

NASA

the
JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXV Number 7

July 1995



DRAKE

R-8A



PRELIMINARY SPECIFICATIONS

Dimensions	13.2"W x 5.25"H x 13"D
Weight	13 Lbs. (16 Lbs. ship)
Frequency Range	100 - 30000 kHz
AC Power	100/120/200/240 VAC
	50 or 60 Hz 40 Watts
DC Power	11 - 16 VDC @ 2A
Antenna 1, Converter	50 ohms unbalanced
Antenna 2	50 or 500 ohms unbal.
Selectivity	● -6dB ● -60dB
All modes except FM	6.0 kHz <12.0 kHz
	4.0 kHz <8.0 kHz
	2.3 kHz <4.5 kHz
	1.8 kHz <3.6 kHz
	.5 kHz <1.5 kHz
FM mode only	12.0 kHz <25.0 kHz
Ultimate Selectivity	>95 dB
Image Rejection	>80 dB 1-30 MHz
I.F. Rejection	>80 dB 45 MHz
	>100 dB 50 kHz
Third Ord. Intercept	> +20dBm
Dynamic Range	100 dB
Notch Filter Attn.	40 dB min Depth (500-5000 Hz)
Sensitivity	10 dB S+ N/N
SSB/CW	<1.0µV 1-1.5 MHz
	<0.5µV 1.5-30 MHz
	<0.25µV 5-30 MHz ¹
	¹ with preamp
AM	<3.0µV 1-1.5 MHz
	<1.5µV 1.5-30 MHz
	<0.8µV 5-30 MHz ¹
	¹ with preamp
FM (12dB BW)	<0.5µV 1.5-30 MHz
Freq. Stability	±5 ppm, -10° to 50° C.
Freq. Accuracy	±100 Hz, -10° to 50° C.
Intermediate Freqs.	1st IF = 45 MHz
	2nd IF = 50 kHz
Ext. Speaker Output ..	2.5 Watts, 4 Ohms.
	<10% distortion
Recorder Output	300 mV, 4.7K Ohms.
Demodulator Output ..	300 mV, 4.7K Ohms.
Operating Temp.	-10° to 50° C.

USED RECEIVERS

Call our toll free number (1 800 431-3939) to request our free used equipment list published every two weeks.

The R.L. Drake Company has been a leading name in American electronic communications since 1943. The new Drake R-8A is the latest offering in this proud tradition of excellent receivers. The R-8A is a microprocessor controlled, synthesized, all mode, world band receiver offering excellent sensitivity, high dynamic range and other features for the most demanding listener. It has been designed as a "complete package." You get many items as standard equipment, that would be extra on other receivers. Multi-mode reception (AM, FM, USB, LSB, RTTY and CW) is featured throughout the range of the receiver (100 kHz to 30 MHz). A high-Q, 8-pole, electronically switched IF filter provides a range of five bandwidths. User selection of bandwidths is now available with one keystroke independent of mode (or automatic). The improved, easier to read, front panel display provides visual feedback to the operator of the current status of the receiver. In the AM mode, a selectable synchronous detector (SYNCHRO) allows for enhanced reception by eliminating or reducing distortion due to fading signals. A Passband Offset control also aids in reducing or eliminating interfering signals by electronically shifting the receiver's IF frequencies without disturbing the operating frequency. This action allows the operator to electronically move interfering signals out of the receiver's passband thus utilizing the degree of selectivity provided by the high-Q, 8-pole IF filter. The Passband Offset is also coupled to the synchronous detector (SYNCHRO) allowing the passband to be altered while the detector is in use. Other reception aids include selectable AGC, wide/narrow noise blanker, RF preamplifier for enhancing weak signals, RF attenuator for further improvement of strong signal handling capabilities, tone control and an adjustable RF gain. A Notch filter is also supplied as an effective tool to eliminate offending tones (heterodynes). A muting control allows operation with a transceiver. Two VFOs (tuners) are provided and frequencies can be directly entered through the keypad. 440 non-volatile alpha-numeric memories are now provided. As a result of three scan methods and three scan modes; nine distinct scan functions are supported in the R-8A. The three methods are: Stop at carrier detect, Pause 5 seconds on carrier and Pause at carrier until carrier drops for 5 seconds, then resume scan. The three modes are: Scan all memories, all unlocked memories of user-selected list or Scan from VFO A to B. The memory scanning speed has been increased to 40 channels per second.

The R-8A has two 24 hour clock-timers to allow the R-8A to turn on and off at preset times. In addition, the rear panel Timer connection (5 pin DIN) allows control of small recorders to record a favorite program. The R-8 rear panel provides a common DB-9 connector for standard RS-232C data communications with a personal computer. This interface provides control and programming capability of the R-8A including reports of frequency, mode, memory channel, name and signal strength. Only the analog controls such as volume, RF gain, etc. are not controllable. In terms of performance and features, the American-made R-8A is the new state-of-the-art standard! Expected delivery is June 1995. Order your R-8A now from Drake's largest U.S. dealer. Order #0080. Discount Price \$1059.95 (+\$15 UPS)

R-8A IMPROVEMENTS

- ◆ Improved Ergonomics: Single key press will select your mode and bandwidth.
- ◆ More Memories: 440 memory positions.
- ◆ Faster Scanning: Scan 40 channels per second.
- ◆ Alphanumeric Display: Program names may be displayed on the front panel (7 characters).
- ◆ Display & Entry Freqs.: Display and entry of frequencies are user programmable in kHz or MHz.
- ◆ Cabinet Feet: Front panel tilt via a metal ball.
- ◆ Event Timers/Clocks: 2 Timers. The time may be programmed to remain on at all times.
- ◆ Expanded RS-232 Control: Allows customized reports of frequency, mode, memory, channel, name, and signal strength.
- ◆ Improved AGC: The AGC has a smoother attack for improved SSB listening.
- ◆ Tone Control: Expanded control of high frequency range.
- ◆ FM Receive Mode: A highpass filter has been added to reduce sub audible tone squelch signals.
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◆ HUGE CATALOG ◆

Our new 1995 Summer Catalog is bigger than ever, with everything for the listener, ham or scanner enthusiast. Available FREE by 4th class mail or for \$1 by 1st class mail.

universal
radio inc.

Contributors' Page

John Schmid
P.O. Box 86
Line Lexington, PA 18932

In Memory of John Schmid

In early June we were saddened to learn that our Distributing Editor, John Schmid, passed away. John was a long time member of our club and graciously stepped forward to fill the void left by the unexpected passing of Vern Hyson last year. His friendship, warm smile, and cheerful demeanor will be missed by all.

Many of you probably met John at one or more of the Winter SWL Festivals. Each year, John helped out "behind the scenes" to make the FEST a success. He was one of the quiet helpers that don't seek out a lot of credit for their contributions but help make things happen thanks to a co-operative, helpful nature. Also, John was always willing to take a turn or two at the club's table at each FEST. Indeed, his contributions to the club and hobby scene will be missed.

Our local Philadelphia NASWA Chapter had the pleasure of seeing and talking with John each month at our meetings. He was always a regular; people like John make group gatherings such as our third Friday of the month meeting work. Once again, his contributions to these meetings will be missed.

On behalf of the staff, the editors, and the entire NASWA membership, the Executive Council extends our sympathies to John's family and many friends. We will miss him. Rest in peace, OM.

In honor of John's memory, we dedicate this issue of the *JOURNAL* to him.

NASWA Notes

Richard A. D'Angelo
2216 Burkey Drive
Wyomissing, PA 19610

The sudden, unexpected death of John Schmid was very sad news to receive. John's warm, cheerful, and good natured personality made him a valuable friend and member of the NASWA team. He will be missed. His passing occurred around the time of the Distributing Editor's deadline so if your contributions were sent to Line Lexington last month, they are probably not in the *JOURNAL*. Stepping in to fill John's shoes as Distributing Editor is **Fred Kohlbrenner** (2641 South Shields Street, Philadelphia, PA 19142).

Based upon membership response to our survey a few months ago, we are introducing a new column to the pages of the *JOURNAL*. Veteran DX'er, staff member, and pirate enthusiast **Chris Lobdell** (P. O. Box 146, Stoneham, MA 02180-0146) will bring pirate news and information to the bulletin. We are very interested in your reaction to this new column. Please provide Chris with your support and let us hear from you with a Musing about the new column.

And speaking of the membership survey... a few months ago I mentioned that the results would be appearing in the *JOURNAL*. This is still the plan although the schedule has had to be altered to fit **Harold Cones'** busy schedule. Please be patient, the results will appear.

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, **Hausie** WB4JSP, and **Tom Sundstrom** W2XQ, host an always lively gang of DX monitors. (Best heard in the eastern half of NAm)

The Association of North American Radio Clubs ("ANARC") is canvassing its Club Representatives for nominations to serve on its seven member Executive Board. If you are interested in being nominated for one of these important positions, contact our Club Representative, **Bob Brown**. Nominees must be a member of at least one ANARC club. ANARC Executive Board members serve a two year term and govern the day-to-day operations of the association. This is where all the decisions are made! From the elected Executive Board members, a Chairman is selected to serve a concurrent one year term. The Executive Board term begins on January 1, 1996 and runs for two years. NASWA is

Welcome to the following new NASWA members -

Charles Beauchamp, Oxford, MI
Mr. William Bell, Berwyn, PA
John Blachley, Palm Desert, CA
Art Blair, Orangevale, CA
Richard Clark, Bracebridge, ONT CANADA
Bob Coomler, Santa Rosa, CA
J. S. Corcoran, Oak Brook Terrace, IL
John F. Corrigan, Wilmington, DE
Steve Curtis, Nederland, CO
James L. Dreitlein, Ledyard, CT
Laurie Fowler, Tuscaloosa, AL

Mike Hanmer, Madison, WI
Mr. James L. Harris, Winchester, VA
Truman Harris, Mclean, VA
Paul R. Hochuli, Ridgewood, NJ
Frank Kay, Westlake, LA
Dudley Lab, Toms River, NJ
Khemraj Mahadeo, Brooklyn, NY
David R. Mobley, Springfield, OR
Rev. James E. Thompson, Berlin, NJ
John T. Traum, Holland, PA
Yuji Yamada, Hiroshima, JAPAN

Our Motto is - "Unity and Friendship"

looking for one or more of its members that may be interested in serving in this capacity. Currently, we have seven members serving in these positions: Harold Cones, Rich D' Angelo, Dave Marshall, John McColman, Mark Meece, Bill Oliver and John Vodenik. The terms of Messrs. Cones, Meece and Oliver expire at year-end. If you are interested in serving on the Executive Board of ANARC (and possibly serving as its Chairman!), please contact Bob Brown by August 1st. The election takes place in September.

Our friends at the Danish Shortwave Clubs International (DSWCI) have just published two new editions of their well-known publications for advanced DX-ers. The 23rd annual edition of the TROPICAL BANDS SURVEY ("TBS") has been compiled again by Anker Petersen. It lists all active broadcasting stations in the 2000 - 5900 kHz range by frequency, power, location and transmission time. It is completely updated through May 1995, and is based upon monitoring information from DX-ers all over the World. Each station is classified by a code

describing its current audibility. It consists of 28 offset printed A-4 Pages. The Clandestine Broadcasting scene changes quickly, and therefore Finn Krone again has updated the DSWCI CLANDESTINE LIST through May 1995. The list contains the latest available data on all active Clandestine stations broadcasting on shortwave, including transmission schedules, political organization, language, addresses and verification policy. The stations are listed in frequency order, as well as in time order and country by country. You'll also find much background information of the Clandestine stations, which are not found elsewhere. It consists of 28 offset printed A-4 pages, an increase of 8 pages compared to the 1994 edition. Each of these publications are available for 10 IRC's for airmail delivery worldwide. Send your order and payment to: DSWCI, c/o Bent Nielsen, Egekrogen 14, DK-3500 Vaerloese, Denmark.

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

Calendar Of Events

- Jul 15** - The **Miami Valley DX Club** (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC (614) 471-9973 Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Jul 21** - Meeting, **Philadelphia Area NASWA Chapter**. Kulpsville Holiday Inn, Kulpsville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Jul 21** - Meeting, **Boston Area NASWA Chapter**. The Lexington Club, Rts. 4 & 225, Lexington, Mass., 7:30 p.m. Location is 1/4 mile west of Rt. 128, Exit 31. For more info, contact: Paul Graveline, 508/470-1971, or Internet 74007.3434@compuserve.com.
- Aug 6** - The **Tidewater SWLs** meet on the first Sunday of each month at 6:30 PM. For info, call Joe Buch, (804) 721-2782.

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

FRENDX: Twenty Five Years Ago....

A Country List update by Don Jensen informed members of some changes to the list as we#. as the fact that "International Waters" and "Outer Space" were rejected as countries. Veteran DX'er Bill Sparks renewed for his seventh year. Gerry Dexter announced that ANARC merit awards are now available and will be issued periodically to those that have made significant contributions to the hobby. In Gregg Calkin's QSL Report column, Chris Lobdell presented the "Central American White List." Calkin also notes an upsurge in replies from Damascus. An SSB test from Radio Barbados on 9970 kHz at 0330-0430 was reported by Ernie Behr in the Flash Sheet, edited by Al Niblack.

Musings

This column provides a forum wheras members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are are soley those of the submitters. Please submit all Musings to Bob Brown, 238 Cricklewood Circle, Lansdale, PA 19446 or via email - 74756.1557@compuserve.com

Gerry Bishop, 126 Dyer St., Niceville, FL 32578

Just read in Linn's Stamp News (June 19, 1995, p.24) that international mail rates are to go up on July 9. According to Linn's, the new rates are:

- Canada 46c for < 1 oz; 52c for 1 oz; 40c for postcards.
- Mexico 40c for < 1 oz; 46c for 1 oz; 35c for postcards.
- All others 60c for < 1 oz; \$1 for 1 oz; 50c for postcards. Aerogrammes will cost 50c.

No more surface rates for international mail, as "the volume has all but disappeared." All letters and cards will receive airmail service.

All this is from an announcement by the USPS on June 6. I don't think we can complain. The last increase was over 4 years ago, and these increases mostly reflect nothing more than the interim aggregate inflation.

73, Gerry Bishop

Marlin A. Field, 128 Oak, Hillsdale, MI 49242

DXing can be expensive, especially for those of us on limited income. If one uses cassettes for reports, one way to save money is to send them by small packet rate, which is almost as cheap as an airmail letter if one includes other than the typed reception report. The additional cost is basically the tape. A postal employee alerted me to this rate. I've found a good place to buy cassettes, CRW Electronics, P.O. Box 22125, Chattanooga, TN. I first learned of CRW from our church, which uses tapes from them for its tape ministry. A free catalog can be obtained by calling 1-800-251-6388

DUES INCREASE

Effective April 1, 1995, Executive Council determined that a US\$1.00 increase in membership rates in North America was necessary. The changing membership rates are associated with the recent increase in postage costs and other operating expenses of the club including printing. In North America dues are now US\$26.00. Overseas postage rates may rise later this year which could result in membership rates increasing. Overseas members may renew early to avoid the increase.

FOR SALE: MFJ Model 784 Tunable, Digital, S/P Filter. List \$220.00. Grove TUN-4 Preselector. List \$100.00. State of the art, brand new, and never used. Serious offers only, please. R.R. Dailey, 1815 Kleber Street, Pittsburgh, PA 15212-1618.

Easy Listening

Richard D. Cuff
1016 Chestnut Ridge Drive
Timonium, MD 21093-1716
CompuServe 73651,153
GEnie R CUFF
Internet rcuff@riemtec.com

A Mishmash

Welcome to the June *Easy Listening* column. It's a mishmash this month, as I didn't receive the July edition of *BBC Worldwide* in time for the inclusion of BBC World Service July program highlights. It has been a transitional month as I continue to get settled here in Baltimore, and as I change my utilization of on-line computer services. Sorry the column is a bit light this month.

Surfin' the 'Net

The growth of Internet connectivity continues, and I have switched my principal on-line access activity to an Internet service provider with full graphical access to the World Wide Web (the Web), plus Gopher, Telnet, ftp, and USENET capabilities. The graphics-and-text combination on the Web has fueled extremely rapid growth in Internet traffic, and most of the commercial on-line services now provide Internet gateways. One of the latest broadcasters to sponsor a Web "home page" is **Radio Netherlands**, with a Web address ("URL") of <http://www.rnw.nl>. The growth of services on the Internet has also caused a jump in Internet traffic, which can test the impatient when traffic is heavy. Now that I have better Internet access, I'll provide updates here when I read about major international broadcasters introducing Internet-based information. One URL worth adding to your bookmark list is <http://www.cs.cmu.edu/~jblythe/short-wave.html>, a USA location for Thorsten Koch's Web page of Internet access links for international broadcasters. A great reference which Thorsten updates as broadcasters add Internet resources.

The most reliable address to use if you want to reach me on the Internet is the rcuff@memtec.com address—hat's my electronic mail address at work, which I monitor frequently.

HCJB July Highlights

Once again, courtesy of HCJB's Allen Graham, here are some program plans for July.

STUDIO NINE is HCJB's weeknightly news and features program emphasizing Latin America. The week of July 4 - 8 will feature several Latin American countries: in

Peru, it's a hiker's guide to the famous Machu Picchu ruins. In Mexico, the Americanization of the city of Monterrey will be discussed. Studio Nine will also visit Costa Rica, the land of volcanoes and parks. The week of July 11 - 15 brings travels to Guatemala, Brazil, and Ecuador. Each Friday features an installment of the series, *Mystery of Mysteries*, which asks the question "Did we evolve or were we created?"

On Sunday, July 9 during **MOUNTAIN MEDITATIONS**, host Jim Allen takes a look at at **IMITATING CHRIST** in organizational relationships. How should a Christian behave in his/her work when the boss is unfair? Tune in for some "Practical Christianity."

On Wednesday, July 19, **EL MUNDO FUTURO** will focus exclusively on health related fields - the whole program will be one "Health and Medical Update." Allen Graham hosts.

BBC World Service Highlights

A change of pace this month - since I didn't receive *BBC Worldwide* in time for the column, I'll take a look at some regular BBC World Service features.

Tuesdays-Saturdays, 0330: **The World Today** is a daily mini-documentary on a single subject, normally presented by a BBC correspondent in the field. **The World Today**

normally incorporates a fair amount of news analysis, versus the more straightforward reporting found in *Newsdesk*. Also airs Mondays through Fridays 2115.

Thursdays 0030 and Sundays 0330: **From Our Own Correspondent** provides BBC correspondents a chance to impart a bit of their own personality and local background than a typical news dispatch would allow. You get a greater sense of the background tapestry afforded by the various locales the correspondents have been stationed in. Also airs Thursdays 2145 and Sundays 1505.

Tuesdays 0130: With **Omnibus**, you never know quite what to expect. **Omnibus** is a weekly half-hour documentary with no set theme; opera, history, science, geography are all fair game for treatment. *BBC Worldwide* rarely helps matters, as it provides upcoming topics for a particular month without specifying which date a particular topic will be covered. Also airs Mondays 1430.

Target Topic: Travel and Tourism

Unfortunately I haven't been able to research this genre of programs extensively before putting this month's column together. Here is a selected list of topics from John Figliozzi's *Shortwave RadioGuide*. A total of 25 different English language programs are shown; not all are from "Easy Listening" broadcasters.

2342 R. Vlaanderen Int'l	Sunday	Tourism in Flanders (travelogue)
0115 R. Slovakia Int'l	Tuesday	Tourism (tips on visiting Slovakia)
0135 Deutsche Welle	Friday	Come to Germany (touring Germany)
0245 Radio Portugal	Tuesday	Visitor's Notebook (aspects of Portugal for tourists)
0300 Radio Vatican	Thursday	Postcards from Rome (interesting Vatican sites)
0315 Voice of Free China	Thursday	Main Roads and Byways (interesting places in Taiwan)
0315 Voice of Turkey	Saturday	Turkish Album (places in Turkey)
0430 Swiss Radio Int'l	Monday	Rendez-vous (Swiss people and places)
0420 China Radio Int'l	Sunday	Travel Talk (touring China)
2350 Radio Bulgaria	Tuesday	Across the Map of Bulgaria (places of interest)
0110 Radio Budapest	Wednesday	Travel (touring Hungary) (after 1st Tuesday of month)
0830 Radio New Zealand Int'l	Thursday	Travel Pacific (touring the Pacific region) (fortnightly)

I'd like to separately mention HCJB. Ken MacHarg sent me an e-mail reporting that HCJB's **Travel Latin America** is a weekly look at travel destinations and news from around Latin America and the Caribbean. Each week's feature normally takes a look at one location and fills you in on what to expect if you go there.

Travel Latin America is heard most Saturdays (North American timing) during **Studio 9**.

Thanks, as always, to John Figliozzi for compiling this information. This comes from John's *Electronic Edition* of the *Shortwave RadioGuide*; John now offers comma-delimited fields in an ASCII file that make it relatively easy to import the data into your favorite database manager or worksheet.

Upcoming Target Topics

Don't forget to get your contributions into me for the following schedule of topics:

August: Sports

September: Education

October: Arts reviews and other cultural programs

Until August,

73 DE Richard



Shortwave Center

Hans Johnson
7529 Red Cravat Court
Columbia, MD 21046
CompuServe 73042,3644
Internet 73042 3644@campuserve.com

Pennsylvania Adventures-Who says Dxpditions are just about listening to the radio-read on!

A Pictorial Visit to WMLK

by Hans Johnson

While at a Dxpdition to Gifford Pinchot State Park last fall, Dave Valko and I made a roadtrip to WMLK in Bethel. We arrived unannounced but were shown around all the same. If you are travelling down I-78, I urge you to stop in at WMLK. After all, its right next to the interstate.

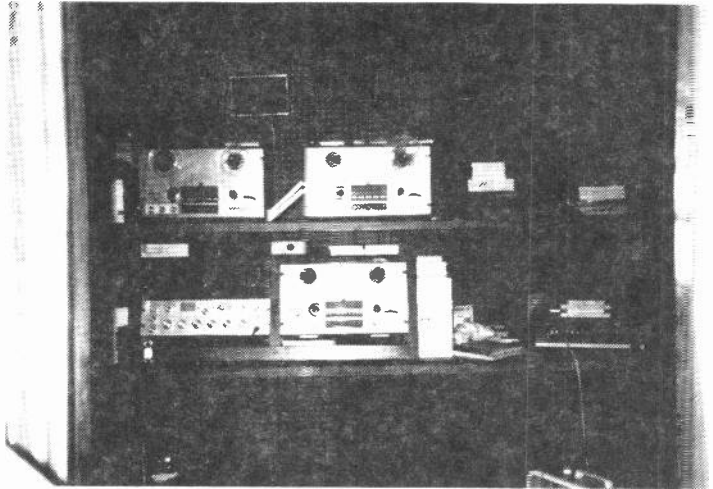


Figure 1 The WMLK Studio

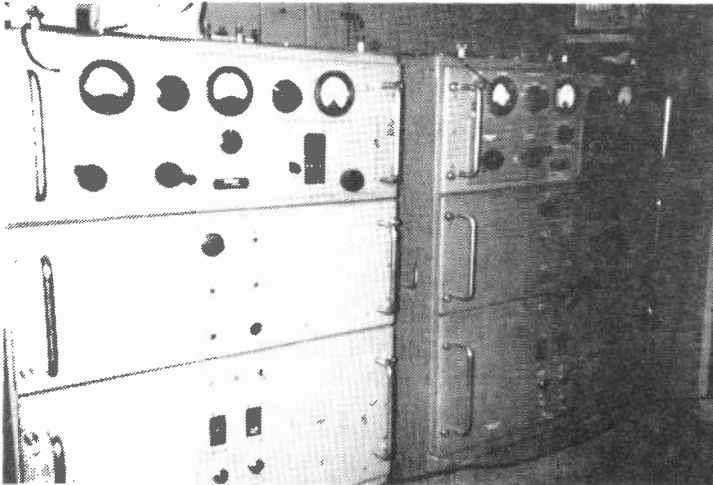


Figure 2 Equipment at WMLK

Figure 3 WMLK's Antenna

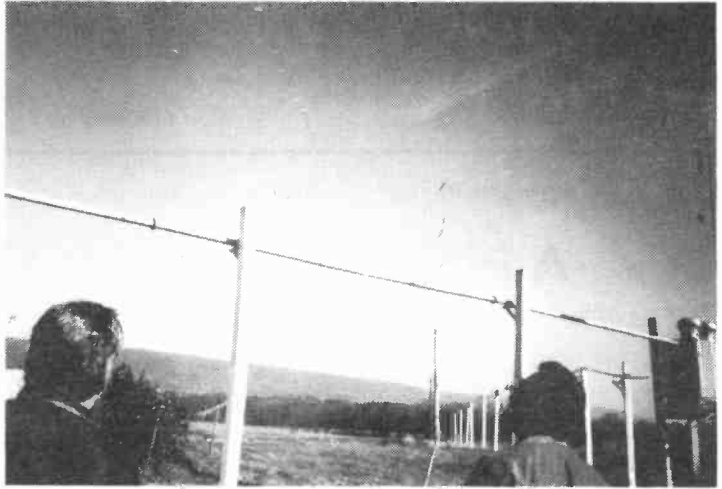


Figure 4 Proud Visitors Fly the Flag at WMLK



A visit to the home of Radio Democracy

by Hans Johnson

As you recall, Radio Democracy was a station that broadcast to Haiti during 1994 on 1035 khz and that was easily heard in much of North America. Programming from Haitian exiles was broadcast from aircraft of the Pennsylvania Air National Guard.

After WMLK, our party headed to the Harrisburg International Airport, home to the 193rd

Special Operations Group. Finding the base was easy, but getting on it was impossible. Although we could see four of the EC-130 aircraft parked on the tarmac, we were stopped at the front gate. The best we could do was to talk with a recruiter for the unit. For the history of Radio Democracy and the 193rd SOG, see the September 1994 issue of Monitoring Times. Allow me to share with you some of our conversation with the recruiter with you. The 193rd SOG is a reserve unit, that is, it only has a small cadre of active-

duty (fulltime) personnel. The rest are reservists who train one weekend a month and for a two week block during the year, usually the summer. In times of crisis, a reserve unit will "activate", that is, all the reserve personnel will assume active-duty status. What is so unusual about the 193rd is how often it activates-about 15 to 20 times a year.

(In addition to their spouses, their employers must really love them). With so many activations, there will be plenty of opportunities to heard future operations. The QSL policy is as follows. The 193rd will not comment on current operations, that is, a station they are currently running, so you will have to wait until the operation is over and a particular station is no longer being broadcast. At that point, the unit will QSL reception reports. They can be addressed to: Public Affairs Officer, 193rd SOG, 81 Constellation Court, Middletown, PA 17057-5086. Recordings are accepted but keep in mind that the PAO is a reservist and only is there one weekend a month so you reply may take a little while.



PENNSYLVANIA AIR NATIONAL GUARD
HEADQUARTERS 193d SPECIAL OPERATIONS GROUP (AF-SOG)
MIDDLETOWN, PENNSYLVANIA

26 October 1994

193 SOG/CC
81 Constellation Court
Middletown, PA 17057-5086

Mr. Hans Johnson
7529 Red-Crest Court
Columbia MD 21046

Dear Mr. Johnson

We listened with great interest to your recording of Radio Democracy. We can now say that the broadcast was done from our Commando Solo aircraft.

As a token of our appreciation for your effort, we have enclosed a photograph of the aircraft we fly. We have also enclosed an article on Radio Democracy from the September 1994 issue of "Monitoring Times".

Thank you for your interest and support of this project.

E. THOMAS KIBHN Jr., Col, PAANG
Vice Commander

The Voice of the Doves Professionals of AF-SOG
Never Seen Always Heard



A Hammarlund HQ-180

by Rick Krzemien, N6NVG

I have been an avid shortwave listener for over twenty years. I own several receivers in the pursuit of my hobby, all of them solid-state. These receivers pretty well cover the performance spectrum from my portable SONY SW-1S up to the excellent Japan Radio Company NRD-535D. A recent victim of the "nostalgia craze", I decided to acquire a vacuum-tube receiver. I wanted to see what all the fuss was about, and find out first hand how a top-shelf tubester stacked up against its many cold-blooded counterparts. After some research, I decided to buy a Hammarlund, as I had always admired its



looks, features and modest prices. My friend, Paul Montgomery, N6SFC and I spent a lot of time discussing the various models of Hammarlunds that were manufactured. I wanted something that was much "top of the line" and 1960's vintage, so I decided on an HQ-180 series receiver. The HQ-180 appears to be quite popular as they seem to sell quickly when seen in the various classified ads. I preferred to find one in as good a condition as possible as I'm not that experienced in cosmetic restoration. On the other hand, I felt that I could handle any electrical problems that arose.

The difference between the HQ-180 and the 180A weren't significant enough for me to prefer one over the other. (Table #1). Either one would have been suitable for my use, and I was fortunate to come across an HQ-180 with the match-

ing S-200 speaker in excellent condition from a classified ad in the Journal. The receiver arrived intact a few weeks later and appeared to be in excellent as described by the seller. The dial calibration was off considerably and I spent the good portion of two Saturdays to perform a complete alignment. I am quite satisfied with the results and the receiver sensitivity is very good on all bands.

My next task was to add two options to my completely 'stock' receiver. After contacting Robert Fowle of Amateur Radio Surplus **, I was able to purchase a fixed-frequency crystal oscillator assembly that installs in place of the

24 hour clock/time. (Upper left of receiver in photo). This assembly was normally included in the HQ-180AX version or available as a "field installation" kit with the Hammarlund part #9211-00-00002. There is a front panel rotary switch that allows one to select either the radio's internal VFO or up to 11 crystals frequencies (6 external, 5 internal). The crystals can be used for any frequency between 1.8 and 30 mhz. The other add-on I wanted was the Hammarlund Noise Immunizer (or Noise Silencer as it's sometimes called). This was also available as a "field installation"

kit with Hammarlund part #9208-00-00002. It is essentially an I.F. noise blarker that is wired into the receiver's 455 khz section and is usable on AM or SSB/CW signals. I placed an ad in Electric Radio magazine and also in the Ham Trader Yellow Sheets not expecting any results. I figured that this item was going to be difficult to obtain, as not many receivers had them to begin with and most HQ-180 owners I talked with were unaware that it even existed. As luck would have it, a fellow Electric Radio reader called me within a few days of the ad and sold me a brand new unit still in the box! There is a potentiometer to adjust the blanking threshold of the noise spikes present in the received signal. I am very pleased with the silencer's operation. It removed most of the annoying power line buzz so common on the AM broadcast band.

The HQ-180 receiver was considered Hammarlund's top of the line for consumer type radios through most of the 1960s. (The SP600 and the R390A receivers were intended more for commercial and military use). It covers .54 to 30 mhz in 6 separate bands with a calibrated bandspread for the 80-10 meter ham bands. It employs double conversion up to 7.85 Mhz with 455 and 60 KHz I.F. stages, and triple conversion between 7.85 and 30 Mhz with the addition of one 3035 KHz stage. The selectivity is adjustable between .5 and 6 KHz bandwidth. There is a provision for selecting the lower, upper, or both sidebands of a signal for reception. Other operating features include: 4 position AGC control with off, Slot frequency control (notch) for up to 60 dB attenuation of offending heterodynes, vernier passband tuning, 100 KHz crystal calibrator, and a product detector for SSB/CW reception. The receiver incorporates an auto response feature which narrows or widens the frequency response of the audio output circuit according to the incoming signal strength. A strong input signal will have the highest fidelity sound and the audio bandwidth is narrowed as receiving conditions deteriorate, in order to provide the highest signal readability. There is an 18 tube complement (17 in the 180A) including the rectifier and voltage regulator. Antenna connection is by screw terminal or an SO-239 type RF connector. The receiver is contained in a large perforated grey metal cabinet that measures 10.5"H x 19"W x 13"D and weighs 38 lbs.

HQ-180s were produced between 1959 and late 1962 with a last serial number of 6899. It was superseded by HQ-180A production that started with serial number 6900 in 1963 and lasted until 1972.

I want to end this article with a brief comparison of the HQ-180 versus the JRC NRD-535D. The 535 is an excellent receiver with all of the modern operating conveniences that one needs, and I use it as my primary receiver. The HQ-180 on the other hand, has better sound quality, rugged metal construction that is built to last, and a special "Glow in the Dark" appeal to it. It is "timeless" as a classic receiver should be.

Table 1—Changes to HQ-180A over HQ-180 receiver:

1. 5U4GB rectifier tube replaced by 2 solid

state rectifier diodes to reduce heat dissipation and improve voltage regulation.

2. A separate filament transformer to power the H.F. oscillator and 1st mixer tube filaments as long as the receiver is plugged into AC power. (Independent of front panel power switch). The idea was to reduce the amount of warm-up drift when the receiver was first turned on.
3. An accessory socket mounted on the back of the chassis for access to receiver AGC, B+, etc. This is useful for adding a 2 or 6 meter converter, or a Q-multiplier.
4. 500 ohm line output for improved phone patch operation in addition to standard 3.2 ohm speaker output.
5. A 3-position BFO switch that selects a fixed BFO for SSB, variable BFO for CW and an "off" position.
6. A systems accessory socket for transmitter/receiver control. Includes VOX anti-tri and relay connections.

Table 2—HQ-180 Series Receivers

HQ-180	Standard model.
HQ-180C	Includes Telchron 24 hour clock/timer.
HQ-180RC	Rack-mount version with clock.
HQ-180A	Standard "A" model.
HQ-180AC	Includes Telchron 24 hour clock/timer.
HQ-180AR	Rack-mount version.
HQ-180ARC	Rack-mount with clock.
HQ-180AX	Includes 11 position fixed frequency crystal oscillator assembly in place of clock. Also available as HQ-180XE for export that included a 115/230 volt, 50/60hz AC power supply.
HQ-180AXR	As above with rack-mount.

HQ-180 receiver rack-mount was available separately as Hammarlund part #9214-00-00011).


* Rick Krzemien, 5398 Concerto Circle, Concord, CA 94521-3250. (510) 687-2719. The author welcomes correspondence.

** Robert Fowle, Amateur Radio Surplus, 1215 Winifred, Jackson, MI 49202-1946 (517) 789-6721. (Robert specializes in the sales of Hammarlund N.O.S. and used parts, used receivers).

Who's behind that voice?

by Hans Johnson

NASWA members may be familiar with the Voice of Human Rights and Freedom for Iran but I bet not too many are familiar with the organization behind this station: The organization for human rights and fundamental freedoms in Iran (OHRFI). Thanks to extensive handouts provided by the station sent to Richard "Quake" D'Angelo this story can now be told. The organization has five affiliated members: the Flag of Freedom Organization of Iran, the Iranian Youth Solidarity, the League of Iranian Women, the Association for the Advancement of Education in Iran, and the Iranian Students Association. OHRFI is against the present Islamic regime in Iran and wants a "pluralistic society and parliamentary democracy" in Iran. What role a future shah would play in Iran is not made known by the organization but they do send out an Iranian flag sticker from "Shahist" Iran to listeners. OHRFI divides its activities up into three fields: a) covert operations, b) Radio and TV broadcasts, c) Dissemination of information.



ORGANIZATION FOR HUMAN RIGHTS AND FUNDAMENTAL FREEDOMS FOR IRAN

November 30, 1994

AFFILIATED MEMBERS

Flag of Freedom Organization of Iran

Iranian Youth Solidarity

League of Iranian Women

Association for the Advancement of Education in Iran

Iranian Students Association

Dear Sir/Madam

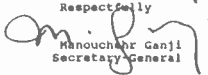
I would like to express our appreciation for informing us of the quality of voice of our radio wavelengths.

At the present time, we are in process of gathering information on the voice quality of our medium and short wave radio programs. We will greatly appreciate your assistance in this respect.

For your information, we are enclosing our wavelength and broadcasting time-table as well as some literature on our organization.

We are looking forward to hear from you.

I wish you Merry Christmas and a very happy new year.

Respectfully

Manouchehr Ganji
Secretary General

ADDRESS: 18 bis, RUE VIOLET ■ 75015 PARIS, FRANCE
IN FRANCE: TEL: (33) - 11 46 93 00 42 ■ FAX: (33) 11 46 93 49 74 ■ TELE: 4110 6 H 633301R

OHRFI's covert operations most dramatically consists of short TV and FM broadcasts made in many Iranian cities over the last five years. By using both large and small balloons, many cities have also been showered with leaflets. The organization also smuggles both film and documentary evidence of Iranian-government human rights abroad.

OHRFI's broadcasts 5.5 hours to Iran a day via "The Voice of Human Rights and Freedom for Iran". You can find their latest schedule in the Listener's Notebook column. Their verification signer is Manouchehr Ganji, Secretary General, and he can be reached 18 bis, rue Violet 75015 Paris, France. Although the station won't say

where it is transmitting from, switching errors over the years have shown that Egypt is one of the sites.

The group also distributes audio and video tapes as well as fax information sheets in Persian, French and English on the current situation in Iran as well as running phone newlines in a number of countries, including the United States. The line in the Washington area starts off with items in Persian after some martial music. The number is (703) 506-8237.

Finally, this group has a lot of money. Some listeners have received as much as 40 French francs (about 8 US dollars) along with their QSLs.



Listener's Library

T. J. "Skip" Arey WB2GHA
P.O. Box 644
Waterford Works, NJ 08089
America Online: TJAREY
Internet: TJAREY@AOL.COM

This month our own Jerry Berg check in again with a review of a new book that deserves a read by everyone with an interest in the world of South American political broadcasting.

REBEL RADIO

by Jose Ignacio Lopez Vigil

240 pages

*\$19.95 + \$3.50 S/H direct from publisher
MC/Visa orders accepted via toll free
telephone 1-800-253-3605*

Available from: Curbstone Press

21 Jackson Street Willimantic, CT 06226

Subtitled "The story of El Salvador's Radio Venceremos," "Rebel Radio" is that story, at least in part. The good news is that the book contains some interesting details about the well-known FMLN wartime shortwave broadcaster which is of interest to the hobbyist. For example, one learns about the station's 50-watt Viking Valiant transmitter and 300 watt outboard amplifier, the 1979 tests from National University, the antennas used, how the station's name was chosen, the move to Morazan province, and the many broadcasts from trenches and caves in the Salvadoran countryside. Occasionally there is a passage that really hits home to SWLs, such as: "We also did good work in Mexico. We even had a PO Box there, 7-907, where we got letters from listeners all over the world, including people who wrote to us from inside the country, since they had no other way to reach us. We announced that box over Venceremos every day. Later on we couldn't keep it because the political situation in the region changed."

The bad news, however, is that the book doesn't offer very much of this kind of information. The war, and not radio, is the book's real focus. It is the story of the events of the war as seen through the eyes of some of those who operated Radio Venceremos. The war's impact on the station, i.e. the moves from one location to another, methods of field reporting, retention of the local support of the population, etc., are well addressed. Basically, however, the book is a rebel view of the war in general, and the sometimes bloody cat-and-mouse game that was played for many

years between the government (the "cuilios") and those associated with Venceremos (the "compas") in particular.

An interesting (if small) part of the book are the six pages of photographs of the Venceremos setup and some of its principal dramatis personae. It looks like a pretty rough-hewn operation. The book's greatest strength is its detailed accounts of some of these personalities: Santiago, the station's longtime anchor man; Apolonio, the Venceremos technician; Commandante Luisa, head of the radio collective; Marvel, a Venezuelan filmmaker who became an important part of the Venceremos operation; Venceremos broadcaster and student activist Evelin ("Butterfly"); Revolutionary People's Army leader Joaquin Villalobos; and others. Some of these are among the names of the station's "personal basico" contained in the veri letter that I received from them in 1982: "Santiago, locutor; Apolo, radio tecnico; Evelyn, locutora," etc. I have to admit that being able to connect the names in a clandestine station's QSL with the faces and true-life experiences behind those names strikes me as a rare treat.

One of the book's major disappointments is the allocation of a mere four pages to the story of the post-war transformation of Radio Venceremos from a clandestine operation to a legitimate FM broadcaster. Surely that must have been one of the most interesting conversions in shortwave history, and an aspect of the story that warrants a closer look. But the book makes no pretense to comprehensiveness, and so perhaps its cursory treatment of this point can be forgiven.

Because the book is more about the ins and outs of the war than the details of the station's operation, I found it slow going. There is a note that a movie on the Venceremos story is forthcoming, and perhaps it will provide the story with a little fillip. In any event, "Rebel Radio" is a useful addition to the available information on this widely-heard station that played an important role in El Salvador's political history.

Thanks again for the review Jerry. Always happy to get your input. Read any good books lately? Why not jot down a few words and let folks here

in the club know what you think. All submissions to Listener's Library are greatly appreciated.

A few Kulpville get-togethers back, Rich Arland K7YHA gave a workshop on Radio Listening "in the field." Since Summer is just around the corner and folks are beginning to think about taking the hobby on the road, I came up with a book that might be useful to folks who are into taking the shortwave hobby along with them.

RV ELECTRICAL SYSTEMS

*A Guide to Troubleshooting,
Repair and Improvement*

by Bill and Jan Moeller

265 Pages

\$19.95

Ragged Mountain Press

Camden, Maine

ISBN 0-07-042778-X

The quest for portable power has always been a subject of discussion amongst folks who like to travel with the radio hobby. Grant it, low power equipment makes consumption curves fairly manageable, but in recent years the amount of equipment folks consider "essential" to the monitoring experience has grown (multiple rigs, accessories, computers, etc.). All those milliamps add up to a drained battery or two. If you are into "heavy camping" (translated as "can't hit the road without the microwave oven") your hobby has to compete with the other necessities of life for that mobile power source.

Bill and Jan Moeller know the subject well. They have depended on their knowledge of portable power for over twenty years. These folks live full-time in a fifth-wheel trailer, traveling around and writing about the subject of RV living. In other words, if the lights go out in their RV they can't head for home, they are home! This knowledge is shared in a readable and instructive form in *RV Electrical Systems*.

The book begins with the basics of electricity followed by extensive chapters on 12 volt DC and 120 volt AC mobile power systems theory. Each subject is explained in detail with practical examples and information on manufacturers and resources. Through this book you learn to take complete control of your portable power systems to assure you always have the juice to get the job done.

The chapter on Solar Power gives an in-depth study of how to use photovoltaic panels to generate more than enough electricity for most radio hobby applications. Personally, I am developing the information culled from this

chapter into a solar power system for my Heathkit HW-8 QRP transceiver. I look forward to entering some contests armed with a "solar powered" point multiplier.

Bill and Jan Moeller show that portable power management involves more than just monitoring an Amp/Hour meter. With a little thought, you can pack enough power to meet all your needs and still get the car started without jumper cables. The cost of a jump start is probably more than the cover price of this book. Knowledge isn't just power, it can save you money too.

SHORTWAVE SIDELINES

Don Schimmel is a fellow radio hobby journalist. He has written for *Monitoring Times*, he currently writes the "Communications Confidential" column in *Popular Communications*. He is also a member in good standing of that notorious group of radio hobbyists known as "The Scanner Scum." His expertise in the area of "questionable" radio communications is shared through the latest edition of his book.

THE UNDERGROUND FREQUENCY GUIDE

*A Directory of Unusual, Illegal and Covert
Radio Communications*

3rd Edition

By Donald W. Schimmel

209 Pages

\$14.95

HighText Publications Inc.

PO Box 1489

Solana Beach, CA 92075

ISBN 1-878707-17-5

In between all of the "legitimate" shortwave broadcast signals that we listen to are hundreds of signals that just don't make sense. I think every SWL has pondered those ubiquitous "numbers stations" at one time or another. Is there a currently active ham who has not run across the communications of a few drug runners? And how many times has your enjoyment of a particular shortwave broadcast been interfered with by a series of chirps, gurgles, foghorns or water drippers? Don is a renowned expert in the radio hobby's various intrigues. This third edition includes the actual transmitter locations for many numbers stations, a description of the Cuban embassy radio network and information concerning a network possibly run by the Soviet embassy in Washington, D.C. These new tidbits are included along with Don's latest list of hundreds of interesting shortwave frequencies. This book is an essential tool for anyone who likes to listen in on those stations that are not likely to publish their QSL information.

THE SONY ICF-SW100S PORTABLE RECEIVER

The Sony ICF-SW100 is an updated version of the micro-miniature SW1 which was first introduced in approximately 1991. The SW100 adds finer tuning steps, SSB reception and selectable sideband synchronous detection - all of which are worthy improvements. The SW100 is, to the best of my knowledge, the smallest "serious" portable receiver currently made, as well as one of the most innovative. This radio is small - with the clam shell case closed, it is just about the size of a standard audio cassette case. The actual dimensions are 4 7/8 x 15/16 x 2 7/8 inches (WxHxD). In use, an approximately 4 1/2 x 2 inch panel flips up (like a laptop computer) to a forty-five degree angle. This action reveals the keypad and most other controls and the flip-up panel contains the lighted LCD display and a 1 5/8 inch speaker.

The SW100 is available in two versions, although only the "S" version is readily available in the United States. The "S" version includes, in addition to the radio itself, an AC power adapter, an active antenna module, stereo "earbud" headphones and a leatherette case for the receiver. Unlike the SW1, there is not a plastic case for the entire system. The "E" version consists of the radio, stereo headphones and a "reel type" external antenna. Street price for the SW100S in the United States is in the \$350 range.

A REAL RADIO

The SW100 has uninterrupted coverage from 150 to 29,999 kHz for AM/SSB reception and 76 to 108 MHz for FM reception. However, medium wave coverage only

extends from 530 to 1620 kHz, so for reception of the extended MW band in the U.S., the SW band has to be used. This is not a major problem, unless one is using the scan function on the upper end of the medium wave band. The basic receiver design is the now standard dual conversion type, with up conversion to a high (55.485 MHz) first IF and a 455 kHz second intermediate frequency. Tuning is via a keypad for direct frequency entry, scanning within pre-defined meter band segments or via up-down slewing buttons. Tuning steps are one or five kHz in AM or sync modes and 1 or 0.1 kHz in SSB mode.

FIFTY MEMORIES

There are also fifty memory channels available for both AM and FM stations. The memory channels are organized into ten "pages" with five memory channels per page. Each page can be labeled with a six character alphanumeric title which is entered via the "Label Edit" function key. Once set up, the memory pages are selected by the "Page Feed" key and individual channels within the page are selected by pressing keys 1 - 5 of the numeric keypad. This is a very practical way to set up memory channels, as it not only serves as a reminder of what's stored in memory, but it allows for storing parallel frequencies for favorite broadcasters and quickly checking for the best frequency at the particular listening time. Memory channels 1 and 2 of page zero are used in conjunction with the timer for "standby" reception. The "ON" time for the standby function can be set according to local time, but there is no provision for setting an "OFF" time. Instead, the radio automatically shuts

off sixty minutes after turning itself on. Similarly, there is a "Sleep" timer function, which shuts the radio off automatically, but the only interval is sixty minutes, unlike some other radios which permit a selection of various intervals.

WORLD TIME CLOCK

The SW100 includes a very deluxe clock feature. By using the tuning buttons the current time in any of the world's 24 time zones can be displayed. In this mode, not only is the time for the selected zone displayed, but the name of a major city in that zone is also displayed. These city names can be changed with the use of the "Label Edit" mode, i.e. instead of "L. A." being displayed when the UTC-7 (Pacific time zone) time is selected, I edited the display to read "RENO". The clock time is set based on local time and this is important for two reasons: one, the standby timer is based on local time and secondly, the tuning step for the MW band (9 or 10 kHz) is selected based on what world region is selected for the local time. This is important to remember if the SW100 owner is traveling overseas. The only mistake that Sony made in the clock design is that the clock display can only be brought up if the radio is turned off - it would certainly be nice to be able to check the time while listening to a program. I really can't imagine that it would be that difficult to have programmed a key sequence to call up the clock display for, say, five seconds while the radio is on.

FEATURES

The SW100S requires 3 volts DC for power - either from two "AA" cells or from the power supply included in the "S" package. The input connector for external power is a microminature coaxial plug type which I have not seen before - not readily available at Radio Shack. I guess this is a good reason for buying the "S" package! The specification page states that a set of alkaline batteries will last for 23 hours in FM mode and 18 hours in AM mode when the radio is used for four hours a day at normal volume. The SW100 has jacks for a stereo headset, line out for connection to a tape recorder (but no jack to turn a recorder on or off with the

timer) and an external antenna jack. There is also a 26" inch whip antenna on the radio itself. The external antenna jack is designed to be used with the AN-100 external active antenna, so 3 volts is present on the jack. If a passive antenna or a non-Sony active antenna is used, it should be coupled to the whip antenna of the SW100 or a DC blocking capacitor could be used in series with antenna lead. According to the instruction manual, the separately available Sony active antennas, the AN-1 and the AN-102, can be connected directly to the SW100's external antenna jack.

There is a small thumbwheel volume control on the right-hand side of the set, along with a tone switch for "Music" or "News". In the "News" position the treble response of the set is rolled off. On the left-hand side of the radio is an attenuator switch as well as a slide switch for master power. There is a separate push-button on-off switch on the control panel as well. The LCD display is very nicely back-lit and all screen information is easily visible in the dark, although the keypad isn't. The back lighting is always on when the external power supply is plugged in (unless the master power switch is off) and when on battery power, the screen is illuminated for approximately 15 seconds when the "Light" button is pressed.

The AN-100 active antenna module included in the "S" package is housed in a plastic case which is the same size as the SW100. It has a 26" inch whip antenna and 12 feet of cable to allow for placement of the antenna in a window. A suction cup with a loop of nylon cord is included to stabilize the antenna when it is stood on a window sill. The cable is stored on a reel within the active antenna case. As previously mentioned, the AN-100 antenna is powered by the radio and requires no batteries of its own. The only control on the antenna is a four position switch which controls a bandpass filter, either wideband, 0.15 - 5.5 mHz, 5.5 - 11 mHz or 11 - 30 mHz. Switching the filter to a range different from that tuned by the SW100 does result in attenuation of the signal, so the switch is more than just cosmetic.

PERFORMANCE

Although the SW100 is diminutive in size, it is certainly not a midget in performance. The audio quality is much better than one would expect from such a tiny speaker, and is even better when headphones are used. I had the initial impression that the unit was somewhat insensitive, even with the included active antenna; however, I had the opportunity to compare it with a Grundig Yacht Boy 400, and the Sony was its equal at all frequencies above 6 MHz. On the 60 meter band the Grundig was noticeably more sensitive than the Sony. The selectivity of the single IF filter is approximately 7 kHz, which is a reasonable value for a portable radio. Adjacent channel selectivity is greatly enhanced by the synchronous detector, which permits selection of the sideband away from a strong adjacent signal. The lock range of the detector is +/- 1 kHz, which allows for "sliding" the filter's passband for greater treble response. When using the active antenna, I did notice some spurious signals from the MW band when listening to ham stations on 80 meters. This was not a problem when using just the set's built-in whip antenna.

SUMMARY

This is not just a "novelty" radio - it is a real performer for those who want the smallest possible travel radio. Its portability is somewhat compromised by the need to carry the indentionally sized active antenna,

although the SW100 works well with its built-in whip for strong international broadcasters. I would not recommend it for those who want a single radio for both home and portable use, as slightly larger receivers offer better sound and at least equal, if not better, performance at a lower price.

There are a few further refinements I would like to see in the SW100. The first of these would be the ability to call up the clock display when the radio is playing. This is a design fault that is shared by other Sony models, such as the ICF-SW7600G. The other change that I would like to see made is the ability to have the headphone cable serve as an antenna, which I understand is the case with some of Sony's Walkman products. Such a feature would be useful because the SW100 will operate with the case closed. With some type of flexible antenna, the SW100 could be a true "shirt pocket" shortwave radio. Without a flexible antenna, the user ends up with two feet of whip antenna poking out of his pocket.

Overall, however, the SW100 is a well-thought out receiver and certainly it is the outstanding performer in its size class. The ability to assign labels to the memory pages is certainly a convenient feature to have when traveling. The sync detector is a very useful addition, especially since the SW100 has only a single bandwidth filter. I would like to thank Universal Radio for providing the review receiver.

FOR SALE: Sangean ATS-803A receiver, barely used, in box with manuals, \$115.00. Sangean ATS-818CS receiver/cassette recorder, barely used, in box with manuals, \$180.00. Sony ICF-2010 receiver in fair condition, \$225.00. MFJ-986 3kW antenna tuner, mint (used only three hours), manual, but no box, \$190.00. Drake TR-3 transceiver, good condition, with D-104 mic and spare tubes, \$240.00. **WANTED:** Drake R-8 or SW-8. Andrew Yoder, P.O. Box 109, Blue Ridge Summit, PA 17214.

FOR SALE: Grundig Satellit 700 receiver in excellent condition. Comes with original manuals, packaging, etc. Purchased new in May 1995. Price \$329.00. Christopher R. Downie, P.O. Box 274, Johnstown, PA 15907. Phone (814) 255-4502.

FOR SALE: Grundig 500 portable in excellent condition with original box, manuals, VHS instructional tape, and Gilfer carry bag. All for \$225.00. Bearcat 20/20 with 40 direct access programmable memory, low, high, UHF, air, marine, 2-meter and box-lit-car mount, \$80.00. Luther Hall, 6160 Hazelwood Ave., Indianapolis, IN 46208. Phone (317) 253-5686

Receivers—What's Best? Part 2

This month we continue our survey of receiver ratings to attempt to determine which radios present the best value for the SWL. If you did not read the June issue of the Journal, I would suggest that you drag out your copy and review the methodology used to calculate Buch's Bang For the Buck (BFB) index. That article also contains the information on where you can find additional review material on these receivers and others.

Table 2 shows the BFB ratings for a number of "porta-top" and table top receivers. All performance ratings have been normalized to a scale from zero to 100 going from worst to best. This normalization permits the results of the different reviewers to be averaged. The BFB index was then calculated using the formula given in Part 1.

These performance ratings have been determined by the BBC, Radio Netherlands (RN), World Radio and TV Handbook (WRTH) and Passport To World Band Radio (PWBR). If you disagree with the performance ratings, write to them, not to NASWA.

Also, if you can find the radios listed at lower prices, you can recalculate the BFB index to account for the lower prices using the formula given in the June issue. Remember that the BFB index should be used only as a guide and that you should consult the original reviews before making any purchase. Their overall ratings may be based on performance parameters that are not relevant to your personal listening situation.

I hope this article fills a need expressed in many letters from our members over the past months. Remember that as new receivers and accessories are released, our own Alan Johnson will review them here in the Journal. If there are some receivers or devices you would like him to review, you can drop him a note at his new Reno, Nevada address. See the masthead on his column.

References: Some aspects of the performance which caused a high or low overall rating might not be important to you. The following publications should be consulted for their full reviews before making a purchase decision:

1995 Passport To World Band Radio and the 1995 World Radio and TV Handbook (available at large book stores and dealers catering to the SWL market. See advertisements for two of the best dealers elsewhere in this issue of the Journal.);

Radio Netherlands Receiver Shopping List, December 1993, (Available free by writing to Radio Netherlands); and,

BBC Worldwide's Worldband Radio Buyers Guide Supplement distributed with the December 1994 issue of BBC Worldwide. (BBC Worldwide is available by subscription from the BBC or individual issues can be purchased at Barnes & Noble Book Stores in the USA.)

That's it for this month. I hope the Summer static isn't too bad. Be patient, Fall will be here soon. Until next time, stay tuned.

Manufacturer	Model #	BBC	RN	WRTH	PWBR	Avg	Price	BFB Index
Drake	SW-8	100	60	60	80	80	600	83
Yaesu	FRG-100	100	80	100	80	86.7	670	84
Lowe	HF-150	100	80	100	80	90	800	75
AOR	AR3030	90	80	80	80	83.3	800	67
Lowe	HF-225	90	80	100	80	87.5	840	68
Icom	R-72E	80	60	80	80	73.3	900	48
Drake	R8	80	80	80	100	85	980	56
Kenwood	R-5000	80	100	100	90	92.5	1210	52
JRC	NRD-535	100	100	100	90	97.5	1430	47
Icom	R-71A	80	80	100	80	86.7	1620	35
Icom	R-9000	100	80	80	90	90	6390	09

Table 2: Calculation of the BFB index for some SW table radios.

Hardware Bits

by Alan Johnson

TEN-TEC KITS—This respected amateur radio equipment manufacturer has recently introduced a line of kit receivers and accessories. Prices appear to be very reasonable - \$49 for a general coverage regenerative receiver which includes a cabinet and internal speaker. To request a catalog, call (615) 453-7172/FAX (615) 428-4483 or write Ten-Tec Kit, 1185 Dolly Parton Pkwy, Sevierville, TN 37862.

COLLINS PROPAGATION SOFTWARE—George Zeller recently wrote to alert me to a new propagation prediction program. The program is the "PropMan" Propagation Resource Manager software for PC compatibles. From George's description, it looks to be a very capable program and the price is less than \$50. Contact Collins Avionics and Communications Division, PropMan Department 120-130, 350 Collins Road NE, Cedar Rapids, IA 52498 or call (800) 321-2223.

MFJ DIGITAL CLOCK—MFJ Enterprises has announced the availability of their MFJ-114 Digital Clock. The noteworthy feature of this new clock is that its red LED digits are 2.3 inches high. The overall clock measures 13 x 6 x 1 inches in a black case with an adjustable viewing angle. The clock uses 120 volts AC and has battery backup. It costs \$39.95 and is available from MFJ Enterprises, P.O. Box 494, Mississippi State, MS 39762 or call (800) 647-1800 to order or (601) 323-5869 for more information.

PALOMAR ENGINEERS' MAGNETIC SWITCH BALUN—I received a press notice concerning this new product from Palomar. It consists of the MSB-3 balun and a control box. The control box sits by your radio and is powered by 115 volts AC. Coaxial cable connects the control unit to the balun and carries the control voltage as well as the radio signal. The balun is to be connected in the middle of a "bent" dipole, i.e. one leg of the dipole is at right angles to the other, either in the vertical or horizontal plane. The control box allows for selection of either dipole leg or both. This allows for some control over antenna directivity. The price is \$135 plus \$6 shipping and handling and does not include antenna wire, insulators or coaxial cable. Palomar Engineers, P.O. Box 462222, Escondido, CA 92029; (619) 747-3343/FAX (619) 747-3346.

WHEN IS AN ANTENNA TOO LONG?—With the recent advent of warm weather here, I was able to finally get up a decent antenna. Within the constraints of my lot dimensions and available trees for support, I decided that a random wire in an inverted "L" configuration would be the easiest design to put up and provide the shortest feed-line run. I was able to put up about 200 feet of wire. Imagine my surprise when local MW stations appeared all the SW spectrum once the antenna was up. These spurious signals disappeared if I engaged the receiver's antenna attenuator, so I assume they were due to front-end overload. Two hundred feet of wire is a resonant quarter wavelength at 1170 kHz, so, if my reasoning is correct, the optimal length for a random wire would be 130 feet (a quarter-wavelength at 1.8 mHz) or less.

Listener's Notebook

Al Quagliari
P.O. Box 888
Albany, NY 12201-0888
CompuServe 75122.74
Internet alcuae@jabalone.net

Chris Lobdell
P.O. Box 146
Stoneham, MA 02180-0146
CompuServe 75720.253

A SURPRISINGLY FULL PLATE for July, a month in which we usually see only dribs and drabs of so-so info. Thanks to the gnomes at BBCM, who spent spring chained to their listening posts in order to bring us much of the data to follow. And, as ever, thanks to all you other generous gnomes who voluntarily shared your DX secrets with us.

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ALBANIA The following *Radio Tirana* schedule has been compiled entirely from monitoring observations. All frequencies are subject to variation by up to 5 kHz.

0000-0500	Albanian	7270 6120 5985
0145-0200	English	7160 6145
0230-0300	English	7160 6145
0630-0930	Albanian	7150 1395
1300-1330	Albanian	7270 6230
1400-1700	Albanian	7270 5985
1600-1615	English	9760 7155
1730-1800	French	9730 7260
1730-1745	Greek	7170 5985
1745-1800	Turkish	7170 5985
1800-1830	German	9730 7260
1800-1830	Italian	7170 5985
1830-1900	English	9730 7260
1830-1845	Serbian	6080
1900-2200	Albanian	9725 6170
2300-2400	Albanian	7270 6120 5985

(BBCM)

BANGLADESH *Radio Bangladesh* sked:

1230-1300	English	9650 7185 7105
1315-1345	Nepalese	9650 7185 4880
1400-1430	Urdu	9650 7185
1515-1545	Hindi	9650 7185
1600-1630	Arabic	13615 9650
1630-1730	Bengali	13615 9650
1745-1815	English*	15520 9560 7190
1815-1900	English	15520 9560 7190
1915-2000	Bengali	15520 9650 7190

* *Voice of Islam* (BBCM)

BOLIVIA *Radio Emisoras Villamontes* 4599.34 noted 1026-1039 w/program "*Amanecer Chaqueño*." (Takayuki Inoue Nozaki/Relampago DX)

BOSNIA-HERCEGOVINA *Radio Bosnia-Herzegovina*, the Sarajevo-based station operated by the Bosnian government, has recently been making changes to its shortwave relay. On 27th May it was heard on 7105 kHz from a new AM transmitter. Prior to that date it had been operating off channel, on

around 7108.1 kHz (variable), from a transmitter radiating in USB plus carrier mode. The station continued to be heard on 7105 kHz until 1200 on 30th May, when it was observed to have reverted to 7108 kHz USB. However, by the morning of 31st May it was back on 7105 kHz. It may be noted that the frequency of 7105 kHz is currently used for broadcasts in Serbo-Croat by *Deutsche Welle* at 0645-0820. (BBCM)

BULGARIA *Radio Bulgaria* latest:

0000-0030	Bulgarian	11720 11660 9700 9415
0030-0100	Bulgarian	11660 9415
0100-0200	Spanish	11815 11660 9415
0200-0300	Bulgarian	7265 5905
0215-0300	Turkish	7115 5890 Mo-Fr
0300-0400	French	11720 9700
0400-0430	Greek	7115 5890 Su-Fr
0400-0500	Greek	7115 5890 Su
0400-0500	English	11720 9700
0430-0500	Albanian	7115 5890
0500-0600	Serbo-Croat	7115 5890 Mo-Fr
0500-0630	Turkish	7115 6000 Sa-Su
0500-0545	German	11720 9700
0600-0700	French	11635 9700
0630-0900	Serbo-Croat	5890 Su
0630-0730	Albanian	5890 Sa
0730-0900	Serbo-Croat	5890 Sa
0800-0900	Greek	7115 6000 Su
1000-1100	German	15185 11860
1130-1230	English	17625 15635
1200-1500	Bulgarian	9700 6100
1400-1500	Russian	9775 7125
1500-1600	Bulgarian	15635 11660
1500-1800	Bulgarian	9775 7125
1500-1545	Serbo-Croat	6100 5890
1545-1630	Albanian	6100 5890
1600-1645	Arabic	11660 9440
1615-1700	German	11720 9700
1630-1715	Greek	6100 5890
1700-2000	Bulgarian	9850
1700-1800	French	11720 9700
1715-1800	Serbo-Croat	7135 6100

1715-1800	Turkish	7355 5890	1100-1200	Cantonese	15260 15205 12015 11945
1800-1900	Bulgarian	6100 5890			
1800-1900	German	11720 9700	1100-1130	Esperanto	9480 6955
1800-1900	Russian	9775 7125	1100-1300	Korean	5965
1900-1945	Albanian	6100 5890	1100-1200	Mongolian	5850 5145
1900-2000	English	11720 9700	1100-1200	Russian	7820 7110 6140
1915-2015	Spanish	13625 9670	1100-1200	Vietnamese	9945 9550
1945-2030	Greek	6100 5890	1130-1200	Burmese	11780 9880 6550
2000-2100	French	11720 9700	1130-1200	Tagalog/EE	15135 11445 6995
2000-2045	Italian	9850 7355	1130-1230	Thai	7350 6590
2015-2100	Arabic	13625 11660	1200-1300	Cambodian	11780 9440 6550
2030-2115	Serbo-Croat	6100 5890	1200-1300	Chinese	15260 15205 12015 11945
2100-2200	English	11720 9700			
2100-2200	Spanish	13625 11660	1200-1300	English	15440 11795 11660 9715 9655 8425
2115-2200	Italian	6100			
2300-2400	English	11720 9700	1200-1300	Mongolian	5850 5145 4883 4815
2300-2400	Spanish	11660 9415	1200-1230	Tagalog/EE	15135 12110 11445 8660
(BBCM)					
CANADA	6029.96 <i>CFVP</i>	1202 in the clear after R. Marti sign-off at 1200. Fading fast and in the dirt by 1225. Note how they are a bit lower than nominal 6030. (11June/Johnson/Jihad DX)			
CHINA	<i>China Radio International</i>	full sked, including relays			
0000-0100	English	11715 9710	1200-1300	Vietnamese	9945 9550
0000-0030	Hakka	15400 12015 11685 9440 6140	1230-1330	Laotian	7350 6590
			1230-1330	Malay	15135 11445 8660
0000-0100	Russian	4883 4815	1300-1330	Burmese	9880 6550
0000-0100	Spanish	11445 9945 9370	1300-1400	Chinese	15260 15205 12015 11945
0030-0100	Chaozhou	15400 12015 11685 9440 6140	1300-1400	English	15440 11660 9715 7405
			1300-1330	Esperanto	11840 11600
0030-0100	Portuguese	12055 11500	1300-1500	Korean	5965
0100-0200	Cantonese	12055	1300-1400	Russian	7820 6140 5850 5145 4883 4815
0100-0200	Spanish	17755B 13685G 11650 9945	1300-1400	Vietnamese	9945 9550
0200-0300	Chinese	15435 12055	1330-1400	Burmese	9880 6550
0200-0300	Spanish	17775B 11650 9945 9690E 9370	1330-1430	Indonesian	15135 11445 8660 6995
0300-0400	Chinese	9730G	1330-1430	Thai	7350 6590
0300-0400	English	11715 9710 9690E	1400-1500	Amoy	15260 15205 12015 9440 6550
0300-0400	Spanish	15445B	1400-1500	Cambodian	9440 6550
0300-0400	Russian	15435 11755 11515	1400-1500	English	11815 7405
0400-0500	English	11680 9730G	1400-1500	Mongolian	5850 5145 4883 4815
0500-0600	English	9595C	1400-1430	Sinhalese	11780 11600
0830-0930	Indonesian	17680 15600 15135 6995	1400-1430	Tamil	11575 9457v
			1400-1430	Turkish	9480 6955
0900-1000	Chinese	15205 15180 15100 12015 11945 11695 9945 9480 6590	1400-1500	Vietnamese	9945 9550
			1430-1530	Laotian	7350 6590 6010
0900-1000	English	15440 11755	1430-1500	Sinhalese	11780 11600
0930-1530	Japanese	9855 7190	1430-1500	Tagalog/EE	15135 11445 8660
0930-1030	Malay	17680 15135 6995	1430-1500	Tamil	11575 9457
1000-1100	Cantonese	15100 9945	1500-1530	Bengali	11600 6995
1000-1100	Chinese	15205 12015 11945 6590	1500-1600	Chinese	11910 9457v 6550
			1500-1600	English	11815
1000-1100	English	15440 11755	1500-1600	Hindi	11675 9920 7590
1000-1100	Russian	11980 7820 7110 6140 5145	1500-1530	Nepalese	11445 9625 6590
			1500-1530	Pashto	11575 9700
1030-1130	Cambodian	11780 9440 6550	1500-1530	Persian	9440 6955
1030-1130	Indonesian	15135 11455 6995	1500-1600	Russian	11650 7375 5145 4883 4815
			1500-1600	Vietnamese	9945 9550
			1530-1600	Bengali	6995
			1530-1600	Nepalese	11445 9625 6590
			1530-1600	Pashto	11575 9700
			1600-1700	Arabic	15540 9440

1600-1700	English	15110 11575 4130	2100-2200	Spanish	7360 6933
1600-1700	Hakka	11600 9900	2130-2230	French	11790 9820 7800 7350 7335
1600-1700	Hindi	11675 9920 7180 6995			
1600-1700	Russian	9965 9945 7470 7375	2130-2200	Hungarian	9845
1600-1630	Swahili	9457v 7335	2200-2300	English	9880
1600-1630	Turkish	9785 7480	2200-2230	Portuguese	11650 6950
1600-1630	Urdu	11690 11445 9675 7590	2200-2300	Spanish	13685 7360 6933
			2230-2330	Chinese	15400 12015 11790 11685 9440 6140
1600-1700	Vietnamese	7360 6590 6010			
1630-1700	Swahili	9457v 7335	2230-2300	Esperanto	11515 9480
1630-1700	Urdu	11690 11445 9675 7590	2300-2400	Russian	4883 4815
			2300-2400	Spanish	15120 11445 9945
1700-1800	Cantonese	11695 9900	2330-2400	Amoy	15400 12015 11685 9440 6140
1700-1800	English	11575 9535 7405			
1700-1800	Russian	11650 9945 9655 7470 7375 6950	2000-2030	Chinese	6165S
			2000-2030	German	3985S
1700-1730	Swahili	15110 11790 9455	2030-2100	French	3985S
1730-1830	Chinese	9820 7800 7350 7335	2030-2100	Serbo-Croat	6165S
1730-1800	Hausa	15110 11790	2100-2130	English	3985S
1800-1900	German	9920 6950	2100-2130	Spanish	6165S
1800-1830	Hausa	15110 11790 7405 7235	2130-2200	Italian	3985S
			2130-2200	Portuguese	6165S
1800-1830	Hungarian	9945 7385 6933	2300-2400	Spanish	11875M
1800-1830	Persian	12065 11515 9440			
1800-1900	Russian	9765 9655 7375			
1830-1930	Arabic	11790			
1830-1900	Bulgarian	9985 9945 7385 6933			
1830-1930	French	9820 7800 7350 7335			
1830-1900	Italian	9965 7470 7405 4960			
1830-1900	Persian	11515 9440			
1900-1930	Albanian	9965 7470			
1900-1930	Czech	7375 6933			
1900-2000	English	11515 9440			
1900-2000	German	9920 7732 6950			
1900-1930	Portuguese	11445 9900			
1900-1930	Romanian	9985 9945 7160			
1900-2000	Russian	9655 9365 7600			
1900-1930	Turkish	7405 4960			
1930-2000	Albanian	9985 9965 7470 7405 4960			
1930-2000	Czech	9845 7375			
1930-2030	French	9820 7800 7350 7335			
1930-2000	Portuguese	15110 9685			
1930-2000	Romanian	9985 9945 6933			
2000-2100	Chinese	11445 7660			
2000-2100	English	15110 9920 9440 6950			
2000-2030	Esperanto	9965 7470 7405 4960			
2000-2030	Polish	9845 7375 6933			
2000-2100	Russian	9655			
2000-2030	Serbo-Croat	9945 9365 7385			
2030-2100	Bulgarian	9945 9845 7385			
2030-2130	French	9820 7800 7350 7335			
2030-2100	Hungarian	9365 6933			
2030-2100	Italian	9965 7470			
2030-2100	Polish	7405 7375 4960			
2100-2130	Albanian	9845			
2100-2200	Arabic	11515 9440			
2100-2130	English	15110 9920 6950			
2130-2200	English	9920 6950			
2100-2130	Italian	9965 9365 7470			
2100-2130	Serbo-Croat	9945 7405 4960			
			0100-0200	Cantonese	5950
			0100-0200	Chinese	17845 15215
			0100-0200	Japanese	15345 11745
			0200-0300	English	15345 11825 11740 9680 7130 5950
			0200-0300	Spanish	17845 15125
			0300-0400	Amoy	11915 7130
			0300-0400	Cantonese	11740
			0300-0400	English	15345 11825 11745 9680 5950
			0400-0500	Chinese	15345 15270 11825 9680 7130 5950
			0400-0500	Spanish	11740
			0500-0600	Cantonese	15345 15270 11915 11825 9680 5950
			0600-0700	Indonesian	11915 11825 7130
			0600-0700	Spanish	5950
			0600-0700	Thai	15345 15270
			0700-0800	Chinese	7130
			0700-0800	English	5950
			0900-1000	Chinese	15345 15270 11915 11745 9610 7445
			1000-1100	Amoy	15345 15270 11745 9610 7130
			1000-1100	Cantonese	11915 7445 7285
			1100-1200	Cantonese	15270
			1100-1200	Hakka	15345 11850
			1100-1200	Japanese	11745 7130
			1200-1300	Chinese	15270 11745
			1200-1300	English	9610 7130
			1200-1300	Indonesian	15345 11850

B=via Brasil C=via Sackville, Canada E=via Spain
G=via Montsinery, Guyana M=via Mali S=via Switzer-
land (BBC & Nagoya DX Circle via NewsplusAustra-
lian DX News)

**CHINA (TAIWAN) Voice of Free China complete
sked:**

1300-1400	Cantonese	15345 11915
1300-1400	Japanese	11745 7130
1400-1500	Amoy	11745 7130
1400-1500	Hakka	15345 11915
1500-1600	Thai	9610 7130
1500-1600	Vietnamese	15345 11915
1705-1805	Russian	9955
1900-2000	Chinese	21720 17750 9955
1900-2000	German	9610
2000-2100	Arabic	15270 9955
2000-2100	French	21720 17750 9610
2100-2200	German	21720 17750
2100-2200	Spanish	15270
2200-2300	English	21720 17750
2200-2300	Thai	15345 7445
2300-2400	Spanish	17805 15130

(BBCM)

CIS Voice of Russia, the Moscow-based external service station, has resumed broadcasting in Swedish. Broadcasting in Swedish and seven other languages ceased on 5th April. (BBCM)

Earlier this year, **Voice of Vietnam** broadcasts were being relayed via a transmitter near Armavir, to the northeast of the Black Sea (in English at 0400-0600 on 5940 kHz and in Spanish at 0600-0700 on 7400; in Vietnamese at 0700-0800 on 7270 kHz. **VOV** has expanded its use of Russian relays. The station is now announcing that it broadcasts half-hour programs in English at 0100, 0130, 0200, 0230, 1000, 1100, 1230, 1330, 1600, 1800, 1900, 2030 and 2330 on 15010, 9840 and 7250 kHz. Observations on 7250 kHz have confirmed the English broadcasts at 0100-0230, which appear to replace the transmissions at 0400-0600 and are assumed to be beamed to North America. At 0230 on 7250 kHz there is a **Voice of Vietnam** broadcast in Spanish, not English. These transmissions at 0100-0300 on 7250 kHz are believed to emanate from a transmitter in Russia. This transmitter closes at 0300, but what may well be the same transmitter is then heard on 7260 kHz at 0300-0400 with a **Voice of Vietnam** broadcast in Spanish. The nine transmissions announced for later in the day (1000-2330) are all existing **Voice of Vietnam** broadcasts in English. However, in the past they were all only broadcast from transmitters in Vietnam. (BBCM)

Voice of Armenia

0800-0830	French	15270 15170 Su
0830-0900	English	15270 15170 Su
1500-1530	Azeri	11960 9675 7480 4810 Mo-Fr
1530-1600	Georgian	11960 9675 7480 4810
1600-1630	Kurdish	11960 7480 4810
1630-1700	Persian	11960 9675 7480 4810
1700-1730	Russian	11960 9675 7480 4810
1730-1745	Turkish	11960 9675 7480 4810 Mo-Fr
1730-1800	Turkish	11960 9675 7480 4810 Sa-Su
1745-1800	English	11960 9675 7480 4810 Mo-Fr
1800-1900	Armenian	11960 9675 7480 4810

1900-2000	Arabic	11960 9675 7480 4810
2000-2030	French	11920
2000-2200	Armenian	11960 9675 7480 4810
2030-2100	English	11920

(BBCM)

Radiostantsiya Belarus broadcasts in German and English consist of various religious programs including "*Die Antwort*" (Postfach 767, CH-1701 Freiburg, Switzerland) and "*Radiofenster*" in German, and "*Bible Focus*" (PO Box 205, Doncaster, DN10 6LZ, UK) in English. Some frequencies may be relayed from transmitters in Russia and Ukraine.

1800-1900	Belarussian	11960 11840 7210 5905 Th-Fr
1830-1900	German	11960 11840 7210 5905 Su
1830-1900	English	11960 11840 7210 5905 Tu
1830-1900	German	11840 7210 5905 We/Su
1845-1900	Polish	11960 11840 7210 5905 Mo

(BBCM)

Sked for **Radio Moldova International:**

0030-0100	Romanian	9540
0100-0125	English	9540
0130-0155	Spanish	11775
0300-0325	Russian	7215
1100-1125	Spanish	17805
1200-1230	Romanian	15315
1230-1255	English	15315
1300-1325	Spanish	15320
1330-1355	French	15320
1400-1425	English	11580
1800-1825	Russian	9655
1900-1925	French	11580
1930-1955	English	11580
2000-2025	Spanish	7245

(BBCM)

Radio Dniester's latest sked in EE: Mon, Wed and Sat on 9620, 11270 (yep, 11270) and 15290 from 2030-2100. Repeated the next days at the same time. (Aio RJMR via Johnson/ Jihad DX)

Sked for **Radio Ukraine International** compiled entirely from recent monitoring observations. Note that frequency usage is highly variable.

0000-0030	English	11950 11780 9750 4825
0000-0100	Ukrainian	9560 7285 7240 6090 6020 6010
0030-0100	English	11950 11780 9750
0100-0200	Ukrainian	11875 9750 9560 7405 7285 7240 6090 6020 6010
0200-0230	Ukrainian	11590 9860 9750 9685 7405 7285 7240 7195 6020 6010 5960 5940
0230-0300	Ukrainian	11590 9860 9750 9685 7405 7285 7240 7195 6020 5960 5940

0300-0400	English	9860 9835 9685 7405	1500-1530	Ukrainian	21800 15550 15265
0300-0330	Ukrainian	13720* 11980* 11825 11590 9640 7285 7240 6020			15135 13720 13690 11705 9640 7405 7205 6020
0330-0400	Ukrainian	13720* 11980* 11825 11590 9640 7285 6020	1530-1600	Ukrainian	21800 15550 15265 15135 13720 13690 11705 9640 7405 6020
0400-0500	Ukrainian	21800 13720 13690 11980 11825 11705* 11590 9860 9835 9685 9640 9510 7405 6020	1600-1700	Ukrainian	21800 15550 15380 15265 15135 13720 13690 11840 11705 9640 7405 6020 4920
0500-0600	Ukrainian	21800 13720 13690 11980 11825 11705 9860 9835 9640 9620 7405 6020	1700-1800	German	21800 15550 15380 15135 13720 13690 11840 11705 9640 7405 7180 6020 4920
0600-0700	Ukrainian	21800 13720 13690 11980 11825 11705 11590 9835 9640 9620 7405 6020	1800-1900	Ukrainian	15550 15265 15135 13720 11705 7405 7180 6020 6010 4920
0700-0730	Ukrainian	21800 13690 11980 11825 11705 9860 9835 9640 9620 9510 7405 6020	1900-2000	Ukrainian	13720 11950* 11840 11780* 6090 6020 6010 5905 4920
0730-0800	Ukrainian	21800 13690 11980 11825 11705 9860 9640 9620 9510 7405 6020	2000-2030	German	15265 11950 11875 11780 9750 7285 7240 7180 6130 6090 6010 5905 4825
0800-0830	Ukrainian	17655 13690 11980 11825 11740 11720 11705 9860 9640 9620 7405 6020	2030-2100	German	15265 11950 11875 11780 9750 7285 7240 6090 6010 5905 4825
0830-0900	Ukrainian	17655 13690 11980 11825 11720 11705 9860 9640 9620 7405 6020	2100-2200	English	11950 11875 11825 11780 11610 9750 9560 7285 7240 6090 6020 6010 5905 4825
0900-1000	Ukrainian	21800 17655 13720 13690 11980 11825 11705 11590 9860 9685 9640 9620 9510 7405 6020	2200-2300	Ukrainian	11950 11875 11825 11780 9750 9560 7285 7240 6090 6020 6010 4825
1000-1100	Ukrainian	21800 17655 13690 11980 11825 11705 9640 9620 7405 6020	2300-2400	German	11950 11875 11780 9750 9560 7285 7240 6090 6020 6010 4825
1100-1130	Ukrainian	21800 17655 15265 15135 13690 11980 11825 11705 7405			
1130-1200	Ukrainian	21800 15265 15135 13690 11980 11825 11705 9620 7405			
1200-1300	Ukrainian	21800 15550 15265 15135 13720 13690 11980 11825 11705 9640 7405			
1300-1400	Ukrainian	21800 15550 15265 15135 13720 13690 11980 11825 11705 9640 7405 6020			
1400-1500	Ukrainian	21800 15550 15265 15135 13720 13690 11980 11825 11705 9640 7405 6020			

(BBCM)

CLANDESTINE-ASIA During a recent visit to North Korea, a member of the Asian Broadcasting Institute was able to confirm the location of one of the transmitters used by the *Voice of National Salvation* [which broadcasts from North Korea to the south]. According to an investigation by the South Korean authorities, this clandestine station has transmitters in Pyongyang, Haeju [southwest North Korea] and Wonsan [east North Korea]. Of these three locations, the Japanese DXer was able to confirm the presence of the Wonsan transmitter, which is on a hill in Wonsan City. This transmitter is used on 3480 kHz. (21-May/Radio Japan "Media Roundup"/BBCM)

CLANDESTINE-MIDEAST The broadcast of the "Organization for Human Rights and Fundamental Freedoms for Iran" uses Egyptian txers. Mailing address: 18615, Rue Violet, 75015 Paris. FAX: Paris 48258178 and others in Germany. Telephone: in 14 cities in Europe and America. Los Angeles: 818-792-

4726. Listed and reported sked, all programs in Farsi, jammed from Iran:	0000-0200	Spanish	15230 11970 11875 11760 9820 9550 9505 6180 5965
0230-0423 9270 9380 9482 11470 (three freqs at any one time)	0200-0400	Spanish	15230 11970 11875 11760 9550 9505 5965
0600-0637 9270 15150	0400-0500	Spanish	15230 11875 11760 9550 9505 5965
1630-1823 9380 11470 9270	0100-0200	English	9830U 6000

OHRFFI also gives 1545-1620, heard on 9255 14157 11470. Station used old Communist songs as its signature tune, and has the name "*Voice of the Human Rights and Freedom for Iran*", with ID announcements in EE and FF at the start of each broadcast. (Newsplus—Australian DX News)

V.O. Human Rights and Freedom for Iran (pres.), 0250-0422* on 9380. Heard //11469.67 and 9270 but badly distorted audio. (Alexander 6/4 FT 787 via Valko/Jihad DX) Was heard in Ramstein 8th June on 15150 kHz opening at 1545 UTC with interval signal and ID in English, French and Farsi, followed by political talks in Farsi. It was weakly jammed, and more heavily QRM-ed by cochannel R Netherlands. Ex 14170 kHz? (Petersen)

Voice of Rebellious Iraq (Arabic: *Sawt al-Iraq al-Tha'ir*; Kurdish: *Dangi Iraqi Shurashgar*) supports the Iran-sponsored Shi'i Supreme Assembly of the Islamic Revolution in Iraq (SAIRI) under Muhammad Baqir al-Hakim and is hostile to the current Iraqi government.

0230-0500	Arabic/Kurdish	6360-6600v	
1200-1430	Arabic/Kurdish	6030-6070v	
1500-1730	Arabic/Kurdish	6360-6600v	(unconfirmed)

(timing varies—may be at 1600-1830)

The station currently announces the following addresses: PO Box 36802, Damascus, Syria; PO Box 11365/738, Tehran, Iran; PO Box 37155/146, Qom, Iran. (BBCM)

BBCM previously reported the domestic service of Iraqi radio around 1600 on 15133 kHz. Further checks have proved this station to be the Iraqi opposition station which mimics Iraqi government radio by using the same station identification—"*Republic of Iraq Radio from Baghdad*." The opposition station has been heard recently on a frequency (13675) used at other times by United Arab Emirates (UAE) Radio in Dubai. Station also noted around 1600 on 15133 and 9570 kHz. (When "*Republic of Iraq Radio*" began broadcasting, in January 1991, it announced that it was using the facilities of the official radio stations of Egypt, Syria and the member states of the Gulf Cooperation Council, GCC. The UAE is a member of the GCC.) (BBCM)

CROATIA *Croatian Radio* broadcasts in English and Croat from 2200-0500 on 13830, 7370 and 5895 kHz. Each hour begins with 10 minutes of news in English. (BBCM)

CUBA Here's the current sked for *Radio Havana Cuba*, not including spurs:

0000-0030	Quechua	15340
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0200-0400	Spanish	15230 11970 11875 11760 9550 9505 5965
0400-0500	Spanish	15230 11875 11760 9550 9505 5965
0100-0200	English	9830U 6000
0200-0400	English	9830 9820 6000
0400-0500	English	9830U 9820 6180
0500-0700	English	9820
0200-0230	Creole	6180
0230-0330	French	6180
0330-0400	Creole	6180
1100-1200	Spanish	11875 11760 9550 6000
1200-1300	Spanish	11875 11760 9550 9505 6000
1300-1400	Spanish	11760 9550 9505 6000
1400-1500	Spanish	11760 9505 6000
2000-2100	Arabic	15230
2000-2100	French	11705
2000-2100	Portuguese	11760
2100-2200	English	11705
2100-2300	Spanish	15220 11760 9820U
2130-2200	Creole	6180
2200-2300	English	11960U 6180
2200-2300	Portuguese	15340
2300-2400	French	9820U 6180
2300-2400	Guarani	15340
2300-2400	Portuguese	11970

CYPRUS *Cyprus Broadcasting Corporation* broadcasts from the BBC Relay station near Limassol. Sked is 2215-2245 on 9760, 7205 and 6180 kHz on Fr-Su only, with programs in Greek. (BBCM)

ECUADOR Here's *HCBJ* schedule J95C, revised 1 June:

0000-0030	French	12005
0030-0500	English	9745
0115-0130	Tajik	11635 Su-Th
0130-0147	Uzbek	11635 Su-Th
0147-0200	Russian	11635 Su-Th
0200-0400	Russian	11635
0400-0430	Russian	11635 Fr-Sa
0400-0430	Georgian	11635 Su-Th
0430-0500	Japanese	9765
0430-0500	German	6205
0500-0515	Portuguese	9765 Sa-Su
0500-0515	Kikongo	9765 Mo-Fr
0500-0530	Czech	12025
0500-0700	English	9745
0500-0700	Russian	11615
0515-0600	Portuguese	9765 Mo-Fr
0530-0600	Portuguese	12025 Su/Mo/Tu/Th
0530-0600	Nordic	12025 We/Fr/Sa
0600-0630	German	12025
0630-0700	French	12025
0700-0830	English	11615
0700-1130	English	6135

0730-0930	Portuguese	6125
0830-1330	Quechua	3220 6080
0900-0930	Quechua	6110
0930-1000	German	6110
1000-1100	Quechua	6110
1030-0504	Spanish	6050
1030-1130	Russian	9415
1030-1500	Spanish	11960
1100-1500	English	12005
1130-1200	Japanese	9415
1130-1430	English	15115
1200-1300	Spanish	9415
1330-2100	English	6080
1430-1600	English	15115
1500-0500	Spanish	15140
1500-1800	Portuguese	15295
1700-2000	English	15490
1800-1830	Czech	15520
1830-1900	German	15520
1900-2000	Arabic	15520
2000-2030	Portuguese	15520 Su/Mo/Tu/Th
2000-2030	Nordic	15520 We/Fr/Sa
2030-2100	French	15520
2100-0300	Quechua	3220 6080
2100-2130	German	15520
2130-2200	Arabic	15520
2200-0030	Quechua	9745
2200-2300	Spanish	15520
2200-2300	Japanese	11615
2300-2400	German	11635
2300-0230	Portuguese	11615

HCJB also broadcasts 24 hours per day in upper sideband on 15540 (30 kw) and 21455 kHz (1.5 kw) in a variety of languages. (Direct)

TWR-Brazil's programs are no longer being carried via **HCJB**. (McVicar WOR via Johnson/Jihad DX)

ERITREA According to *Voice of the Broad Masses of Eritrea*, here are the various powers on their transmitters: 3970 and 7380 khz 10 kW, 5000 and 7020 khz 2 kW. (Stell Pop Com July via Johnson/Jihad DX)

ETHIOPIA 9705, *Radio Ethiopia*, 0358-0445, tuned in to childrens chorus. Talk in lang. at 0400. Poor w/co-channel QRM. //7110.05 w/good signal, and //9560 w/co-channel Taiwan. Apparently 9560 is no longer used by *V.O. Peace* at 0400. (Alexander 6/4 FT 787 via Valko/Jihad DX)

GERMANY *Deutsche Welle* is to cease all SW svces to northern, western, and southern Europe. Coverage of those areas is to be via satellite, with 350 contacts having been signed in Europe, and 600 worldwide, to small public and private radio stations. (RVI DX pgm via BCDX/Newsplus—Australian DX News)

GREECE 9375, *V.O. Greece*, *0557-0630, New freq here, //9425 and 11645. (Alexander FT 787 via Valko/Jihad DX)

INDONESIA

2370	New RRI station at Ende
2904.58	<i>R PDT2 Ngada</i> noted until 1425v*, relay Jakarta nx @12 and 1300
3146.29	<i>RSPDT2 Jalmahera Tengah</i> noted 1409
3214.82	<i>RRI Manado</i>
3222.93	<i>RRI Mataram</i> ex-3223
3243	<i>RRI Ambon</i> ex-3241
3295.23	<i>RRI Samarinda</i> reactivated
3304.81	<i>RRI Dili</i>
3384.96	<i>RRI Kupang</i>
4719	<i>RRI Ujung Pandang</i> —currently off the air, to be reactivated later in 1995.
4765.92	<i>RRI Medan</i>
4845.21	<i>RRI Ambon</i> reactivated again
4910.38	<i>RRI Bukittinggi</i> reactivated
5046	<i>RRI Yogyakarta</i> has been off the air for over 12 months. TXer has been modified for use in MW. Hopefully, 5046 will be back on the air later in 1995.
5984.28	<i>RRI Tual</i> from 1209-1500
6025	<i>RRI Banjarmasin</i> , new outlet

(Newsplus—Australian DX News plus Takayuki Inoue Nozaki/Relampago DX)

7231.1 *RRI Fak Fak* presumed—composite log from several days monitoring. Music programs prior to 1100 and 4+1 time pips at 1100 and then presumed local news. Different types of music programs are heard prior to 1200. Sometimes they play SCI prior to 1200 and sometimes they don't. (09June+/Johnson/Jihad DX) Them for certain. 4789.06 outlet formerly used for local morning transmission (around 2000) not noted lately. (Takayuki Inoue Nozaki/Relampago DX)

IRAN *Voice of the Islamic Republic of Iran*—only frequencies confirmed by recent observations:

0030-0130	Bengali	11965 9575
0030-0130	English	9022 7260 7180 6175
0030-0130	Spanish	9685
0130-0230	Spanish	9685 9022 7260 7180 6175
0230-0330	Arabic	9022 7260 7180
0230-0330	Spanish	6175
0330-0730	Arabic	11930 11910 9525 7180 7130
0430-0530	Turkish	11790 9540
0530-0630	Spanish	15260 11790
0630-0730	French	15315 15260 11790
0930-1130	Arabic	15260 13605 11745
1130-1230	English	17750 15260 11930 11875 11790 11745 9735
1230-1400	Azeri	9735
1230-1330	Pashto	11930 11875 11790 11745
1330-1400	Malay	17885 15260
1330-1430	Urdu	11930 11875 11790 11745 7180
1400-1500	Russian	11960 11875 9735
1430-1530	Bengali	17750 15260 11875 11745

1430-1530	Pashto	11930
1530-1630	English	17750 15260 11875
1530-1630	Russian	9022 7260
1530-1730	Urdu	11930
1630-1730	Swahili	11740 9685
1630-1730	Turkish	9735 9022 7260
1700-2130	Arabic	9665 7190 7180 6025
1730-1830	German	9022 7260 7115
1830-1930	French	9022 7260
1830-1900	Serbo-Croat	11715 9650
1930-2030	English	9022 7260
1930-2030	Russian	7115 6175
2030-2130	Spanish	9022 7260 6175
2130-2230	Arabic	9022 7260 6025
2130-2230	English	6175
2230-2330	French	9022 7260 6175

(BBCM)

ITALY Letizia Moratti, president of state broadcaster **RAI**, says "We want to play a major role in the new global information village.... We are particularly active in the construction of the global information village." [Note: Perhaps they're designing the sofas and lighting fixtures for the "global information village;" no apparent efforts seems to have been made lately to enliven (or even resuscitate) their overseas broadcasts.—AQ]

JORDAN For what it's worth, here's **Radio Jordan's** latest schedule (subject to immediate change):

0000-0200	Arabic	11935 11805 7180
0300-0500	Arabic	15290-(fm 0305) 11810 9630
0500-0715	Arabic	15290 11835 11810
1000-1200	Arabic	15355 15215
1100-1200	English	15170
1200-1500	Arabic	17800 15215 11705
1400-1630	English	15270
1530-1700	Arabic	12000 11945 9610
1700-1800	Arabic	9830 9610
1800-2000	Arabic	11740 9830 9610
2000-2100	Arabic	11740 7180
2100-2400	Arabic	7180

(BBCM)

KOREA, NORTH 6070 is a new frequency for **Radio Pyongyang** at 1125. //7580 and also on new 6520. All in Japanese, the former mixing with Toronto. (Johnson/Jihad DX)

LEBANON The rundown for **Voice of Hope** and affiliated stations at Marj Uyun:

Voice of Hope/King Of Hope/Prince Of Peace:

0400-0800	Arabic	6280
0800-1100	English	6280
1100-1600	Arabic	6280
1600-1900	English	6280
1900-2100	Arabic	6280
2100-0100	English*	6280

*Gene Scott

Wings Of Hope:

0400-0800	English*	9960
0800-1100	English	9960
1100-1300	Arabic	9960
1300-1500	English	9960
1500-1530	Persian	9960
1530-1630	English	9960
1630-1700	Georgian	9960
1700-1730	Uzbek	9960
1730-1830	Arabic	9960
1830-1900	RR/Turk/Ukr	9960
1900-2100	English	9960
2100-0200	English*	9960

(BBCM)

[Suggestions for future affiliated stations: **King of Peace**, **Voice of Wings**, **Prince Of Kings**, **Wings of Gene Scott**—AQ]

MADAGASCAR For Z95, **Deutsche Welle** relays over Radio Netherlands (Madagascar) are

0500-0550	Portuguese/FF	11765
0900-0950	English	17780

(WorldWide DX Club/Newsplus—Australian DX News)

MALAWI The nation's minister of information, broadcasting, posts and telecommunications, Hon. Brown Mpinganjira, has said that the government will [this year] provide the **Malawi Broadcasting Corporation [MBC]** with new high frequency [short-wave] transmitters. (BBCM)

MONACO Trans World Radio schedule to Europe, North Africa & Middle East:

0500-0515	Kurdish	11635
0515-0530	Polish	9490 7105
0640-0805	English	7115
0805-0820	English	7115
0830-0845	German	7160 6230
0830-0845	Hungarian	9490 7385 Tu-Sa
0845-0900	Slovak	12075 9490
0845-0900	Czech	12075 9490 Th/Sa
0845-0915	German	7160 6230 Su
1005-1020	German	7160 6230 Mo-Sa
1030-1045	Czech	12075 9490 Su
1030-1100	Slovak	12075 9490
1100-1145	Hungarian	9490 7385 Su
1130-1155	English	7115 Sa-Su
1230-1245	Croatian	7255 Fr-We
1230-1245	Serbian	7255
1245-1300	Slovenian	7255
1245-1315	Macedonian	7255
1245-1315	Croatian	7255 Mo-Fr
1330-1400	German	7160 6230
1400-1415	Hebrew	11760 9490 Th-Tu
1415-1445	Russian	9500
1445-1500	Kurdish	11835
1445-1530	Russian	9500
1500-1515	Armenian	12080 9445
1500-1530	Polish	9490 7105
1515-1530	Slovak	7115
1515-1530	Czech	7115 Mo/Tu/Th/Fr

1515-1530	Armenian	12080 9445 Mo-Fr
1530-1545	Ukrainian	9445 7385
1530-1600	Czech	7115 Mo-Fr
1545-1615	Ukrainian	9445 7385
1600-1630	Hungarian	7115
1630-1700	Farsi	13815 12085
1715-1730	Lithuanian	11805
1730-1800	Romanian	9445
1730-1815	Russian	11635 9475
1800-1815	Bulgarian	9445 We-Su
1815-1830	Russian	11635 9475
1930-2000	Kurdish	9490
1930-2000	German	7160 1467
1930-2000	Turkish	9490

(Nikolay Pashkevich—Russia/Alexander Ageenkov—Russia/Internet)

MONGOLIA Here's the latest for *Radio Ulan Bator*.

Good luck!:

0300-0330	English	12000 9960
0910-0940	English	12000 9960
0945-1015	Russian	12085 9960 Sa/Mo/We/Th/Sa
1020-1050	Mongolian	12085 9960
1050-1120	Chinese	12085 9960
1120-1150	Japanese	12085 9960
1200-1230	Japanese	12085 9960 Su
1250-1320	Mongolian	9950 7293 990
1330-1400	Chinese	9950 7293 990
1410-1440	Russian	9950 7293 Mo/Tu/Th/Fr/Sa
1445-1515	English	9950 7293
1700-1730	Russian	7530 4080 Su/Tu/We/Fr/Sa
1930-2000	English	7530 4080

(BBCM)

NAMIBIA Wow! This is the first time I think I've ever seen a complete sked for the *Namibian Broadcasting Corporation*.

NBC Service 1:

0700-1700	4965
1700-0700	3290

Programs:

0000-0500	All Night Service
0500-0900	National Radio (Mo-Fr)
0500-0900	Afrikaans (Sa-Su)
0900-1000	German (Su)
0900-1000	Afrikaans (Mo-Fr)
1000-1200	Afrikaans (Su)
1100-1200	German (Mo-Sa)
1200-1600	Afrikaans (Mo-Fr)
1300-2000	Afrikaans (Sa)
1600-2000	German (Su)
1600-1700	National Radio (Mo-Fr)
1700-2000	German (Mo-Sa)
1900-2000	Afrikaans (Mo/Fr)
2000-2400	National Radio

NBC Service 2:

0500-0700	3270
0700-1700	4930
1700-2010	3270

Programs:

0500-0630	Otjijherero (Sa/Su)
0630-1100	Damara>Nama (Sa/Su)
0900-1230	Otjijherero (Mo-Fr)
1100-1400	Otjijherero (Sa-Su)
1230-1600	Damara>Nama (Mo-Fr)
1400-1700	Damara>Nama (Sa-Su)
1600-1700	National Radio (Mo-Fr)
1700-1830	Otjijherero
1830-2010	Damara>Nama (Mo-Fr)
1830-2010	Otjijherero (Sa-Su)

(BBCM)

NEW ZEALAND 3935 *ZXLA* now signs off as late as 1100 Monday through Friday. (Cushen RNZ Mbag via Atkins via TLC) Per Martin in OZDX, they're on till 1200 now. (Valko/Jihad DX)

NIGER *Voix du Sahel* schedule, compiled entirely from monitoring observations. There may be variations at weekends; in the past the station has extended its broadcasting hours on Saturday. At various times of the day the station splits into two services to carry separate news bulletins in local languages. Programming is mostly in French, with occasional public announcements and news in Arabic, Fulfulde, Hausa and Zerma. English is broadcast from 2000-2030 on Sundays only (unconfirmed).

0430-0700	5020
0700-1100	7155
1100-1400	9705 7155
1700-2203	7155 5020

(BBCM)

PALAU *KHBN-Voice of Hope Asia* sked:

0800-1100	Chinese	9830
1100-1130	Vietnamese	9830
1130-1200	Korean	9830
1200-1400	Chinese	9830
1200-1900	EE/Hindi/Tag	9965
1400-1430	Korean	9830
1430-1530	Vietnamese	9830
2000-2330	Chinese	15140
2330-0100	English	15140

(BBCM)

PARAGUAY *AWR* has received word that the Paraguayan government has approved its application to construct a shortwave station near the capital city of Asuncion. The project, for which property has already been identified, will consist of two 50-kW shortwave transmitters for coverage of the South American continent. "The plan also calls for broadcasts on mediumwave and FM, but approval has not yet been granted for these two stations," said *AWR* President Walter Scragg. He added that "construction at the site will not proceed until either the FM or mediumwave licence is granted." (Adventist World Recorder/BBCM)

PERU

- 4746.78 *Radio Huanta 2000* from *1002 (Takayuki Inoue Nozaki/Relampago DX)
 5275.56 new *Estacion NC*, Nueva Cajamarca around 1013.(Takayuki Inoue Nozaki/Relampago DX)
 6201.18 *LV de Huamanga* is indeed the one here around 1013. (09June/Valko/Jihad DX)

PHILIPPINES FEBC Radio International:

0000-0200	English	15450
0115-0130	Burmese	15465
0130-0145	Meitei	15465 Mo-Fr
0130-0145	Kuki	15465 Sa-Su
0145-0200	Ao Naga	15465 Sa-Su
0200-0215	Karbi	15465 Su
0200-0215	Zoukam	15465 Sa
0500-0900	Chinese	12020
0800-0830	Sasak	11995
0830-0900	Javanese	11995
0900-1400	Chinese	9400
0900-1000	Indonesian	11995
0930-1100	English	11690
1000-1030	Chinese	9475
1000-1030	Minangnese	11995
1015-1045	Indonesian	15095
1030-1100	Swatow	9475
1045-1115	Aceh	15095
1045-1100	Khmu	11995
1100-1130	Hmong	11690
1100-1130	Zhuang	9475
1115-1145	Vietnamese	15095 9795
1145-1345	Vietnamese	9795
1130-1330	Cantonese	9475
1130-1200	Laotian	11690
1145-1230	Burmese	15095
1200-1300	Cambodian	11690
1230-1400	Burmese	15095
1300-1600	English	11995
1330-1400	Amoy	9475
1345-1400	Mien	9795
1400-1430	Burmese	15095
1400-1600	Chinese	9475 9400 5890
2200-2400	Chinese	5890
2230-2315	Cambodian	9495
2230-2330	Indonesian	9780
2230-2300	Laotian	9875
2300-2315	Akha	11650 Sa-Su
2300-2330	Hmong	9875
2315-2330	Lahu	11650
2315-0015	Vietnamese	9495
2330-0115	Burmese	15465
2330-2345	Wa	11650
2345-0030	Shan	15520

(BBCM)

Radio Pilipinas:

0230-0330	English	21580 17865 17760
1730-1930	Tagalog	15190 11890 11720

(BBCM)

ROMANIA Radio Romania International:

0000-0100	Spanish	11940 9570 9510 6155 5990
0100-0130	Portuguese	11940 9570 9510 6155 5990
0130-0200	Romanian	11940 9570 9510 6155 5990
0200-0300	English	11940 9570 9510 6155 5990
0300-0400	Spanish	11940 9570 9510 6155 5990
0400-0430	English	11940 9570 9510 6155 5990
0430-0500	Ukrainian	7195 6090
0500-0530	Hungarian	7105 5955
0530-0600	English	17790 17745 15340 15250 11810
0600-0645	Multilingual	11810 9665 9550 7225
0645-0745	English	17805 17720 15335 15250 11775
0715-0815	Romanian	17790 15370 15335 Su
0815-0915	Romanian	17790 17720 15380 15335 Su
0915-1015	Romanian	11970 11810 11775 9665 9590 9570 Su
1130-1200	French	15390 15365 15335 11940 11885 11775
1200-1230	German	15365 11940 11775 9690
1230-1300	Arabic	15390 15340 15250 11940 11830 11740
1300-1400	English	17720 15365 11940
1300-1330	Romanian	11775 9510
1330-1400	Russian	15250 11775 9570
1400-1430	Arabic	15390 15340 15250 11830 11740
1400-1430	Turkish	9665 9510
1430-1530	English	17720 15335 11775
1430-1500	French	15390 15340 11830
1500-1530	Persian	15250 11940
1500-1530	Ukrainian	7195 5995
1530-1630	Arabic	15390 15340 11940 11830 11740
1530-1600	Italian	9510 7195
1600-1630	Turkish	9510 7225
1630-1700	French	11970
1630-1700	German	11940 9690 9510 7225 11775
1630-1700	Romanian	11775
1700-1730	Persian	15250 11940
1700-1730	Russian	9665 9510 7225 7105
1730-1800	English	17805 15365 15340 11830
1730-1800	Romanian	11840 11830 9510
1800-1900	German	11940 9690 7195
1800-1830	Portuguese	17805 15365
1830-1900	Russian	9665 9510 7225 7105
1900-2000	English	11940 11810 9750 9690
1900-1930	French	15255 11830
1930-2000	Spanish	15250 11970 11790

2000-2100	French	11940 11830 9750 9690
2000-2030	Romanian	11790 9510
2030-2130	Spanish	15250 11970 9750
2100-2200	English	11940 9690 9570 7195
2130-2230	Portuguese	15250 11970 9750
2200-2300	Spanish	11940 9510
2230-2300	Romanian	11830 11775 9750 9570
2300-2400	Romanian	11940 11830 11810 9750 9570

(BBCM)

THAILAND *Radio Thailand*—Transmissions marked with an asterisk are from the *Voice of America* relay station at Udon Thani in Thailand. Other frequencies are from *Radio Thailand's* own transmitters.

0000-0030	English	11905 9680* 9655
0030-0100	English	11905* 9655
0100-0200	Thai	11905 9655
0300-0330	English	11905 11890* 9655
0330-0430	Thai	11905 11890* 9655
1100-1115	Vietnamese	11905 9655 7285*
1115-1130	Cambodian	11905 9655 7285*
1130-1145	Lao	11905 9655 6040*
1145-1200	Burmese	11905 9655 6040*
1200-1215	Malay	11905 11805* 9655
1215-1230	Indonesian	11905 11805* 9655
1300-1315	Japanese	11905 9655 7145*
1315-1330	Chinese	11905 9655 7145*
1330-1400	Thai	11905 9655 7145*
1800-1900	Thai	11905 9655 7200*
1900-2000	English	11905 9655 7200*
2000-2015	German	11905 9755* 9655
2015-2030	French	11905 9755* 9655
2030-2045	English	11905 9755* 9655
2045-2115	Thai	11905 9755* 9655

(BBCM)

USA KVOH—Voice of Hope sked:

0000-0230	English	17775
1300-2400	Spanish	17775

(BBCM)

Following the closure (in November 1994) of the *Voice of America* transmitting station at Bethany, Ohio, *Radio Marti* (the Cuban radio service of the US Information Agency) was now being relayed via a hired transmitter at *WHRI* (World Harvest Radio International in Indiana). *Radio Marti* is currently being transmitted via *WHRI* at 0200-0500 (not Sundays or Mondays) on 9495 kHz. It was noted that previously at the same time and on the same channel *WHRI* carried the "La Voz de la Fundacion" program from the Cuban-American National Foundation (an anti-Castro group) and the frequency was already jammed. "La Voz de La Fundacion" continued to be relayed by *WHRI* at 0000-0200 on 9495 kHz (i.e. immediately before the *Radio Marti* relay). The *Radio Marti* relay via *WHRI* was believed to have started in early May. (28-May/Hauser "WOR"/WWCR/BBCM)

Reports in the 'York Dispatch' of Pennsylvania and the 'Baltimore Sun' state that the recent suspension of *WINB* broadcasts was the result of a dispute between station owner John H. Norris, 74, and a manager at *WINB*, who had been dismissed. It was reported that *WINB* would return to the air after a three-month break for repairs. (30-Apr and 21-May/Hauser "World Of Radio"/WWCR/BBCM) [Wonder how the owner discovered it was off the air...AQ]

WVHA—World Voice of Historic Adventism sked:

0400-0430	Russian	7465 Sa
0430-0500	German	7465 Sa
1100-1130	German	13770 Su
1130-1200	English	13770 Su
1300-1400	Spanish	15745 Su/Tu/Th
1500-1700	English	15665
1700-1800	Spanish	13720 Tu/Th
1700-1730	Russian	13720 Sa-Su
1730-1800	German	13720 Sa-Su
1800-1900	Spanish	13720 Sa

(BBCM)

WWCR now on 7435 from 1100-1400, ex-5075. (Hauser WOR via Johnson/Jihad DX) [Can we get an "amen"?—AQ]

WYFR sked:

0000-0100	English	6085
0000-0100	Hindi	11550T
0000-0100	Spanish	9715
0100-0500	English	9505 6065
0100-0200	Portuguese	17725 15130
0100-0300	Spanish	15170 5985
0100-0500	Spanish	11855 9715
0300-0500	English	9505 6065
0300-0400	Russian	9985 7355 5890
0300-0500	Spanish	5985
0400-0500	English	9370
0400-0500	German	11580
0400-0500	Portuguese	15170
0400-0500	Russian	9985
0500-0600	Arabic	15170 13695
0500-0700	English	5985
0500-0600	English	11580 9985
0500-0600	German	9370 7355
0500-0600	Spanish	11855 9705
0600-0800	English	13685 9985 7355
0600-0700	French	15170 13695 9370
0600-0700	Italian	11725 11580
0700-0800	Italian	11725 9370
0800-0900	Portuguese	11770 9605
0800-1000	Spanish	11855 9550
0900-1000	Portuguese	11770 9625 9605 6175
1000-1100	English	5950
1000-1100	French	11970 9625
1000-1300	Spanish	11970 6085
1000-1100	Spanish	11855 9550 6175
1100-1200	English	11830 5950
1100-1300	French	13695
1100-1200	Spanish	11725 9605
1100-1200	Spanish	15130 6175
1102-1605	Chinese	9280T 5275T

1200-1300	English	17750 11830 6015 5950	1800-1830	Russian	7165 6100
1200-1400	Spanish	15145 15130 11725	1830-1900	English	9720 6100
1300-1400	English	17750 13695 11830 6015 5950	1900-1930	Spanish	7220
1300-1400	Spanish	6085	1930-2000	Serbian	7230 6100 M-F
1300-1400	Spanish	15355 15130 11725	2000-2030	German	6100
1302-1502	English	11550T	2030-2100	French	6100
1400-1500	English	17750 11830 6015	2100-2130	English	6185 6100
1400-1500	Spanish	15130	2300-2330	Spanish	11835 9720
1500-1700	English	17750 11830 11705	2330-2400	Serbian	11870 9580
1502-1602	Hindi	11550T			(BBCM)
1505-1705	Russian	9955T			
1600-1700	Arabic	15695			
1600-1700	English	21745 21525 21500			
1700-1800	Arabic	21525			
1700-1900	English	21745 21500			
1700-1800	German	15695			
1700-1800	Russian	21720 17750			
1800-1900	French	21720 21525 17750			
1800-1900	Italian	15695			
1900-2000	German	21500 15695			
1900-2000	Portuguese	21525			
2000-2100	French	21500 15695			
2100-2200	Chinese	9280T 6300T			
2100-2200	Italian	15695 11835			
2200-2300	Chinese	9465T 9280T 6300T			
2200-2300	Portuguese	15130			
2200-2300	Spanish	15695 11835			
2200-0100	Spanish	5985			
2300-2400	Chinese	11550T 9465T 6300T			
2300-0100	French	15170			
2300-2400	French	6085			
2300-0100	Portuguese	17725			
2300-0100	Spanish	17845 17750 15215			

YUGOSLAVIA *Radio Yugoslavia* uses two short-wave transmitting stations, one at Stubline in Serbia and another at Bijeljina in a Serb-occupied area of northeast Bosnia-Herzegovina. Because of the unstable situation in the region, in particular in Bosnia-Herzegovina, it has not been possible to confirm the current operational status of either of these stations. (For more details see reports in WBI/0042 of 1994 and WBI/0004, 0009 and 0017 of 1995). The transmitters at Bijeljina also used to carry external service broadcasts from *Serb Republic Radio*. Sked:

0000-0030	English	11870 9580
0430-0500	English	11870 9580
1430-1500	Arabic	15175 11800
1500-1530	Russian	11870 11755
1600-1630	French	15175 9620
1630-1700	German	9505 7215
1700-1715	Albanian	6100
1715-1730	Bulgarian	6100
1730-1745	Hungarian	6100
1745-1800	Greek	6100

ON THE SOAPBOX A large part of assembling this column is transcribing and sorting a great many broadcasting schedules. It's at once hilarious and dismaying to see so many broadcasters (including some of the big guys) presenting needlessly complicated schedules. Broadcasting in a crowded spectrum, facing poor propagation, and lacking any effective international frequency coordination, it's understandable that shortwave broadcasters must constantly make revisions to their times and frequencies.

This does not account for the byzantine program skeds offered by many stations. I always wonder when I see lines like this:

0417-0521 Swahili 15295 11882U Tu/Fr/+Sa
only during leap years

You can leaf back through this month's column for other fine examples. Who can be bothered to remember all that?

DX'ers and hobbyist SWLs can be expected to make the extra effort to keep track of a favorite program on a particular station. But what casual listener is going to bother to remember that his or her favorite program (or language) is broadcast—except during soccer season—from 5:15 pm to 5:27 pm on 9999 kHz on Mondays, Thursdays, Saturdays, and Sundays—with Sundays only in months ending in “ber”?

Broadcasters will no doubt respond that they can only use transmitter X at certain times of the week, or that they only have one announcer who speaks Urdu and can't make that person work seven days a week. Those are valid points. But assembling convoluted program schedules is not the answer to these or any other problems. If you can't broadcast something every day, then do it once a week, same time every week. Make programs begin and end at conventional times. Remember that the object is to make listening as simple as possible, not to send us on scavenger hunts.

It's hard enough for those of us into shortwave to follow the bouncing schedules. The effort must seem futile to less-informed, less-concerned listeners. Who could blame them for giving up altogether?

—Al Quaglieri



Pirate Radio Report

Chris Lobdell
P.O. Box 146
Stoneham, MA 02180-0146
CompuServe 75720,253

Hello and welcome to the first edition of THE PIRATE REPORT. A brief introduction is in order. I'm a 43 year old DXer and BAD GUY who first joined NASWA in 1968 and I've been a member ever since. Besides pirate radio, I enjoy listening to Latin American stations, especially from the Andean regions. My receivers include an NRD-525, Hammarlund HQ-180AX and a Hallicrafters SX-62A.

A Brief Pirate Radio Primer

Although many of you are already familiar with shortwave pirates, some may not be. Pirates operate without licenses in violation of FCC regulations which could result in fines and equipment seizures if they are caught. Most operate with low power, usually no more than 200 watts on weekend afternoons, nights and holidays. Broadcasts last usually no more than an hour. Modes of operation include the standard AM, but more and more pirates are using either upper (USB) or lower (LSB) single sideband.

For many years, the popular pirate frequency was 7415 kHz, give or take a few kHz, but now that we have domestic powerhouses operating on both 7425 and 7435 kHz, and the VOA on 7405 kHz, many pirates are using new frequencies. The so called 43 meter band (6940-6980 kHz) which had been used in the early 1980s has regained popularity, especially from 6955 to 6965 kHz. Other frequencies noted within the past few months are 6875, 7375, 7405 and 7465 kHz. When pirate hunting, be sure to tune around these areas.

Many pirates welcome mail and are excellent QSLers. In order to remain protected from the FCC, they use maildrops to receive their reports. The maildrop operator then forwards your mail to the operator. In the past few years, the number of maildrops has increased dramatically. In a future edition of THE PIRATE REPORT, we'll explore this in more detail.

That's a brief overview of pirate radio. In future editions of THE PIRATE REPORT, we will focus on different aspects of the hobby. What would you like to see in this column? Please drop me a line or E-mail me a message and let me know. Your input will drive this report!

Pirate Profile: Up Against the Wall Radio

Up Against The Wall Radio started life as a studio pirate in June of 1994. In August, a 100 watt transmitter was purchased and UATWR has aired a new program monthly since then with no plans to cease. Our station was active in last summer's "Shortwave Liberation" and the New Year's Eve "Pirate Radio Insanity". We've also relayed other stations and have been relayed by KIWI in New Zealand. We currently operate on the 43 meter band around 6957 kHz in the USB mode.

We QSL 100%, and although we do understand the "QSL Whore" mentality of some DXers, we greatly appreciate comments on our programming. Besides our normal cards, UATWR has produced 3 QSLs on a DOS computer disc. They require an SVGA monitor and a soundblaster card for support. As far as we know, we're the only station providing digital QSLs of this type.

Our station motto is "Total Personal Freedom Coupled With Complete Personal Responsibility". Our comic skits and sound effects attempt to reinforce that concept while at the same time, try to entertain. Our current maildrop address is: Box 28413, Providence, RI 02908.

Your editor would like to thank UATWR operator Owsley for submitting this interesting profile. Until next month 73 and good pirate hunting!



CLANDESTINE: Voice of Human Rights and Fundamental Freedoms for Iran 11470 personal ltr. in 2 wks. v/s Laila Amir. Addr: 18 Bis, Rue Violet 75015 Paris. (Field-MI).

11/11/ARCH. 22/15/VOL. 1
1061



HR.

RICHARD S. DAVIS
117 COLORADO DRIVE
PO BOX 58, NEW MEXICO 88130,
UNITED STATES OF AMERICA.

Dear, Mr. Davis,

Thank you very much for your letter dated 2nd July, 1993.

All the details on which you have sending to us we are very much appreciated.

We are once again thank you and we hope that we can hear something more from you.

Sincerely yours,

(Handwritten signature)
Yusuf O. Ghunda
DIRECTOR
DEPT. OF INFORMATION &
ZANZIBAR.

COLOMBIA: Radio Nacional de Columbia 4955 n/d cd. in 5 wks. for a SP rpt. (Field-MI). f/d cd. in 3 mo. for a SP rpt. v/s Jimmy Garcia Camargo, Director. (Barto-CT). Same in 62 ds. w/ ltr. in SP. (Pasquale-PA). 11785 p/d cd. in 58 ds. for \$1.00. (Paszkiewicz). **Caracol Bogota** 6150 p/d cd. w/ sticker in 100 ds. for \$1.00. (Paszkiewicz)

COSTA RICA: Radio For Peace International 7385 f/d cd. w/ ltr. in 7 wks. for 2 IRCs. (Jones-SD). **Radio Exterior de Espana** 5970 f/d cd. in 2 mo. (Barto). cd. w/ schedule in 3 mo. (Barto). **U.N.**

Radio 9400 via **RPFI** f/d "World Map" cd. in 1 wk. w/ schedule. (Field).

CUBA: Radio Habana 9830 f/d cd. w/ schedule in 3 mo. v/s Loudes Lopez, Corres. Dept. (Kusalik). f/d cd. in 106 ds. for 1 IRC. (Weissborn). 13700 f/d cd.

w/ personal ltr. in 246 ds. (Humenyk-NT)
CYPRUS: CYBC 7125 f/d "Studio and Building" cd. in 111 ds. (Humenyk-ONT).

CZECH REP: OLX Check Numbers Station 8142 and 11002 2 f/d cds. in 62 ds. for \$1.00. (Kusalik-ALB).

VERIFICATION SIGNERS: Radio Gulf 3245 Robbin Wainetti, Provincial Program Manager. **Radio Northern** 3345 Roma Tererembo, Assistant Provincial Program Manager. **Radio Eastern** 3395 I. Yanam, Technical Manager. **NBC Port Moresby** 9675 Miss Francesca Maredei, Secretary. **Radio Western** 3305 Mr. Geo Gedabing, Provincial Program Manager. **Radio Manus** 3315

Form with fields for name, address, and a stamp that says "MIT LUFTPOST PAR AVION".

Handwritten notes:
M. A. S. Wallace
L. W. J. W. J.
M. S. O. P. S. T. S. J. J.
U. S. A

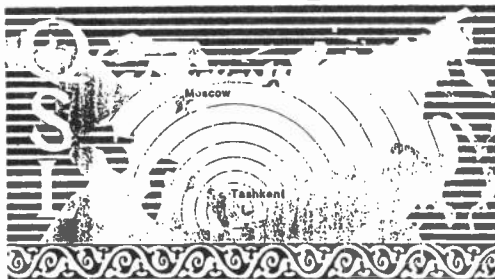
John P. Mandrakam, Acting Provincial Program Manager. **Radio West New Britain** 3235 Ruben Bale, Provincial Program Manager. **Radio Riga** 5935 Fogita Cinnus. **King of Hope** 6280 Paul Johnson, Station Manager. **Radio Lesotho / BPC Relay Station** 11940/3255 Mr. Tom P. Hardcastle, Senior Engineer. Addr: British High Commission, P.O. Box 521, Maseru. **Radio Malaysia** 15295 Hajjah Wan Chikothman....via PLAY DX.....Sam.

Radio Ropa Info 5980 f/d cd. in 65 ds. via GM address. v/s R. Jobelius. (Paszkiewicz).

DOMINICAN REP: Onda Musical 4774.9 p/d ltr. in 50 ds. for a SP rpt. and \$1.00. v/s Mario Baez Asuncion, Director-Administrator. (Martin-CA).

ECUADOR: HCJB 9745 f/d cd. w/ sked. and ltr. in 1 mo. for 2 IRCs. (Jones-SD). f/d cd. in 49 ds. (Weissborn). 15295 and 17790 f/d

Radio Tashkent



"Variety to Spare" cd. in 3 mo. w/ calendar and ltr. (Barto-CT). **Radio Quito** 4920 f/d prepared cd. w/ pamphlet and stickers in 102 ds. for a SP rpt. and ms. (Klinck-NY). n/d cd. w/ stickers in 110 ds. for a SP rpt., tape, used stamps and \$1.00. (Washburn-ME). **Escuelas Radiofonicas Populares del Ecuador** 5010.3 p/d 2 page computer generated ltr. in 58 ds. for a SP rpt. and ms. v/s Juan Perez Sarmiento, Director Ejecutivo. I also rcvd. agricult-



CARACOL

ural stickers mentioning that they produce vegies grown w/o chemicals. I love it as I am an organic farmer! (Martin-CA).
Radio Stereo Carrizal 3260 p/d ltr. w/ photo and business cd. in 1 mo. for a SP rpt. and \$1.00.

v/s Ovidio Velasquez Alchundia. (Grace-DC).

EUROPEAN RUSSIA: Voice of Russia 5940 via Arnavir f/d cd. in 106 ds. (Humenyk). f/d "Peoples Friendship" cd. in 6 wks. (Barto). 6110 f/d cd. in 10 wks. (Ondrechen-MA). 11675 via Kenga f/d cd. in 3 mo. (Barto) 11980 via Serpukhoy f/d "Kremlin" cd. in 3 mo. (Barto). 5905 via Kalin-grad f/d cd. in 156 ds. for 3 IRCs. v/s Mikhail Timofeyev. (Paszkiel-wicz). 9890 via St. Petersburg f/d cd. in 53 ds. (Humenyk). 13370 via Kazan f/d cd. in 3 mo. This freq. was QSLed in 1988 as RKU72 w/ site as Moscow. (Barto). 9820 via St. Petersburg f/d cd. in 143 ds. w/ GPR-2 sked. (Kusalik). Golos Russia 5905 via Kaliningrad f/d cd. in 143 ds. (Kusalik). Radio Rossii 12045 via Popovka f/d cd. w/ sked. in 5 wks. (Barto). * RWM 9996 Russian State Time Signal Station f/d yellow/white cd. in 64 ds. for 2 IRCs. (Kusalik-ALB).

WRFW

RADIO FREE WISCONSIN

CONFESS! HAS PESSED UP TO HEARING US ON 111.7 FM, AT 03:11 UTC ON 3-30-1995. I LOOK FOR US AGAIN ON 40 METERS, ASSUMING OUR TRANSMITTER DOESN'T HAVE A MELTDOWN!

NOTES: Jill Dybka checks in with some illustrations for the Column. Her semester is over and she is looking forward to some good DXing...Thanks for the postcard of the Grand Ole Opry...Sam. Denis Pasquale has sent out some taped reports to LNBS, Radio Cora and Radio Nacional Colombia. Hope they answer. They should...Sam. Terry Jones writes us from Plankinton, SD. He works for a construction company and is usually on the move in the summer months. He says that he encloses postcards with his reception reports. Local flavor items such as postcards of Indian art works go over quite well. Its always good to send something of interest with the reports. Good going...Sam.

GREETINGS TO LISTENERS
 Q. S. L. CARO
 SRI LANKA BROADCASTING
 CORPORATION
 COLOMBO 7, SRI LANKA



Confirming your reception report of our transmission on frequency 15425 KHZ in the 19 Metre Band at 0120 - 0400 hrs GMT on EVERY DAY
 Thank you for your report.
 Yours sincerely,

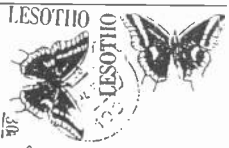
POST CARD

via Ross Comeau

GERMANY: Bayerischer Rundfunk 6085 p/d "Rainbow" cd. w/ station brochure in 23 ds. for \$1.00. (Dybka-TN). Radio Bremen 6190 f/d cd. in 2 1/2 wks. Personal note and stickers were rcvd. (Schwartz). Sudwestfunk 7265 p/d cd. in 2 wks. for a GM rpt. and a phone call! GHANA: GBC 3366 f/d cd. (Schwartz) in 2 mo. for 1 IRC. (Pappas-SD). GREECE: Voice of Greece 17520 f/d "Halkioiki Macedonia" cd. w/ schedule in 156 ds. (Humenyk). Radio Station Makedonia 9935 via Thessaloniki f/d "Tower w/ Headphones" cd. in 96 ds. w/ stickers. v/s D. Keremides. (Field-MI). Director of Engineering. (Humenyk-ONT).

GUAM: KSDA 9530 f/d cd. w/ sticker, pennant and schedule in 2 wks.
HUNGARY: Radio Budapest 5970 via Diods f/d cd. in 39 ds. (Humenyk-ONT). 6110 f/d "National Costume" cd. in 66 ds. (Humenyk). 7220 via Szekesfehervar f/d cd. w/ sticker and schedule in 114 ds. (Humenyk). 5965 f/d "Budapest" cd. in 142 ds. (Pasquale-PA).

We thank you for your report on the reception of our transmission from LANCERS GAP (100kw)



Date: 18/04/95
 Time 0455-0530 GMT UT
1255-130 Local
 Frequency — 337 metres 60 metres

Richard E. Hankison
 3209 W. 77th Street,
 Etairie Village, KS 66208

891 KHZ 4800 KHZ
 LESOTHO NATIONAL BROADCASTING SERVICE

ICELAND: ISBS 13860 f/d cd. in 20 ds. for 2 IRCs. (Martin-CA).
INDIA: All India Radio 11620 via Bangalore f/d "Camel Races in Jaisalmer" cd. in 207 ds. w/ schedule. (Humenyk-ONT).

ISRAEL: Kol Israel 11603 f/d cd. in 103 ds. w/ schedule. (Humenyk). 15640 f/d cd. in 23 ds. for 1 IRC. (Pappas).

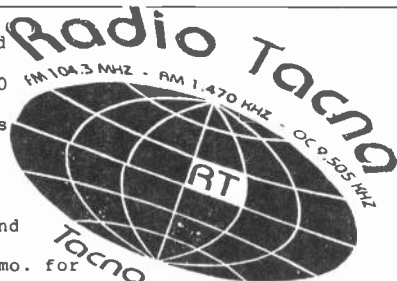
ITALY: RAI 17780, 21710, 21535 and 21520 f/d cd. in 2 mo. (Barto). 15340, 9710 and 11800 f/d "Tramonto" cd. in 5 wks (Barto). 17870, 15320 and 9710 f/d "Fontana del Quattro Piumi" cd. in 5 wks. w/ schedule. (Barto-CT).

KOREA, PEOPLES REP. OF: Radio Pyongyang 11700 f/d cd. in 7 wks. w/ pennant and ltr. (Schwartz).

LIBERIA: ELWA 4760 f/d folder cd. in 5 mo. for \$1.00. (Ondrechen-MA).

MALAYSIA: Voice of Malaysia 9750 f/d "Logo" cd. in 2 mo. (Grace-DC).

MOLDOVA: Voice of Russia 7105 via Kishinyov f/d "Kosmos Hotel" cd. in 106



VERIFICATION SIGNERS: Radio Southern Highlands 3275 Andrew Meles, Provincial Program Manager. Radio La Oroya 4905 Jacinto M. Figueroa Yauri, Director. Addr: Ap. 88, La Oroya. Radio Tropical 4935 Miss Mery A. Rengifo T., Secretaria de Gerencia General. La Voz de La Selva 4825 Mrs. Julia Jauregui Rengifo, Directora. Radio Tarma 4775 Mario Monteverde Pumareda, Gerente Geral. Ondas del Huallaga 3330 Flaviano Llanos M., Representante



Teresina, 10 de abril de 1995
Prezado Sr. John L. Sgrulletta
Paz e alegria e Feliz Páscoa!

Há dias recebi a sua amável cartinha com as indicações de recepção da nossa Rádio Pioneira de Teresina. É sempre um imenso prazer saber que pessoas como você nos pode sintonizar.

Teresina é a capital do estado do Piauí. Uma cidade de 700 mil habitantes. Está no nordeste do Brasil. Uma região muito pobre, mas de um povo amável e hospitaleiro. Tenho, portanto, muito orgulho de ser dessa terra

A Rádio Pioneira de Teresina é uma emissora da Fundação Dom Avelar Brandão Vilela. Uma estação da Igreja Católica. É, contudo, uma rádio muito aberta para o povo. É mesmo uma rádio popular. Um canal de alegria e esperança para o nosso povo.

Remeto-lhe um pequeno folder da Pioneira para você nos conhecer um pouco melhor.

Na sinceridade de irmão e amigo,

Roberto Chalco
Diretor

Legal. Radio Nor Andina 4460 Misael Alcantara Guevara, Gerente. Ondas del Sur Oriente 5068.8 Roberto Chalco Cusiñualpa, Director del Programa. Radio Maranon 4835 Ing. J. Alberto Almansa. Radio Estacion Tarapota 5015 Alessandro Moy D. via Play DX in Italy.....Sam.

ds. (Humenyk). same in 6 wks. (Barto-CT). Radio Dneest International 9620 f/d certificate w/ ltr., schedule and post-cards in 90 ds. for \$1.00. (Dybka-TN).

MONACO: Trans World Radio 6230 and 7160 f/d "Map" cd. w/ pennant in 15 ds.

v/s Jeanne Olsen. (Grace-DC)...Thanks for the illustrations...Sam.

NORWAY: Radio Norway 15335 via Sveio f/d "Drinking Vessels" cd. w/ sked. and stickers. v/s Kirsten Ruud Salonen. (Humenyk)...Mark, send your QSL reports directly to me. Thank you. PS...What does via K.D.S. mean? Radio Danmark n/d cd. in 1 mo. w/ sked. for 2 IRCs. (Schwartz-NC).

PAKISTAN: Radio Pakistan 15675.1, 13590, 11570 and 9470 f/d ltr. w/ sticker in 3 mo. v/s Syed Abrar Hussain, Senior Broadcast Engineer. (Barto-CT).

PAPUA NEW GUINEA: Radio Simbu 3355 p/d ltr. w/ prepared cd. in 43 ds. for a taped rpt. and \$1.00. (Klinck-NY). Radio Madang 3260 p/d ltr. in 60 ds. for a taped rpt. and \$1.00. (Klinck-NY).

more to follow...Sam.

QSL

RADIO UNIVERSIDAD DE SONORA

Es un sistema de comunicación integrado por dos estaciones de radio XEUS, AM; y XEUDS, onda corta en banda internacional de 49 metros y un canal abierto de televisión XHUST.V. Canal 8; a través del cual la Universidad de Sonora se apoya para cumplir sus funciones sustantivas de docencia, investigación, difusión y preservación de la cultura.

RADIO UNIVERSIDAD DE SONORA

Is a system of communication formed by two radio stations, XEUS AM and XEUDS SW 49 m. International Band and an open T.V. Channel, through which the University of Sonora accomplishes its substantive function: Teaching, research and transmission and preservation of culture.

XEUS 850 KHZ. 1000 WATTS
XEUDS 6115 KHZ. 1000 WATTS 49 MTS.

Apartado Postal No. 1817 C.P. 83000
Hermosillo, Sonora, México.



UNIVERSIDAD DE SONORA



Nombre: *Jul Dybka*
Dirección: *8237 HWY 70*
Ciudad: *WASHVILLE, TENN.*
3721-5802 - U.S.A.



PERU: Radio Quillabamba 5025 f/d prepared cd. in 2 mo. for a SP rpt. and \$1.00. v/s P. Francisco Panera, Director.

(Grace-DC). **Radio Cora** 4915 p/d cd. w/ ltr. and stickers in 47 ds. for a SP rpt. and \$1.00. v/s Juan Ramirez Lazo. (Paszkievicz). **Radio Atlantida** 4790 n/d penpal ltr. w/ a large tourist poster and travel guide in 1 mo. for a SP rpt. This was from the daughter of the Gerente. I'll have to get married to get a f/d QSL out of this one! (Grace-DC)...We gotta do what we gotta do....Sam. **Radio Tiucan** 5620 p/d ltr. in 42 ds. for a SP rpt. and \$1.00. v/s Jose Galvez Salazar. (Paszkievicz). **Radio Tac-na** 9505 f/d ltr. w/ stickers

in 45 ds. for a SP rpt. and \$1.00. v/s Yolanda Vda. de Caceres. (Paszkievicz).

PHILIPPINES: VOA 15160 f/d "Yellowstone" cd. w/ schedule in 6 wks. (Barto-CT). 9760 f/d "Badlands" cd. in 5 wks. (Schwartz-NC).

PORTUGAL: Radio Portugal International 9705, 9635, 9570, 11840 and 9555 via **Pegoes** f/d "Map" cd. in 5 wks. w/ ltr. schedule and stickers. (Barto). 21655 and 11975 f/d "Map/Ship" cd. w/ schedule and sticker in 5 wks. (Barto-CT).

RUSSIA: Universal Life 15105, 15290, 11870, 11675 and 11630 f/d cd. w/ schedule and sticker in 1 mo. (Field-MI).

VERIFICATION

We are pleased to verify your reception of World Harvest Radio:

Date Oct 10 1992

Time 0330 UTC

Freq 7315 KHZ
via Weissborn

Thank you for your report.

Loren Holycross
WHRI Engineering

STUDIO	TRANSMITTER:
P.O.Box 12	Nobleville, Indiana
South Bend, IN	U.S.A.
46624	U.S.A.

Thank you for your reception report of RADIO ULAN BATOR's broadcast, which we've checked and found correct as follows:

Mr. Tom Roberts
Date of reception February 7, 1988
Time 1444 - 1453 GMT
Frequency 12070 kHz

We're happy to send you this QSL Card with greetings and good wishes from all of us at RADIO ULAN BATOR

VERIFICATION SIGNERS: Radio Imagen 4970 Miss Edith Chumbe Vasquez, Secretaria. **Radio America** 6010 Mrs. Karen Crousillat Carreno, Gerente General. & Miss Liliana Sugobono, Secretaria. **Radio Santa Cruz** 6135 Miss Maria Yolanda Marco, Secretaria. **Radio San Gabriel** 6085 Jaime Arehondo A., Director Ejecutivo. **Radio Alvorada** 4965 Mrs. Raimunda Ribeiro da Silva, Directora Gerente. **Radio Gazeta** 5955 Miss Solange Serda, Secretaria Gerente General. **Esterco Carrizal** 3260 Ovidio Velasquez A., Director. **Radio Federacion Suuar** 4961 Agrotequario Manuel Jesus Vinza Chacucuy, Director. **Radio Moldova International** 9550 Vassilo Stasi...via Play DX

ROMANIA: Radio Romania International 11940 f/d cd. RADIO ULAN BATOR in 107 ds. (Washburn-ME). 5990 C.P.O. Box 365 and 7195 f/d cd. w/ ltr. and ULAN BATOR, MONGOLIA schedule in 92 ds. (Humenyk).

RTR-1 7225 f/d "Folk Costume" cd. w/ schedule (Kusalik-ALB).

SAINT HELENA: Radio St. Helena ZHH 11092.5 f/d cd. in 209 ds. w/ ltr. v/s Tony Leo. (Owsley)

SAIPAN: KPBS 9670 f/d cd. in 6 wks. for \$1.00. personal ltr. and schedule rcvd. (Schwartz)

SAUDI ARABIA: BSKSA 11935 **Holy Quran Program** f/d cd. w/ schedule and postcards in 3½ mo. via registered mail. v/s Suliman A. Al Saman, Director. (Kusalik).

SICILY: RAI Caltanissetta 6060 f/d "Giovanni Omiccioli: Tramoto" cd. in 80 ds. for a taped rpt. (Washburn-ME).

SLOVAKIA: Adventist World Radio 5940 via **Rimavska Sobota** f/d "Morse Code" cd. w/ ltr., schedule, newsltr., calendar and rpt. forms in 3½ mo. v/s Iris Manuela Brandl. (Kusalik). **Slovak Radio** 7300 f/d cd. in 23 ds. (Pasquale-PA). 5930 f/d cd. in 32 ds. for \$1.00.

SOUTH AFRICA: Channel Africa 3220 (Owsley-CA). and 5955 via **SENTECH** 2 f/d cds. in 1 mo. (Kusalik)





**RADIO FREE EUROPE
RADIO LIBERTY**
A FEDERAL INCORPORATED
GETTING OVER BY THE ENGLISH-SPEAKING QUARTER
W-4000 MURKIN ST. GERMANY

Front shows transmitter station in
Gloria/Portugal - 38.45N 8.40W

We are pleased to verify your
reception of RL - Ukrainian

RFE - RL - RFA transmission

Date: 1/12/95 0412-0500

Frequency: 7245 kHz

Transmitter site:

Biblis/Germany	Holzkirchen/Germany	Lampertheim/Germany
x Gloria/Portugal	Maxoquelra/Portugal	Pais/Spain

To:

Jill Dybka
Nashville, TN

**SPAIN: Radio Exterior de Esp-
ana** 9620, 11815, 9540 and
6125 f/d "Barcelona Cate-
dral" cd. w/ schedule in
3 mo. (Barto). 9875, 17845,
12035 and 11815 f/d "XXV
Olimpiada" cd. in 7 wks.
(Barto-CT). 11880 and 7275
f/d "Palacio Musica" cd.
w/ sticker in 2 mo. (Barto)

SRI LANKA: Trans World Radio
* 6035 via Puttalam f/d cd.
w/ site and verie ltr. in
4 mo. for \$1.00. Schedule
was rcvd. v/s D.R. Halli-
day, South Asia Frequency
Co-Ordinator. (Kusalik-ALB)

SYRIA: SARBS 12085 f/d cd. via registered mail w/ ltr. and schedule w/ a
copy of the Syrian Times newspaper. This in 3 mo. after a f/up rpt.

TAHITI: RFO Tahiti 15167 f/d "Logo" cd. (Ondrechen-MA).
in 43 ds. for \$1.00. v/s L. Siquin, Directeur. (Martin)

TAIWAN: Voice of Free China 5950 f/d cd. w/ ltr. and
schedule, sticker, flag sticker in 38 ds. for 2
IRCs. and \$1.00. (Jones-SD). 9610 f/d cd. in 1 mo.
for \$2.00. (Rausch-NJ). f/d "Cloisonne Pitcher"
cd. w/ schedule and sticker in 16 ds. (Dybka-TN).
7130 f/d cd. in 26 ds. w/ newspaper and sticker
for \$1.00. (Owsley-CA). f/d "Artware" cd. in 1 mo.
w/ postcard and stickers. (Field-MI).

TAJIKISTAN REP: Voice of Russia

4740 via Yangi-Yul cd. in 54
ds. for 2 IRCs. Used RS stamps
on the envelope. (Kusalik). **Radio**

Nederlands 5905 f/d cd. in 2 wks

THAILAND: Radio Thailand (Field-MI).

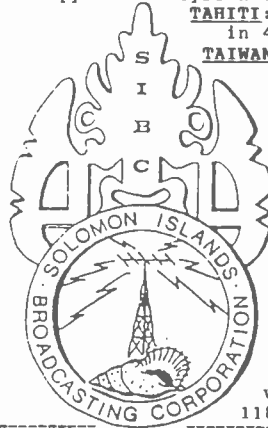
7145 f/d cd. in 44 ds. for ms. v/s

Mrs. Amporn Samosorn. (Pappas-SD).

11905 p/d "Masked Play" cd. in 2 mo.

w/ schedule for 3 IRCs. (Schwartz-NC).

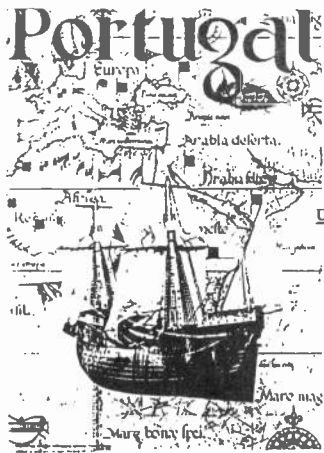
11890 f/d "Stamps of Thailand" cd. in 38 ds.



CNRB
CORTR 5 020 KHZ

NOTES: Franz Schwartz Jr. says that he always reads the QSL Column as soon as
he receives the bulletin. Franz is somewhat bothered by the number of pir-
ate illustrations and QSLs as they appear in the Column....and to some de-
gree I agree with him. Nobody ever questioned it before. Should there be a

separate section headed by a pirate enthu-
siast? I would support such a move...Sam.
Jill Dybka has just finished her final exams
as a college senior. What college are you
attending?...Sam.



w/ personal ltr. and schedule for
\$1.00. (Owsley-CA).

TURKMENISTAN: Turkmen Radio 5010 n/d ltr.

in RS in 2 mo. for a taped rpt. and \$2.00.

USA: KALJ 15725 f/d cd. in 222 ds. (Rausch-NJ).

after 2 f/up rpts. for SASE. (Klinck-NY).

f/d "Watch Tower" cd. in 41 ds. v/s Fred

Bithell. (Kusalik). 15725 and 13815 f/d cd.

in 3 mo. (Barto-CT). **WRMI** 9955 f/d "Beach

Scene" cd. in 83 ds. w/ schedule. (Pasquale)

f/d cd. w/ tourist brochures in 104 ds. for

SASE (used). (Dybka-TN). **WHRI** 9495 f/d sked.

in 5 wks. for SASE. v/s Loren Holycross.

(Jones-SD). 5745 f/d cd. w/ sked. in 85 ds.

for \$1.00. (Dybka-TN). **WRNO** 15420 p/d cd. in

1 mo. for 2 IRCs. (Thow-QUE).



ARMADA ARGENTINA
OBSERVATORIO NAVAL
BUENOS AIRES
REPUBLICA ARGENTINA

SERVICIO DE FRECUENCIAS PATRONES DE L O L
Service of Radio-Frequency (Standard L O L S)

- O S L -

Deliber Richard A. D'Adesio

Rechtman se informa sobre la recepción de banderas de frecuencia patrona
We received your report on the reception of our standard frequency signal
y hora indicada de día 12 MAY 1991. Agradecemos su atención y
and time indicated by you on 12 MAY 1991. We thank you for your attention and
al felicitarlo por su eficiente recepción sus cumplimientos en relación con esta
and congratulate you on the efficiency of your reception. Very truly yours

Buenos Aires Abril 16 de 1991

[Handwritten signature and stamp]

f/d cd. in 57 ds. w/ schedule for 2 ms. (Owsley-CA). 15420 same in 52 ds. for SASE. (Jones-SD). WYFR 7355 f/d cd. in 13 ds. w/ calendar and sticker. (Humenyk). 6065 f/d "Staff" cd. in 2 mo. for 2 IRCs. (Thow). WSHB 7535 and 9430 f/d cd. in 10 wks. v/s Judy P. Cooke. (Ondrechen-MA). 7535 prepared f/d cd. in 6 wks. (Jones-SD). KVOH 17775 n/d handwritten personal ltr. w/ sticker and station booklet in 19 wks. for ms. v/s Edward Thomas. (Ondrechen). VOA 7215 f/d "Annapolis" cd. in 12 ds. for ms. Unusual as the transmitter site note read "Via: Cannot Verify" (Pappas). 15580 via Greenville f/d "Badlands" cd. w/

schedule in 7 wks. (Barto-CT). Universal Life 13760 via WHRI f/d cd. in 1 mo. (Field-MI). Voice of the OAS 9670 f/d cd. w/ pennant and magazine in 32 ds. (Dacus).

USA (Pirates): WKND 7415 f/d sheet w/ nice ltr. and lots of station info. in 10 wks. for \$1.00. (Ondrechen-MA). Radio Garbanzo 6955 f/d ltr. in



RADIO LIBERTAS

NOTES: Benton Owsley sent in some new QSLs for the Colum. We can use all of them.

Keep your reports flowing...Sam. Mary Jo Ondrechen was especially happy with her QSL from Damascus. She is going to send them a big thank-you and a few goodies. This was her 99th country to be verified. Hope number 100 is easy to obtain...Sam. Denis Pasquale was pleased with the QSL from Radio Nacional Columbia 4955. He sent them a taped report. Not too much luck with taped reports to Central and South American stations. Don Dacus sent along an RCI sticker. Thank you...Sam.



120 ds. (Kusalik-ALB).

VATICAN: Radio Vatican 11625 f/d cd. in 3 wks. (Schwartz-NC). 6095 f/d cd. in 2 mo. for 2 IRCs. (Thow).

VIETNAM: Voice of Vietnam 9840 f/d "World Map" cd. in 39 ds. for \$1.00. Sticker and pennant rcvd. (Owsley-CA).

WEST IRIAN: RRI Sorong 4874.6 p/d ltr. w/ post-card and staff photos in 51 ds. via registered mail for an IN rpt., tape and \$1.00. Also rcvd. a tape of beautiful IN music. (Klinck-NY).

ZIMBABWE: ZBC Radio 2 3306 p/d large cd. in 74 ds. for \$1.00. (Dybka-TN).

NOTES: Jill Dybka has recently tried for better responses by sending taped reports. Can't wait to see what happens. Nick Grace checks in by saying that he enjoys reading the Colum. Lots of great QSLs. Jerry Klinck's thoughts of QSLing has taken a back seat to a family reunion. Kick those folks out and get back to the dials!...Sam.



Thats about if for yet another QSL Colum. See you all next month with another interesting QSL Colum.

[Handwritten signature]

English Schedules

Tom Sundstrom

PO Box 2275

Vincentown, NJ 08088-2275

Fax 609-859-3226

Internet: T.SUNDSTROM@genie.geis.com

Prepared 6/22/95.

Thanks to Adam Lock (WWCR), Denis Pasquale (PA), Jonathan Marks (RN), Jim Renfrew (NY), Andy Sennitt (WRTH) and Giovanni Serra (Italy).

Armenia: Araks Radio and R Yerevan is now the Voice of Armenia. Best bet in NAm is 2030-2100 on 11920.

Israel: At 04-0415, Kol Israel is on 9435 and 7465 (ex-7435). From July 1, the 10 UT release is being dropped and the 19 release expands to 30 minutes.

Jordan: R Jordan's new 19m frequencies are doing very well to NAm. 15170 11-12 and 15270 14-1630 replace the old 31m outlet.

Russia: Giovanni Serra faxed The Voice of Russia's English to Europe schedule, but in checking it out this deserves a reality check. Based upon the schedule and my observations here, in my opinion the best bets for at least cNAM are 15400 (ex-15105) 16-20, 11675 16-17 and 18-21, 11730 and 7350 21-22, and 9530 2130-23. 11630 16-22 is not quite as good here, suffering at times adjacent-and/or co-channel interference. During the evening (assumed for NAm) I find 9620 is usually best 01-04 even though REE is underneath, and 9665 is good 03-04.

Thailand: At 0030 and 0300 to NAm, the Udorn relay of R Thailand has shifted to 15370. I find it difficult to hear due to WEWN on 15375 at 0030; at 03 there is no propagation even if WEWN were silent.

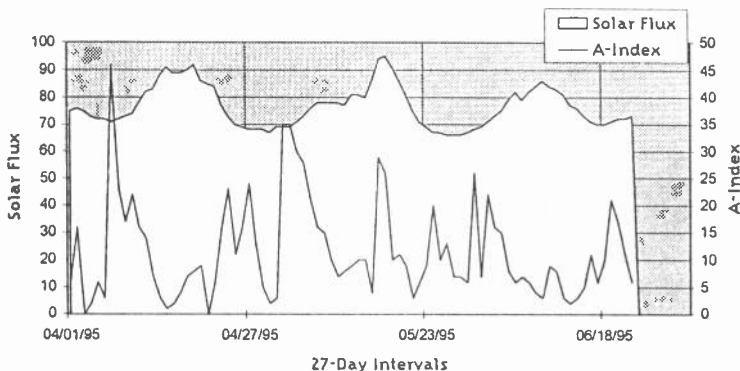
USA: The *World of Radio* schedule is as follows. WWCR Fr 2115, Sa 0600, Su 0930, Su 2300 and

Tu 1230. WHRI Fr 2229, Sa 0501, Sa 1629; KWHR Sa 1629, Mo 0330. By the way, the reason why WWCR was off the air on 7435 in early June was that rain affected the VSWR on the antenna and the #6 wire on the rhombic overheated, then broke. WHRI's revised schedule after a frequency swap with the VOA: Angel 1 18-13 9495, 13-18 13105; Angel 2 23-10 5745, 10-15 6040, 15-23 13760.

Medium wave: Following up the item last month, Denis Pasquale of New Brighton, PA, sends a fax and Jim Renfrew of Rochester, NY, sends a postcard identifying the station on 540 kHz relaying the BBC WS heard in May while we traveling west of Cumberland, MD. WWCS, Canonsburg, PA, about 25 miles south of Pittsburgh on I-79, relays the BBC via a satellite feed. The BBC WS is aired Mon-Fri 6-11 a.m. and 3-6 p.m. Eastern; the Arab Network of America from Washington, DC, fills the mid-day period. Denis sometime hears the station at his work location some 40 miles north of Canonsburg. Jim hears the station in Rochester from time to time, and says the power is 5 kw day, 500 w night. Thanks, Denis and Jim!

Propagation: Despite the bottom of the solar cycle, the short June nights have produced good high-frequency nighttime reception on the high 90°-up antenna. Examples include UAE on 15400 at 0300, V of Russia Far East relays on 15180 and 15580 through 05, Ukraine on 11980 at 0330 and the usual Australians. With the SW-100 on the bed-side stand, RNZ1 on 15115 has been good enough to listen to while falling asleep, and is quite strong on 6100 around the time I get up shortly after 10 UT. It pays to listen up..

SOLAR FLUX & A-INDEX: APR-JUN '95



Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



PO Box 152, Manitowoc, WI 54221. I am very sorry to report the untimely deaths of JOHN SCHMID, our distributing editor, and fellow DXer MICHAEL GOETSCH, both of whom were at the Winter SWL Fest. Look elsewhere in this Journal for news of any possible replacement for John. Otherwise send loggings directly to me and Wally. A shortened column this month, therefore:

- 3300 GUATEMALA R Cultural 6/7 1000 SP rel mx, Bible readings (Leeman-RI) 4/30 0616 SP ID, rel mx (Grenier-NV)
3375 BRAZIL R Educadora 4/11 0550 PT 5 kW, poor (Pinto-NY)
3390 SIKKIM AIR Gangtok 5/24 *1230 EG nx, SC vcls by OM, ID (Ryan-THAILAND)
3925 JAPAN R Tampa 5/1 1304 JP pop mx, fast tlk by M (Grenier-NV)
3945 JAPAN R Tampa 5/1 1245 JP pop mx, some ARO QRM (Grenier-NV)
3955 HUNGARY R Budapest 5/26 1916-1927 EG feature on culture, ID mx, DX pgm //7130 & 9835 (Serra-ITALY)
3987t IRIAN JAYA KRI Manokwari 5/1 1254 tlk, poss nx in lang (Grenier-NV)
4005 VATICAN Vatican Radio 5/24 1914 IT nx w/correspondents, Spazio Aperto pgm, mx pause, IS //5885 (Serra-ITALY)
4010 KYRGYZSTAN Kyrgyz Radio 6/3 1440 RS ballads, YL host (Ryan-THAILAND)
4505 PERU R Horizonte 5/13 0500 lang, weak w/static (Pinto-NY)
4755 BRAZIL R Educacao Rural 3/13 0030 PT Brasopops by OM, fair (Humenyk-ON)
4770 NIGERIA R Nigeria Kaduna 3/31 2214 EG mx by OM, p-f (Humenyk-ON)
4780 DOMINICAN REPUBLIC Onda Musical 3/13 0034 SP cmtry, mx by OM duo, good (Humenyk-ON)
4782.8 MALI RTM 5/21 1938 FR long speech, Afr instls, anmts, nx w/correspondents //4835, f-p (Serra-ITALY) 3/31 2303 FR OM w/nx, fair (Humenyk-ON)
4805 BRAZIL Rdt Amazonas 3/13 0041 mx by OM, fair (Humenyk-ON)
4810 ARMENIA R Yerevan 5/18 1740 EG ID, "This is Yerevan" nx re Nagorno-Karabakh 1800 in lang //7480 (Ryan-THAILAND)
4810 SOUTH AFRICA R 2000 3/13 0043 mx, EZL ballads, good (Humenyk-ON) As mentioned last month, now on 3320--sp.
4820 HONDURAS HRVC 3/13 0046 cmtry by OM, good (Humenyk-ON) 5/2 0454 SP tlk, W singing (Grenier-NV)
4825 GUATEMALA R Mam 3/31 2306 SP cmtry, mx bridge, etc., fair (Humenyk-ON)
4830 VENEZUELA R Tachira 3/31 2310 SP cmtry, mx, fair (Humenyk-ON)
4835 GUATEMALA R Tezulutlan 3/13 0146 SP preaching by OM, cxc. (Humenyk-ON)
4845 GUATEMALA R Kekchi 3/13 0150 SP cmtry by OM, good (Humenyk-ON)
4845 MAURITANIA ORTM 5/21 1959 FR lcl guitar mx, M anmts, ID, nx mx pause, fair (Serra-ITALY)
4870 BENIN ORTB 3/31 2108 FR cmtry, p-f (Humenyk-ON)
4870 SHRI LANKA SLBC 5/25 1530 Sinhala? TP ID, nx promos, SC mx (Ryan-THAILAND)
4875 BRAZIL Super Radio Roraima 3/13 0153 PT mx, brief cmtry, fair (Humenyk-ON)
4875 SOUTH AFRICA VOA Relay 5/15 1845 "Daybreak Africa." (Ryan-THAILAND)
4910 HONDURAS LV de la Mosquitia 3/13 0159 SP preaching, fair-good (Humenyk-ON)
4915 GHANA GBC 3/12 2144 EG/lang mx by group, poor (Humenyk-ON)
4920 ECUADOR R Quito 3/17 0202 SP cmtry, mentioned BBC, good (Humenyk-ON)
4930 HONDURAS R Internacional 3/13 0202 SP mx, TC, ID, good

(Humenyk-ON)

4940 INDIA AIR Guwahati 5/15 1530 EG nx, lcl mx & pgm, IDs, 1600 drama (Ryan-THAILAND)

4950 KASHMIR R Kashmir Srinigar 5/20 1530 EG nx, lcl mx, drama IDs, muffled audio, IDs tough (Ryan-THAILAND)

4955 BRAZIL R Marajoara 3/13 0206 PT mx by group, OM w/voice-over good (Humenyk-ON)

4980 VENEZUELA Ecos del Torbes 3/13 0213 SP mx, ads, good (Humenyk)

5003.7 RIO MUNI R Nacional 5/21 2010 in lang w/lively speech & chant w/lcl percussion, fair (Serra-ITALY)

5005 NEPAL R Nepal 5/23 1415 EG nx, wx, Nepal economy (Ryan-THAILAND)

5015 TURKMENISTAN Turkmen Radio 5/11 1645 weird Turkmen songs 1700 IS, ID, nx by OM (Ryan-THAILAND) 5/26 1936 TK chant w/ instl mx, ID, tlk, poss nx, fair (Serra-ITALY)

5020t CHINA Jiangxi PBS 5/14 1328 CH folk mx & poss ID (Grenier-NV)

5020 ECUADOR LV del Upano 3/10 2330 brief cmtry by YL, mx by OM, fair (Humenyk-ON)

5025 CUBA R Rebelde 3/13 0220 SP cmtry by 2M, good (Humenyk-ON)

5026 UGANDA R Uganda 5/17 2008 lcl chorus chants, no tlk, in USB to avoid het, f-p (Serra-ITALY)

5030 COSTA RICA AWR 3/13 0223 SP cmtry, good (Humenyk-ON)

5035 KAZAKHSTAN R Kazakhstan 5/16 1700 IS, ID in lang, nx, EG 1730 w/features on Kazakh's living abroad //5960, 5905nf (Ryan-THAILAND)

5040 GEORGIA Georgian Radio 5/28 1750 GE drama, xmtr problems, 1830* w/ID, Georgia Radio //4875 (Ryan-THAILAND)

5045 BRAZIL R Cultura do Para 3/13 0226 PT mx, brief cmtry, more mx, fair (Humenyk-ON)

5047 TOGO R Lome 5/14 2155 FR pop songs, M anncr, mx bridge, into nx, fair w/het & fade (Serra-ITALY)

5050 CHINA Guangxi PBS 5/7 1309 CH tlk by W (Grenier-NV)

5055 FRENCH GUIANA RFO Cayenne tent 5/20 0431 FR 2M tlk, poss nx, anmts, pop song, poor (Serra-ITALY) 3/13 0229 FR cmtry, mx (Humenyk-ON)

5060 UZBEKISTAN R Tashkent 5/17 1959 GM tlk, lcl mx, ID, anmts, nx, pops //9540, fair (Serra-ITALY)

5075 COLOMBIA Caracol Bogota 5/3 0342 tlk & SP ID, anmts by M & jingles (Kaminsky-NJ) 5/20 0424 jingles, radionoticias, LA songs, ads, loteria, fair (Serra-ITALY)

5810 USA WHCR 4/29 0415 EG gospel //5935, fair (Humenyk-ON)

5825 USA WEHN 4/29 0414 UK gospel, exc (Humenyk-ON)

5885 VATICAN Vatican Radio 5/17 1952 EG Pope speech w/cmtry, // AM freqs, fair (Serra-ITALY)

5888 BRAZIL SRI 5/2 0100 EG world nx, discussion on IRA & Jerry Adams' A Look at the UN 1995 (Jordan-PA)

5890 BULGARIA R Bulgaria 4/29 0412 BG cmtry, folk mx, fair (Humenyk-ON) Are you sure this wasn't Croatia?

5895 CROATIA Croatian Radio 4/27 2250 CR taped speech //7370 poor (Humenyk-ON)

5895 PERU R Paucartambo 4/6 1012 SP OM DJ w/native mx & frequent IDs (Ducharme-MA)

J LEEMAN
 PETE GRENIER
 VINCE PINTO
 MARK HUMENYK
 JIM DUCHARME
 RUFUS JORDAN
 GIOVANNI SERRA
 MIKE RYAN
 MARV KAMINSKY

Wakefield, RI
 Sparks, NV
 Bronx, NY
 Weston, OH
 South Hadley, MA
 Pittsburgh, PA
 Rome, ITALY
 Bangkok, THAILAND
 Flanders, NJ

That's 6 states, 1 province & 2 countries. Next deadline July 21.



International Band Loggings

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

- 5910 BELGIUM RV1 in EG 2126*, tlk re Olympics returning to Belgium, ID, f (Lamb DENMARK 6/1)
 5915 FRANCE RFI in RO 2126, tlk re Bosnia, pops, ID, repl 5900 this hr, //7135 (Lamb DENMRK 6/1)
 5925 ESTONIA Estonian R in EG 1915, interviews, book review, sked, the Arts (Ryan THAILAND)
 5935 LATVIA R Latvia in lang 1830-1900*, severral ID's in EG, drama, talks (Ryan THAILAND 6/6)
 5975 ANTIGUA BBC relay in EG 0500/2230, nx, drama, "Pen Pals" (Brewer KS 5/25, Fraser MA 5/6)
 5980 CZECH REPUBLIC R Ropa in GM 1510, ads for cars, ID, slogan, nx, pops (Lamb DENMRK 6/4)
 6000nf HUNGARY R Budapest in EG *0100, IS, ID, sked, nx, bad QRM RHC s/on (Jordan PA 5/28)
 6030 GERMANY Sueddeit Rundfunk in GM 1548, election tlk, pop mx, TP, ID, nx (Serra ITALY 5/14)
 6060 ITALY RAI Sicily in IT/EG/FR/GM 0036, opera, TC, ID, nx in 4 langs (Lamb DENMARK 6/3)
 6075nf PORTUGAL RP in EG 0130, nx items, "Musical Kalidesses", ID, wx, g (Jordan PA 5/24)
 6090 BRAZIL R Bandeirantes in PT 0800, flute mx, pips on the hr, ID, f (Dybka TN 5/1)
 6100 NEW ZEALAND RNZI in EG *0758, IS, ID, fqys, nx, sports (Lamb NY 5/21, Brewer KS 5/25)
 6100 GERMANY Deut Welle in GM 2220, world nx, taped speech, IS, ID (Humenyk ONTARIO 4/26)
 6130 CANADA CHNX Halifax in EG 2030, ID, oldies, ads, wx, 1st time hr since Mar (Rausch NJ 6/3)
 6140 BURUNDI R Dif Burundi in FR 1800, nx, ID, drums, remotes, Afr vcls, mx (Ryan THAI 5/21)
 6145 ALBANIA R Tirana in EG *0230-0255*, IS, ID, nx, press review, folk mx, //7160 (Rausch 5/18)
 6160 UNITED KINGDOM VOA relay in RS 0325, language lesson in RS/EG (Humenyk ONT 4/30)
 6165 SWITZERLAND SRI in IT 1802, nx, ID's, jazz mx, IS, feature, //9905 (Serra ITALY 5/19)
 6180 CYPRUS BBC relay in EG 0315, ID, sports update, "Europe Today" (Rausch NJ 6/1)
 6185 YUGOSLAVIA RY in EG 2102, nx re anti-Yugoslavia boycotts, ID, //6100, f (Lamb NY 5/22)
 6195 SINGAPORE BBC rrelay in EG 2202, nx, ID, tlk on Japan/US trade relations, p (Dybka TN 5/16)
 7120 SWEDEN R Sweden in EG 0245, cmntry, features, ID (Hankison KS 5/21, Pasquale PA 5/9)
 7150nf INDIA AIR Imphal in EG 0850, US pop mx, rock 'n roll, drama, nx (Ryan THAILAND 5/27)
 7200 SUDAN Rep of Sudan R in AR 0300, IS, NA, prayers, AR mx (Hankison 5/21, Dybka TN 5/17)
 7200 UNITED KINGDOM VOA relay in EG 0420, business rpt, C&W mx, promo (Lamb DENMK 6/2)
 7225 SOUTH AFRICA Chan Africa in SH 0310, regional nx, native choir, ID (Hankison KS 5/21)
 7240 AUSTRALIA RA in EG 1050, ID, financial nx of Australian stock mkt, f (Brewer KS 5/26)
 7240nf SOUTH AFRICA Chan Africa in EG 1542, pop songs, TP, ID, nx, QRM RAI (Serra ITALY 5/19)
 7250nf VIETNAM VOV in EG 0300*, polit tlks, ID, mx, fqy, skeds, interview, g (Jordan PA 6/13)
 7375nf BOTSWANA VOA relay in EG 2000, IS, ID, intl nx, Afr nx/views, mailbag (Rausch NJ 6/4)
 7415nf USA WWCR Nashville in EG 0603*, pgm promo, fqy, sked, QTH, ID, IS, g (Jordan PA 5/21)
 7530nf MONGOLIA R Ulan Bator in EG *1930, IS, sked, nx, press, req rpts, QTH (Ryan THAI 5/23)
 9400 PAKISTAN RP in FR 1958, pop songs, class mx, ID, nx in slo speed, cmntry (Serra ITALY 5/27)
 9435 ISRAEL Kol Israel in EG 1856, IS, TP, ID, nx, //11685, 11603 (Lamb NY 5/22, Serra ITALY 5/26)
 9445 TURKEY VOT in EG 2200, IS, ID, national & regional nx, g (McGuire MD 5/11)
 9485nf PAKISTAN RP in EG 1400, nx, much ado on Kashmir, into lang 1410, ID's (Ryan THAI 5/22)
 9555 SAUDI ARABIA BSKSA in AR 1924, phone conversation, AR mx, ID, g, //9870 (Lamb NY 5/21)
 9555 THAILAND R Thailand via VOA xmtr in GM/FR/EG 2013, ID's, IS, election nx, f (Lamb 5/21)
 9560 NORWAY RN in EG 0110, 2 Russian sailors ask for asylum, EG on Suns only (Pasquale PA 5/21)
 9560nf FRENCH GUIANA China R Int relay in EG *0400, fanfare, ID, nx, tlk, //11680 (Lamb NY 6/12)
 9570nf NEW ZEALAND RNZI in EG 0758*, tlk re NZ gardens/problems with children, ID, IS, sports rpt, billboard, pgm on Maori life, this xmsn on Sat/Sun only (Jordan PA, Lamb NY, Brewer KS)
 9575 MOROCCO R Medi Un in FR/AR 1849, pop mx, AR, nx, ID, promo, fqy, f (Lamb DENMRK 6/5)
 9580 YUGOSLAVIA RY in EG 0000, ID, nx, QTH, fax #, sports nx, //11870 (Lamb NY, Hankison KS)
 9585 CYPRUS BBC relay in RS 0330*, world nx(p), ID "Govorit London", f (Lamb DENMARK 6/2)
 9640 GERMANY DWelle in EG 0205, rpt on 50th anniversary of allied victory WWII (McGuire MD)
 9650nf GERMANY R Nederlands relay in EG *1130, nx, feature on conf on women (Lamb DENMARK)
 9665 BELARUS VOR in SP *0130, ID, site ID, fqy, Lat Am mx, RS folk mx (Rausch NJ 5/22)
 9675? PERU R del Pacifico in SP 0028, song, ID, tlk, instrmls, lyrical mx, p w/QRN, QSD (Jordan 5/27)
 9695 SWEDEN R Sweden in EG 0150, xmsn to Asia, pop mx, ID, QRT ancmt (Rausch NJ 5/22)
 9710 ITALY RAI in EG 2208, Radio Centennial celebrations, exc (Fraser MA 5/4)
 9710 MALI China R Int relay in EG 0300, IS, ID, world nx, national topics, f (McGuire MD 5/10)
 9720 YUGOSLAVIA RY in EG 1840-1857*, update on Bosnia, intl nx, sports rpt, sked (Rausch NJ)
 9735vf PARAGUAY RN de Paraguay in SP 0013, ID, fqy/target areas ancmt (Hankison KS, Kaminsky NJ)
 9760 CYPRUS BBC relay in EG 0200, ID, Asian and Mid East mx (Rausch NJ 5/22)
 9760 PHILIPPINES VOA relay in EG 1335, nx in slow EG, ID, feature, g (Hankison KS 5/21)
 9770 FRENCH GUIANA Swiss R Int relay in EG 2005, intl nx, ID, national nx (Rausch NJ 5/28)
 9770 GERMANY VOA relay in EG 1930, "Music USA Standards", //9760 Morocco (Lamb NY 5/22)
 9840 NETHERLANDS R Nederlands in EG 0110, pgm on 50th anniv of allied victory (McGuire 5/4)
 9850 SWEDEN R Sweden in EG 0345, ID, brief mx, interview, g, //7120 (Brewer KS 5/29)

- 9860 UKRAINE RUI in EG 0326, nx, "Close Up", ID, //9685, 9835 (Lamb NY 5/23, Pasquale PA 5/11) in EG 0000, IS, ID, nx, "Ukraine Today", g (Jordan PA 6/9)
- 9900 EGYPT R Cairo in EG 2305, mournful mx, 5 pips, nx, QTH, AR mx, muddy audio (Jordan 5/31)
- 9925 BELGIUM RVI in EG 2330, nx, wx, "Radio World", QTH, some jamming (Lamb NY 5/28)
- 9950 INDIA AIR Delhi in HD 1935, Indian songs, ID's, fqys, //11620 Bangalore, f (Lamb NY 5/21)
- 9960 LEBANON Wings of Hope in AR 0310, tlks, AR mx, ezl mx, ID, f w/QRM (Lamb NY 5/19)
- 9975nf USA KVOH Rancho Simi, CA in SP 0235*, impassioned preaching, ID, sked (Rausch NJ 5/22) in EG 0535, relig songs, Dr Gene Scott taped pgm, vg (Jordan PA 5/21)
- 11610 UKRAINE RUI in EG 2135, "Close Up", cmntry, tlk re education, sked, IS, f (Lamb NY 5/22)
- 11680 FRENCH GUIANA China R Int relay in EG 0400, lang lessons, CH to EG, f-g (Jordan PA 5/23)
- 11685 ISRAEL Kol Israel in YD 1620, folk mx, fqy, ID, into HB 1625, g (Serra ITALY 5/14)
- 11750 MOLDOVA R Dniester Int in EG *2030-2100*, IS, ID, QTH, intl nx, editorial pgm, press review, skeds, interview, tlk re lcl economy, mailbag (Lamb NY 5/21, Rausch NJ 5/29, Serra ITALY 5/27)
- 11785 EGYPT R Cairo in AR 2030, domes svce, tlks in lang, US mx, pips, ID, nx, Koran (Jordan PA 6/11)
- 11865 ANTIGUA BBC relay in EG 1518, listeners' mail, into mx pgm 1530, g (Dybka TN 5/10)
- 11900 SRI LANKA R Japan relay in EG 0115, fqy, xmtr site ID, "Asia Today", mx, feature (Rausch 5/27)
- 11935 UNITED KINGDOM R Canada relay in FR/RS 1443, tlk, magazine feature, ID, IS (Lamb DEN 6/5)
- 11945 UNITED ARAB EMIRATES R Dubai in EG 0337, nx, re space shuttle, wx, ID, pgm re Arab influence on West, //13675, f w/QRM (Lamb DENMARK 6/2)
- 13605 UNITED ARAB EMIRATES R Abu Dhabi in EG 2200, test tone, pips, NA, ID, billboard, sked for EG pgms, Koran readings in AR w/EG translations & cmntry, classic pop mx, f (Jordan PA 5/22)
- 13690 UKRAINE RUI in UK 1419, discussion of Ukraine & Brazil, g //21800 (Lamb DENMARK 6/4)
- 15060 SAUDI ARABIA BSKSA in AR 1405, end of nx(p), ID, ezl mx, tlks, g (Lamb DENMARK 6/4)
- 15095 SYRIA R Damascus in EG 2008, nx, ID's, AR song, "News & Views" (Serra ITALY 5/27)
- 15135 RWANDA Deut Welle relay in EG 2100, world nx, "European Journal", vg (Jordan PA 5/22)
- 15186 EQUATORIAL GUINEA R Africa in EG 2040, preaching, relig hymn, Bible study, f (Jordan 5/22)
- 15225nf? PORTUGAL Deut Welle relay in EG 0650*, "Man and Environment", instl mx, fqys for W Africa, site ID (Lamb DENMARK 6/3) ED: This looks like a possible move up from 15200 listed.
- 15240 ITALY RAI in IT 0652, discussion, instl mx, Tarzan yell cfx, wx, ID, nx, slogan (Lamb DEN 6/3)
- 15240 NORWAY R Denmark relay in EG 1700*, ID's, song, interview, QTH, tlk w/piano (Lamb DEN)
- 15245 MOROCCO VOA relay in spec EG 1635, intl nx at slo speed, EG lang lesson (Rausch NJ 6/4)
- 15270nf JORDAN R Jordan in EG 1502, listeners' mx/call-in, quiz questions, ID (Jordan PA 5/22)
- 15395 UNITED ARAB EMIRATES R Dubai in AR/EG 1426, AR mx, drama?, ID, nx (Lamb DEN 6/4)
- 15400 ASCENSION IS BBC relay in EG 1740, ID, "Talk About Africa", African nx (Hankison KS 5/22)
- 15440 FINLAND RF in EG 1910, press review, ID's, "Media Roundup", fqy, //9730 (Serra ITALY 5/18)
- 15450 AUSTRIA RAI in GM/EG 1327, GM mx, fqys, IS, ID, "Report from Austria" (Lamb DEN 6/2)
- 15770nf? INDIA AIR in Tamil/Telugu 1207, lcl mx, ancmts, ID, tlk in Telugu, f (Serra ITALY 5/14)
- 15775nf? ICELAND Reykjavik in IC 1226-1300*, nx?, IS, tlk, ment Iceland, //13860, f (Serra ITALY 5/14)
- 175151 SWITZERLAND SRI in IT 1330, "Studio Aperto" pgm, Spike Jones mx, ID, tlks (Lamb DEN 6/5)
- 17780 GABON R Japan relay in SW/IT 1100, nx, wx, ID's, features, into IT 1115 (Serra ITALY 5/14)
- 21515 PORTUGAL RDP in EG 1337, nx, wx, ID, ancmts, fqy, time & skeds, folk mx, mail (Serra 5/19)
- 21735 UNITED ARAB EMIRATES Abu Dhabi in AR 0440, AR vcls, tlk, ID's, //17855 (Ryan THAI 5/9)

NOTE: Due to the untimely and tragic death of John Schmid, our Distribution Editor, it was possible to include in this month's column only those loggings mailed directly to my QTH. I never met John in person but his buoyant and conscientious personality came through in his notes accompanying the material he sent to me. Our greatest sympathies go out to his family and friends who knew him well.

Marie Lamb had the good fortune to attend the European DX Council Conference earlier this month and got in some DX'ing while in Denmark. Thus her loggings have been marked according to her split QTH's. The following is a list of those who sent in loggings directly to me this month:

Don BREWER, Overland Park, KS	Sony SW77, 2 2010's, SW7600G, SW100
Jill DYBKA, Nashville, TN	DX 440, 45' random wire
Bob FRASER, Cohasset, MA	Sony ICF 2003, SW 100
Richard HANKISON, Prairie Valley, KS	DX 390, 50' long wire
Mark HUMENYK, Weston, ONT Canada	Magnavox D2935, Grove TUN3 tuner
Rufus JORDAN, Pittsburgh, PA	DX302, Zenith Transoceanic, indoor wire
Marv KAMINSKY, Flanders, NJ	NRD535D, random wire
Marie LAMB, Brewerton, NY	HF150, DX392, DX375, 60m long wire, SW loop,
Marie LAMB, Copenhagen, Denmark	and MFJ16010
William McGUIRE, Cheverly, MD	DX380
Denis PASQUALE, New Brighton, PA	DX440, 10m long wire
Ed RAUSCH, Cedar Grove, NJ	R5000, 2010, MFJ959, Eavesdropper, 300' dipole
Mike RYAN, Bangkok, THAILAND	R8
Giovanni SERRA, Rome, ITALY	NRD 525, AD Sloper

Unless a new Distribution Editor has been appointed already, please feel free to send your Internet Band loggings (5900-30000 mhz) directly to my address on the cover so as to arrive no later than the 15th of the month (i.e. posted from your QTH by the 10th to allow for mail to arrive up here)

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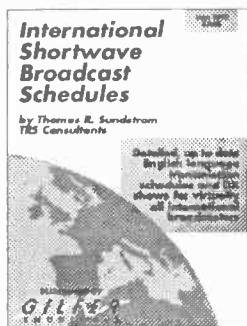


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