada-JPN).

ERI Tanjung Karang 3395 f/d ltr. in 11 mo. for an IN rpt. and \$1.00. (Kohlbrener-PA).

SWEDEN: Radio Sweden International 17870 f/d "Old Town, Stockholm" cd. in 3 wks. for ms. (Pappas-SD).

SWITZERLAND: Swiss Radio International 15505 f/d "15th Century Church" cd. in 25 ds. for 2 IRC. (D'Amato-MA). 9885 and 6135 f/d cd. w/ schedule in 26 ds. (Poston).

TAIWAN: Voice of Free China 11860 p/d cd. w/ schedule in 33 ds. for a taped rpt. (Klinck-NY). WYFR 9280 via WOPC f/d "Staff" cd. in 1 mo. for \$1.00. (Wallace-MA). 9280 and 6300 f/d "Duck by a Brook" cd. in 3 mo. (Barto-CT).

TANGLER: VOA 15320 f/d cd. in 15 ds. (Straus-NJ).

TIBET: Xizang P.B.S. 5240 f/d folder cd. via CPBS. (Price-PA).

TURKEY: Turkish State Meteorological Service 6900 p/d ltr. w/ schedule and tourist info. * in 24 ds. for 1 IRC. (Yamada-JPN). p/d form ltr. and 2 FDCs in 1 mo. for a taped rpt. and \$1.00. v/s Mehmet Ormeci, Director General. (Clar-NY).

UKRAINE: Radio Moscow 17735 via Lwow f/d cd. in 2 mo. (Barto-CT).

USA: KJES 11715 f/d cd. in 13 ds. for \$1.00 and ms. (Palmer-IL). f/d prepared cd. in 30 ds. (Rigas-IL). KTEN 15590 p/d "Logo/Antenna" cd. in 240 ds. for SASE. (Frodge-MI).

WYFR 5950 f/d cd. in 21 ds. (Schwartz-NY). Radio Miami International 7395 f/d cd. in 8 ds. v/s Jeff White. (Rigas-IL). 7355 via WRNO f/d ltr. in 53 ds. for ms. (Palmer-IL).

WWV 10000 f/d "Indians on Plain" cd. in 15 ds. for ms. (Palmer). WRNO 7355 f/d cd. w/ sticker and schedule in 43 ds. (Schwartz). WURI 13760 f/d "Globes" cd. in 79 ds. for

* ms. (Palmer). WRNN 7520 f/d cd. w/ schedule in 6 wks. for ms. (Lobdell-MA). 7540 f/d cd. in 58 ds. for ms.

Personal ltr. and sked. rcvd. v/s William Steltiemer, President.

(Field-PA). 5825 f/d

"Angel Blowing Trumpet" cd. w/ schedule in 1 mo.

(Price-PA). Radio General Ochoa 7355 via WRNO

RMI f/d form ltr. in 1 mo. (Barto-CT). Radio Esperanza 7355 via RMI

f/d ltr. in 1 mo. w/ schedule. (Barto-CT).

IN THE NAME OF ALLAH
 Verification of Reception Report

Q.S.L. I . .

Dear : Jerry Klisch

THIS IS TO OFFICIALLY CONFIRM YOUR RECEPTION OF
THE VOICE OF THE ISLAMIC REPUBLIC OF IRAN

You received our transmission

Date	U T C		S W M W	
	From	to	m	sec
10.2.92				9022

Thank you for listening to the English program of the voice of the Islamic Republic of Iran. Please tune in again & keep in touch %

English PROGRAM

MAIL : External Service Program . P.O. Box # 3333 , TEHRAN , IRAN .

USA: KCHI 9815 f/d generic "Gene Scott" QSL cd. w/ call letters in 2 mo. for a taped rpt. Station gave out a Washington State address, located in Dallas, address on QSL is Los Angeles while it was postmarked from Pasadena! Interesting.(Berg-MA). WYNN 4770 p/d ltr. in 10 ds. for their 3rd harmonic (3x1590) v/s Larry Beavers, Engineer.(Washburn). La Voz de la Fundacion 9495 via MMI/MHRI f/d form ltr. in 1 mo.(Barto). Radio Techniques 15685 via MMCR cd. rcvd. for \$2.00. v/s Howard Weinstein. Addr: 15 Lakeside Dr., Marlton, NJ (berg-MA). Sa Forum Revolucionario Democratica Cubano 7355 via MMI/MHNO f/d form ltr. in 1 mo.(Barto). KPM360 (MPLA) 25870 via Tampa, FL cd. in 40 ds. w/ coverage map. 100 watts for this FM transmission. v/s Wilson Welch, Chief Engineer.(Hard-ester-NC). f/d cd. in 18 ds. for SASE. Addr: P.O. Box 130097, Tampa 33681-0097.(Frodge)

USA (Pirates): Radio DC 7417.5 f/d sheet in 2 mo. for a rpt. to ACE.(Kusalik-ALB). 7415 p/c ltr. in 5 wks. for DX bulletin rpts.(Lobdell). 7416 sheet in 2 mo. for a rpt. in ACE.(Stephens-AL). Radio EOP f/d cd. in 3½ mo. for ms.(Kusalik). North American Pirate Relay Service 7416 f/d yellow cd. in 23 ds.(Kusalik-ALB). Radio Airplane 7417 f/d blue and yellow cd. in 26 ds. v/s Capt. Eddy.(Kusalik). 7416.7 same in 1 mo. for 3 ms.(Wall-ace-MA). 7417 f/d plastic laminated cd. w/ plane on front and an FAA flight log filled in. Imaginative: 100 watts.(Lobdell-MA). Voice of Abnormal 7552 f/d cd. in 1 mo.(Kusa-lik). Wire Line Radio 7415 f/d yellow folder cd. in 6 wks. from the BRS addr. for 3 ms.(Lobdell). WYNN 7414 p/d "Woman with Fiddle" cd. in 110 ds. for 3 ms.(Comeau-MA). Tan-gerine Radio 7419 f/d orange fact sheet from the Wellsville addr. in 1 mo. for 3 ms.(Lobdell-MA). Pirate Radio Boston 7415.3 f/d "Faneuil Hall" cd. in 2 wks. for 3 ms. Station pranked the famous Boston Yatch Club cd. would be sent later! Yaaaay!! (Wall-ace-MA). Kranker Radio International 7415.5 f/d form ltr. in 4 mo. for ms.(Hosner-MI). Anarchy One 7417 f/d "PRO-2005 Schematic" cd. in 1 mo. for 3 ms.(Taylor-PA). WARI 7415 f/d logo sheet in 30 ds. (Stephens-AL). Jolly Roger International 7405 f/d cd. in 5 wks. for a rpt. posted on the ANARC BBS.(Lobdell-MA). 7415 f/d cd. in 78 ds. Postmark was from San Diego, CA.(Stephens-AL)...Hope I live long enough to see the end of this page! Sam. Omega Radio 7415 f/d black and gold cd. in 49 ds. v/s Dick Tator.(Stephens-AL). Radio Esoterica 7415 via NAPRS f/d sheet in 36 ds. for 3 ms. (Comeau-MA). 7416 f/d No. 2 sheet in 31 ds. w/ personal ltr. for 3 ms.(D'Angelo-PA). WSKY 7415 f/d orange "Jack Daniels Bottle" cd. w/ info. sheets and a personal ltr. in 40 ds. (Stephens-AL). The Fox 7416 f/d "Fox" folder cd. #9 w/ info. sheets in 58 ds.(Stephens). RONA 7415 f/d "Dancing Microphone" sheet in 26 ds. v/s Andy Mooney.(Stephens). WESA 25500 f/d "Trans-mitter" cd. in 28 ds. v/s George Westinghouse.(Stephens). Voice of Anarchy 7414 f/d info sheet in 90 ds. for ms.(Martin-CA). Voice of Bono 7415 via WSKY f/d cd. in 30 ds. for ms. v/s Gary Daniels.(Martin-CA). WRPD 7415 f/d cd. in 44 ds. for ms.(Martin-CA). Christian Rock Radio 7413 and 7425 p/d personal note in 13 ds. via the Wellsville addr. for 3 ms.(Frodge-MI). He Man Radio 7415 f/d certificate in 32 ds. for 3 ms. via the BRS addr.(Frodge-MI). f/d green sheet in 42 ds. for 3 ms.(Comeau). Radio Free Massachusetts 1620 2 f/d cds. w/ personal ltr. in 13 ds. for ms.(Washburn-ME). 7416 f/d cd. w/ ltr. in 1 mo. for 3 ms.(Taylor-PA). Radio Gemini 7415 via MARI f/d folder cd. of "Two Young Ladies in Gemini T-Shirts" in 1 mo. mailed direct from the UK.(Lobdell)...Chris, I did not use "Two Babes" as in your description because this column would be politically correct....Sam. Action Radio 7415.8 f/d "Rep. of Nebraska [with two babes shucking corn]" and a personal ltr. in 7 mo. Also rcvd. a flyer for Bo Gritz for President - which is not a joke in 7 mo.(Stephens-AL). WGBR 7415 p/d 3 page ltr. in 30 ds.(Stephens). WVOL 7415 f/d sheet in 4 mo. for ms.(Kusalik). 7418 f/d "Loon" sheet in 55 ds. for 3 ms. via the Wellsville drop.(Frodge-MI)...Will this stuff ever end?...Sam. RBCN 7415 f/d cd. in 2 mo. for 3 ms.(Taylor-PA). very attractive f/d cd. in 7 wks. from the Atlanta addr. (Lobdell). f/d cd. in 26 ds. for \$1.00. Addr: P.O. Box 17534, atlanta, GA 30316.(Comeau) Mystic Voice of the Western Prairie 7413 f/d "Prairie Schooner" cd. in 54 ds. for 3 ms. to the BRS addr.(Frodge). f/d green cd. in 7 wks. for 3 ms.(Lobdell). WLIS 7416 f/d "Ian and Homer" sheet in 10 ds. for 3 ms. to the BRS addr.(Frodge). Voice of Bob 7414 f/d sheet in 49 ds. for 3 ms. (Frodge). Voice of Shakerag 7415 f/d logo cd. in 133 ds. for SASE to the GA addr.(Frodge-MI). Midnight Radio 7415 f/d cd. in 140 ds. for 3 ms. to the BRS addr.(Frodge). EBD Radio 7415 f/d "Frog-more,SC" sheet in 24 ds. for 3 ms. from the Wellsville addr.(Frodge) f/d sheet in 36 ds.(stephens-AL). WRAR 7415 f/d sheet in 43 ds.(Stephens). Hope Radio 7410 f/d cd. in 7 ds. after 5 f/up rpts. and several phone conversations with the operator. Unusual. (Stephens-AL)...I actually have more but I will end it here. Hard to believe all of these stations are on the same freq.Hi!

via W. Noel Brown



60th ANNIVERSARY = 1933-93

Contributors' Page

Vernon Hyson
5410 Camp Stewart Road
Charlotte, NC 28215
CornpuServe 76516.1531



LOGGINGS CONTRIBUTORS - APRIL 1993 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA
Mark ANDERSON, Prescott, AZ
Jerry BERG, Lexington, MA
Bill BERGANDANO, East Freehold, NJ
Ralph BRANDI, Middletown, NJ
David CARTER, Bellingham, WA
Jim CLAR, Rochester, NY
David CLARK, Newmarket, ONT
Richard D'ANGELO, Wyoming, PA
William DAVENPORT, Nashville, TN
Tom DAVIES, Cape Providence, SO AFRICA
Paul DOHERTY, Lunenburg, MA
Adie DURDEN, Albany, GA
Shawn FAHRER, Howard Beach, NY
Marlin FIELD, Hillsdale, MI
William FLYNN, Cave Junction, OR
Karl FORTH, Chicago, IL
Harold FRODGE, Midland, MI
Peter GRENIER, Sparks, NV
Michael HARDESTER, Jacksonville, NC
Gerald P. HART, Moorhead, MN
Hans JOHNSON, Columbia, MD
Rufus JORDAN, Pittsburgh, PA
Jerry KLINCK, West Seneca, NY
Marie LAMB, Brewerton, NY
Alan LAVES, Dallas, TX
Ernest LAWRENCE, Perry, NY
Harold LEVISON, Philadelphia, PA
John LYON, White Bear Lake, MN
Greg MARTIN, Fruitport, MI
Don MOORE, Davenport, IA
Kevin MURRAY, West Linn, OR
Ed NEWBURY, Gordon, NE
Tony ORR, Reston, VA
Marina PAPPAS, Huron, SD
Chuck RIPPEL, Virginia Beach, VA
Doug ROBERTSON, Oxnard, CA
Giovanni SERRA, Rome, ITALY
Elliot STRAUS, Toms River, NJ
Tom TABATOWSKI, Zanesville, OH
Robert TUCKER, Savannah, GA
Charles WASHBURN, Robbinston, ME
Mike WESTDAL, Sacramento, CA
Mike WOLFSON, Ashland, OH
Juichi YAMADA, Nara, JAPAN

NRD535 various Longwires
DX440 60' Random
R8 HQ180A R390A 150' Longwire
TS430S Inverted Vee
Sony 2010 DC777 RF4900 40' Random
HQ180A
R8 ATS803A Eavesdropper 110' LW
R8 2-R7 HQ180C R8 Many, many antenni
R8 AD Sloper Farley Loop
DX380 ICF7601 AN-1
R1000 MFJ1010B Indoor Helical
Sony 2010 D2935
NRD515 SE3 Inverted V
NT798A
NRD535D SPR4 Eavesdropper
R8 R2000 TUN3 Sony 2010 R7A 140' LW etc.
R70 RF2900 HQ160
R71A DX302 AP4 Trap Dipole 185'/100' Random
FRG7 MFJ1020A ATS803A
R70 Sony 2010 25' Random RWest Loop
NRD535D Sony 2010 AD Sloper LW
R8 AD Sloper 50' Longwire
DX302 Transoceanic 33' LW
R8 R5000 HQ180A Sony 2010 350' Mini Bev 80' LW
R600 MFJ16010 20m/90m LW

NRD525 DX440 70' LW
R8 R70 D2999
TS940S ATS803A MFJ949D 80/10m Dipoles
R5000 Sony 2010 AD Sloper Longwire
R5000 Sony 2010 400' Mini Beverage
R8 Eavecropper 150' LW
R8 R5000 70' Windom 66' Dipole
R70 Sony 2010 MFJ16010 75' LW
DX400 Indoor Random
R8 R390A SP600JX1 HQ180AC HQ145A DX Sloper V
DX302 FRG8800 FRA7700 Longwire
NRD525 AD Sloper
R390A MFJ959B 70' LWx2
R8 AD Sloper
ATS803A
R8 R1000 Sony 2010 SX77A
R8 AN1 Sony 2010 Eavesdropper
NRD535 Sony 2010 125' Longwire
NRD525 10m long Dipole

Welcome to quite a few new reporters!! We have 5 countries represented this month. My thanks to our regulars who add so much to the quality and quantity of the Log Sections of The Journal! I hope all enjoyed the extended broadcast time that Ramadan brought, and that your local conditions were such that you could benefit from it. Thanks to all who shared their logs with us!!

Enjoyable listening & good DX -

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



- 1610 PIRATE WCTU 2/21 to 0441* FM relay, Southern Rock (Lamb-NY)
 1610 PIRATE unid 2/21 *0442-0457* non-stop Doors mx (Lamb-NY)
 1610 PIRATE Vo Pancho Villa 2/21 *0458-0501* HC mx, comic remarks
 on various radio personalities (Lamb-NY)
 1610 PIRATE unid 2/20 to 2342* Monty Python sketches, all pirates
 hrd at CWL Fest (Lamb-NY)
 2310 AUSTRALIA VL8A 3/14 0900 abt Aborigines //2325 (Tabatowski)
 1730 1030 wx, nx, C&W mx awards (Martin-MI) 2/15 1035
 1cl1 nx //2325 (Straus-NJ) 3/1 1100 rock, ID (Brandi-NJ)
 2/25 1110 pop mx (Straus-NJ) 2/28 1157 pops (Rippel-VA)
 2/22 1204 Aussie fiddler mx, folk mx, wx, ID (Robertson-CA)
 2325 AUSTRALIA VL8T 2/22 1212 same mx pgm as VL8A (Robertson-CA)
 2390 GUATEMALA LV de Atitlan 2/3 0220 drama, marimbas (Frodge-MI)
 2410 NEW GUINEA R Enga 2/28 1030 island mx, long tlks. 3/1
 1120 long tlk, 1125 peak, R390A far & away most productive
 rig here (Rippel-VA) 2/27 1148 vcIs, NBC nx in EG (Clark)
 2480 USA KBIZ 2/26 1207 C&W mx, nx, wx, not hrd on 1240 (Moore)
 2490.8 BRAZIL Oito de Setembro 2/27 2323 pop, IDs, strong (Clark)
 2850 NORTH KOREA KCBS 2/22 1219 vcIs, 1231 ID, fair (Robertson)
 3020.7 UNID 2/26 1050 CW marker "RWA" (Moore-IA)
 3204.4 JAVA Bandung 2/13 1438 shadow play, IN vcIs (Flynn-OR)
 3205 BRAZIL Ribeirao Preto 3/8 0000 pops, ID (Tabatowski-OH)
 3205.1 INDIA Lucknow 2/20 1447 YL vcIs, M tlk, ute QRM (Flynn-OR)
 3205 NEW GUINEA West Sepik 2/27 1123 island mx, ID (Berg-MA)
 3/1 1130 steel drum type mx (Rippel-VA)
 3215 SULA/ESI Manado 2/26 1238 drama, SCI, Jak nx (Moore-IA)
 3220 ECUADOR HCJB 2/15 0930 rel pgm, instls (Straus-NJ) tent
 2/3 1000 rel tlk in lang (Davenport-TN)
 3220 NEW GUINEA Morobe tent 2/4 1100 nx, many ment New Guinea
 tent ID (Davenport-TN) 3/1 1134 mx variety, strong (Rippel)
 3224.8 SUMATRA Tanjung Pinang 2/18 1145-1211* Islam mx, full ID,
 Jak nx, NA (Yamada-JAPAN)
 3230 SOUTH AFRICA SABC 3/10 0421 AK w/pops, ads, nx (Lamb-NY)
 3231.8 SUMATRA Bukittinggi 2/17 1459 IS, nx, NA, TC, ID (Yamada)
 3235 NEW BRITAIN RWNB 3/1 1137 tlks, island mx (Rippel-VA)
 Chuck notes that 3/1 vy good PNG day w/all stns hrd
 3245 PAPUA R Gulf 3/1 1140 island mx, poor (Rippel-VA)
 3250 HONDURAS Luz y Vida 2/13 to 0400* EG rel, ID, sked (Martin)
 3255 LESOTHO BBC 2/7 0400 EG nx (Anderson-MI)
 3255 LIBERIA ELBC 2/28 0600 NA, R Liberia ID, gospel mx, EG IDs
 (Berg-MA)
 3260 NEW GUINEA Madang 3/1 1144 island mx, CM anncr (Rippel-VA)
 3266.4 SULA/ESI Gorontalo 2/26 to 1252* drama, ment Gorontalo (Moore)
 2/18 to 1312* pops, ID, no SCI, econ nx, NA (Murray-OR)
 3275 PAPUA Western Highlands 3/1 1146 CM Pidgin tlk (Rippel-VA)
 3280 ECUADOR LV del Napo 3/9 to 0305* ballads, IDs (Jordan-PA)
 2/6 1028 Quechua rel pgm, ID 1100 (Klinck-NY)
 3289.9 ECUADOR R Centro 3/7 0600 mx, ID (Tabatowski-OH)
 3290 NANIBIA NBC 3/8 0430 EG econ nx (Tabatowski-OH)
 3290 PAPUA R Central tent 2/21 0904 nx, choral mx (Murray-OR)
 3/1 1149 chanting by male group (Rippel-VA)
 3300 GUATEMALA TGNA 3/1 0210 ballads, IDs, addr, rel mx (Jordan)
 3305 NEW GUINEA R Western 2/26 1149 mx, nx, ID, TC (D'Angelo-PA)
 2/28 1150 variety mx pgm (Rippel-VA) Also 3/1 (Rippel-VA)
 3306 TIMOR Dili 2/21 1113 mx, tlks, fair (Yamada-JAPAN) 3/7
 1215 poor, 1st time noted back on air after 2 weeks (Clark-CN)
 3315 ADMIRALTY Manus 1140 island mx, IDs, Rod Stewart (Lawrence,
 Rippel, Tabatowski)
 3316 SIERRA LEONE SLBS 2/11 to 2230* EG econ, anmts (Straus-NJ)

3320 SOUTH AFRICA Suid Afrika 3/10 0411 nx, IDs (Lamb-NY)
 3324.9 KALIMANTAN Palangkaraya 3/1 1359 SCI, IDs, nx (Murray-OR)
 3325 NEW BRITAIN R North Solomons 3/1 1204 impassioned speech
 abt something (Rippel-VA)
 3325 GUATEMALA R Maya 3/4 1150 ranchera mx, ID (Field-MI)
 3335 NEW GUINEA East Sepik 3/1 1207 mixed vcls (Rippel-VA)
 3335 SWAZILAND TWR 0344 PT ID, rel tlk, then off (Field, Moore)
 3338.1 MOZAMBIQUE RM 2/10 to 2207° PT chimes, ID, nx (Yamada-JAPAN)
 3345 MOLUCCAS Ternate 0955 SCI, ID, nx, Koran 1130 (Moore, Yamada)
 3345 PAPUA R Northern 1121 C&W mx, EG nx, ID (Lamb, Brandi,
 Tabatowski, Rippel)
 3355 BOTSWANA RB 3/10 *0300 anthem, rel, choir, soul mx, ID (Lamb)
 2/26 0352 lite pops //7255, 4830 (Moore-IA) actually 3356.
 3355 NEW GUINEA Simbu 2/27 1210 IDs, Dire Straits (Lawrence-NY)
 3/1 1214 Pidgin tlks (Rippel-VA)
 3360 GUATEMALA LV de Nahuala 3/10 to 0259° IDs, Funeral March,
 Ode to Joy (Lamb-NY) 2/21 1204 mx, tlk (Yamada-JAPAN)
 3360t PAPUA Milne Bay? 3/1 haven't hrd all yr but island mx over
 big ute (Rippel-VA)
 3365 CUBA Rebelde 2/10 0030 canned IDs, pol cmtry (Davenport-TN)
 3365 PAPUA Milne Bay 3/6 0824 C&W, drums, full ID, nx (Murray-OR)
 3366 GHANA GBC 3/7 0600 EG nx (Tabatowski-OH) 2/23 2245 econ tlk
 (Straus-NJ) 3/2 to 2303° EG rel, hymns, ID, TC (Lamb-NY)
 3369.7p GUATEMALA Tezulutlan 2/25 1115 instls, Chortis also hrd (Straus)
 3374 SUMATRA Medan 2/23 1510 Jak nx, NA, full ID, Koran. 2/19
 2150 Koran, IS, Jak nx, NA, moved from 3375.5 (Yamada-JAPAN)
 3375 BRAZIL Educadora 3/3 to 0210° Braz. Pops, Nacional slogans,
 And I Love Her in PT, ID at s/off (Lamb-NY) 2/15 0935
 Nacional slogans, tlk, instl (Straus-NJ)
 3375 NEW GUINEA Western Highlands 1204 island pop, speech re
 education (Lamb, Tabatowski, Rippel)
 3380 GUATEMALA Chortis 2/13 0115 anmts interspersed w/Mexican Hat
 Dance. 2/25 0140 instl, ID (Newbury-NE) 2/3 0307 greetings
 calendar, campo mx, ID (Frodge-MI)
 3384.9 SUNDAS Kupang 2/22 1210 Jak nx, fading 1215 (Clark-ON)
 2/26 1247 pops, SCI, nx, fair (Moore-IA)
 3385 NEW BRITAIN RENB 2/13 0838 2 IDs, addr, fair (Westdal-CA)
 2/26 1140 long tlks, island mx (D'Angelo-PA) 3/1 1221 tlks
 (Rippel-VA)
 3390 ZAIRE Candip 2/28 0340 vy good native vcl, FR educ pgm
 ID, discuss (Clark-ON)
 3394.8 ECUADOR Catolica Nacional 2/3 1112 drama?, full ID (Clar-NY)
 3395 KALIMANTAN Pontianek 2/27 1215 pops, SCI, nx (Moore-IA)
 3395 NEW GUINEA Eastern Highlands 2/25 1205 ID, island mx
 (Tabatowski-OH) 3/1 1224 tlks, island mx (Rippel-VA)
 3395.1 SUMATRA Tanjungkarang 2/27 2315 Jak nx //others (Clark-ON)
 3904.8 SUMATRA Banda Aceh 2/26 1454 ID, sitar, SCI, nx (Murray-OR)
 3905 NEW IRELAND RNI 3/1 1227 Pidgin tlks (Rippel-VA)
 3905 IRIAN JAYA RRI Merauke 2/28 1752 mx, IS, nx, ID (Yamada-JAPAN)
 3925 JAPAN Tampa 3/8 1030 tlk, ID //6055 (Tabatowski-OH) 2/3
 1126 tlk, class mx bridges, IDs (Clar-NY)
 3925t PAPUA VLK 3/1 1231 island mx, fading (Rippel-VA)
 3935 NEW ZEALAND ZLXA 3/7 0757 history tlk, mx interlude (Clark-ON)
 3945 JAPAN Tampa 2/20 1010 //3925 IDs, promos, anmts (Clar-NY)
 3965 FRANCE RFI 3/8 0235 FR nx, IDs, IS, 4 kW (Lamb-NY) good one!
 3970 GERMANY RFE 3/3 to 2255° Romanian nx, fair (Brandi-NJ)
 3975.2 JAVA Surabaya 3/1 1104 ID, pops, 1130 drama (Yamada-JAPAN)
 3995 KALIMANTAN Pontianek 2/14 1129 IS, ID, 10 kW, not 50 (Clark)
 4000 SULAWESI Kendari 2/27 1227 pops, SCI, nx, poor (Moore-IA)
 4003.2 SUMATRA Padang 2/17 1533 nx, mx (Yamada-JAPAN)
 4299.8t PERU El Puerto 2/20 1050 Andean pipes, tent ID (Lawrence-NY)
 2/20 1025 Andean mx, tlks, comunicados, TCs (Clar-NY)
 4300 PERU R Naylamp 2/18 1040 ID, mx, ads, nx (Durden-GA)
 4449.9 BOLIVIA Frontera 2/10 1031 discuss, ID, mx (Klinck-NY) 2/3
 1047 anmts, poss ID so tent, lcl mx (Clar-NY)
 4485.1 PERU LV de Celendin 2/3 1031 anmts, TC, IDs (Clar-NY) 2/12
 1300 ads, morning pgm, folk mx, canned IDs (Davenport-TN)

4505 PERU Horizonte 2/3 1057 tlk, ment Santa Cruz, Chiclayo, Andean flutes, echo IDs (Clar-NY)

4605.1 IRAQ HS 2/1 0119 Koran, tlk, ID, NA (Clar-NY) 2/4 1401 AR mx, Koran, drama, ID (Yamada-JAPAN)

4610.1v IRAQ Baghdad 2/14 to 0022° Koran, NA. Also °0254 w/IS, tlks w/bubble jammer (Alexander-PA)

4615.1 IRAQ Baghdad 2/7 1518 ID, cmtry, AR mx, good (Serra-ITALY)

4697p JAVA RKIP Surabaya 2/26 1306 IN tlk, seemed //4753 for nx (Moore-IA)

4704.5 PERU Estacion Laser 2/26 1004 huaynos, ID, fair (Moore-IA)

4712.5 BOLIVIA Abaroa 2/24 1034 ID, ment Riberalta, mx (Durden-GA)

4735 CHINA Xinjiang PBS 2/26 1416 mx, ment Xinjiang (Murray-OR)

4740t TADZHIKISTAN Yunost 2/3 0020 tlk, ads, pops, ID? (Clar-NY)

4746.7t PERU Huanta 2000 3/2 1040 LA mx, tent IDs (Lawrence-NY)

4753.5 SULAWESI Ujung Pandang 1144 & 2226 pops, ID, nx, ads, Asian crooner (D'Angelo, Lyon, Clark)

4755 BRAZIL Educ Rural 3/1 0250 EG pops, PT ID 0300 (Moore-IA)

4760t ANDAMAN Port Blair 2/15 0030 YL tlk, seemed //4920, diff pgs at 0040 (Clark-ON)

4760 INDIA unid 2/13 1559 AIR IDs, gong, sitar, too strong for Port Blair? (Flynn-OR)

4770 NIGERIA Kaduna 0430-0517° rel tlk, nx, reggae, nx, ID, off in mid-sentence (Anderson, Jordan, Moore)

4770.8 ECUADOR Centinela del Sur 2/21 to 0336° anmts, ads, jingles, sfx, ballads, ID (Alexander-PA) 2/28 0333° anmts (Straus-NJ)

4775p INDIA AIR Gangtok 3/8 0024 choral, SC mx, nx, Guwahati consistently on 4775.4 (Clark-ON)

4775 PERU Tarma 2/20 1042 LA pops, TCs, IDs (Clar-NY)

4777 GABON RTV Gabonaise 1/31 2248 pops, C&W, ID, NA (Clar-NY)

4777.2p JAVA Jakarta 3/2 1506 nx, Programa Nasional (Murray-OR)

4780 DJIBOUTI RTVD 2/3 0350 chimes, tlk, AR mx (Washburn-ME) 2/27 2247 late for Ramadan, Koran, NA to 2300° (Clark-ON)

4785 TANZANIA RT 2/9 0400 SH, mx, EG full ID, fair (Washburn-ME)

4786.8y SOUTH VIETNAM Playcu 2250 vcls, tlk, nx (Clark-ON)

4789.6~ IRIAN JAYA Fak-Fak 2/24 1148 vcls, SCI, ID, nx (D'Angelo-PA) 2/18 1304 Jak nx, full ID, pops (Yamada-JAPAN)

4790 PERU Atlantida 2/25 °0930 IDs, TCs, mx (Straus-NJ)

4795 ECUADOR LV de los Caras 2/27 0425 ID, ballads (Jordan-PA)

4795.8 GUATEMALA Buenas Nuevas 2/25 0153 chorus w/guitar, ID (Newbury)

4800 ECUADOR R Popular 2/12 0405 echo IDs, mx (Straus-NJ) 2/7 0433 ID, "musica y musica," marimbas (Serra-ITALY)

4805 BRAZIL Rdf Amazonas 2/14 1000 mx, IDs, fair (Klinck-NY)

4805 PERU Villarica 3/15 1045 ID, farm pgm, ads, mx (Durden-GA)

4810 SOUTH AFRICA Orion 0030-0400, pops, IDs, TCs, Pennsylvania Polka, ad for 1st Natl Bank (Martin, Davenport, Newbury, Levison, Lamb)

4820 HONDURAS HRVC 2/15 to 0359° Back to God Hour, ID (Lamb-NY) 2/14 0430 SP rel svc (Lyon-MN)

4825 UKRAINE RU 3/3 0430 Uk nx //7195 (Tabatowski-OH)

4830 BOTSWANA RB 2/26 to 2200° EG rel, prayer, NA (Straus-NJ) tent 3/3 to 2159° ment Gaberone, NA (Brandt-NJ)

4830 THAILAND RT 2/13 1233 canned ID, IS, into Khmer (Clark-ON)

4830 VENEZUELA Tachira 2/13 0006 ID, LA mx (Serra-ITALY)

4832 COSTA RICA R Reloj 2/14 0520 tlk, ethnic mx, nx (Lyon-MN)

4835 GUATEMALA Tezulutlan 2/13 0011 marimba, ID (Serra-ITALY) 3/10 to 0400° IDs, tlks, marimbas (Lamb-NY)

4835 MALI RTV Malienne 2/9 1824 cmtry in lang (Serra-ITALY) 2/23 2200 FR native mx, tlk //4783, 5995 (Straus-NJ)

4844.8 GUATEMALA Kekchi 2/21 to 0304° rel, folk mx, ID (Alexander)

4845 MAURITANIA ORTM 0027, 0635, 2255 cmtry, mx, AR ID, long tlk over strings (Serra, Lyon, Westdal, Jordan)

4855.8 PERU La Hora 2/16 1012 ID, huaynos, anmts (Durden-GA)

4855.8 SUMATRA Palembang 2/9 1407 NA, tlk, ID, pops (Yamada-JAPAN)

4860 INDIA Delhi 2/15 1224 ID, nx, cmtry (D'Angelo-PA) 2/12 1240 tent w/chants, tent ID (Davenport-TN)

4860 RUSSIA RMWS 3/13 0400 EG nx (Tabatowski-OH) 2/15 2328 Jazz, nx, RS lang lesson (Jordan-PA)

4863.8 MOLUCCAS Ambon 1215-1500° IN mx, tlks, IS, nx, various
mx, closes w/o anthem or mx (Hippel, Lyon, Flynn)

4865 COLOMBIA LV del Cinaruco 0303-0609 sports event, dance
mx, ID (Newbury, Lyon, Serra)

4866.5p IRIAN JAYA Wamena 2/27 1243 Koran for Ramadan (Clark-ON)

4870 BENIN ORTB 3/10 2230 mellow mx, ID (Tabatowski-OH)

4874.6 IRIAN JAYA Sorong 2/15 1205 pres tlk in IN (Straus-NJ)
2/26 1230 mx & tlks (Rippel-VA)

4875 BOLIVIA La Cruz del Sur 2/25 0950 mx, ID (Straus-NJ)

4875 CHINA Vo Jinling pres 3/1 1210 discuss, SEAs mx (Rippel-VA)
2/20 1245 tlks, piano, 6 TP, nx (Lyon-MN)

4880t CLAND Vo Mojahed 2/6 0412 mx, tlk in lang abt Kurdistan,
Somalia, Arabia (Serra-ITALY)

4881.2 IRIAN JAYA Saura Kasih Agung 2/27 1130 EZL, JCI, nx (Clark)

4885 BRAZIL Clube do Para to 0434*, 0810 Bee Gees, IDs, better
in LSB, ID (Lamb, Serra, Straus)

4890 GABON RFI 2/14 0355 PR nx, ID, pops, features (Lyon-MI)

4890 PAPUA NBC 2/27 1215 tent w/C&W in lang, tlk (Lamb-NY)
3/1 1238 tlks (Rippel-VA)

4895 COLOMBIA LV del Rio Arauca 0053-0315 sports, martial mx
fair (Davenport, Serra, Newbury)

4902 SHRI LANKA SLBC 3/7 2319 IS, anthem, chanting (Clark-ON)

4904.6 CHAD RNT 2/28 0430 FR w/hilife mx (Rippel-VA) 2/14 0535
long speech on elections, hilife, ID (Lyon-MN)

4905 CHINA CPBS 2/24 2245 EG lesson (Straus-NJ) 2/18 2256 EG
lesson, pres ID, nx (Martin-MI)

4909.9 HCIDURAS LV Mosquitia 2/27 0239° rel, ID, good (Alexander-PA)

4910 CAMBODIA VOPC 2/23 *1059 anmt, mx, fair (Yamada-JAPAN)
tent 2/17 1500° JEAs vcls & flutes, weak (Murray-OR)

4914.5 PERU Cora 2/13 0320 accordion mx, ID (Newbury-NE)

4915 GUANA GBC 0530 ID, tribal sing, IS, nx (Newbury, Lyon)

4920 AUSTRALIA VIM4 2/28 1140 EG discuss, ABC nx (Straus-NJ)

4925 SUMATRA Jambi 1429, 2159 drama, ID, nx (Murray, Yamada)

4926 BOLIVIA San Miguel 2/15 0820 OC, 0847 NA, anmts (Berg-PA)

4931.6 JAVA Surakarta 1144 pops, ID, IS, nx (Yamada-JAPAN, Clark-ON)

4935 KENYA KBC 2/4 1806 nx, anthem in EG (Serra-ITALY)

4935 PERU Tropical 1019 IDs, mx, TCs (Klinck, Straus, Yamada, Clar)

4940 CHINA Qinghai 2/16 0140 CH tlk, anmts (Newbury-NE)

4960 DON REP Cima Cien 0432 chorus, jingles (Flynn, Alexander)

4970 VENEZUELA Rumbos 0403, 2315 nx w/doorbells, ID (Newbury,
Jordan)

4976 UGANDA RU 2/15 0405 EG nx abt Africa, IDs, ads (Lawrence-NY)

4980 VENEZUELA Ecos del Torbes 3/13 1051 ads, nx, IDs (Robertson)

4990t CHINA Hunan 1, 2/25 1418 CH opera (Flynn-OR)

4990 NIGERIA RN 3/10 0447 rel, choir, IDs, reggae (Lamb-NY)

4991 PERU Ancash pres 0231 3/3 folk mx, ID? "Corazon del Peru"
slogans (Lamb-NY) 2/15 1030 IDs, anmts (Davenport-TN)

4995.8 PERU Andina 0950 Andean mx, IDs, ment Peru (Lawrence, Straus)

5000 AUSTRALIA VNG 3/12 1100 IDs over WVVH (Tabatowski-OH)

5000 VENEZUELA YVTO 3/5 0200 time sig, ment Caracas (Straus-NJ)

5005 NEPAL RN 2/10 1531 Nepali nx, (RFI JJJ (Yamada-JAPAN)

5009 MADAGASCAR RM 1/30 0300 pops, anmts, IDs (Washburn-ME)

5010 CAMEROON Garoua 0555, 1750 choir, cmtry (Martin, Serra, Lyon)

5015 PERU Tarapoto 3/2 1045 ID, nx, good (Durden-GA)

5020 NIGER ORTN 2246 2/24 drums, IDs, nx, IS, Koran? (Clar-NY)

5020 SOL ISL SIBC 0815-1005 nx, when to plant CH cabbage, pops,
Bible verses (Westdal, Tabatowski, Lawrence, Straus)

5025 PERU Quillabamba 2/28 1036 NA, ID, mx (Durden-GA)

5030 ECUADOR Cat. Nac. 0202° mx, ID, NA (Alexander-PA)

5030 PERU Los Andes 1050 ID, mx, ads (Straus-NJ)

5030 VENEZUELA Continente 3/5 0145 IDs, ads, mx (Straus-NJ)

5035 KAZAKHSTAN Alma Ata 2/27 1957° anmts, NA (Yamada-JAPAN)

5045 BRAZIL Cult do Para 2/15 0845 rooster, TC, anmts (Straus-NJ)

5046 PERU Yurimaguas 3/15 1030 campo mx, ads, ID (Durden-GA)

5050 TANZANIA RT 0402 nx, IDs (Martin, Serra)

5050 COLOMBIA LV de Yopal 0050-0359° Sports, lively mx, IDs
Caracol promos (Alexander, Field-MI, Jordan, Flynn, D'Angelo)

5050 COSTA RICA REE 2/6 *0200 ID, tlk, gone at 0222 recheck
& 5970 on air (Alexander-PA)
5052 SINGAPORE SBC tent 3/1 1222 low audio:w/mx (Rippel-VA)
3/10 1514 pop mx, ID (Carter-WA)
5055 COSTA RICA Faro del Caribe 0303, 1045 Back to God Hour,
other rel, ID (Carter, Anderson, Straus)
5060.1t CHINA CPBS Xinjiang 2/7 1621 song, poss nx, into Kirghiz?
(Serra-ITALY)
5060.5 ECUADOR RN Progreso 0355*, 1120 LA vcls, Circulo Dominical,
ID, ads (D'Angelo, Durden)
5075 COLOMBIA Caracol 0410 nx, ID, ads, folk mx (Newbury,
Serra, Martin, Alexander)
5097.3 PERU R Eco to 0700* anmts, TC, IDs, salsa (Alexander-PA)
5145 CHINA Beijing 2/20 1320 tlk, jazz, orch mx (Lyon-MN)
5256.4 SUNATRA Sibolga 2/22 1445 IN lcl mx, ID, IS, nx (Yamada)
5323.6 PERU R Origen 3/5 1100 ID, soon faded (Field-MI)
5602.6 UNID 2/26 1023 nx, ads, "Radio Programas" ment but didn't
seem like ID, UTC-4 TCs, poss ment Colombia (Moore-IA)
5670 BONAIRE R Nederland 0125* EG mixing product (Alexander-PA)
5770 NICARAGUA Miskut 1/28 2215 LA pops, ID, HA (Washburn-ME)
5840 CLAND Patria Libre 2/20 0104* tlk, ID (Alexander-PA)
5850 CHINA China R Intl 2/16 1348 RS, into lang 1400 (Pappas-SD)
5875 ENGLAND BBC 3/11 0048 rock mx, ID, SP nx (Lamb-NY)
5882 VATICAN VR 2300 class mx, ID (Tabatowski-OH)
5900 BELGIUM R Vlaanderen 2/10 1901 EG nx //1512 (Serra-ITALY)

Thank you for making this bulletin great! I think this is the first time we had a reporter from South Dakota, thanks to MARTINA PAPPAS. Reporters from 17 states, 1 province and 2 countries! CHARLIE WASHBURN checks in as the "Easternmost DXer in the USA." This month New York beat Pennsylvania for number of reporters.

Before I forget, Happy Easter. Hope you were able to catch Glenn Hauser's DX Daily on Radio Miami. Though it was suspended after February, it may show up again on WHRI at 0130.

Due to the amount of material, I have had to edit and abbreviate quite a bit, hope you understand. If not, following are abbreviations used in this column. If you don't understand something, drop me a line.

abt	about	LV	La Voz
Afr	African	M	man
Amer	American	ment	mention of
anmt	announcement	NG	Mongolian
Ar	Arabic	mx	music
As	Asian, Asiatic	NA	natl anthem
btwn	between	NAm	North Amer.
bx	broadcast	nf	new frequency
CAM	Central American	nx	news
CH	Chinese	OA	Peruvian
CP	Bolivian	OC	open carrier
cntry	commentary	OM	man
C&W	Country & Western	p	presumed
CW	Morse Code	PD	Pidgin
campo	folk mx in LAM	PT	Portuguese
class	classical mx	QRM	interference
EG	English	QRN	noise
FC	frequency anmt	QTH	location
FR	French	rx	receiver
GN	German	SC	subcontinental
h	harmonic	SCI	Indo IS
HC	Ecuadorian	t	tentative
HJ	Colombian	TC	time check
ID	identification	TP	time pips
IN	Indonesian	ute	utility
instl	instrumental	v	variable
IS	interval signal	Xmtr	transmitter
LA	Latin American	ZY	Brazilian



International Band Loggings

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

- 5915 CHINA CPBS-1 Beijing in CH 2233, tlks, nx, anmts, ID, //5320, f-p (Clar NY 2/10)
- 5960 CANADA R Monte Carlo relay in AR 0410, tlks, pop mx, ID, exc (Newbury NE 2/16)
- 597296 MYANMAR Myawadi BCS in lang 1433, nice mx, ID, splatter, f (Murray OR 2/15)
- 5980 TURKEY VOT Ankara in TK 2106, nx?, ID, lcl mx, f-p w/QRM (Clar NY 2/13)
- 59813 GUATEMALA AWR Union R in SP 0109, insp mx, ID's, relig tlk, slogans (Clar 2/3)
- 5985 GERMANY R Liberty in RS 1356, IS, mx, nx, ID "Govorit Svoboda" (Serra ITALY 2/7)
- 5990 MYANMAR R Myanmar Yangon in lang 1357, anmts, ID 1404, vocals, f (Murray 2/15)
- 6005 GERMANY RIAS Berlin in GM 0735, ID's, pop mx, TP, phone interview (Orr VA 2/12)
- 6010 BRAZIL R Inconfidencia in PT 0743, ID, pop mx, TC, ads, fqys, QTH (Orr 2/2)
- 6015 CANADA R Austria relay in EG 0645, interview Aust parliament member (Grenier NV)
- 6020 NETHERLANDS RN in EG 0059, "Happy Station" Valentine Day pgm (Tucker GA 2/14)
- 6025 DOMINICAN REP R Amanecer in SP 1105, relig pgm, choir, f (D'Angelo PA 2/15)
- 6025 MALAYSIA RTVM Kajang in CH 1255, vcsls, chime IS 1259, tlks, no ID (Orr VA 2/6)
- 60352 COLOMBIA LV del Guaviare in SP *1010, ID, NA, nx, g (Martin MI 1/30) 5 kw xmtr
- 6050 CYPRUS BBC relay in EG 0530, EG lang lesson, ID at 0545 s/off (Orr VA 2/12)
- 6055 CZECH/SLOVAK CSRI in EG 0703, nx, ID, cntry, mx, comedy, g (Serra ITALY 2/14)
- 6055 JAPAN R Tampa in EG/JP 1228, ads for Sony, ID (Grenier NV 2/27)
- 6060 ARGENTINA RN Buenos Aires in SP 0546, ID, misc ads, g (Davies S AFRICA 2/19)
- 6065 COLOMBIA R Super Bogota in SP 1056, ID, morning anmts, g (Martin MI 2/4)
- 6070 CANADA CPBK Toronto MW relay in EG 1245, ad, ID, lcl wx, rpt (Tucker GA 2/9)
- 60898 NIGERIA RN Kaduna in vern 2133, long tlk, mx, AR chants, ID, f-p (Clar NY 2/21)
- 6090 BRAZIL R Bandeirantes in PT 0104, tlk, rpts, pops, ads, TC, ID, f (Clar 2/24)
- 6100 GERMANY Deut Welle in GM 0348, GM mx, tlk, IS, ID, nx, //6075 (Tucker GA 2/19)
- 6115 PERU R Union Lima in SP 0915, tlks by YL DJ, lcl mx, ID, g (Alexander PA 2/21)
- 6116 COLOMBIA LV del Llano in SP 0126, fast tlks, echo ID, slogans, f (Jordan PA 3/3)
- 6125 CHINA CPBS-1 in CH 1225, nx?, anmts, ID's, flute mx, //7504, 1330 (Clar 2/20)
- 61276v INDONESIA RRI Nabire in IN 1213, on again after weeks off, nx, p (Clark ONT 3/7)
- 61299v LAOS Lao Nat R in Lao 1142, lcl mx, short tlks by YL, 7 gongs, pips, ID, nx, f (D'Angelo PA 2/15) g at 1230 on Sun when CHNX off, lcl mx, tlk (Clark ONT 2/14) hrd again at 1159 w/fanfare/gongs at 1200, ID, nx, right on 6130 fqy (Clark 3/7)
- 61401 BURUNDI RN du Burundi in FR *0300, choral NA, ID, native vcsls, f-g (Clark 2/28)
- 614506nf CROATIA CR in lang/EG 0750, folk mx, instmls, ID, nx, //98299 (Alexander 2/7)
- 6185 MEXICO R Educacion in SP 1010, flamenco guitar, tlk, f-g (Martin MI 2/12)
- 61945nf BOLIVIA R Metropolitana in lang 0925, interview, mx, p (Klinck NY, Durden GA)
- 624977 NO KOREA Pyongyang BCS in KR 2245, tlk, KR folk mx, //63998, p (Alexander 2/27)
- 65495 LEBANON RV of Lebanon in EG 1803, nx, ID, mx, g (Serra ITALY 2/10)
- 66702 PERU R Santa Monica in SP 1045, ballads, tlk, ID 1056, abrupt off 1100 (Orr VA)
- 68035 PERU R Ondas del Mayo in SP 1030, ads, slogan, ID, TC (Hardesten NC, Orr VA)
- 6900 TURKEY VO Meteorology in TK 0520, lcl pop mx, ID, tlks, anmts (Orr VA 1/26)
- 7100 ANGOLA AV do Galo Negro in PT 2100-2307*, PT pops, US C&W mx, ID's, in EG 2105-2131, FR 2131-2200, Big Ben chimes, NA, p until 2128, then g (Alexander PA 2/14)
- 7110 ETHIOPIA VoE in lang 0327, IS, tlks, mx, f until VOA s/on 0400 (Lawrence NY 2/16)
- 7125 ITALY UN R relay via IRRS Milan in EG 0835, feature, ID, IS (Serra ITALY 2/21)
- 71407v ITALY R Italia Int in IT 0700, DJ chatter, ID's, ads, Euro pops/ballads, some QWORM (Alexander 2/28) mostly EG lang pops w/IT anmts, f until 0700 (Clark 2/28)
- 717225 ALBANIA R Tirana in IT 1742, ID, nx, lcl lite mx, polit tlk (Serra ITALY 2/25)
- 7195 UKRAINE R Ukraine in EG 0115, nx, cntry, mx, ID (Martin MI 2/9, Lyon MN 2/20)
- 721057nf? ITALY AWR Europe in IT 0758, ID in IT/FR/EG/GM, DX pgm, mx (Serra ITALY 2/21)
- 7270 OMAN R Oman(p) in AR 0207, Koran, ME mx, bad VOA QRM after 0228 (Clar NY 2/14)
- 7270 SO AFRICA Chan Africa in EG 0402, mx re Africa, ID's, f (Martin MI, Clar NY 2/6)
- 7275 LIBERIA ELBC in EG 0705, nx, cntry re US troops, ID, g (Davenport TN 2/17)
- 7280 CHINA VO Strait-PLA(p) in CH 1208, tlk, pops, ID's, p-f w/QRM (Clar NY 2/6)
- 7305 RUSSIA Deut Welle relay in EG 1620, UN food convoys in Bosnia (Davies S AFRICA)
- 7305nf KHAZAKHSTAN R Netherlands relay Alma Ata in EG 0114, "Happy Station", pops, tlk, pgm notes, promos, fqys/aked, p due to Vatican R QRM (Clar NY 2/1)
- 7325 UZBEKISTAN R Tashkent in EG 1330, ID, nx, mx (Carter WA 3/10)
- 7370 TURKEY Turkish Police Radiot(t) in TK 1122, songs, tlks, p (Pappas SD 2/24)
- 7405 CHINA CRI in IT 1845, "Vita Culturale", ID, fqy, IS, //7470 (Serra ITALY 2/19)

7412 INDIA AIR in EG 1600*, polit tlk, mx (Carter WA 3/10) in EG 1815, nx, cmntry, ID (Serra ITALY 2/4) in EG 2125, lcl mx, features, // 11620 (Clar NY, Wolfson OH)

7420 BELARUS Minsk in GM 1930, tlk, singing, QTH, ID, //7210 (Berg MA 2/14)

742985 GREECE RS Macedonias in GK 2057, ME mx, tlks, ID, nx, //11595 (Wolfson OH 2/6)

7465 ISRAEL Kol Israel in FR 2050, phone interview, pops, nx, ID, IS (Lamb NY 3/14)

7475 TUNISIA RTVt in AR 2305, nx, chants, fqys, mx (Lyon MN 2/19, Newbury NE 2/16)

7705usd ITALY Rai feeder in IT 0425, ID's, pops, nx, IS, NA, TC's, f (Lamb NY 2/28)

9022 IRAN VOIR Teheran in EG 0030, IS, ID, NA, fqys, Koran, chants, f (Lyon MN 2/21)

9165nf SUDAN R Omdurman in AR 0345, AR mx, Koran, in EG 1800, tlk, US mx, into AR 1900
This is presumably a move from 9170 (Alexander PA 2/28)

9275 ICELAND INBS Reykjavik in IC *2259-2335*, tlk, //11402 (Alexander PA 2/13)

9355nf USA WGNW Alabama in EG 2134, relig pgn w/choir, tlk, class mx, ID, IS, into GM 2155 (Lamb 3/12) in FR 2028/EG 2055, fqys, TC's, Bible thoughts (Clar NY 2/14)

9375 GREECE VOG in GM 1929, GK pop mx, rock, ID, nx, f-p (Clar NY 2/14)

9420nf? PAKISTAN RP in EG 1700, Koran w/EG translation, YL cmntry, f (Martin MI 1/30)

9420 GREECE VOG in GK/EG 0141, GK mx, rept in EG, ID's in both langs (Tucker GA 2/16)

9435 ISRAEL Kol Israel in EG 2000, Israel News Magazine, ID's, g (Klinck NY 2/12) in EG 0505, nx, ID, sports, wx, into FR 0515, no jamming! (Lyon MN 2/14)

9440 CHINA China R Int in Cambodian 1045, mx tunes & tlk, f (Klinck NY 2/7)

9445 TURKEY VOT in EG 2300, nx, mailbag, TK mx, pop rx, g (Newbury NE 2/10)

9460 TURKEY VOT in TK 1841, tlk, pips, ID, nx, exc (Serra ITALY 2/6)

9475 EGYPT R Cairo in EG 0315, nx, cmnts by Pres Mubarak, ID (Tucker GA 2/9)

9510 CUBA RHC in EG 0600, nx, features, IS, ID (Robertson CA 3/10, Grenier NV 2/7)

9510 NEW ZEALAND RNZI in EG 1200, ID, TC, live cricket match (Davenport TN 2/7)

9520 PHILIPPINES R Veritas in EG 0958, ID, sked, into Mandarin 1000 (Carter WA 2/28)

9545 SOLOMON IS SIBC in Pidgin/EG 0712, C&W mx w/YL host, nx 0730, //5020 (weak)
unusually strong sig overriding Deut Welle (Clark ONT 3/7)

9560 JORDAN R Jordan in AR 2120, AR vocals, interview, ezl mx, nx, g (Lyon MN 2/14)

9575 MOROCCO R Medi Un in FR 2340, trad AR vocals, nx 0001, f (Lyon MN 2/19)

9575 ITALY RAI in EG 0100, ID, nx, IT pop mx, fqys, off 0119, f (Lyon MN 2/21)

9580 GABON Africa #1 in FR 1909, tlks, mx, DJ, ID, call-in (Wolfson OH 2/22)

9585 BRAZIL R CBN Sao Paulo in PT 0953, tlks w/mx bridges, nx, tent ID (Orr VA 2/9)

9605 MADAGASCAR R Nederland relay in EG 1810, feature, ID, req mail (Lyon MN 2/21)

961436 INDONESIA RRI Samarinda in IN 1245-1430, lagu pops, ID, lcl nx, stn promo w/echo Jakarta relays, 9-note IS, choral anthem, sporadic xmtr problems some days, QRM from AIR, VOA tests, R Veritas, sigs from superb to poor (Clark ONT 2/12 to 3/7)

9615 PORTUGAL Deut Welle relay in CZ/SL 1951, ID, stn info, IS, nx (Wolfson OH 2/22)

9625 CANADA CBC N Quebec Service in vern 1009, rock mx, call-in (Wolfson OH 2/22)

9645 VATICAN STATE VR in EG 2013, Catholic world nx, ID, g (Klinck NY 2/12)

9650 GUAM AWR/KSDA Agat in KR 1322, relig tlk, instmtl mx, ID 1330 (Orr VA 2/6)

9655nf? COLOMBIA R Nacional in SP 2310, ballads, vocals, nx?, fgy, ID, f (Jordan PA 2/12)

9655 CHINA China R Int in EG 1241, feature on AIDS in China, mail, ID (Tucker GA 3/2)

9660 AUSTRALIA ABC Brisbane in EG 0730, sports nx, ID, het QRM (Robertson CA 3/10)

9660 VENEZUELA R Rumbos in SP 0530, L Am mx, ID, g (Martin MI 2/4)

9670 NO MARIANAS KFBS in VT 1357, relig tlk/mx, ID in EG, f-p (Lamb NY 3/14)

9675 INDONESIA VOI in EG 2019, lcl mx, ID, tlk re tourist attraction, f (Klinck 2/12)
in FR/EG 1945, pop mx, ID & TC in EG 2000 (Orr VA 1/29)

969C SPAIN R China Int relay in EG 0317, nx, ID, econ tlk, g (Davenport TN 2/12)

9695 SO AFRICA Chan Africa in EG 0355, reggae mx, ad, ID, fqys, nx, g (Lamb NY 3/14)

9700 NEW ZEALAND RNZI in EG 0705, interview, mail, "Playhouse" drama, ID, big band mx (Jordan PA 2/13, Grenier NV 2/20, Robertson CA 3/10)

97047nf MEXICO R Mexico Int in SP 0325, lite mx, steel drum, ID, QRM (Alexander PA 2/28)

9735 PARAGUAY R Nac in SP 2300-0130, ID's, nx, mx, tlk, p (Jordan PA 2/17, Lyon MN)

9770 MALI China R Int relay in EG 0010, tlk on acid rain, g (Lyon MN 2/20)

9835 PALAU V of Hope in EG 1300, ID, fqys, sked, drama, feature, f (Lyon MN 2/21)

9835 RUSSIA AWR Novosibirsk in EG 1310, relig pgn, mx bridges, f-p (Klinck NY 2/19)

987J GUAM KTWR in JP 1433, long tlk, hymns, prayer, ID, off 1458 (Lyon MN 2/21)

988J RUSSIA R Galaxy in EG *2000, IS, ID, QTH, tlk, jazz/instmtl mx, QRM Austria, signals very poor (Jordan PA 2/21, Alexander PA 2/14)

9930 BELGIUM R Vlaanderen in EG 0030, ID, nx, wx, cmntry on Bosnia (Lyon MN 2/20)

9965 CHINA China R Int in IT 1830, IS, ID, nx, cmntry, //7405, 7470 (Serra ITALY)

102335 ITALY RAI feeder in IT 0100, opera mx, ID/nx in EG, //7705, 6060 (Alexander PA)

112COnf? FRENCH GULIANA RFI relay in FR 0045, Carib dance mx, ID, fqys, IS, nx (Lyon 2/14)

11335 NO KOREA R Pyongyang in EG 0005, nx, cmntry, polit tlk, f (Lyon MN 2/14)

11402 ICELAND INBS Reykjavik in IC *1853-1930*, tlk, mx, off w/jingle (Alexander 2/14)

11530 LEBANON Wings of Hope in EG 1258, "Revival Time", songs, ID, p (Pappas SD 2/13)

11595 GREECE RS Makedonias in EG 2115, ethnic pop mx, ID, nx, f (Lyon MN 2/13)

11600test EGYPT R Cairo in EG *0159, ME mx, ID, anmt of test, Qu'ran, //9745 (Lamb 3/15)

11650 PHILIPPINES FEBC in EG/lang 2311, IS, ID's, tlk, inspir mx, f (Clar NY 2/24)

11650 NO MARIANAS KPBS Saipan in RS 1200, relig tlks, orch mx, ID, f (Jordan PA 3/2)

11665 NO MARIANAS KPBS Saipan in RS 1205, relig vocals, tlks, ID, f (Jordan 3/2) NOTE:
The 11650 is beamed to E Asia while the 11665 targets W Asia. Same program??

11685 SAUDI ARABIA BSKSA in AR 2135, AR pop mx, tlks, bad RTTY QRM (Lyon MN 2/13)

11705 SRI LANKA VOA relay in EG 0147, "VOA Tuesday Morning", nx, f (Lamb NY 2/16)

11710 ARGENTINA RAE in EG/SP 0025, vocals, sambas, tangos (Flynn OR 2/25, Martin MI)

11715 MALI China R Int relay in EG 2035, ID's, nx (Klinck NY 2/15, Levison PA 2/3)

11730 SEYCHELLES BBC relay in EG 0305, ID, nx, pgm notes, p (Martin MI 2/17)

11740 VATICAN STATE VR in IT/FR/EG 0659, nx, ID, Mass (Robertson CA, Tabatowski OH)

11745nf SO AFRICA Channel Africa in EG *0500, ID, nx, mailbag, African mx (Lamb NY 3/15)

11750 SINGAPORE BBC relay in EG 1510, nx, ID, sports hilites, soccer (Lyon MN 2/20)

11785nf THAILAND VOA relay in EG 1253, test xmsn of new site, Mandarin/EG lesson, IS at 1300, tlk after 1300, //12040 Philippines relay (Clark ONT 3/1, Brandi NJ 3/5)

11790 IRAN VOIRI in EG 0030, IS, chants, nx, mx, PLO cmntry, tlk re Iranian theater, pgm notes (Westdal CA 2/14, Wolfson OH 2/1, Lyon MN 2/14)

11810 SEYCHELLES FEBA in SH 0332-0400*, Afr mx, rel tlks/mx, ID, IS, f (Lamb NY 3/3)

11825 PORTUGAL VOA relay in RS 2225, cmntry, ID, nx, Broadway type mx (Lyon MN 2/13)

11830 BRAZIL R Anhanguera in PT 2340, tlk, TC, ID's, slogans, ads, f (Clar NY 2/10)

11835 SRI LANKA SLBC in EG 1127, instmls & sub-cont mx, pips, ID's, fcy (Clar 2/11)

11840 POLAND Polish R Warsaw in EG 1600, ID, nx (Tabatowski OH 3/3) ED: Pgm details?

11860 IRAQ R Iraq Int in EG 0230-0400, ME mx, nx, ID's, cmntry re trade sanctions, chants, some jamming (Lamb NY, Clar NY, Newbury NE, Westdal CA, Alexander PA)

11860nf? COLOMBIA LV Rio Arauca in SP 0427, ad string, ID, nx headlines (Lyon MN 2/14)

118698 COSTA RICA AWR-TIAWR in SP/EG 2252, marimba mx, into EG 2255, ID, QTH, relig pgming, into SP 0100, NA, f-g (Alexander PA 2/21)

11910 AUSTRALIA RA in EG 1735, interview re steam railroad, //11880 (Grenier NV 2/28)

11915 MALTA Deut Welle relay in GM 0028, tlk, ID, nx, journalists' rpts (Lyon MN 2/14)

11925 GABON R Japan relay in EG 2102, nx, site ID, "Friday Magazine Hour" (Carter WA)

11955 SINGAPORE BBC relay in EG 0002, Newsdesk, TC, ID's, f (Clar NY 2/10)

11955 CYPRUS BBC relay in EG 0231, "People and Politics", ID, nx, f (Lamb NY 2/27)

120197 VIETNAM VoV in FR 1837, nx re cooperation with the French (Serra ITALY 2/10)

12025 KHAZHAKSTAN R Netherlands relay Alma Ata in EG 0310, "East of Edom" (Clar 2/14)
In EG *0130, pips, ID, nx, tlk, lcl & US pop mx, interview (Jordan PA 2/15)

12035 GABON SRI relay in EG 2218, polit tlk, arts feature, site ID, g (Lamb NY 3/14)

12080 BOTSWANA VOA relay in FR 2123, Latin mx, ID, exc (Newbury NE 2/15)

12085 SYRIA R Damascus in EG 2035, US/AR mx, ID, nx (Lyon MN, Serra ITALY, Straus NJ)

13595nf USA WJCR Kentucky in EG 2330, gospel mx, readings, ID, //7490 (Alexander 2/28)

13620 KUWAIT RK in EG 1815, ezl mx, ID, fcy, speech (Serra ITALY, Lamb NY 3/14)

13635 SWITZERLAND SRI in IT 0709, feature, ID, QTH, mx, fqys, IS, //9860 (Serra 2/21)

13675 UNITED ARAB EMIRATES Dubai in EG 1631, nx, ID 1635, s/off 1640 (Tucker GA 2/13)

13685 BELGIUM R Vlaanderen Int in DT *1900, IS, ID, nx?, tlks, mx, p (Jordan PA 2/17)

13755 AUSTRALIA RA in EG 1707, nx, ID, mx, cmntry, g (Serra ITALY 2/16)

13855 ICELAND INBS Reykjavik in IC *1410-1450*, choral mx, tlk, chimes s/off, //15770 (Alexander PA 2/20) in IC *1935-2009*, nx, field rpts, mx bridges (Jordan 2/20)

15084 IRAN VOIRI in AR 1430, chants, dramatic string mx, long tlk, g (Lyon MN 2/14)

15090 VATICAN STATE VR in EG 0523, tlk on relig intolerance (Davies S AFRICA 2/19)
In EG 1546, interview on rural health, poverty, & conservation, ID (Newbury NE)

15120 NEW ZEALAND RNZI in EG 0400-0700, pop mx, life on Tonga, ID's, fqys, nx, sports, IS "bellbird", cricket match (Grenier NV, Robertson CA, Tucker GA, Serra ITALY)

15160 PHILIPPINES VOA relay in EG 1445, classical mx, ID, IS, editorial (Lyon MN 2/14)

15170 AUSTRALIA RA in EG 0900, world nx, ID's, mx, f (Klinck NY 2/21)

15230 JAPAN NHK Tokyo in EG 0502, nx, ID, Korea fighting cmntry, f-g (Robertson CA)

15240 AUSTRALIA RA in EG 0536, "Sportsworld", ID, nx (Tucker GA 3/7, Grenier NV)

15245 ITALY RAT in IT 0053, nx re bank scandal, ID's, ezl mx, SP 0100 (Lamb NY 2/17)

15250 SRI LANKA VOA relay in EG 0105, nx, sked, C&W mx, IS (Lyon MN, Lamb NY 2/16)

15250 IRAQ R Iraq Int in EG *1400, NA, ID, Koran, AR mx, nx, press review, chants, cmntry on war & suffering (Alexander PA 2/20, Wolfson OH 2/15, Rippel VA 3/3)

15280 SINGAPORE BBC relay in EG 0212, "Newsdesk", ID, f under KGEI (Lamb NY 2/27)

15310 OMAN BBC relay in EG 1650, unemployment in UK, g (Davies S AFRICA 2/18)

15325 FRENCH GULANA R Japan relay in EG 0300, nx, site ID, "Magazine Hour" (Carter WA)

15355 GABON R Japan relay in EG 1500, nx, ID (Tucker GA) in IT 0545, ID, nx (Serra IT)

15400 ASCENSION IS BBC relay in EG 1713, "Focus on Africa" (Serra ITALY 2/3)

15430 SO AFRICA Channel Africa in EG 0430-0600*, nx, ID, Afr pop mx, happy chatter, mailbag, IS, //7270 (Lyon MN, Lamb NY, Serra ITALY, Tucker GA)

15430 SWITZERLAND SRI in EG 1704, nx, ID, tlk on Olympic museum, QTH (Carter WA 2/23)

- 15440 FINLAND RF in EG 0533, "Compass North", g (Davies SO AFRICA 2/19)
 15450 PHILIPPINES FEBC in EG 0015, "in touch with God", relig tlk (Lyon MN 2/21)
 15470 UKRAINE R Tashkent in EG 1200-1228*, mx, quiz details, f (Straus NJ 2/25)
 15550 PAKISTAN RP in EG 1620, nx read at dictation speed, poor mod (Davies 2/21)
 15610 GUAM KSDA-AMR in EG 2325, ID's, inspirational hymns, "Voice of Prophecy", Hong Kong QTH, religious tlk, fqys (Clar NY 2/24, Lyon MN 2/20)
 15640 ISRAEL Kol Israel in EG 1400, ID, nx, "Israel Radio Mailbag" (Tucker GA 2/28)
 15770 ICELAND INBS Reykjavik in IC 1430, YL reading, ID 1430 (Tabatowski OH 3/10)
 17440 KIRIBATI R Kiribati in EG 1857, nx on the hr in EG, ID, fades (Westdal CA 2/16)
 17630 GABON Africa #1 in FR 1450, mx, ID's, FR rap (Pappas SD 2/10, Lyon MN 2/20)
 17715 AUSTRALIA RA in EG 0640, nx, mx, interview, ID, f-p (Robertson CA 3/10)
 17740 YUGOSLAVIA RY in EG 1230, rpt on peace tlks, US supply efforts, editorial on Bosnia's "aggression", interview, ID 1255 (Jordan PA 2/21, Tucker GA 3/4)
 17750 AUSTRALIA RA in EG 0206, ID, "International Report", tlk re Cambodia (Lamb 2/15)
 17780 ITALY RAI in IT 1748*, IT pop mx, ID, fqys, NA, bird IS, //15385 (Lamb NY 2/28)
 17815 BRAZIL R Cultura in PT 0110, BR pops, IDs, slogan (Lamb 2/17, Levison PA 2/23)
 17820 PHILIPPINES VOA relay in EG 2254, "Space and Man", ID, nx, f (Lamb NY 2/16)
 17825 JAPAN NHK Tokyo in EG 0302, nx re World Trade Bldg bombing, ID, f (Lamb NY 2/27)
 17835 JAPAN NHK Tokyo in EG 0108, IDs, nx, "Magazine Hour" (Clar NY 2/24, Lamb 3/11)
 17865 NO MARIANAS KHBI Saipan in EG 0204, nx, ID, Christ Sci relig pgm, f (Lamb 2/27)
 17880 ASCENSION IS BBC relay in EG 1711, "Focus on Africa", f (Serra ITALY 2/3)
 17900nf PORTUGAL RPI in PT 1938-2101*, sports, Liberty Bell march, disco mx, soccer, ID, NA, req rpts, f-g w/fades (Flynn OR 2/19, Lamb NY 2/14)
 21515 NETHERLAND ANTILLES RN relay in EG 1731, nx, tlk on missionaries (Grenier NV)
 21545 CANADA RCI in EG 1520, CBC nx, ID, cmntry, sked, QTH (Davenport TN 2/3)
 21550 FINLAND R Finland in EG 1440, ID, "Finland North" to NAM, g (Davenport TN 2/3)
 21645 FRANCE RPI in EG 1246, sports rpt, review of FR press, nx (Tucker GA 3/1)
 21675 KUWAIT R Kuwait in AR 1315, prayers, nx?, upbeat mx, radio drama, AR mx, Islam relig tlk, Qu'ran, IDs (Jordan PA 2/12, Lamb NY 3/14, Lyon MN 2/20)
 21690 ITALY RAI in IT 1442, live soccer coverage, TCs, crowd shouts, g (Lamb 3/14)
 21715 HONG KONG BBC relay in EG 0429, "Health Matters", features, ID (Robertson CA 3/9)
 21740 AUSTRALIA RA in FR/EG 2309, nx, IDs, reggae, C&W (Lamb 2/16, Levison PA 2/13)
 25710 UNIDENTIFIED in lang? 1400-1500+, some instrmnts, //25900? (Hardester NC 2/15)
 25575 UNIDENTIFIED in lang? 1250-1310, sounded like comm stn, vocals, tlks between selections, anmcts, ID?, intermittent audio (Jordan PA 3/3-5)

 ADDENDUM: The following loggings arrived after I had completed the page on which they belong. Please remember to get your Int Band loggings in to me (here in Seattle) by the 15th of the month if you elect to send them directly to me:

- 5981 GUATEMALA Union R in SP 1315, ID, fqys, relig pgm, g (Moore 2/27)
 6095 VATICAN ST VR in EG 0255, "Catholic Writing", ID, IS, //7305 (Lamb NY 2/15)
 6190 PERU R Oriente in SP 1010, mx, prayers, ID, farm pgm, vg (Durden GA 2/22)
 6204 PERU R Cuzco in SP 1019, ID in SP/FR, ads, huaynos, relig pgm (Durden 3/8)
 9610 CONGO RTV Congolaise in FR 0625, Afro nx, ID, into FR nx, g (Moore 2/28)

CLANDESTINE STATIONS

- 7380 V of the Broad Masses-Eritrea in AR? 0327, mx, ID, tlk, f-g (Klinck NY 2/24)
 7385 R Neg-Marron via RFPI-Costa Rica in EG 0235, nx items re US/Haiti (D'Angelo PA)
 114697v V of Human Rights & Freedom of Iran-Egypt? in multi-lang *0644-0730, IS, ID, NA, tlk in lang, mx. Also *1629-1822*, //15620, both fqys p (Alexander PA 2/20-21)
 119404 LV del Cid-Costa Rica? in SP 1349, tlk, mx, ID, //99417, cmnty (Wolfson OH 2/15)
 15045 R Patria Libre-Colombia in SP 1350*, hyper-polemics, ID, mx, p (Jordan PA)
 17950 V of the Iraqi People-Saudi Arabia in AR 1924, AR mx, ID 1931, tlks (Lamb 2/14)

 Another reminder to contributors: (1) be sure to cut logging slips into individual units, ideally bout 3/4 to one inch high (2) include your State and reception date along with your name--yes, some slips arrive with no name (3) print carefully if you do not type (4) include enough program details to provide a meaningful report, i.e. something more than "nx, ID" (5) send only your best DX rather than a large amount of items already reported many times in the past (6) allow enough time for transit in the mails - at least three days. There was some good material sent in this month and it is much appreciated.

English Schedules

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Prepared 3/26/93 at 10:54 PM.

This month, thanks to William Bergadano (NJ), A. Akad Çukurova (TRT), Wolf Harrant (ORF), Nigel Holmes (R Australia), Jon Klinedinst (PA), Adam Lock (WWCR), Jonathan Marks (R Netherlands), Richard Measham (BBCM), and Andy Sennitt (WRTH).

Notes

Richard Measham tells me the interference I noted on the BBC relay on 5975 around 05 UT is from R Tirana in Albanian. The heterodyne caused by Tirana being slightly off frequency made listening to Antigua difficult. I am also finding that 5975 from 04 onwards suffers sideband splatter—when using the portable radio—from Radio Exterior de España on 5970.

Radio Cairo to NAm 0200-0330 dropped 11865 for most of the month while testing alternatives 9220, 9720 and 11600 parallel to 9475. I didn't get the information until after the 9220 test, but I can say with certainty that 11600 was a much better frequency than 9720. Watch for a permanent change in frequencies.

Off WWCR from early-to-mid February: *Signals*, *Crossband*, and *Radio Newyork International*. *Signals'* electronic mail accounts on *GENie* and *portal.com* are also closed. As best I can tell there has been no official statement from Briarcliff Manor. The principals seem to have disappeared without a word. *RNI* was dropped for non-payment of bills, according to Steve Coletti, host of *Crossband*. *Crossband*, part of *RNI's* package removed from WWCR, will continue on the LTRN satellite only.

Glenn Hauser announced in *WoR* #686 that *DX Daily* would return on Radio Miami Int'l via WHRI starting April 12. The first

airing is 0130 UT Tu-Sa, with a repeat at 0600 except Sa at 1400. After the change to DST, *World of Radio* airs on WRNO Sa 2030, Su 0200, Su 2030; on WWCR Fr 2115, Su 0305, 0700, 2300, Mo 1230, and Tu 1130. Days and times are in UT.

Adam Lock of WWCR tells me that he signed an agreement March 26 for a new radio-computers-communications media-type show, *Spectrum*, to air in *Signals'* old time slot of UT Sunday 0335 (following *World of Radio*). It's scheduled to begin in May. Mark Emanuel (sic) will be the host, and some persons from the computer information service GENie will also be involved. At least part of it will be live with telephone calls. *Spectrum* will also be carried on the LTRN satellite network. Given that the show will be live, it probably will not have a WWCR repeat unless arrangements can be made to tape the program.

WWCR's third transmitter should be on very soon. Programming will be shuffled, but nothing is finalized.



A friend of the SWL community, Michael Batchelor has left WSIB to seek other opportunities in his home town of Charleston, SC. I had the pleasure of meeting Mike at the first two Monitoring Times conventions. Good luck, Mike!

China Radio Int'l, in an unusual turn of events, changed its end-of-transmission frequency announcement tapes before the actual changes were made. The Voice of Vietnam has switched to 15009 (nominal) and can be heard throughout the day here. A

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newsletter published by the Belgian SWL club *Benelux* says Radio Sofia will change its name to Radio Bulgaria April 1. Wings of Hope, carrying Dr. Gene Scott programming, now is running more hours than listed in the data file. Jon Klinedinst reports good signals around 22 UT on 11530 kHz. Radio Japan begins relays via Singapore on April 1. Don't forget that Slovakia should begin its English language programming after the first of April.



Radio Canada International's new schedule reflects budget cuts and program reorganization. English language transmissions have been consolidated to

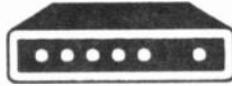
serve multiple target areas at the same time and some transmissions have been retimed. The program schedule is too complicated to summarize here; I recommend you write or fax RCI to request the new edition.

What didn't make it into this month's update? The *Journal* deadline falls before the M93 season begins, and it has been difficult to dig out information from some of the broadcasters. Kol Israel announced new summer times early on but delayed announcing frequencies until after our deadline; we list the summer times with the winter frequencies here. I'm still not sure what ex-Soviet bloc countries change schedules with summer time this time; if you can't find it when listed, look an hour earlier. Ukraine, Armenia and others may shift... and change frequencies too. Some broadcasters change only part of their schedule affecting Europe or NAM. And no doubt I have made some mistakes in the shift to summer time but hopefully these are few. I've delayed closing the column as long as possible, but the printing must go on. The listings close earlier than this narrative.

RFE-RL Newsletter

Did you know there is a daily electronic newsletter that covers the CIS? Al Quaglieri, on the ANARC SWL Net, tipped us to the Radio Free Europe-Radio Liberty newsletter distributed via the Internet system. "The RFE/RL Daily Report is a digest of the latest developments in Russia, Transcaucasia and Central Asia, and Central and Eastern Europe. It is published Monday through Friday (except German holidays) by the RFE/RL Research Institute (a division of Radio Free Europe/Radio Liberty, Inc.)." You need an Internet account or another electronic mail provider that links to Internet. Send the message *subscribe rferl-1* to *LISTSERV@ubvm.cc.buffalo.edu*. The newsletter is fascinating reading given the current troubles in Russia.

BBS Update



The Pinelands RBBS was finally shut down on March

2 after subscribers to the data files were notified. Pics OnLine! BBS has all the radio-type files that were on my BBS. Both the *FidoNet SHORTWAVE echo* and the *UseNet rec.radio.shortwave* feeds are available through the QWK mail door. A small hard drive was replaced, thus increasing the capacity to around 5 GB of file downloads. Pics OnLine! has installed the first two (of 6) US Robotics 16.8k HST/Dual Standard modems. Here's an update on the telephone numbers to call, depending upon the type of modem you have: (609) 753-2540 for 1200-2400-9600(HST)-14.4k(HST) baud callers; (609) 753-2605 for 9600 baud v.32 callers; and (609) 753-1549 for 16.8k HST and 14.4k v.32bis callers.

FOR SALE: Panasonic RFB-65, like new. \$180.00 shipping included. This is the famous travel portable almost as sensitive as the 2010. Has 36 memories, keypad form which one can set both time and frequency, and tuning in either 5 kHz up/down steps or 1 kHz by the tuning knob. With a nice leather case, this radio is indispensable for travel. By accident of marital generosity I have two, and wish to share one of them with one of you. Donna Ring, 269 Terhune Avenue, Passaic, NJ 07055-3326. Phone (201) 471-4211 evenings and weekends.

FOR SALE: ICOM R-71A, Gilfer customized with 4.0 kHz filter and Pre-Amp effective in AM band. A-1 shape. Price of \$595.00 includes shipping. ALSO Customized Beam Headings (from/to) and distances (MI/KM) to over 482 WRTH-93 transmitter sites including new Russian republics. ITU Country Codes included. Send your location or coordinates, \$6.95. WRTH-91, \$10.95. -92, \$12.95, or \$22.00 for both. "Passport to World Band Radio" 1990 and 1992, \$6.95 each. NASWA Journals, 1991 and 1992 complete, \$10.50 a year or \$20.00 for both. All items include shipping. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398. No collect calls, please.

WANTED: 6SC7 tube for SX100 Hallicrafters receiver. Marlin Field, 128 Oak, Hilldale, MI 49242.

English Language Schedules
By Start Time, Changes Entered Between
2/27/93 and 3/25/93
Compiled by Thomas R. Sundstrom, W2XQ

Start Time (UTC)	End Time (UTC)	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #4	Freq. #5	Freq. #6	Freq. #7	Freq. #8	Target Area	Notes	Record Last Updated
0000	2400	Costa Rica	R for Peace Int1	21465	15030	13630	7385	7375				LAm/NAm	#1,2&3 USB	3/20/93
0000	0030	Norway	R Norway Int1	15165	9675							SAm/NAm	Mo only	3/14/93
0000	0100	USA	WYFR	6085								NAm	Network Tu-Su	3/24/93
0000	0600	USA	WHR1	9495	7315							Carib/eNAm	157/42 deg	3/25/93
0000	0030	Australia	R Australia	17840	17750	15365	15320	13605				As/Pac/PapNG		3/22/93
0030	0127	Netherlands	R Netherlands	13700	11835	11655	9860	9825	6165	6020		sAs/eNAm	2&6 Bon|3&4 Ma|5 Alm	3/14/93
0030	0100	Australia	R Australia	21740	17880	17840	17750	15365	15320	15240	13605	As/Pac/PapNG		3/22/93
0100	0200	Japan	R Japan	17845	17835	15195	11860	11840	11815	5960		GOS/Asia/NAm	#5 Sri Lanka|#7 Can	3/14/93
0100	0130	Norway	R Norway Int1	9615								NAm	Mo only	3/14/93
0100	0130	Sweden	R Sweden	11820	9695							As/Pac		3/16/93
0100	0300	USA	WYFR	15440	9505	6085						NAm	#2&3 Network Tu-Su	3/24/93
0100	0200	USA	WEWN	9825								India/NAm	tx#3:20 deg	2/28/93
0100	0159	Canada	R Canada Int1	11940	11845	9755	9535	6120				USA/LAm	#1&2&4-1st 30m Tu-Sa	3/20/93
0100	0200	Australia	R Australia	21740	17880	17840	17750	15365	15320	15240	11880	As/Pac/PapNG		3/22/93
0130	0200	Austria	ORF	9880	9870	6015						NAm/SAm		3/23/93
0130	0227	Netherlands	R Netherlands	13700	12025	11655	9860					sAs	#1 Alma Ata|#3&4 Mad	3/14/93
0200	0300	Argentina	RAE	11710								Americas	Tu-Sa	3/20/93
0200	0300	Hungary	R Budapest	11910	9835	6110						NAm		3/24/93
0200	0230	Norway	R Norway Int1	11925	9565							NAm	Mo only	3/14/93
0200	0300	South Africa	Channel Africa	9730								e&cAf		3/2/93
0200	0259	Canada	R Canada Int1	11940	11845	9755	9535	6120				USA/LAm		3/20/93
0200	0400	Australia	R Australia	21740	21595	21525	17840	17795	17750	17715	15365	As/Pac/PapNG		3/22/93
0230	0327	Netherlands	R Netherlands	13700	12025	11655	9860					sAs	#1 Alma Ata|#3&4 Mad	3/14/93
0300	0330	Japan	R Japan	15325	15230	11725						GOS/NAm/CA/LA/Asia	#1 Fr Gu	3/14/93
0300	0510	South Africa	Radio Oranje	3230										3/2/93
0300	0400	South Africa	Channel Africa	9730	3995							e&cAf/sAf		3/2/93

0900	1000	Australia	R Australia	21725	15170	13605	9580	9510	5990		As/Pac/PapNG		3/22/93	
0930	1027	Netherlands	R Netherlands	15470	12065	11895	9720				e&sAs/eAs/AusNZ	#2&4 Bonj#1&3 CIS	3/14/93	
1000	1030	Israel	Kol Israel	17545							wEu		3/21/93	
1000	1100	South Africa	Channel Africa	17805							eAI		3/2/93	
1000	1100	USA	WHRI	9850	7355	7315					Carib/eNAM	#1 Suj#2 M-Sa	3/25/93	
1000	1200	USA	WWCR/1	12160							Eu/ME/nAI		3/5/93	
1000	1100	Australia	R Australia	21725	13605	9580	5995				As/Pac/PapNG		3/22/93	
1030	1100	Austria	ORF	21490	15450						Aus/As		3/23/93	
1030	1059	South Korea	R Korea	11715							eNAM	v Canada	3/14/93	
1030	1127	Netherlands	R Netherlands	15470	12065						e&sAs/FE&eAs	v CIS	3/14/93	
1100	1200	Japan	R Japan	15240	11910	6120					GOS/Asia/NAM	#3 v Canada	3/14/93	
1100	1200	South Africa	Channel Africa	9730							cAI		3/2/93	
1100	1200	South Korea	R Korea	15575	9650	6145					ME/Al/eNAM	#2&3 v Canada	3/14/93	
1100	1200	USA	WYFR	11830	5950						NAM	Network M-Sa	3/24/93	
1100	1300	USA	WHRI	11790	9850	7315					Carib/eNAM	#1 Suj#2 M-Sa	3/25/93	
1100	1200	Australia	R Australia	21725	15170	13605	9910	9580	9510	7240	6080	As/Pac/PapNG	3/22/93	
1130	1200	Austria	ORF	13730	6155						NAM/Eu		3/23/93	
1130	1155	Belgium	R Vlaanderen Int1	17540	15530						seAs/NAM	Su	3/13/93	
1130	1227	Netherlands	R Netherlands	9860	5955						Eu		3/14/93	
1200	1300	China	China R Int1	15450	15440	15210	11660	9715			sPac/seAs/eNAM		3/21/93	
1200	1230	Norway	R Norway Int1	17860	17730						FE/Aus/seAs/wAus	Su only	3/14/93	
1200	2400	USA	WWCR/1	15685							Eu/ME/nAI		3/5/93	
1200	1300	USA	WYFR	17760	11830	6015	5950				NAM	#1&2&4 Network M-Sa	3/24/93	
1200	1259	Canada	R Canada Int1	17820	11855	9635					Carib/USA	M-F	3/20/93	
1200	1230	Australia	R Australia	21725	9710	9580	7240	6080	6020	5995		As/Pac/PapNG	3/22/93	
1230	1327	Netherlands	R Netherlands	9860	5955						Eu		3/14/93	
1230	1300	Sweden	R Sweden	21500	15240						As/Pac		3/16/93	
1230	1300	Turkey	V of Turkey	9675							swAs		3/22/93	
1230	1259	Canada	R Canada Int1	15195	9660						As	v Japan	3/20/93	
1230	1300	Australia	R Australia	21725	9580	7240	6080	6020	5995		As/Pac/PapNG		3/22/93	
1300	1325	Belgium	R Vlaanderen Int1	17540	15530						seAs/NAM	M-Sa	3/13/93	
1300	1400	China	China R Int1	15440	11855	11660	9715				Pac/seAs/wNAM		3/21/93	
1300	1325	Israel	Kol Israel	17590	17575	15650	15640	11603	11587		wEu/eEu/NAM/Aus/As		3/21/93	
1300	1330	Norway	R Norway Int1	15270	9590						wAI/Eu	Su only	3/14/93	
1300	1400	USA	WHRI	11790	9465						Carib/eNAM	157/42 deg	3/25/93	
1300	1400	USA	WYFR	17750	13695	11830	6015	5950			NAM	#1&3&5 Network M-Sa	3/24/93	
1300	1600	Canada	R Canada Int1	17820	11955						Carib/USA	Su only	3/20/93	
1300	1430	Australia	R Australia	13755	11855	11800	7240	9580	5995		As/Pac/PapNG		3/22/93	
1330	1400	Austria	ORF	15450							As		3/23/93	
1330	1625	Netherlands	R Netherlands	17610	13770	15150	9890				sAs	#1&4 Mad	3/14/93	
1330	1359	Canada	R Canada Int1	21710	21455	17895	17820	15325	15315	11935	11795	Eu/ME/Al/eAs	#8,9 Chj#1,3,4 ex Su	3/20/93

1400	1500	China	China R Int'l	15135	11855	11815						sAs/wNAM		3/21/93
1400	1500	Japan	R Japan	11865	11835	11815	9535					GOS/AmvAs	#4 v Sri Lanka	3/14/93
1400	1500	USA	WYFR	17750	11830	6015						NAm	#1&2 Network M-Sa	3/24/93
1400	1600	USA	WHRI	15105	9465							Carib/eNAM	157/42 deg	3/25/93
1400	1459	Canada	R Canada Int'l	21710	21455	17895	17820	15325	15315	11935		Eu/ME/Al/eAs	#1,3,4 ex Su	3/20/93
1430	1500	Austria	ORF	21490	15450	13730	6155					wAl/Eu/FE		3/23/93
1430	1530	Australia	R Australia	13755	11855	11800	9770	9580	9560	7260	7240	As/Pac/PapNG		3/22/93
1500	1600	China	China R Int'l	15135	11815							sAs		3/21/93
1500	1600	Japan	R Japan	15355	11865	11815						GOS/sAl/NAM/vAs	#1 v Gabon	3/14/93
1500	1530	Sudan	R Omdurman	9165	7200							Regional		3/6/93
1500	1530	Sweden	R Sweden	21500	15270	15240						NA/ME/Al		3/16/93
1500	1600	USA	WYFR	17750	11830	6015						NAm	#1&2 Network M-Sa	3/24/93
1500	1600	USA	WEWN	18930								ME	tx#3:35 deg	2/28/93
1530	1600	Austria	ORF	11780								s&seAs		3/23/93
1530	1600	Australia	R Australia	13755	11855	11800	9580	9560	7260	7240	6080	As/Pac/PapNG		3/22/93
1600	1700	China	China R Int'l	15130	15110	11575						e&sAlr	#1&2 v Mali	3/20/93
1600	1630	Norway	R Norway Int'l	17720	15230							ME/eEu	Su only	3/23/93
1600	1800	South Africa	Channel Africa	17710	5960							wAl/e&c&sAl		3/2/93
1600	1700	USA	WYFR	21615	21525	17750	15355	11830	11705			Eu/Al/NAM	#5&6 Network M-Sa	3/24/93
1600	1630	Vietnam	V of Vietnam	15010	12020	9840						Al		3/20/93
1600	1700	USA	WHRI	15105	13760	9465						Carib/eNAM	#2 Su|#3 M-Sa	3/25/93
1600	1630	Australia	R Australia	13755	11855	11800	9580	9560	7260	7240	6060	As/Pac/PapNG		3/22/93
1620	2200	South Africa	Radio Oranje	3230										3/2/93
1630	1715	Ecuador	HCJB	21455	17790							ME	#1 USB	3/21/93
1630	1657	Canada	R Canada Int'l	9555	7150							India	v China	3/20/93
1630	1700	Australia	R Australia	13755	11880	9580	9560	7260	7240	6060	5995	As/Pac/PapNG		3/22/93
1700	1715	Israel	Kol Israel	17575	11675	11587	7465					Al/wNAM/vEu/NAM		3/21/93
1700	1800	Japan	R Japan	17775	11865	11815						GOS/ME/nAl/AmvAs	#1 Sri Lanka	3/14/93
1700	1730	Norway	R Norway Int'l	15220	9655							eEu/Al/Eu	Su only	3/14/93
1700	1800	Azerbaijdzhan	V of Azerbaijdzhan	9580								Eu		3/20/93
1700	1800	Australia	R Australia	13755	11910	11880	9580	9560	7260	7240	6080	As/Pac/PapNG		3/22/93
1700	1800	USA	WHRI	15105	13760							Carib/eNAM/vEu	157/42 deg	3/25/93
1715	1745	Ecuador	HCJB	21455	17790							ME	Mo-Sa|#1 USB	3/21/93
1730	1927	Netherlands	R Netherlands	21590	21515	7120	6020					e&wAl	#1&2 Bon | #3&4 Mad	3/14/93
1730	1800	Sweden	R Sweden	15270	9645	6065						ME/Al/Eu		3/16/93
1745	1800	Ecuador	HCJB	21455	17790							ME	Mo-Fr|#1 USB	3/21/93
1800	1825	Belgium	R Vlaanderen Int'l	15540	13685	5910						Al/Eu		3/13/93
1800	1900	Sudan	R Omdurman	9165	7200							Regional		3/6/93
1800	2300	USA	WHRI	17830	13760							Carib/eNAM/vEu	157/42 deg	3/25/93
1800	2000	USA	WEWN	13740								UK	tx#3:35 deg	2/28/93
1800	1830	Australia	R Australia	11910	11880	9580	7260	7240	6080	6060	5995	As/Pac/PapNG		3/22/93

1830	1900	Austria	ORF	13730	9880	6155	5945							sAI/ME/Eu			3/23/93
1830	1900	Australia	R Australia	11910	11880	11855	9580	7260	7240	6080	6060			As/Pac/PapNG			3/22/93
1900	2000	Argentina	RAE	15345										Eu/Afr	M-F		3/20/93
1900	1930	Israel	Kol Israel	17575	11675	11603	11587	9435	7465					AI/wNAMwEu/LA/NAm			3/21/93
1900	1930	Japan	R Japan	11875	11865	9640								GOS/Oc/Am			3/14/93
1900	1930	Norway	R Norway Int'l	15365	15355									NAm/CAM/NZ	Su only		3/14/93
1900	2030	Australia	R Australia	11910	11880	11855	11720	9580	7260	7240	6080			As/Pac/PapNG			3/22/93
2000	2100	China	China R Int'l	15110	11715	11500	9920	9440						e&s/AI/w&nAI/Eu	#1&2 v Mali		3/21/93
2000	2050	Turkey	V of Turkey	9445										Eu			3/22/93
2000	2200	USA	WYFR	21615	21525	17612	15666							Eu/AI			3/24/93
2030	2129	Canada	R Canada Int'l	17875	17850	17820	13670	13650	7235	5995				Eu/AI/ME	#6,7 v UK		3/20/93
2030	2100	Australia	R Australia	11855	11720	9580	7260	7240	6060	5995				As/Pac/PapNG			3/22/93
2100	2125	Belgium	R Vlaanderen Int'l	9905	5910									Eu	#2 Su only		3/13/93
2100	2200	China	China R Int'l	15110	11715	11500	9920							e&sAI/Eu	#1&2 -2130		3/21/93
2100	2200	Hungary	R Budapest	11910	9835	6110								Eu			3/24/93
2100	2200	Japan	R Japan	15430	11925	11815	9750	9640	6035					GOS/Oc/As/Eu	#2 v Gabon		3/14/93
2100	2130	Norway	R Norway Int'l	15165										NAm	Su only		3/14/93
2100	2130	Australia	R Australia	11880	11855	11720	9645	9580	9540	6060				As/Pac/PapNG			3/22/93
2130	2200	Austria	ORF	13730	9880	9870	6155	5945						s&wAI/Eu			3/23/93
2130	2200	Israel	Kol Israel	17575	11675	11603	11587	9435	7465					LA/wNAM/NAmwEu			3/21/93
2130	2200	Lithuania	R Vilnius	9675										Eu			3/22/93
2130	2200	Australia	R Australia	11880	11855	11720	9645	9540						As/Pac/PapNG			3/22/93
2200	2300	China	China R Int'l	9740	3985									Eu	#1 CIS|#2 Swiz-2230		3/20/93
2200	2300	Russia	R Galaxy	9880										Eu/NAm			3/21/93
2200	2300	Taiwan	V of Free China	21615	15666									Eu	v WYFR|best guess		3/24/93
2200	2250	Turkey	V of Turkey	11895	9445	7185								Eu/NAm/ME			3/22/93
2200	2300	Ukraine	R Ukraine Int'l	9860	7240	7195	6020							Eu	as hrd, not all ann		3/25/93
2200	2300	USA	WYFR	21525	17612									Eu/AI			3/24/93
2200	2355	Iraq	R Iraq Int'l	11810										Eu	irregular		3/17/93
2200	2230	Canada	R Canada Int'l	15305	13670	11730	11705	9755	7195	5995	5960			Carib/USA/seAs/Eu	#4 v Japan|#6,7 v UK		3/20/93
2200	2230	Australia	R Australia	17795	15365	15320	11880	11855	11720	9645	9540			As/Pac/PapNG			3/22/93
2230	2330	Sweden	R Sweden	11910	6065									As/Pac/Eu			3/16/93
2230	2259	Canada	R Canada Int'l	13670	9755	7195	5995	5960						Carib/USA/AI/Eu	#3,4 v UK		3/20/93
2230	2300	Australia	R Australia	17795	15365	15320	11880	11855	11720	9645				As/Pac/PapNG			3/22/93
2300	2400	Japan	R Japan	15430	11815	7140	6125	6050						GOS/As/Eu	#4&5 v UK		3/14/93
2300	2330	Lithuania	R Vilnius	11750										NA/Eu			3/22/93
2300	2330	Norway	R Norway Int'l	11795	9655									NAm/CAM	Su only		3/14/93
2300	0300	South Africa	Radio Orion	3230													3/2/93
2300	2400	USA	WHRI	13760	9495									eNAm/Eu/Carib	42/157 deg		3/25/93
2300	2400	USA	WEWN	5825										wEu	tx#3:35 deg		2/28/93
2300	2359	Canada	R Canada Int'l	15235	13670	11940	9755	7195	5995	5960				Carib/USA/AI/Eu	#5,6 v UK|#1,3 SaSu		3/20/93
2300	2400	Australia	R Australia	21740	17795	15365	15320	15240	11880	11720				As/Pac/PapNG			3/22/93
2330	2355	Belgium	R Vlaanderen Int'l	13655	9930									SAm/NAm			3/13/93

English Language DX Shows
 By Day of Week
 Changes Entered between 2/27/93 and 3/25/93
 Compiled by Thomas R. Sundstrom, W2XQ

Day	Program	Xmsn Start	Show Start	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #4	Freq. #5	Freq. #6	Freq. #7	Freq. #8	Freq. #9	Freq. #10	Program Notes	Record Last
Sunday	R Sofia Calling	0100	0115	Bulgaria	R Sofia	11720	9700	7225									3/25/93
Sunday	SW Panorama	0130	0135	Austria	ORF	9880	9870	6015								w/in Rpt frm Austria	3/23/93
Sunday	DX Radio Tips	0300	0320	Turkey	V of Turkey	9445										Biweekly	3/22/93
Sunday	SW Panorama	0330	0335	Austria	ORF	9870	6015									w/in Rpt frm Austria	3/23/93
Sunday	World of Radio	0000	0405	USA	WWCR/1	7435											3/5/93
Sunday	SW Panorama	0530	0535	Austria	ORF	6015										w/in Rpt frm Austria	34051
Sunday	SW Panorama	0630	0635	Austria	ORF	6015										w/in Rpt frm Austria	34051
Sunday	SW Panorama	0730	0735	Austria	ORF	17870	15410	13730	6155							w/in Rpt frm Austria	34051
Sunday	Radio Techniques	0800	0830	USA	WWCR/1	9370											34033
Sunday	SW Panorama	0830	0835	Austria	ORF	21490	15450									w/in Rpt frm Austria	34051
Sunday	SW Feedback	1030	1033	South Korea	R Korea	11715											34042
Sunday	SW Panorama	1030	1035	Austria	ORF	21490	15450									w/in Rpt frm Austria	34051
Sunday	SW Feedback	1100	1135	South Korea	R Korea	15575	9650	6145								Only on freq #1.	34042
Sunday	SW Panorama	1130	1135	Austria	ORF	13730	6155									w/in Rpt frm Austria	34051
Sunday	DX Corner	1300	1315	Israel	Kol Israel	17590	17575	15650	15640	11603	11587						34049
Sunday	SW Panorama	1330	1335	Austria	ORF	15450										w/in Rpt frm Austria	34051
Sunday	DX Corner	1900	1915	Israel	Kol Israel	17575	11675	11603	11587	9435	7465						3/21/93
Monday	Radio World	0630	0635	Belgium	R Vlaanderen Int'l	9925	5910										3/13/93
Monday	Radio World	0900	0905	Belgium	R Vlaanderen Int'l	13675	9905	5910									3/13/93
Monday	Radio World	1300	1305	Belgium	R Vlaanderen Int'l	17540	15530										3/13/93
Monday	DX Corner	2130	2145	Israel	Kol Israel	17575	11675	11603	11587	9435	7465						3/21/93
Monday	Hello DXers	2130	2153	Lithuania	R Vilnius	9675										biweekly	3/22/93
Monday	For Radio Amateurs	2130	2154	Lithuania	R Vilnius	9675										biweekly	3/22/93
Monday	Hello DXers	2300	2323	Lithuania	R Vilnius	11750										biweekly	3/22/93
Monday	For Radio Amateurs	2300	2324	Lithuania	R Vilnius	11750										biweekly	3/22/93
Tuesday	DX Daily	0000	0130	USA	WHRI	9495	7315									starts 12 Apr	3/20/93
Tuesday	DX Daily	0600	0600	USA	WHRI	9495	7315									starts 12 Apr	3/25/93
Tuesday	Sweden Calling DXer	1230	1240	Sweden	R Sweden	21500	15240									1st & 3rd Tu/mo	3/16/93
Tuesday	Sweden Calling DXer	1500	1510	Sweden	R Sweden	21500	15270	15240								1st & 3rd Tu/mo	3/16/93
Tuesday	Communicator	1530	1530	Australia	R Australia	13755	11855	11800	9580	9560	7260	7240	6080	5995			3/22/93
Tuesday	Communicator	1700	1730	Australia	R Australia	13755	11910	11880	9580	9560	7260	7240	6080	6060	5995		3/22/93
Tuesday	Sweden Calling DXer	2230	2240	Sweden	R Sweden	11910	6065									1st & 3rd Tu/mo	3/16/93
Wednesday	DX Daily	0000	0130	USA	WHRI	9495	7315									starts 12 Apr	3/20/93
Wednesday	DX Daily	0600	0600	USA	WHRI	9495	7315									starts 12 Apr	3/25/93

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ISSN 0160-1989

The Journal of the
North American Shortwave Association

Executive Director: Bob Brown, KW3F
238 Cricklewood Circle, Lansdale, PA 19446
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Levittown, PA 19057
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