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WATKINS-JOHNSON

HF-1000 LF/MF/HF COMMUNICATIONS RECEIVER



The new Watkins-Johnson HF-1000 is a fully synthesized general coverage receiver that combines analog and digital signal processing (DSP) to achieve a level of performance not previously available to the shortwave listener. Covering 5 kHz to 30 MHz with 1 Hz tuning and display resolution, the HF-1000 now provides capability previously enjoyed only by military and commercial users. Functions such as synchronous AM demodulation, noise blanking, I.F. filtering, AGC, demodulation, Beat Frequency Oscillator and passband tuning are accomplished through the use of DSP techniques. Filters with superior amplitude and group delay characteristics are achieved with digital stability and repeatability. An astounding array of 58 I.F. bandwidths are available to allow the operator to optimize selectivity under any signal environment. Filters range from 56 Hz, for monitoring CW with exceptional signal-to-noise ratios, all the way up to 8 kHz for monitoring AM signals with maximum fidelity. Available detection modes are synchronous AM, FM, CW, USB, LSB and ISB. A tunable BFO can be adjusted in 10 Hz steps over a ± 8000 Hz range, and passband tuning is available to further enhance the reception of CW signals. Gain control can be accomplished manually or automatically, with fast and slow AGC modes available. The squelch threshold is adjustable from 0 to -135 dBm, or it can be disabled. A noise blanking feature can also be enabled to effectively eliminate the adverse effects of impulse noise. A tunable I.F. notch filter allows the operator to reject undesired signals within the IF passband. The HF-1000 has an internal switchable preamplifier and attenuator, and analog S-meter, plus a built-in diagnostic self-test capability.

In addition to fixed-frequency tuning, the HF-1000 provides fast, flexible scanning capability. Three scan modes are available: channel scan, F1-F2 scan and F1-F2 scan with lockouts. For all scan modes, the dwell time can be set from .5 to 20 seconds or infinite. In channel scan mode, 100 programmable memory channels are available. Sectors of memory can be specified for individual channel scans, allowing the available memory to be subdivided into multiple search scenarios. The operator can specify certain channels to be skipped without having to delete them from memory. Memory channels can also be single-stepped manually. In both F1-F2 scan modes, the step size is user-selectable from 1 Hz to 25 Hz. Up to 100 independent frequency lockouts can be stored.

The HF-1000 can be operated locally via the front panel or remotely via one of two selectable serial interfaces. Measuring 5.25 x 19 inches, the microprocessor-controlled front panel provides a user-friendly operator interface with dedicated, logically arranged controls and large, easy-to-read LED displays. A majority of the HF-1000 operator-selectable parameters are controllable and accessible via the RS-232 remote interface. A Carrier Sense Multiple Access with Collision Detection (CSMA) with a limited instruction set interface may be enabled, in lieu of RS-232 to allow the HF-1000 to be controlled using a command protocol similar to several popular consumer receivers. Selection of the active interface is via an internal switch setting or by front panel entry. All receiver inputs and outputs are available on the rear panel of the unit with the exception of the front-panel mounted headphone jack. The antenna and external reference inputs, as well as the signal monitor and preselected I.F. outputs are available on BNC connectors. Speaker and dual-balanced line audio outputs are available on a terminal strip along with DC-coupled audio, RSSI and squelch outputs and a mute control input. The RS-232 interface is available on a DB-25 and CSMA interface is provided via a miniature stereo phone jack. The HF-1000 can be used as a tabletop receiver or mounted in a standard 19 inch equipment rack occupying 5.25 inches of vertical space. Operates 97 to 253 VAC (47-63 Hz) automatically adjusting to the input line voltage. One year limited warranty. Made in U.S.A.

SPECIFICATIONS

Dimensions	19.0"W x 5.25"H x 20.0"D
Weight	15 Lbs. (19 Lbs. ship)
Frequency Range	5 - 30000 kHz
Display Resolution	1 Hz
Power	97 - 253 VAC (47-440 Hz)
Consumption	35W typical
Antenna Impedance	50 or 450 ohm
Selectivity (-3dB)	see IF FILTERS chart
Sensitivity	<35 μ V 5-30 MHz CW
	<56 μ V 5-30 MHz SSB
	<1.58 μ V 5-30 MHz AM (S+N/N=10dB, no preamp)

Ref. Freq. Stability	<= 1 p.p.m.
I.F. Rejection	85 dB min (>90 typical)
3rd Order Intercept	+30 dBm typical
2nd Order Intercept	+60 dBm typical
AGC Attack Time	15 msec typical
AGC Decay Time	Fast: 25 msec typical Slow: 4 seconds typical
Audio Output	1 Watt at 8 Ohms
Antenna Input	50 ohms nominal, BNC
I.F. Output	455 kHz, 50 ohms, BNC
Noise Figure	14 dB max, 11 with pre.
Remote Control	RS-232 full dupl. DB25.

I.F. FILTERS (-3dB)

56	113	225	450	900	1800	3600	7200
63	125	250	500	1000	2000	4000	8000
69	138	275	550	1100	2200	4400	
75	150	300	600	1200	2400	4800	
81	163	325	650	1300	2600	5200	
88	175	350	700	1400	2800	5600	
94	188	375	750	1500	3000	6000	
100	200	400	800	1600	3200	6400	

PRICING

HF-1000 List Price	\$3995.00
HF-1000 Discount Price	
Order #1500	Please call.

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NASWA Notes

Bob Brown KW3F
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Packet KW3F @ WB3JOE



Thanks to all of you that sent cards and condolences because of the recent death of my dad. He was a great guy. I was 12 years old when he helped me put together my first radio, a Knight Kit Star Roamer. He was technically trained at DeVry Institute in Chicago and he got me through the basics of assembly and soldering. Although he never really got into SWLing and Amateur Radio, he was always very helpful and supportive. I can remember us climbing the roof of our house to put up antennas. I'm gonna miss him.

As a result of my dad's passing, I am going to be very busy during the coming months helping mom with a possible move from Chicago to Philadelphia. Mom is in poor health and there is no family close by. I won't get into all the details; this is merely a heads up to you that I may not be as responsive to club matters as I should be over the next few months. Rich D'Angelo has agreed to help out when needed with club matters. Thanks for your understanding and thank you Rich.

Finally, a big THANK YOU goes out to Ralph Brandi for helping me out at the last minute last month. I got the call to go to Chicago 2 days before the publisher's deadline and there was mucho work to do on the Journal. Ralph jumped right in and was terrific. Thanks Ralph!

Features

The well is about dry on feature articles. I have

ANARC SWL Ham Net

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

a review or two and a couple of DX Targets, but that is about it. You'll notice this month that Hans is consuming extra pages in Listener's Notebook. I didn't have time to paste up the few remaining articles we have so I told Hans he could have the extra pages. I need some input as to what you think we should do. I'll go through my normal begging for articles, and if we get some we'll run them. If we don't get them, we have options such as giving more space to Listener's Notebook, or perhaps digging into the archives and re-running some key features from the past. We'd like to keep The Journal from 56 to 64 pages each month. You tell me what you'd like to see.

Till next month - Good Listening!

Welcome to the following new NASWA members -

Ernest T. Bagley Sr., Portland, ME
E. Bernald, Cupertino, CA
Paul E. Choroszy, Biddeford, ME
Philip G. Cook, Destin, FL
Roger E. Dorrel, Walnut, CA
J. Michael Elmer, Smithfield, RI
Jim Gilinsky, Peoria, IL
Jim Harman, Clovis, CA
Ludo Maes, Rijkevorsel, BELGIUM
Daniel C. McCarthy, Calhoun, GA

Michael McManus, Philadelphia, PA
Frank Parisot, Bagnaux, FRANCE
Don Rhodes, Yarra, AUSTRALIA
Kathleen F. Suler, Long Valley, NJ
W. G. Sutcliffe, McLean, VA
Kirk Trummel, Springfield, MO
David J. Turnick, Sinking Spring, PA
Barry Wiener, Bronx, NY
Gerald P. Word, Carrollton, GA

Our Motto is - "Unity and Friendship"

Calendar Of Events

- Oct 7** - **** SPECIAL OCTOBER MEETING **** The Boston Area NASWA Chapter welcomes Chuck Roswell, PJ4CR, formerly of TWR Bonaire. Chuck begins a new assignment with TWR next January in Monte Carlo. This special meeting will replace the usual third Friday meeting. Location - Bull Cafeteria, Billerica, Mass. 7:30 PM For additional information please contact Paul Graveline (508) 470-1971, or via modem on Tom's BBS, (617) 698-8649 (300/1200/2400 baud), (617) 698-8734 (9600).
- Oct 15** - Meeting, Philadelphia Area NASWA Chapter. Kulpville Holiday Inn, Kulpville, PA. 7:30 PM Contact Dan Cashin (215) 446-7831
- Oct 15-17** 1993 Monitoring Times Convention, Atlanta Airport Hilton, Atlanta, GA. Info: Monitoring Times, 140 Dog Branch Rd., Box 98, Brasstown, NC 28902 (704) 837-9200
- Oct 16** - 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
- Oct 19** - Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. For info send SASE to: NE Ohio SWLs, c/o Donald J. Weber, P.O. Box 652, Westlake, OH 44145-0652
- Nov 7** - The Tidewater SWLs meet on the first Sunday of each month at 6:30 PM. For info, call Joe Buch, (804) 721-2782.
- Dec 4** - The North Coast Amateur Radio Club - Fall Hamfest, 8AM-2PM at St. Clarence Church, 30106 Lorain Rd., North Olmsted, OH 44070. Talk in on 145.29 and 224.76 repeaters. Admission \$3 advance, \$4 door. Contact: Rick Mace N8VKE (216) 483-4818

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

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.

Jerry Klinck, 43 Lein Road, West Seneca, NY, 14224

To QSL through an embassy or not to QSL through an embassy. That was the question. While the answer will vary from DXer to DXer, depending on your personal guidelines of QSLing, certain constants in the matter should be considered.

My personal objectives in DXing are 1. To hear and identify new stations and 2. To receive authoritative verifications from an independent source, i.e., QSL. Ideally, this is through the station directly, in the form of attractive QSL cards, station letterheads, colorful pennants, etc. As well, nothing beats the thrill of that airmail envelope with the colorful foreign stamps, sitting in the mailbox awaiting our attention.

There are times, however, when after what seems like hundreds of reports and follow-ups over a period of years, that authoritative verification just doesn't happen. The frustration, for me at least, is only amplified when the station in question represents a new VIC. At times like these, fortunately few and far between, I find myself inclined to take desperate means. Reporting to an

appropriate embassy in Washington is one which has proved fruitful on two of four occasions.

However, it must be said that these QSL's, while serving a purpose, do not pack the pleasure-punch of one from the station. Consequently, I find myself continuing to try to QSL these stations directly. Also, one must remember that QSLing radio reception reports is not an official function of embassy staff, and one should not impose on these people frequently or frivolously. Extreme politeness should be used and this route should not even be attempted unless every other means, over a considerable period of time, has been exhausted.

One last thought. When the embassy route to a QSL is used, and is successful, by all means a nice thank you card must be sent to the staffer who has taken the time to perform this extraordinary task!

A definite plus was the nice letter I received from the Kenyan embassy, not only confirming my recording but expressing how much they enjoyed listening to it and how my reception was an inspiration to them in their attempts to receive signals from home.

Kirk Trummel, 1122 West University, Springfield, MO 65807

For those DX'ers who like to put that little extra polish on those QSL requests, a publisher called "Lonely Planet" has an extensive list of travel guides and phrasebooks for out of the way places like: Papua New Guinea, Micronesia, Burma, Indonesia, Vietnam, you get the picture. I picked up a copy of "Bushwalking in Papua New Guinea" at my local library where they had 10 or so different titles. For instance, in my next report to a Papua New Guinea station, instead of saying "Dear Whoever" I'll say "Gude" which is Pidgin for hello. I might also toss in "Tok pisin bilong mi i no gupela tumas" which means my pidgin is not good! Their address is EMBARCADERO WEST, 155 Filbert St., Suite 251, Oakland, CA 94607. They also publish a free newsletter. By the way, the book was interesting reading; it almost made me want to go on a DXpedition to PNG!

I would also like to get in contact with DX'ers who live here in Missouri, or Northern Arkansas, Western Kansas, Western Oklahoma. Please feel free to write me. I promise an interesting response! I also swap recordings of various shortwave stations. I have quite a few recordings of Europirates that were made in 1985-86 while stationed in Germany. If you are interested, please send an SAE for my list.

And finally, I wish to let all who are responsible for putting together the Journal, that you people are doing a fantastic job! Thank you for such a fine publication. It certainly lets me get more enjoyment from my hobby!

Father John Eckert, 8504 Frankford Avenue, Philadelphia, PA 19136

How I Obtained a QSL From Radio Cook Islands

I'll never forget the night of March 11, 1987, around 11:00 PM. Before climbing into bed, I tried once more to hear Radio Cook Islands on my GE World Monitor II portable radio with a 50 foot long wire. After about a year of routinely tuning in 11760 KHz, I was shocked to hear a signal. I listened intently and after hearing their ID, I thought a QSL would be easy to get! I mailed the report and waited...and waited...and waited! I sent follow-up reports for three years (at least a half dozen of them). I knew that I heard them so why didn't they acknowledge the report. In the autumn of 1990, I read in the Journal that Fred Kohlbrenner received a QSL from the Cook Islands. He had sent them a guide book to Philadelphia, I believe, and that seemed to do it. I got an idea. Since it was the end of November, why not send a Christmas type of gift. I had a large Norman Rockwell Christmas book handy. It was full of his illustrations plus Christmas carol music and stories. The way I timed it, I figured Tauraki Rongo Raea would receive this gift about one week before Christmas and Tauraki would be so happy and grateful that as a "thank you" I would receive a QSL. I mailed the package air mail and waited. Six months to the day after I sent the package, I received the coveted QSL logo post card with a thank you note. IT WORKED!

Maybe timing isn't everything, but I would like to think that someone receiving a gift around a special holiday can't do anything but help in obtaining a hard-to-get QSL.

Easy Listening

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

Radio Australia's New Schedule

NASWAN Eric Walton of Vancouver, BC helped me out immensely this month by sending along a copy of the new Radio Australia English language schedule. Program times for most programs have been significantly altered, but it appears nothing has been deleted from the schedule.

Program Blocks

The Radio Australia broadcast day is split into five program blocks, and each program block has several program features.

NetworkAsia airs from 2200 to 0400 Sunday/Monday through Thursday/Friday and features in-depth interviews and information, presented by Brian Abbott.

Pacific Beat airs from 0400 to 0900 Monday through Friday and uses a magazine format to provide focus on the people and issues of the Pacific region.

National Country Hour, reviewed last month, occupies the 0900-1000 hour Mondays through Fridays, with **The Science Show** airing on Saturdays and **Australia All Over**, a program on life in the outback, on Sundays.

Asia Evening (1000-1700 UTC) and **Pacific Morning** (1700-2100) continue the information programs with music filling out the program hours.

Australia Talks Back airs at 2100 Mondays through Fridays, and features Australians talking about issues of the day. **That's History**, a program interpreting past Australian and overseas events, airs Saturdays, and **Australia All Over** (see the 0900 description) on Sundays.

News And Current Affairs

World and Asia/Pacific News airs hourly on the hour, seven days per week.

International Report now airs on the even half-hour (for example, 0230 and 0430) from 2230 Sundays through to 2030 Fridays. This program, long one of my favorites, has a new theme and a running time of about 18 minutes.

Indian Pacific features news from the Pacific and Asian regions, and airs every two hours from 2230 Fridays through 0630 Saturdays.

Background Report examines the broad range of influences shaping our world, airing every two hours from 1030 through 2030 Saturdays.

Correspondents' Report is a roundup of global stories, airing every two hours from 2230 Saturdays through 0630 Sundays.

Report From Asia airs every two hours from 1030 through 2030 Sundays.

Australian News airs Mondays through Fridays at 0110, 0510, 1110, and 1710 UTC; weekends at 1110 and 1710.

Pacific News airs 0710 and 1910 Mondays through Fridays.

Stock Exchange Report airs Mondays through Fridays at 0848, 1048, 1448, and 2048 UTC.

Sports Bulletins air weekdays at 0120, 0310, 0520, and 0810; daily at 1310, 1610, and 1915; weekends 0830.

Feature Programs - Current Affairs and Features

Asia Focus: Mondays and Fridays 1110, 1510, 1810; repeated Fridays and Saturdays 2310.

Business Weekly, focusing on the Asia/Pacific region, airs Saturdays 1130 and 1530, plus Sundays 1930.

Communicator looks at communications and the media Tuesdays at 1130, 1530, and 1930.

Feedback answers questions about Australia and Radio Australia, and is hosted by Denis Gibbons. Tune in Saturdays 2210, plus Sundays 0010, 0210, 0410, 0610, 0810.

Innovations reports on inventions and innovative practices Mondays 1130, 1530, and 1930.

Lane's Company: Terry Lane in conversation with people from all walks of life, airing Thursdays 1130, 1530, and 1930.

Ockam's Razor has straight talk about science Saturdays 1010, 1210, and 1410.

One World looks at environmental issues important to the Pacific Saturdays 0530, 0730, 1730, and 1930.

The Parliament Program reviews the week's events in the Australian Parliament Fridays 1130, 1530, and 1930.

Science File examines science, medicine, and technology Wednesdays 1130, 1530, and 1930.

Study In Australia looks at study opportunities in Australia for overseas students Saturdays 2210, plus Sundays 0010, 0210, 1010, and 1210 UTC.

The Europeans has reports and features on European politics, culture, and society Sundays 0130 and 1330 UTC.

Feature Programs - The Arts and Music

At Your Request plays requests Saturdays 2330, along with Sundays 0330, 0530, 0730.

Australian Country Style airs Thursdays 1330 and 1730.

Blacktracker looks at the music and performances of Australia's aborigines Wednesdays 1330 and 1730, plus Fridays 2330.

Book Reading reads from the best Australian novels. Saturdays 0413, 0713; Sundays 0110, 0310.

Fine Music Australia airs Sundays 1130 and 1530.

Jazz Notes airs Wednesdays 1330 and 1730.

Music Deli features music from a variety of cultures Fridays 1330 and 1730, plus Saturdays 0330.

Souundabout features Australian and international contemporary music Mondays and Fridays 1330.

The World Of Country Music airs Mondays 1330 and 1730.

I've provided the 24-hour schedule for Radio Australia, but propagation provides an easy catch, here in Eastern Pennsylvania, from 0800 through about 1400 UTC on 9580 kHz. Other frequencies are often usable in the 0100-0500 time period, but I really wouldn't consider them "Easy Listening" quality at this point in the sunspot cycle. At 0245 UTC, as I'm writing this, 21740 is of reasonable quality.

BBC World Service

My October copy of *BBC Worldwide* did not arrive in time for me to prepare this column, so I'll spend some time this month mapping out some regular World Service features. I am not aware of any major schedule changes planned for the European Winter Time changeover on September 27th.

News And Current Affairs

This is the mainstay of the World Service, as the World Service charter emphasizes unbiased news reporting to those areas without domestic sources beyond state control or influence.

Newshour is a one-hour news program with a healthy dose of background reports and analysis, and is probably considered the "flagship" program on the BBCWS. Daily 0500, 1300, and 2100.

Newsdesk is a thirty-minute roundup, without quite the detail of *Newshour*. World, UK, financial, and sports news is included. Daily 0000, 0200, 0700, 1100, and 1800.

The World Today looks at a single issue in a daily 15-minute program. Mondays through Fridays at 1645 and 2015; repeated Tuesdays through Saturdays at 0615.

From Our Own Correspondent provides background information on topics of current interest. Saturdays at 1830, with repeats Sundays 0330 and 0730; a second edition airs Wednesdays 2315 with repeats Thursdays 0445 and 0915.

Outlook is a mix of conversation and debate, plus news and views from the UK. Mondays through Fridays 1405 and 1905; repeated Tuesdays through Saturdays 0105.

World Business Report looks at markets and economic news around the world. Mondays through Fridays 0905, 1705, and 2035; also Saturdays 0905.

Features and Magazine Programs

Development '93 looks at aid and development programs in the third world. Tuesdays at 1930, with repeats Wednesdays 0230 and 0730. 30 minutes.

Letter From America, perhaps the single most popular BBCWS program here in the USA, is a weekly commentary on American life from a British expatriot's perspective. Saturdays 1015, with repeats Sundays 0615, 1645, and 2230. 15 minutes.

Network UK reports on current affairs and cultural matters in the UK. Thursdays 0730, 1615, and 2215. 30 minutes.

Omnibus reports on a variety of topics. September examples included a history of Chess and the 33-day papacy of John Paul I. Wednesdays 0030, 1001, and 1930. 30 minutes.

The Arts

Meridian is a thrice-weekly program on the arts. The first edition airs Saturdays 0630, 1130, and 2030; the second edition, Tuesdays 2030 with repeats Wednesdays 0630 and 1130; the third edition, Thursdays 2030 with repeats Fridays 0630 and 1130. 30 minutes.

Off The Shelf airs readings from various classical and contemporary authors. Weekdays at 0430 and 1430.

Multitrack 1, Multitrack 2, and Multitrack 3 are contemporary music programs with each having a slightly different focus. First airing for each is 1830 Monday, Wednesday, and Friday for **Multitrack 1, 2, and 3**, respectively. Repeated the same day at 2330 and the next day 1215.

Apologies

I'm sorry I don't have the October program highlights available this month, as a major series entitled **The State Of The States**, looking at life in the USA, is scheduled for October. I'll post the information in the Radio/Electronics RoundTable on GENie before October 1st if I receive my copy of *BBC Worldwide* in time.

Thanks again for Eric Walton's correspondence - Until next month,

73 DE Richard

Asian Destinations

Mitch Sams
779 Galliea Court
Blue Springs, MO 64014



Welcome to 'Asian Destinations' for October. Hats off this month to Harlan Seyfer for this wonderful article! What a surprise to find this article, including a Word disk, in the mail from Beijing. Harlan is at the Chinese Academy of Social Sciences, Graduate School, Box 8527, Beijing 100015, People's Republic of China. On to China.....

Life, Politics, Shortwave, and China

For over three years now, my wife and I have had a "leisurely residence in an ancient capital" – Beijing. Among the very many facets of this experience has been a realization of the extent of shortwave listening in the People's Republic of China. *It is not what I expected.*

I am an SWL'er – not a DX'er – interested in first-hand news and alternative points of view. In the States, I often listened to Radio Beijing on a Sony ICF 2010. The events leading up to June 1989 had a special impact on my wife and me. Wife Bonnie had spent a semester in 1988 studying Chinese traditional architecture at Tsinghua University, Beijing. We had friends there and in the large student community at the University of Minnesota. In the days leading up to June 4, 1989, we sensed their excitement and hope. Afterwards we felt our friends' depression and despair. Radio Beijing seemed to reflect those feelings; as with all PRC news media, its broadcasts before and after the suppression were a sharp contrast. We made up our minds to see for ourselves.

In August 1990, we flew to the People's Republic of China to teach English at Tsinghua. We determined to stay in touch with the world by bringing our Panasonic RF-B65, the 2010, and an MFJ 1020 active antenna.

Shortly after we arrived, I was handed a copy of the English language curriculum guidelines published by the State Education Commission that summer. Mr. Qui Xiaoyu, my boss, had just finished translating it into English. It made intriguing reading. Upon graduation, students majoring in English should be "able to understand journalist's on-the-spot reports on political, economic, cultural, educational, scientific and technological affairs in VoA's and BBC's standard English broadcast programs. . . . The students [should be] able to understand reading materials similar to the editorials,

political commentaries and book reviews in the American magazine *Time* or the *New York Times* newspaper. . . ." As if not to disappoint me, tucked away near the end was another statement: "The teacher shall guide the students . . . to use correct points of view in commenting on the work's ideological content. . . ." When I asked what the latter meant, Xiaoyu grinned and waved his hand dismissively, "That's for the students' political study class, not us." "Then," I asked, "can I give the students assignments to listen to the VoA?" "Let me check," he said without the grin. The next day, the broad smile I was coming to like was back: "Yes, the [Foreign Languages Department] party secretary says it's all right as long as it's English, not the Chinese, broadcasts."

With a measure of uncertainty, I gave my students their first SWL assignment. In one week, I wanted a written report about an event or about some aspect of life in the United States as reported by either the Voice of America or the Christian Science Monitor. I wrote frequencies and times on the chalkboard. A few of the students seemed genuinely startled; nonetheless, I didn't need to wait long for feedback. Before the week was up, several students came through my office door to ask for help understanding broadcasts they had taped. Although not excellent quality, these recordings were understandable. Came the due date and every student handed in their assignment. As I read their homework, it became obvious that no student had difficulty accessing a shortwave radio. Also, the differences between essays seemed to indicate that each had listened alone. Approximately two-thirds of the students monitored several broadcasts throughout the week. The remaining third, as if to confirm universal student norms, listened the night before the assignment was due. Five of the 18 students listened to both VoA and CSM. Most of my students clearly were experienced hands at listening to shortwave.

Tsinghua is China's largest university, and arguably her leading technical school. Unlike American universities, nearly all teachers, staff, students, and their dependents live on campus. With a population of approaching 65,000, the university is a self-contained city within Beijing. It has its own "business" district.

When I checked the campus department and hardware stores, I found seven radios with shortwave bands prominently featured ranging in price from Y43 (about \$7.50) to Y142 (\$24.90). The 1993 *Passport to World Band Radio* reviewed the latter as the SEG Precision World SED 110. I've since seen this radio in China under several other names. The Y43 Fula is about half the size of a cigarette pack and supposedly covers the shortwave spectrum between 9 and 18 MHz plus medium wave. The dial is so small and sparsely marked that it is hard to tell. Nonetheless, it receives the BBC and VoA powerhouses passably well. Other than that, its major redeeming feature is its costs, affordable on a student's Y40 to Y60 monthly allowance from the government.

Beijing's largest department store on Wangfujing Street peddles over 20 shortwave radios. All are portable; there are no tabletop models. Only two would be readily recognized in the West: a Sony 7601 and a Philips D1875, priced Y690 (\$125) and Y249 (\$45) respectively. The latter is made in China. The other analog sets, all made in China, sell from Y40 to Y200. Quality is catastrophic to mediocre. When I asked to see the bottom of the line Yong Mei 903S, the clerk and I went through six units before giving up. Interestingly there are three Chinese digital sets: the Panda 2006 at Y185 (\$33) covering 5.95 to 15.60 MHz; the Amsonic AS138 at Y265 (\$48) covering 3.2 to 7.3 & 9.5 to 21.75 MHz; and the Bolong HS490 at Y360 (\$64) covering 2.3 to 6.2 & 7.1 to 21.85 MHz. All three use up-down tuning without direct frequency entry. The Panda's selectivity is the broadest I have ever seen in a digital (which is as polite as I can describe it). The Amsonic was reviewed as Rodelson in the '93 *Passport*. The Panda will be reviewed in the '94 *Passport*.

As time went on and I became more familiar with my students, I found that over half have shortwave radios; the rest have large combination radio-cassette recorders. All of the latter big-black-boxes have one or two shortwave scales. Like the Fula, frequency accuracy is casual, but the sets are usable for strong broadcasters. In our travels around China to visit friends or students in their rural hometowns, I saw many similar units. In rural

areas, such large units are status symbols. They are used, especially in remote or mountainous areas. All those shortwave Chinese People's Broadcasting Stations – now known as China National Radio – and regionals are on the air for a reason.

Are stations outside China also listened to? Obviously the ability is there. The constant jamming of foreign Chinese language broadcasts indicates that someone is worried. However, many Chinese listen to overseas broadcasters only when there is a need for a reality check on the news delivered by their government controlled media. At such times jamming intensifies. The last time this happened was in 1989, and it probably will once more when events in China become embarrassing. On the positive side, I have not heard an English-language transmission intentionally interfered with during my three years of nearly daily listening. When and if that occurs, it will be a distinct signal for us to find our way out of the PRC. At such time, shortwave radio is survival radio.

As mentioned previously, when we came to China we brought a Sony ICF-2010. A little over a year later, the 2010's synchronous detector began to rumble. I visited the Sony repair facility in Beijing with a Chinese electrical engineer friend as interpreter. The technician we chatted with had been trained in Japan. Although this was the first 2010 he had seen in China, he was confident that he could correct the problem. A week later, his phone call changed that impression. The problem was in one of three modules, the technician said, all three modules would need to be swapped to isolate the problem. Unfortunately, the these would need to be ordered from Japan and, before they could be shipped, paid for, including China's hefty technology import tax. Although I would pay for the module that fixed the problem, the repair facility would be stuck with expensive modules for a radio unknown in China. The total cost would be more than the original stateside cost of the 2010. Thus that wonderful set became history.

The bright side of this is the additional motivation I now have to investigate radios available in China and to my students. Our apartment has become sprinkled with Chinese



radios and *really* random wire antennas. Because all plumbing in China is exposed, there are rich opportunities for experimentation – the sewage pipe in my bathroom makes an interesting ad hoc antenna, as do the steam heating pipes. Also, we still have the excellent RF-B65, which has done coolie service riding in our backpacks on our travels around the Middle Kingdom.

So what can we hear? There is no shortage of English language broadcasts. Our day begins with VoA when our bedroom radio trips on at 7:00 AM Beijing time – 2300 UTC, the PRC has no daylight savings time, has only one time zone, and is eight hours ahead of UTC. This is our necessary touch with the States and home. At 9:00 AM, VoA signs off and, if I'm not teaching, I switch to NHK (Radio Japan). There is no one best source for China news; however, between

VoA and NHK Chinese events are well covered. Often, surprisingly, there is no overlap between the two. At other times throughout the day we receive several other English-language transmissions: ABC (Australia), the BBC with the strongest signal into Beijing, the Christian Science Monitor, Radio Pyongyang's North American service – off the backside of their antennas, and Deutsche Welle relayed from Sri Lanka. Sunday mornings have become something of a Radio Moscow tradition while I prepare breakfast. As elsewhere in the world, RM can be received on several frequencies with good strength.

Radio Beijing? They have changed their name to China Radio International, but we still listen — on 91.5 FM in stereo.

... Great story! 73zzz, Mitch

NOTICE PLEASE

This month's cover is a QSL card from Radio Vilnius circa 1975. I believe the wording means "Lithuanian Radio".

The mix-up last month with the Logging Column headings was my fault and I apologize to Sheryl and Wally. Things weren't hectic enough around here with the last issue; I had to get in on the act, too.

FOR SALE: FRENDX/Journal from 1978 to 1992, \$30.00 ppd. Hallicrafters S38E, \$40.00 ppd. Will trade and give \$10.00 plus shipping for S38EB or DB. Tom Mooningham, PO Box 487, Maugansville, MD 21767. Phone (301) 791-0834.

FOR SALE. JRC NRD-525 receiver in mint condition with original carton and manual, \$650.00 includes shipping. Andrew Herrschaft, 28 Leonard Street, Portland, ME 04103. Phone (207) 773-1562.

FOR SALE: Cellular Security Group/Max System 800 MHz Loop Yagi antenna with type "N" connector. Unused. \$49.95 including shipping. Mark Spat, PO Box 624, West Swanzey, NH 03469. Phone (603) 357-0583 between 1900 and 0030 UTC.

FOR SALE: ICOM R-71A. Gilfer customized with 4.0 kHz filter and Pre-amp effective in AM band. A-1 shape, \$595.00 includes shipping. ALSO Customized Beam Headings (from/to) and Distances (MI/KM) to over 482 WRTH-93 transmitter sites including new Russian Republics. ITU Country Codes included. Send your location or coordinates, \$6.95. NASWA Journals '91 and '92 complete, \$10.50 a year or \$20.00 for both. WRTH-91, \$10.95. "Passport to World Band Radio" 1992, \$6.95. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398. No collect calls, please.

FOR SALE: JRC NRD-353D Receiver. Purchased 4/29/93 for \$1699.00. Asking \$1095.00 including shipping. Receiver was used approximately 100 hours and is in mint condition. Bank cashiers check only. Spiro Mandilas, 51 Greenview Drive, West Seneca, NY 14224. Phone (716) 674-6576 after 8 pm, not collect.

Equipment Review

Alan Johnson N4LUS
6001 Goldsboro Road
Bethesda, MD 20817
CompuServe 76665,1756
GENIE A.JOHNSON64

STATION ACCESSORIES

Fall heralds the start of a new DX'ing season, so now may be the time to examine your station setup to see if there are any items that might make the upcoming listening season more productive and enjoyable. In this month's column, I'd like to take an overall look at products that can do just that. Some are more essential than others, but almost all can help you tweak that last bit of intelligibility from a weak signal.

WHAT TIME IS IT?

The first item on the list won't make signals any louder, but it can help ensure that you are listening at a time when a particular station is on the air. That item is a clock. Sure, you can use your wristwatch and convert to UTC, but it's much easier to have a clock dedicated to displaying UTC in a 24 hour format. UTC, of course, standing for Universal Co-ordinated Time, the international time standard in which schedules and loggings are timed. The best value in timepieces, in my mind, is the MFJ 108 dual display LCD clock. This consists of two clock modules in an aluminum holder measuring 4 x 2 x 1 inch with 5/8 inch high numerals. One module can be set for 12 hour local time and the other for 24 hour format UTC. Either module can be set to alternate the display between the time and date - great for handling the date change after 0000 UTC. The usual price is \$20. There are several other inexpensive LCD clocks available, but most lack the versatility of the MFJ-108.

If you want to spend a bit more, and really dress up the radio shack, you might consider one of the 24 hour format analog wall clocks. Universal Radio sells a 12 inch diameter model from Benjamin Michael for \$55 and Grove Enterprises sells a similar Seth Thomas model for \$25. Both models run off a single "AA" battery.

TURN THAT *&### THING DOWN!!

The next essential accessory is a set of headphones. Not only will these help you hear the weak signals, it can also promote domestic tranquility if your family doesn't care to join in the fun of 5 A.M. listening sessions. Headphones, like high-fidelity loudspeakers, are a very personal thing. I prefer the totally enclosed type that completely surround the ears, as these offer the best isolation from extraneous noise in the house. I also prefer the "communications style" of frequency response, in which the frequency response bandwidth is deliberately limited to the frequencies which carry most of the information in voice signals. This is just the opposite of high-fidelity headphones in which the maximum frequency response is sought. Unfortunately, there are no longer any manufacturers of "communications" headsets, with the possible exception of those made for the aviation industry, which are very expensive. Military surplus 'phones can be a good way to go (check Fair Radio and other surplus dealers) or you may want to experiment with the headphones you use with your stereo. If you follow the latter course, you may need a stereo to mono adapter that fits the plug on your set of headphones (available from Radio Shack), although most of the receivers produced in the past five years have headphone jacks that will feed both sides of stereo headphones. With the "Walkman" style of light-weight headphones you will probably also need an adapter to convert the 1/8" plug to the standard 1/4" receiver jack. The Japan Radio Co. ST-3 headphones are quite comfortable and sound good, but are relatively over-priced at \$70. Most of the headphones available from the other receiver manufacturers are re-labeled stereo headphones and identical

models are available elsewhere for a lower price. It probably doesn't make much sense to spend a lot of money for headphones, as you're not seeking extreme fidelity.

ANTENNA STUFF

One relatively low-cost item which can be extremely convenient if you have more than one antenna is an antenna switch. The number of antennas that can be selected depends on the brand and model, usually being two, four, five or six. Such a switch certainly beats fumbling around behind a radio to disconnect an antenna connector. MFJ even makes a dual switch unit that will switch between up to six antennas, as well as up to six receivers!

Another item which goes into the essential category is a static discharge device or "lightning arrester". Today's solid state radios contain semiconductors which are very easily damaged by high voltages, such as those that can build up on external antennas, especially when thunderstorms are in the vicinity. The modern lightning arrester is a sophisticated device which rapidly (in nanoseconds) directs a high-voltage surge on the antenna line to earth ground. They cost about \$20, and while offering no protection against a direct lightning strike to your antenna, they can protect the front-end transistors in your rig from static discharge damage (remember the furor about Q303 in the early Sony ICF-2010's which would blow if you touched the whip antenna after walking across a carpet?). Don't forget that the safest course of action when there are local thunderstorms is to unplug your radio from the wall outlet and disconnect the antenna.

THE CONTROVERSIAL STUFF

There is less consensus on the value of another class of antenna accessories, those being the antenna tuner and pre-amp group. I am going to break the group down into three broad categories: the antenna tuner or matcher, the pre-amplifier and the pre-selector. Products exist which combine these elements in various fashions, so read the catalog descriptions carefully.

The antenna tuner is a passive device (i.e. requires no power and provides no amplification) that serves to match the characteristic impedance of the antenna to the input impedance of the receiver. The antenna tuner can be thought of as a transformer. When impedances are matched

between a source (the antenna) and a load (the receiver) the maximum transfer of power can take place. Antenna matching has the greatest importance when transmitting and is less critical in receiving applications. Whether or not an antenna tuner will improve your reception depends on your particular antenna. My opinion is that they are worth trying if you are using a random-length wire (popularly and incorrectly called a "long-wire") for an antenna. The proper match is found by adjusting the tuner for maximum signal strength. All that is needed for receiving applications is a small unit without meters - usually costing \$50 - \$60. MFJ is a major supplier of this type.

Next on the list is the pre-amplifier. These are active devices which amplify the signal from the antenna. They are untuned, meaning they amplify the entire shortwave spectrum with some also covering the medium wave band. That's the fault of these units - everything, including the power house SW stations, the local AM stations and atmospheric and electrical noise, is boosted and dumped into your receiver's front end resulting in all sorts of strange spurious signals. Stay away from pre-amps unless you have a tiny indoor antenna - after all, the pre-amp is the major component of active antennas. If you buy an antenna tuner that has a built-in amplifier (such as the MFJ 959B), by all means experiment with it, but I think you'll find that you get better results with the gain turned down low.

Of slightly greater potential utility is the pre-selector. These can be either active or passive and are tuned, meaning they select a certain portion of the receiving spectrum. The active units can be quite useful with older receivers which lack sensitivity or single-conversion receivers which suffer from image problems. Active units are available from MFJ, Ameco, Palomar, etc. in the \$100 price range. The Grove TUN-4 combines a passive preselector with a broadband pre-amplifier. The Yaesu FRT-7700 and the MFJ 956 are passive preselectors. Many of the tunable active antennas, such as the MFJ 1020A and the Radio Shack Amplified Antenna can be used as active preselectors with an external antenna.

AUDIO FILTERS

The final group of shack accessories we'll look at this month are audio filters. They are designed to improve selectivity and intelligibility by

reducing the range of audio frequencies that are passed from the receiver to the loudspeaker or headphones. Some units also include notch filters to reduce those annoying whistles that accompany SW reception. Audio filters can be quite useful with receivers with poor selectivity. They function by reducing both the low- and high-frequency content of the signal, so while they reduce the fidelity of the signal they can boost the intelligibility. Just be aware that strong signals that are adjacent to the desired signal can reduce the sensitivity of your receiver, even if you are able to eliminate the interfering signal from the receiver's audio output with a filter. That's why better quality IF filters in the radio can sometimes be a better buy than an audio filter.

There are now two classes of audio filters: the analog ones based on integrated circuit op amps and the ones based on the emerging technology of digital signal processing. The traditional analog filters are best represented by the Datong units, with other models available from manufacturers such as Autek and MFJ.

The new digital units appear to have great potential. Not only do they offer sharper selectivity, they can also help to reduce broadband noise and hiss and some units offer the capability to automatically notch out multiple

single tone heterodyne whistles. While such a capability can wreak havoc with music signals, it can be a big help in digging out an ID. Probably the best known of the DSP units is the NIR-10 from JPS Communications (P.O. Box 97757, Raleigh, NC 27624, 919-790-1048). It appears that they now offer two models of the NIR-10 with filter bandwidths optimized either for Ham or SWL applications. Another manufacturer of DSP audio processors is Timewave Technology Inc., 2401 Pilot Knob Road, St. Paul, MN 55120 (612-452-5939). I hope to have a review of a DSP filter within the next few months. Prices for both the analog and DSP audio filters range from \$100 to over \$300.

It's been quite an assortment of things this time. I have deliberately left out the addresses for the majority of the manufacturers mentioned in this article. It's best to get a catalog from one of the major equipment dealers (Universal, EEB, Grove, Gilfer, etc.) and peruse the pages to see the vast selection of accessories available and choose those that are best suited to your station. Remember that such accessories can often be found quite cheaply at hamfests and from other used equipment sources, since DX'ers are always seeking the latest and greatest gizmo to improve their reception.

Hardware Bits

by Alan Johnson

YAESU FRG-100 FILTER NEWS - Several reviewers (myself included) have given high marks to the FRG-100 receiver, but have faulted the quality of the IF filters used. They have very poor skirt selectivity, and some reviewers found that the filter bandwidths were much wider than what was specified by the manufacturer.

NASWAN Dale Marks of Burnett, Wisconsin mailed me a copy of a letter he received from Yaesu, U.S.A. which addressed the filter problem. In the letter, Yaesu's national sales manager stated that beginning in October, new filters will be brought in that will meet specifications. For the policy regarding upgrades to receivers that are already in use, contact Yaesu U.S.A. at 17210 Edwards Road, Cerritos, CA 90701 or phone 310-404-2700.

KIWA Electronics has announced the introduction of three new filter modules for the FRG-100 which replace both of the AM bandwidths. The available bandwidths are 6/4, 5/3.5 and 6/3.5 kHz (at -6 dB). The cost for each module is \$80, plus shipping. They do require de-soldering/soldering for installation, but KIWA will install for an additional \$40, plus shipping the radio. These modules have shape factors of 1.65 (typical). KIWA Electronics is at 612 South 14th Avenue, Yakima, WA 98902 - phone is 800-398-1146 (US only) or 509-453-5492.

ELECTRONIC COMPONENTS SUPPLIERS - Neil W. Heckt has compiled a very comprehensive list of electronic parts suppliers, along with addresses/phone numbers, area of specialization and minimum order. The listing appears in the November 1993 issue of Popular Electronics, on page 62. This issue should still be on the newsstands or in your local library.

Listener's Library

T. J. "Skip" Arey WB2GHA
P.O. Box 644
Waterford Works, NJ 08089
Genie T. AREY1

As we begin to move seriously into the DX season, I figured this might be a good time to clear through the pile next to my word processor and review a few "loose ends".

THE WORLD IS YOURS ON SHORTWAVE RADIO

by Samuel Alcorn
78 Pages
\$9.95
Gilfer Associates, Inc.
Park Ridge, NJ
ISBN: 0-914542-23-6

It's almost unfair to examine Mr. Alcorn's book after examining Anita McKornick's **SHORTWAVE LISTENING FOR BEGINNERS** last month and knowing Harry Helm's update of the **SHORTWAVE LISTENING GUIDEBOOK** is on the way for review. Both these volumes are more substantial, giving the beginner a great deal of information for the cover price. Still, speaking from my lofty perch as a world renowned sage to radio monitoring beginners (It my column and I'll be grandiose if I want too!!!), Sam's book still deserves a place on some listeners shelves. Allow me to explain.

In addition to over 20 years as a radio hobbyist, Mr. Alcorn makes his living as a professional financial journalist for Dow Jones & Company. Sam moves in a pretty fast paced world and no doubt this has influenced his writing style. This short book would be just the thing to read during an hour layover in an airport.

While it does not give a comprehensive course of study to a beginner, this book gives a concise overview of what makes the shortwave hobby exciting and what is needed

to get started. I have lent my copy to a few folks who have wandered through my shack expressing casual interest in all those gadgets and wires that they saw. One friend returned with sufficient enthusiasm to seek out a portable receiver and some back issues of *Monitoring Times*. Get the idea? This book is a great hook! Used in this way it justifies the cover price.

The book is in its third edition dated 1991. It would benefit from a quick upgrade to bring its list of "Your First Twenty Countries" into the post Cold War world.

HOW TO TEST ALMOST EVERYTHING ELECTRONIC

by Delton T. Horn
326 Pages
\$14.95
Tab Books
Blue Ridge Summit, PA
ISBN: 0-8306-4127-0

If you have been involved in the radio hobby for any length of time you have probably discovered that folks around you automatically assume you are the font of all electronic wisdom. Not everyone in our hobby has a professional electronics background, myself included. Still, when the TV goes dark or the automatic coffee maker stops automatically making coffee, kith and kin come running to you in hopes of saving a few bucks. For that matter, you wouldn't mind having a few extra dollars in your pocket to put in your Drake R-8 fund.

Enter Delton T. Horn and his useful book. Let me state from the beginning that this is not a book for beginners. Poking around inside of electrical equipment can get you dead real quick if you aren't careful. Still there are many basic troubleshooting tests that can be performed by most folks with a

smidgen of electronic savvy.

Horn begins by giving an overview of modern test instruments including equipment for testing digital circuitry. This is helpful for folks who are still stuck in the rut of vacuum tube voltmeters. Chapters follow on DC circuits, power supplies and current testing procedures. In depth study is given to component testing, signal tracing and digital circuits. Horn saves the best for last in his flowcharting and troubleshooting chapter. He includes a few pages on Servicing without a schematic that if found very useful since I like to work on antique and surplus radio equipment.

The book is decidedly weighted toward testing TV and home audio systems, but these are the questions that come up in most households so this is to be expected. Still, much of the information can be directly applied to radio receiver troubleshooting and repair.

One of the things that always seems to block learning is practical application. HOW TO TEST ALMOST EVERYTHING ELECTRONIC puts meaning behind Ohms law. The book is worth the cover price the first time you get to "stare down" your neighborhood repair person when you take the TV to the shop.

UPGRADE OR REPAIR YOUR PC

by Aubrey Pilgrim

245 Pages

\$19.95

Windcrest/McGraw-Hill

Blue Ridge Summit, PA

ISBN: 0-8306-4214-5

If you have an IBM PC or PC clone in your shack or if you plan on adding such a computer to your listening post, this book will give you more than its cover price in useful knowledge. Aubrey Pilgrim lets us all in on the biggest secret in modern electronics. That is, personal computers, by virtue of their design, are very easy to troubleshoot, repair and improve. Take it from someone who has restored two R-390A receivers, computers are a breeze to

fix. With Pilgrim's book you will be able to locate where the problem is and "swap out" the offending board or component in a matter of minutes. Individual chapters cover all the major component and accessory groups up through current 486 based technology. (If you can afford 586 "Pentium" technology at this stage of the game you are rich enough to use your "On-Site" repair service until the next edition of this book is published).

Where this book really shines for the hobbyist is that it explains how to "upgrade" your existing computer. This translates into savings that can be passed into that Drake R8 fund again. Pilgrim takes the time to discuss the cost effectiveness of each upgrade path, allowing you to make the best choices given your personal situation. The author is wise enough to let you know where technology is still developing (e.g., Multimedia) so you don't sink a fortune following a course of action that will waste money down the road.

The book includes a section on computers and devices for disabled persons that can help in making decisions for use of computer technology for folks with any form of communications disability. I'm sure many physically challenged folks in the shortwave hobby would appreciate this information.

It's getting harder and harder to manage the information that the shortwave listening hobby throws at us. The home computer has become a tool of advantage for most radio hobbyists. If my computer were to stop operating right now, not only would this column not get published, but I would lose access to my logs, files, packet radio, on-line services, etc. Thanks to books like Aubrey Pilgrim's, computer system downtime is short and inexpensive around my listening post.

NEWS FROM BRAZIL

published monthly

\$3.00 per year (Bulk Rate)

P.O. Box 42536

Los Angeles, CA 90050-0536

Fellow NASWA member SCOTT EDWARDS sent me some information on

this excellent English language publication on Brazil. Any radio hobbyist who spends his or her time listening in on this part of South America would be well advised to cough up the three bucks for a subscription. Where else are you going to get a forty-page full size magazine for twenty-five cents per copy? Articles cover many aspects of Brazilian life including sports, music, tourism, politics and ecology. This is about as inexpensive a way to get in touch with a culture you can find.

By the way, Scott also sent along information from the July 1993 issue of the magazine THE NATION. Included in this issue are articles on how current F.C.C. regulations and laws are outmoded given the advancement in communications technologies. The articles also point out that big corporations (and their deep pockets) are pushing to "reform" F.C.C. regulations to suit themselves. You might want to hit the local public library and peruse these articles. Remember ECPA 86 folks!!!

SHORTWAVE SIDELINES

A recent development in digital communications is the Aircraft Communications Addressing and Reporting

System (ACARS). This is a system that allows aircraft flight crews to exchange routine reports and messages via a system similar to packet radio. Several modern "multi-mode" digital decoders already are capable of translating this mode (Notably the Universal M-400 and M-1200) and more are on the way. If you plan to add this mode to your monitoring mission you would do well to pick up a copy of . . .

UNDERSTANDING ACARS

by Ed Flynn

53 Pages

\$4.95

Universal Radio Research

Reynoldsburg, Ohio

ISBN: 1-882123-36-0

Once you have your decoder reading ACARS you will need a text such as this to further translate the many abbreviations and formats used in this communications mode. So if you plan to understand the difference between your PIPREP and HOWGOZIT, plan to get Ed Flynn's short but useful book.

tropical bands survey



The 1993 Tropical Bands Survey, 21st edition, is available, as in past years, from the Ontario DX Association. Edited by Argentine DXer Julian Anderson and published by the Danish Short Wave Clubs International, TBS is one of the most valuable references for the Tropical Bands DXer.

The TBS lists all broadcasting stations in the frequency range 2000-5900 kHz and monitored in the past year. Details such as transmission hours, powers and languages are included.

US\$9.00 postpaid to the United States or C\$10.00 postpaid to Canada. Order from the Ontario DX Association, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada.

NASWA Portraits

Jerry Klinck

43 Lein Road
West Seneca, NY 14224



Welcome to the "late summer" edition of Portraits. Before we begin our visit this month, I wonder if anyone knows for sure what RRI's policy is regarding taped reports?? I've had two returned "REFUSED", unopened. What gives??? Now, off we go to sunny ITALY and fellow NASWAN, Giovanni Serra.

"I started as a CBer in early 1981. I made alot of DXs, especially with UK, Spain, Portugal, Germany, France and Brasil, and received many QSL cards. I had many CBER friends, including my last girlfriend. One CBER friend of mine had a passion of BC listening so I started to become curious about it. He showed me some letters and QSL cards from many European stations. Few years later I began my new job as cashier for tax collector and my first hobby with the radio finished."

"After 3 years (in 1987), I saw an interesting receiver at my cousins home - a Bearcat DX 1000. I reminded my friends hobby as a listener and asked if it was on sale. Nothing to do! But I was very lucky as a friend of him sold to me just another Bearcat DX 1000 at the price of my first stipend in 1983. The owners of a DX 1000 here in Italy can be counted on the fingers of both hands! So I started my new hobby as a BC listener. I installed an external 10 meters long wire antenna connected with 22 meters of RG 8 cable resumed by my CB antenna. My first stations here were European and North African radio, obviously in Italian."

"I bought after an interesting book titled 'Vademecum della Radio' and I got the address to join the Associazione Italiana Radioascolto. But I was not enthusiast of their small bulletin so I subscribed also Play DX, DSWCI, Monitoring Times, etc. and it changed completely my way of listening to the radio. My preferences from now are the tropical stations, especially in Latin America, Africa, Near and Far East, North America and Pacific. But I don't like to collect QSL cards."

"I remember the first time I listened to Radio

New Zealand International on 15150 kHz. (All of you know that New Zealand is at the antipodes of my country) and it was my BEST DX: the Radio New Zealand transmitter power at the time was only 20 kw. I received confirmation card from Rudi Hill!"

"My second great DX was in 1989 on summertime. After a round trip of 'only' 1000 kilometers with my old small car Fiat UNO, first I arrived at Republica of San Marino just to buy a Sony ICF-2001. (It was very hard to find this receiver in Italy), and then returned at my girlfriends home the same day here in Rome. And it was the beginning of the end of my story with her, not for the very hard trip but for another adventure too long to describe. Two months later, on August during another sleepless night in my graceful and peaceful cottage near Anzio, thinking of my girlfriend, I casually syntonized the frequency of 15170 kHz with my new Sony connecting 14 meters long wire antenna extended on the pine wood garden surrounding my summer residence. Its' signal was so strong that I feared to wake up my family because I forgot the headphones here in Rome. It was very nice listening to the French voice of a YL talking about Polynesia, Tahiti and presenting a lovely musical program. I really jumped from my bed when I heard the ID 'Tci Tahiti, Société Nationale de Radio-Télévision Française d'Outre Mer!' because I thought to dream of that before!"

"In 1990 on May I bought a new JRC NRD 525 and I was more fortunate of listening some rare Latin America stations here in Italy. The old saying about bad luck in love. . . I believe it is true. Meanwhile, I import from USA an AD DX Sloper bought with the Universal catalog. I joined NASWA in 1991 and it is the best bulletin I know. I also give my contribution to Dario Monferinis' Play DX. If someone likes to correspond about the hobby, please contact me at: Giovanni Serra, VIA F. BELLONI 50, 00147 ROMA, ITALY."

NASWA Awards

Dr. Harold Cones
2 Whits Court
Newport News, VA 23606
Compuserve 71570,411



Howdy and welcome to the end of summer. After our near brush with Hurricane Emily, the heat has backed off a bit and the cool evenings are beginning to arouse the DX center in my brain. Perhaps this will be the fall I get started on the afternoon Indos while they are still afternoon Indos. I guess the summer doldrums have (summer doldrums has? Where is Miss Lewis, my high school English teacher when I really need her?) settled on you also, since award activity was pretty slow this time around--except for Joe DiLeo, who finally got around to cleaning up his shack and giving me a serious case of writer's cramp! Join me in giving a big NASWA yaaaaahoo to a new master DX Centurion and two new DX Centurions. So although the group is small this time, it is a select one and these are the latest folks to wow the crowd with their NASWA greens:

John S. Brown	DX Centurion European Senior DXer
John Bryant	2 kW endorsement-QRP
Paul Buer	10 station endorsement-Australia
David Carter	DX Centurion Senior Ecclesiastic DXer
Joe DiLeo	Master DX Centurion European Continental DXpert African Continental DXpert Asian Continental DXpert North American Continental DXpert Master Pacific DXer South American Continental DXpert Senior Peruvian DXer Senior Venezuelan DXer Subcontinental DXer Senior Indonesia DXer Master Soviet Sphere DXer Arab World DXpert Senior Tropical Band DXer
Kris Field	African Continental DXer
Jerry Klinck	All Germany DXer 10 station endorsement-Australian
Stephen Jarvis	All American DXer
Stephen Price	Asia Continental DXer Senior Ecclesiastic DXer All American DXer
David Ringold	Worldwide DXer European Senior DXer
Rui Trindade	World Wide DXer
John Wilkins	European Continental DXpert
Pat Wood	All American DXer

Featured Award of the Month

I thought this time out I would feature all the awards--or at least feature those that are the most popular. I took over the awards column from Rich D'Angelo in March 1992, so 19 months have passed (reckon that comes out to about a year and a half). During that time I have processed 292 awards (an average of 15 awards plus change per month!) in every awards category except two, Senior Brazilian DXer and Master Time Station DXer. In one of my more curious moments (and my friends will tell you that I have a lot of curious moments), I wondered what the most popular awards might be and decided to count 'em up and find out. Sooo, with further comment, "Dr. DX's Top Ten List of DX Awards:"

Number 10: Ecclesiastic DXer (the comments that come along with these applications run something like, "if something is not correct on this application, throw it away--I can't stand to listen to any more!");

Number 9: DX Centurion (the first milestone award);

Number 8: Master DX Centurion (curious);

Number 7: Arab World DXer (the column featuring this award touched off a flurry of activity that stopped as suddenly as it had begun);

Number 6: All Continental QRP (4 @ 50 kW, 3 @ 25 kW, 3 @ 10 kW, and 3 @ 2 kW, one of 'em mine);

Number 5: International DX Listener;

Number 4: Senior Ecclesiastic DXer (see comments under number 10 and multiply them by 100);

Number 3: European Senior DXer;

Number 2: All American DXer (mostly because of number 10 and number 4);

AND, the most often applied for award in the NASWA barn of high quality awards (excluded, of course, in high quality are the three NASWA crummy awards) is.....

Number 1: World Wide DXer!!!!!!!!!!!!!!!!!!!! (bet you weren't surprised).

So now that you see what others are doing, why not join the in-crowd and send in those award applications? Your spouse will love you for it and utter softly such things as, "You are going to hang what in our den?" or, "As near as I can tell, each of those crummy pieces of green paper cost you about \$300 each." So in the interest of bettering your relationship, you better get those applications in. See you in divorce court!

For Sale:

Datong AD-370 active dipole antenna complete with Gilfer power supply, new 5/93, never used, \$120 obo. Jon Schwartz (206)232-3802 9AM-9PM P.S.T.

Listener's Notebook

Hans Johnson
7529 Red Cravat Court
Columbia, MD 21046
CompuServe 73042,3644

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DEADLINE for the November *LN* is Friday, October 29th.

EDITOR'S NOTES I would like to thank Ralph Brandi for his help last month with *LN*. The growing support to this column is making it easier to do every month—Thanks to all of you who are making this possible. As requested, I am including time of publication for the various sources quoted within. I hope you are pleased with the timeliness of the material presented here.

I have been invited to join *Radio Nuevo Mundo*, a Japanese organization putting out a monthly bulletin. *RNM* has extensive trades with other clubs and is also the group behind the finest Latin American Dxing guides available, *LA Dxing*. Our club will benefit from *RNM* and you will find its hottest Dx news below. Also, thanks to David Clark and Manuel Rodriguez Lanza, I am now receiving *The Radio News, Electronic Issue* direct. It consists of Dx tips, mostly for targets in Latin America and is compiled by Mr. Rodriguez of Caracas, Venezuela. Tom Sunstrom and I are cooperating with regards to English schedules I receive. I feel that Tom's column presents them in a better format in addition to the fact that Tom cross checks them. While you still may see an English schedule in *LN* from time to time, I am passing most of them (particularly the ones from BBCMS) along to Tom. Finally, Bob Padula of the *Australian Radio Dx Club* and I have agreed to exchange complete columns via modem. This will improve our timeliness on items selected from Bob's *Station News* column by one month.

ANGUILLA see UNITED STATES

ARMENIA - Apparently there are two sites at Yerevan, a local one with one or two 50 kW units for Yerevan's Home Service and Foreign Service, and a highpowered site for Moscow Home and Foreign Service and some relays of Yerevan Foreign Service. The highpower site went on the air with many problems during 1968-1971 and has six 120-1000 kW transmitters. A possible location for this site is Kamo village. (Alm Dx'ers Calling August via Fred Kohlbrenner and Rich D'Angelo)

AUSTRALIA - *Radio Australia* announced on August 17th that from the 23rd of the month it would expand the times for Australian news, Monday-Friday 0110, 0510, 1110, 1710; Also Saturday and Sunday at two of these times. Perhaps there were many other program changes on that date. (Glenn Hauser) There will also be two special editions of Pacific News at 0710 and 1910 starting on August 23rd. (World Broadcast Information No 34 20 August)

According to a press release of August 19th, a transformation is underway at *Radio Australia*

to enable its English language service to better serve the needs of listeners in Asia and the Pacific. The format of the English language service is being changed to give the station a fresh, new sound. The changes will include the introduction of two new weekday programs for Asia as well as improvements to the existing format.

Heading the new line-up is *Network Asia*. This two-hour news and information program began on August 23rd. It will offer greater analysis and background information on issues and events than is possible on *Radio Australia's* current affairs programs.

Windows will be allowed during this show for news and sport and the current affairs program, *International Report*. This will be a weekday morning program with two repeats to ensure that it reaches breakfast audiences across Asia.

The other new program is *Asia Focus*, a 20-minute weekday program to cater for evening audiences in Asia. This program can be heard at 1010 1510 and 1810. Other changes include world news at the top of every hour instead of every two hours. The program

International Report will be broadcast every two hours at the bottom of the hour with the first airing at 2230. Other new current affairs programs include: *Indian Pacific* on the air every two hours from 2230 Fridays until 0630 Saturdays. *Background Report* every two hours on Saturdays from 1030 until 2030. *Correspondents' Reports* every two hours from 2230 on Saturdays until 0630 Sundays. Finally, the name of the weekend sports program is changed from *Sportsworld* to *Grandstand* and can be heard from 0200-0730 Saturdays and 0300-0730 Sundays. (World Broadcasting Information No 35 August 27th)

The *Radio Australia* transmitter site at Shepparton is having its antennas modernized because of the Australian government's new target priorities. Another factor is the realization that 100 kW transmitters are no longer adequate for long-haul shortwave work. The antennas directed to Africa were pulled down several months ago. The antennas for Southeast Asia and Papua New Guinea are unchanged. The major changes affect transmissions to the Pacific and the long-path circuit to Europe. Nine antennas with bearings between zero degrees (due north) and 128 degrees are affected. The new policy requires Shepparton to cover only the South Pacific between zero and 90 degrees. Three old single-band curtain arrays have been removed. The long-path antennas for Europe, which started out directed southeast at 128 degrees, were the first to go. Five new TCI curtain arrays have been installed. Two are now in use. The other three will be tested in a few weeks time. The antennas, which cover from 6 to 22 MHz, are four-stack half-wave curtain arrays with a very large beam width. The rest of the old antennas will be pulled down when all five TCI antennas are in service. Secondary service to North America, which has been a by-product of RA's Pacific coverage for several years, may be affected. (Mike Bird and Jonathan Marks on Media Network September 2nd via Mike Fern)

Australian Armed Forces Radio Latest schedule is: To Somalia from Exmouth, Western Australia (Mondays and Fridays) at 1600 on 10848.5 and To Cambodia from Belconnen, Australian Capital Territory (Daily) at 0300 on 20418.5 0900 on 15633.5 and 1200 on 9193.5. All transmissions last an hour and are in USB. (Mike Bird/Onley OZDX No. 84 September via Rich D'Angelo)

AZERBAIJAN - *Azerbaijan Radio Second Program* was heard carrying a 15 minute English newscast from 1905 on 4975 and 15240. This is in addition to *Radio Dada Gorgud's* English program to Europe from 1700-1800 on 15240. (World Broadcasting Information No 35 August 27th) The high powered transmitter site at Baku has two 15

kW transmitters and they are used for local Home Service 4957.5 and Moscow Home Service 6195. The site at Gyanca (Gyandzha) has two 100-200 kW transmitters and is used for local Home Service-Foreign Service and Moscow Home and Foreign Service on 6110 6135. One transmitter is used for local Home Service 4785. (Alm Dx'ers Calling August via Fred Kohlbrenner and Rich D'Angelo)

BANGLADESH - *Radio Bangladesh Home Service* is now being heard at 1150-1730 on 15520 which is parallel 4880v during the period 1230-1600. There is a 5 minute English news bulletin at 1255. Veerakoon, Goonetilleke Union of Asia Dxers Newsletter via Dave Clark's World Radio Report Dx Ontario October)

BELARUS - *Belorussian Radio First Program* is scheduled from 0300 to 2300 on 7210 7140 6115 6080. 0300-1700 6150. 1600-2300 11670. 1700-2300 13645. Programs will be one hour earlier during summer time. (Summary of World Broadcasts Broadcasting Schedules September 3rd) *Second Program* 6115 0400-1600 (ibid) *Grodno Oblast Radio* 7140 0440-0500, 1600-1640, 1820-1900 in Belorussian and 2030-2105 in Polish. (ibid) *Moghilev Oblast Radio* 5965 0430-0500 1600-1640. (ibid) The high powered shortwave site here is Kalodziscy, which is just east of Minsk. It was four 100-200 kW transmitters, one for local Home Service-Foreign Service, two for Moscow Home Service and one for Moscow Foreign Service-Local Foreign Service. (Alm Dx'ers Calling August via Fred Kohlbrenner and Rich D'Angelo)

BOLIVIA - *Radio Anzola* ? 4600 New station here signing off at 0230 on August 5th. This was not *Radio Perla del Acre* or *Radio Villamontes*. (San Gil Shortwave News September) This is the only report I have seen of this one. (HJ)

Radio Entre Rios 4630.9 Drifted up from 4630.7 and heard at 0150 in early July. (JMS ANA Dx-Clusive No. 665 Finland via Play Dx No. 752 August 23rd)

Radio Abaroa 4712.4 The listed Sunday sign-on time of 1100 is probably incorrect as the station was mostly likely heard as early as 1017 on a Sunday. (Moore The Radio News Electronic Edition No. 4 September 12th)

Radio La Palabra 4903.9 According to a letter received from the station, its run by Parroquia de Santa Ana, Santa Ana de Yacuma (Beni). They seem to be temporarily off the air now. Mangager is F. Yosu Arquera. No schedule or power information was mentioned in the letter. (Klemetz The Radio News Electronic Edition No. 5 September 19th)

Radio Juan 23 4965 has changed its canned id (see July LN). They now mentioned

a new FM outlet and id as *Radio Juan 23, La Radio*. (HJ September 3rd)

Radio San Gabriel 6085.08 Drifted down from 6085.12 and heard with Aymara programming at 0935. (Relampago Dx Loggings No. 020 August 20th)

Radio Metropolitana 6194.5 Verification signer for this one is Rodolfo Beltran Rosales, Jefe de Prensa. (CB Shortwave Bulletin July/Scandinavian LA Summary No. 11 August via Radio Nuevo Mundo No. 184 September 4th)

BOSNIA - According to my local post office, there are no restrictions on mail to this country. (John Sgrulletta September 22nd)

BRAZIL - *Radio Difusora* 4795 In spite of listed station names such as *Radio Nova Difusora* or *Nova Difusora* the above is what I am hearing as a canned id for this one. Heard at 0858 on September 3rd. (HJ)

Unid 4838.5 Heard at 0940 on September 16th. Only an occasional open carrier since. (HJ) Heard as early as 0735 with mentions of Rio de Janeiro and Niteroi. (Tony Orr)

Radio Bare 4895 Has reactivated and was heard at 1000. (Don Moore Internet via Tom Sundstrom)

Radio Pioneria Teresina 5015 This station has reactivated and was heard at 2358 on September 3rd. (Parks DX South Florida No. 306 September 10th)

Radio Educadora de Bahia 6019.9 There has been some speculation recently as to whether this station has reactivated or not. Yes, they have as I reported last April. Do not confuse with *Radio Gaucha* which at the time was on 6020. (HJ) *Radio Gaucha* has been giving programs to *Radio Educadora de Bahia*, so you might hear both station names mentioned. (Monferini Play DX No. 753 August 30th)

BURUNDI - *Radio Nationale* 6140 Noted in English from 1745 until 1800 on August 18th, a Wednesday. (Krone Play Dx No. 752 August 23rd) Also noted signing on in French at 0256 here in Maryland in late August. Get it while the channel is clear ! (HJ)

CAMBODIA - *The Voice of Democratic Kampuchea* 11938v was inactive through the middle of September and not heard at the scheduled 1200-1315. Given the dynamics of the current political environment, one would think the station would be on the air if possible, so I presume there must be unresolved technical difficulties. (Dave Clark's World Radio Report Dx Ontario October)

CANADA - Commencing Aug 31st, *RCI* initiated a planned two-week test whereby

Radio Ukraine International was relayed to western North America on 11900 at 0300-0400. A half-hour of both English and Ukrainian from a direct broadcast was being picked up off-air earlier in the evening by the *CBC* monitoring station and subsequently aired on the Sackville transmitter. The idea was apparently to encourage establishment of a reciprocal arrangement whereby *RCI*'s Ukrainian broadcast would be carried on a medium wave transmitter in Kiev. (Bill Westerhaver World of Radio via Dave Clark's World Radio Report Dx Ontario October) No *RCI* identification whatsoever being given at either the beginning or end of the transmissions (Glenn Hauser ibid)

CFVP 6030 Has changed its format. The old *AM-106* has been dropped and the station is now *Mix 1060 Variety*. The address is now: Mix 1060 Variety, Standard Radio Incorporated, P.O. Box 2750 Station "M", Calgary, Canada T2P4P8. The telephone number is (403) 240-5800 and the fax is 5801. Power is still 100 watts. (John Sgrulletta September 22nd)

CHAD - *Radio Nationale* 4904.5 has reactivated this frequency, heard signing off at 2300 on September 4th (Dxpediton Dunlo PA HJ Dave Valko Larry Yamron)

CHILE - *Radio Triunfal Evangelica* 5825 After a two and a half year absence, this station has announced on July 29th that they have reactivated using a provisional quad antenna near Santiago. However, the station was untraced during a mid August visit to Santiago even though they claim to be on from 0000-0300. (Barrera/Radio Enlace August 21st via Glenn Hauser)

Radio Patagonia Chilena 6080.1 Is the correct name of this station and not *Radio Patagonia Chile* as HJ mentioned in the August LN. (Takayuki Inoue)

CHINA - *Voice of Jinling* 4875 is putting out a spur on 4886. (Kito Shortwave News September)

CHINA-TAIWAN - *The Voice of Free China*'s financial problems seem over for the moment. The Legislative Yuan proposed harsh cuts in *VOFC*'s budget this spring. The reasons are political, because of the trend away from a one-party Kuomintang (KMT) state. New parties are in the legislature and some KMT members already there have been feeling their oats. Changes in the *VOFC*'s parent, the *Broadcasting Corporation of China*, might come first. *BCC* is owned by the KMT, which fled to Taiwan from mainland China in 1949, not by the government. If the KMT becomes a minority in the legislature or the *BCC* were to become a public corporation or foundation,

it might affect the funding of the *Voice of Free China* and the *Voice of Asia*. The *Voice of Free China's* audience is world-wide and it is better known. The *Voice of Asia's* strong point is its programming in Mandarin or Standard Chinese, aimed at the Chinese mainland and overseas Chinese in East Asia. It gets a very large amount of mail from the PRC. *Voice of Asia* specializes in softer programming, light pop music and informal DJ chatter. It emphasizes mailbag programs and listener contact. The *Voice of Asia* is not jammed by the PRC because its programs are not overtly political and two of its frequencies are outside the established SW bands. [7285, 7445 and 9280 per WRTH 1993--m] This is a help with cheap analog receivers in the PRC. The *BCC's* home service has three SW freqs and they also were not jammed. [9610, 9765 and 11725 from 2055-1700, per WRTH 1993.--m] *BCC*, however, does broadcast news including coverage of mainland China. The Beijing government does jam other Taiwan stations which broadcast to mainland China (*Central Broadcasting System* networks 1 thru 6) as well as *VOA* and *BBC*. (Kim Andrew Elliott Media Network August 26th via Mike Fern)

CLANDESTINES-AFRICA *Voice of Free Somalia* 7460 Id in Somali is: Idaacada Madaxa Banaan ee Somalia. English-Radio Free Somalia, North East Region, Galka'yo. The station appears to be controlled by the Somali Salvation Democratic Front and was set up with assistance from the Australian-based International Amateur Radio Network. (World Broadcasting Information No 35 August 27th) *BBC* Monitoring Service lists this as domestic rather than clandestine broadcaster. I will keep it here for now, particularly in light of this Network's past involvement with *Radio Free Bougainville*. (HJ) Correction to the September LN. I misattributed the IARN item under this header to John Carson. The actual contributor was John Norfolk. My apologies to Mr. Norfolk. (HJ) Station has been received in Australia and has QSLed. (Thompson OZDX No. 84 September via Rich D'Angelo) The schedule is 1600-1715 on 7499 and 0400-0515 on 7460, but the latter transmission is irregular. (Summary of World Broadcasts World Broadcasting Information No. 38 September 17th)

Voice of the Resistance of Black Cockerel The UNITA radio station in Angola was observed on 26th August on slightly different frequencies. At 0600, the station was observed on 9710 instead of 9700 and at 1200 on 11837 instead of 11830. (Summary of World Broadcasts World Broadcast Information September 3rd)

Radio Muhabura 6400 Heard with English news at 1900 and French and English

id at 1950. 2005 sign off but 2100 on weekends. (Kuhl Shortwave News September) This is the only report I have seen of languages other than vernaculars broadcast by this station. Nothing yet from BBCMS either. (HJ)

ASIA Radio Hy vong (Hope) 11835 is the new frequency, ex 11845 with the time of transmission remaining 1400-1500. Russian broadcasts appear to have been dropped. (Media Roundup September 12th)

Radio Free Bougainville On their September 5th bulletin, IARN claimed that this station is still broadcasting and that "it is the only link between the outside world for the battle-weary Bougainville Republican Army now fighting for its independence from Papua New Guinea." IARN quoted an August 23rd *RFB* broadcast about the BRA capturing and destroying a civilian helicopter hired by the Papua New Guinea Security Forces during a search and destroy mission and ended with "the outside world would never know nothing about what was going on in Bougainville without *RFB*." But IARN no longer bothers to give its schedule, nor do they reveal who is sending them the texts of *RFB's* broadcasts. (It is doubtful if Glenn Baxter, K1MAN, can monitor the station from Maine). (John Norfolk)

MIDDLE EAST *Voice of the Mojahed Sede-ye Mojahed* (Farsi) Broadcasts from 1400-1900 with a repeat from 0200-0600 on the following frequencies: 9640 9240 9060 8840 7470 7180 7000 6780 6560 6520 6270 6005 5870 5740. There is also a transmission from 0600-0800 using frequencies in the 31 41 and 49 meter bands. (World Broadcast Information August 20th) This frequencies will vary widely in order to escape jamming. (HJ)

Voice of the Iranian Revolution started transmissions in 1983 rather than 1993 as HJ mentioned in the August LN. (Mathias Kropf)

Voice of Iranian Kurdistan Ayra Dangi Kurdistan Irana (Kurdish) 4650 0255 with programming in Kurdish and id at 0300. Untraced on listed parallels in 4065 and 3875 range. Listed sign on is 0315 but I suspect on an hour earlier during summertime (HJ) and confirmed by log of it at 0220 (Clemente Play Dx No 752 August 23rd)

Voice of the People of Kurdistan Sowt Ash-Shab Al-Kurdistan (Arabic) Ayra Dangi Gelli Kurdistanana (Kurdish) 4130 This station, run by the Patriotic Union of Kurdistan (PUK) continues to be heard on this frequency prior to 1625 sign off. This is the old transmitter of the *Radio Kurdistan* station that was run by the Kurdish Socialist Party (KSP). The KSP merged with the PUK last February 13th. The program on this frequency is described as experimental while the main program is on 4095v from about 1600 until 1800. On April

29th, the station announced it was broadcasting a *Second Program* on 7265 from 1400-1600 in Kurdish, Turkish and Assyrian but it is untraced. (World Broadcasting Information No 35 August 27th) This station has also been heard on the new frequency of 6300 at 0232 with news and ids in Arabic. (HJ September 1st) Heard in Kurdish after 0330 on September 5th. (Dxpediton Dunlo PA Larry Yamron Dave Valko HJ)

Voice of Egypt of Arabism Sowl Misr Al-Urubah (Arabic) This station was heard on 11815 at 1010 on August 26th and on 11875 the following day with a 1025 sign off. The programs consisted of talks of a pan-Arab nature in an imperfect Egyptian accent, and some were critical of the Egyptian government. The songs played between talks were all Egyptian national songs from the 1950s and 1960s. There was no indication in the programs of the station's location or affiliation.

The Voice of Egypt of Arabism used to form an integral part of the programs of Republic of Iraq radio until it was last heard at 2310-2330 on February 20th on the main domestic service from Baghdad.

At 1100 on both August 26th and 27th, *Holy Medina Radio*, another station thought to be sponsored by Iraq and beamed to listeners in Saudi Arabia, was heard to began it programs on the above frequencies. It was audible only for five minutes before it was obliterated by interference. The opening of announcements said the radio broadcasts for six hours a day on 11815 from 1100-1700. (Summary of World Broadcasts World Broadcasts Information No. 36 September 3rd) This radio station was first heard as a separate station on April 22, 1992, although an Iraqi broadcast with the same name was beamed to Saudi Arabia normal Iraqi radio frequencies during the 1990-91 Gulf crisis. Programs are hostile to Saudi Arabia and the "Arabian Peninsula rulers". Broadcasts may be one hour later during winter time in Iraq. (Summary of World Broadcasts Broadcasting Schedules No. 36 September 3rd)

COLOMBIA - *Radio Cadena Nacional* 6160 is the station that will reactivate here not *Radio Colombia Nacional* as IJ mentioned in the August LN. (Takayuki Inoue)

Radio Macarena 5975 formerly with the *Todelar* network is with the *Cadena Radial Colombiana* network as of June 15th. The new secretary is Sr. Carlos Alberto Pimienta.

The station's new format is non-stop gospel music and Christian programming and soccer games on Sundays. This is the first official Christian radio station in Colombia. (Gaviria Play Dx No 752 August 23rd)

Radio Nacional de Colombia, Bogota, heard signing off on 9655 at 0255 on August

29th. Lots of co-channel interference earlier in the day. (Mike Fern)

COSTA RICA - *Faro del Caribe* 5055.9 is putting out spurs on 5035.9 and 5015.9. They might also be putting spurs at 20 khz increments above their fundamental frequency as well. (Dave Valko August 25th) Also one at times on 5043. (HJ)

Radio Exterior de Espana transmitter site is located at Cariari de Pococi. (Klemetz Shortwave Bulletin No. 1233 September 7th)

CROATIA - *Croatian Radio* 13640 Has replaced 13830. Other frequencies are 5920 and 8830 (sic 9830 perhaps HJ) (Radio World September 11th)

CUBA - *Radio Habana Cuba* has juggled its schedule again because of the oil shortage. Frequency announcements vary within program blocks, and actual usage may vary day to day. Announced English schedule is 0000-0500 on 6010 for Eastern North America and 0500-0700 on 9510 for Western North America. Also heard on 6180 SSB from sign on 0300-0500 irregularly; sometimes carrier is on but the line is open with only hum. 6000 is announced occasionally but not heard in California. English on 13660 AM from 0300-0430. (Mike Fern)

DOMINICAN REPUBLIC - *Radio Barahona* 4930.15 has reactivated. Heard at 0057 with their distinctive low modulation. (Crawford, Krueger August 15th DX South Florida No. 304)

Radio Amanecer Internacional 6025 The shortwave transmitter is to be up-powered to 5 kW. It radiates through an active radiator at 5/8 wavelength, with counterpoise 5/8 radials. The engineer said humorously when I inspected the wet clothes hanging on the outdoor clothesline at the living quarters of the operator family. "That is the reflector which gives us such a good signal into Cuba!" In all reality, the design of the antenna system and the water logged area fed by two creeks, account for such remarkable propagation on shortwave.

The station broadcasts special programs to Cuba, mornings and evenings, and the mail response indicates a nice loyal audience. Late in the evening there is a 2 hour English program is broadcast to the Caribbean. Tentative plans are in hand for broadcasting French, and perhaps other languages, to various Caribbean countries. Because of these anticipated developments, *Radio Amanecer* is printing a full color QSL card and has added another identification slogan which states: *Este es Radio Amanecer, la Voz de la Iglesia Adventista en la Caribe*. Although the station is not officially a part of the AWR network, it

nevertheless broadcasts the same type of programming. (Peterson Australian DX News No. 342 August 1993)

Radio Quisqueya 6205 heard with English segment of tourism promotions at 0057. (Crawford, Krueger August 15th DX South Florida No. 304)

ECUADOR - Radio Oriental 4779.64 is a new station first heard on September 15th signing on at 0958. (Joint Dave Valko HJ effort) This is definitely the same station that is listed on 1360 khz in the 1993 WRTH. Sign on announcement is as follows: "Amigos de la sintonia de *Radio Oriental* desde Tena (the "e" is pronounced as a long "a") ? provincia de Napo ?, 1360 khz amplitud modulada, 4780 (no mention of khz after shortwave frequency) banda tropical de 60 metros. ? siempre con ? melodia ? exitos a todo de ? . La horas 5 de la mañana de la Ecuador Oriental." (Dave Valko September 20th)

Unid Ecuatorian 4785.9 Heard signing on at 1100 with National Anthem and religious programming. (Latinoamerica Dx No. 158 July via Radio Nuevo Mundo No. 184 September 4th)

Radio Bahai 4950 Reactivated September 11th, transmitter a bit drifts but a good signal. (HJ) Heard signing on at 0858 with anthem and ids. (Rich D'Angelo)

Sistema de Emisoras Progreso 5060.5 Heard at 1100 with newscast *Hoy en el Progreso Nacional*. I know the Ecuadorian authorities have asked the station not to use the work "Nacional" in their slogan, so they now restrict its use to program titles. (Klemetz DX South Florida No. 305 August 27th)

Updating the September LN, Rich McVicar is now scheduled to get back to Quito at the end of September and he should be on the air by the middle of October. (DX Party Line September 10th)

HCJB is scheduled to carry *TWR* Portuguese programs from September 1st until December 1st on the following schedule: 0730-0930 6125 9515 11885 2330-0000 15250 17490. (Station News Australian Dx News September)

ERITREA - Voice of the Broad Masses of Eritrea Letters can be sent to: Technical Director, Ministry of Information and Culture, PO Box 872, Asmara. (Rhodes Dx'ers Calling August via Fred Kohlbrenner)

ESTONIA - Estonian Radio According to the station, the government decided on August 31st to discontinue programs on 5925 as of September 1st. Estonian Radio's editor-in-chief thinks that the government's resolution is not legally competent and that issues of the *Estonian Radio's* programming do not fall

within the government's but within the parliament's realm. (Summary of World Broadcasts World Broadcast Information No. 36 September 3rd)

FRANCE see NAMIBIA - Radio France International 5915 Heard on this new frequency at 2000 in French and 2100 in a Slavic language. (Radio World September 11th) This station's budget will grow by 8.8% in 1994 as they are introducing many new transmitters. (Summary of World Broadcasts World Broadcast Information No. 37 September 10th)

GAZA STRIP and JERICHO - According to a Jordanian newspaper, there will be regular radio broadcasts from this Palestinian self-rule region within four months of its implementation. (Summary of World Broadcasts World Broadcast Information No. 37 September 10th)

GEORGIA - Dusheti is the site here and it seems to have five 50-200 kW units, although two of these are only on irregularly. The transmitters are used for Tbilisi Home and Foreign Service and Moscow Home Service. There are nor have their ever been any Moscow Foreign Service transmissions from this republic despite numerous listings. (Alm Dx'ers Calling August via Fred Kohlbrenner and Rich D'Angelo)

GERMANY - Correction to the September LN. *Radio Free Afghanistan* like all *Radio Free Europe/Radio Liberty* services is actually operated by the Broad for International Broadcasting. (David Walcutt)

GHANA - GBC 4915 In addition to the late sign off previously reported, this station is now signing on early at 0400. (Dxpedition Dunlo PA HJ Dave Valko Larry Yamron)

GUATEMALA - Radio Mam 4825 This station has been drifting a bit lately and is signing on before the listed 1300. Noted on as early as 1200. The transmitter is a *Elcom Bauer* brand with a nominal 1 kW that is operated at only 500 watts due to a technical problem. (Relampago Dx Loggings No. 21 August 27th)

HONDURAS - Radio Copan Internacional From the ancient land of the Maya, a new shortwave voice is reaching out to the world. *Radio Copan Internacional* transmits from Tegucigalpa, Honduras on 15675 in the 19 meter band. *HRJA* are the official call letters for *Radio Copan*, whose name comes from the famous Mayan ruins in Copan, Honduras. The station uses a five-element beam antenna to cover primarily eastern North America and the

Caribbean. *Radio Copan* is owned jointly by *Radio Miami International* in Florida and *Radio Estereo Amistad* in Honduras. Programming on *Radio Copan* consists of a variety of music and features in Spanish, English and other languages, prepared by *Radio Estereo Amistad* and *Radio Miami*. *Radio Copan* is also selling blocks of airtime for only US\$25 per hour to organizations in any part of the world which want to reach an audience throughout eastern North America and the Caribbean.

To schedule airtime on *Radio Copan*, contact Jeff White at the address, telephone or fax listed below. Airtime on *Radio Copan Internacional* costs US\$25 per hour, US\$12.50 per half-hour; and US\$6.25 per 15-minute block. Sixty second spot commercials cost US\$5.00. Airtime is payable in advance, before transmission.

Payments must be sent in US dollars to our Miami Office. Clients are responsible for delivering program tapes to our Miami office at least 72 hours before transmission. For a nominal fee, *Radio Miami International* will sell studio production time to clients who wish to record their programs at *Radio Miami's* studios.

Jeff White, Radio Miami International, 8500 SW 8 Street, Suite 252 Miami, Florida 33144 USA Telephone (305) 267-1728 Fax (305) 267-9253 (Press release August 19th via Manuel Rodriguez Lanza Internet via Ben Krepp)

La Voz de la Mosquitia 4910.2 Tentatively noted here a few evenings around 0130 in the middle of August here in Maryland. (HJ) Very irregular operation these days (David Crawford) see UNITED STATES

INDIA - *AIR* A Home Program Schedule effective from 2nd May to 5th September reveals that *AIR Hyderabad* uses 6930 after 0230. There is a *Vividh Bharati* program for (Armed ? HJ) Forces from 1245 to 1325 on 4860 and for Arunachal (? HJ) from 1115 until 1200 on 17705. (Stephen J. Price)

AIR conducted test transmissions in English and Hindi on 15190 from 0830 tune in until 0845 on September 9th. The following announcement was heard: "This is the first transmission from superpower transmitters, *AIR, Bangalore*. The tests were heard at the same time on the 11th. (Summary of World Broadcasts World Broadcasting Information No. 38 September 17th)

INDONESIA - *Radio Republik Indonesia* According to the Indonesian Director General of Radio, nine 250 kW transmitters are being constructed to consolidate *RRI* broadcasts. He said that five of the nine transmitters will be built in Ujung Pandang and their transmissions beamed to the western part of the country.

The remaining four transmitters will be built in Cimanggis, West Java, and their transmissions will be directed to the eastern part of the country. (World Broadcast Information No. 34 August 20th)

RRI Tanjung Pinang Verification signer is M. Yazid. The correct station name is *RRI Regional II (dua) Tanjung Pinang* Transmitters used are: 3224.86 *Harris* 10 kW, 4920 (nominal 4980) *Gates* 1 kW. (Relampago Dx Loggings No. 20 August 20th)

RRI Palangkaraya 3324.97 (KALIMANTAN) Verification signer is Gumer Kamis and the correct station name is *RRI Regional I (satu) Palangka Raya*. (ibid) Another verification signer is Ricky D. Wader. Former verification signer and station manager Mr. Armiruddin has retired. (Murray Fine Tuning No. 705 August 31st) The station now signs off at 1555. (Juichi Yamada) A station schedule lists 3325 with 10 kW at 2100-0100 and with 50 kW at 0900-1215. However, on Aug 25th it was noted on relatively new 9545 at 1145 and closing at 1213 after the 1200 Jakarta news relay. The strong signal (over co-channel Russia) as noted again on Aug 27th suggests 50 kW is being used here and it is believed the weaker 3325 now has reverted to the previous 1500 s/off. (Foster OZDX No. 84 September via Dave Clark's World Radio Report Dx Ontario October)

RRI Gorontalo 3264.6 is the new frequency for this one, ex 3266.4 and is heard from 1030 to about 1315 in Japan. (ibid)

RPDT2 Sumba Timur, Waingapu 3541.7 was heard June 27 on this new frequency from 1315-45. The official channel is 3500 and the power is believed to be only 75 watts. It was heard again July 14th with closing at 1518 and did not carry the 1500 Jakarta news. (Foster OZDX No. 84 September via Dave Clark's World Radio Report Dx Ontario October)

RRI Sumenep 3355.4 Noted on at new early time shortly after 1400. (ibid)

RRI Malang 3380.5 Noted on at new early time shortly after 1400 (ibid)

RRI Pontianak 3995 has local news entitled *Warta Berita Daerah* at 1130, *Berita Daerah* at 1310 and *Warta Berita Antar Kabupaten* or *Berita Daerah* at 1400. (ibid)

RRI Fak Fak 4789.6 Has an English program entitled *English Language Program* at 1015 on Wednesdays. (ibid) Sign off is not at 1459 ex 1400. (Foster OZDX No. 84 September via Rich D'Angelo)

RRI Palembang (SUMATERA) A station schedule lists 4855 [actually on 4855.85 /dmc] at 2155-0310 and 0855-1655 with only 2 kW (Foster OZDX No. 84 September via Dave Clark's World Radio Report Dx Ontario October) Traditionally this has been listed as 10 kW; perhaps a reserve transmitter? (Dave Clark ibid)

RRI Sorong 4875 Use to have English at 1130 on Sundays but this has not been noted recently. Can anyone confirm if it is still on or not. (Dave Valko)

RRI Pekanbaru 5985.14 Drifted from 5894.34 and heard at 1427. (Juichi Yamada)

RRI Samarinda 9614.36 **KGEI** missing from 9615 in late August, so reception of this station was possible around 1100.

(Clark Numero Uno No. 1234 August 27th)

The local news of **RRI Medan** entitled *Varia Nusantara Satu*, which is heard at 1430 on 3375.5 and 4765.9, is irregularly relayed by **RRI Bengkulu** on 3264.8, **RRI Tanjung Karang** on 3395.1, **RRI Padang** on 4003.2, **RRI Palembang** on 4855.9, **RRI Jambi** on 4925 and **RRI Pekanbaru** on 5985. (Juichi Yamada)

Some **RRI** stations that belong to Nusantara 1, use Rayuan Pulau Kelapa (Song of the Coconut Islands) as an interval signal at 1430. **RRI Jambi** on 4925 uses it at this time almost every day and **RRI Bengkulu** 3264.8 and **RRI Tanjung Karang** 3395.1 use it irregularly. (Juichi Yamada)

IRAN - Radio Tehran 7155.27 Heard on this new frequency signing on in Turkish at 0400 on September 6th. (Dxpedition Dunlo PA Larry Yamron Dave Valko HJ)

ISRAEL - Kol Israel According to the ITU the schedule for Arabic is 0400-2215 on 5900 5915 9815 15095 15480. (Station News Australian Dx News September) Don't confuse 15095 with **SYRIA** or the two 5 mhz channels with the **CLANDESTINE Al-Quds Radio** on 5910. (HJ)

ITALY - RAI According to excerpts from a recent letter from Ms. Clara Isola of the Technical Support section of **RAI** their shortwave frequency management section in Torino has been closed when Mrs. Invernizzi retired and it has been reorganized in Rome. **RAI's** new technical center will be one of the most modern in Europe. The station would also like to improve its antennas and is considering renting three hours a day from foreign stations. Finally, a new broadcasting center may be built in Tuscany in the near future for improving the signals emitted at Santa Palomba near Rome. (George Poppin August 26th)

Italian Radio Relay Service 7125 has reactivated after lightning strike in August. Heard at 0520 with an English mailbag show. (Brian Alexander September 11th)

KALIMANTAN see **INDONESIA**

KAZAKHSTAN - Radio Alma Ata 6135 This station appears to be using this new frequency at 2325 with Koranic recitations and

programming in presumed Kazakh. Many mentions of Kazakhstan and Kazakh. Listed parallel of 5915 was untraced. (HJ September 2nd)

The site at **Almaty (Alma Ata)** has many transmitters in the 50-200 kw range used for local and Moscow Home-Foreign Services. The likely location is some distance north of the city. **Karaturuk** is a site with four 500-1000 kW units used for Moscow Foreign Service and relays of foreign broadcasters. The likely location of this site is east of **Almaty**. This site went on the air during 1976-7 and a further unit was added in 1979. There has been no specific mention of this site by Moscow. (Alm Dx'ers Calling August via Rich D'Angelo and Fred Kohlbrenner)

KENYA - KBC The two frequencies most easily heard in North America, 4915 and 4935 are inactive at the moment. (HJ September 7th) 4885 has been heard with English at 1813. (Jorgensen, Veldhuis Shortwave News September)

KIRIBATI - Radio Kiribati 9825 Heard as late as 1002 on Monday, September 6th. (Dxpedition Dunlo PA HJ Dave Valko Larry Yamron)

KYRGYZSTAN - Bishkek site has two transmitters for local Home and Foreign Service on 4010 and 4050, but there are no other shortwave transmitters in this republic. (Alm Dx'ers Calling August via Fred Kohlbrenner and Rich D'Angelo) I bet that alot of Dx'ers' CH/CV (including myself the latter) totals just dropped by one. (HJ)

LEBANON - Voice of Lebanon 6549.4 has reactivated here and was heard signing on at 0258 on September 6th. (Dxpedition Dunlo PA HJ Dave Valko Larry Yamron)

Radio Lebanon, the government station, continues on the air but has no plans to return to shortwave. (Media Network September 2nd via Mike Fern)

LIBERIA - ELWA 4760 According to a letter received on September 17th from Mr. Cordell "Cork" Loken, an engineer at the station, they began broadcasting again on shortwave on August 9th. They are not simulcasting their program on FM 94.5 (200 watts) and 4760. Programming consists of religious programs. Mr. Loken says that their 10 kW shortwave transmitter is "running at only 1/3 power (3.3 kW) because of broken and missing parts." He adds, "Resumption of our broadcasting to all of Liberia coincided with the cease-fire!" The station's address is **ELWA**, Box 10-0192, 1000 Monrovia 10, Liberia, West Africa. (Tom Robertson) The station had been off shortwave for three years

and they also used 6070 then. (Summary of World Broadcasts World Broadcast Information No. 37 September 10th)

ELBC A report addressed to Box 242, Danane, Ivory Coast has been returned as undeliverable after a six month journey. I wonder if the embargo on direct mail to Liberia is off now. (Berg Fine Tuning No. 706 September 13th)

LIBYA - In a speech on September 2nd, Mu'ammar Qadhafi was critical of Arab countries for not responding to *VOA* and *BBC* Arabic transmissions. (Summary of World Broadcasts World Broadcast Information No. 37 September 10th)

MADAGASCAR - *Radio Madagasikara* 3358.9 Heard at 0315 and much better than 5008.93. Usually strong 60 meter band frequency so poor by comparison I wonder if the 100 and 10 kW transmitters have flip-flopped. (Clark Numero Uno No. 1234 August 27th)

MAURITANIA - *Radio Mauritania* 4837 This station is off of its nominal frequency of 4845 and they drifted down to 4830 in 30 minutes from 0630 to 0700. (Brian Alexander September 5th)

MEXICO - *Radio Educacion* 6185 is now almost totally bi-lingual, heard all evening, 0200-0600 with English-Spanish talks and music and was very strong on September 11th. Best Mexican signal ever heard. (Ernie Behr)

Radio Universidad 9600 is signing on at 1300 rather than the listed 1400. (D'Angelo Shortwave News September)

Radio Mexico International United Nations programs to South America will be broadcast via this station from 2100-2115 on 15430 11770 9705 5985 weekdays. (AWR, Buettner Shortwave News September) No trace here yet. (HJ)

MOLDOVA - Mayak is the site for shortwave and it is north of Grigoriopol. This site, which is now under the control of a separatist government, has five transmitters of 500-1000 kW which are used entirely for Moscow Foreign Service. It went on the air during the period from June 1974 to January 1976. (Alm Dx'ers Calling August via Fred Kohlbrenner and Rich D'Angelo)

Radio Moscow Following up on an item listed in the July *LN* under **RUSSIA**, this station has verified all four frequencies listed for the *Kishinev* site with four different QSL cards. (John Sgrulletta September 22nd)

MYANMAR - *Radio Myanmar* 5990 English news is now at 1515 during the 1430-1600 transmission. (Veerakoon Goonetilleke

Union of Asian Dxers Newsletter via Dave Clark's World Radio Report Dx Ontario October) 7185 is a news transmitter of probably 50 kW power parallel 4725 with Minorities Service until new sign off time of 1510. (Tsutomu Kito OZDX No 84 September plus ibid)

NAMIBIA - *NBC* According to an AFP report of August 26th, *Radio France International* has started supplying its program *Paris Calling Africa* to the *Namibian Broadcasting Cooperation* this summer parts of which are broadcast during the morning *World at Six* program. Other programs in English are also being rebroadcast. This is the first instance of *RFI* program rebroadcasts by an African radio outside French-speaking Africa. (Summary of World Broadcasts World Broadcast Information No. 35 September 3rd)

NEPAL - *Radio Nepal* continues to be heard on shortwave, using 5005 and parallel 7165 at 0015-0515, 0715-1015 and 1145-1745 (continuous on Sat at 0015 to 1115). The External Service in English at 1115-1145 has been dropped. (Veerakoon Union of Asian Dxers Newsletter via Dave Clark's World Radio Report Dx Ontario October)

NETHERLANDS - In an interview published on September 16, Hans Hufnagels, chairman of *Radio Netherlands* Board of Governors, announced some details of an interim report on the future course of *RN*. The draft says the station should put more emphasis on broadcasts to Europe, including the former Communist bloc. It also says that Latin America and North America remain important target areas. The draft says the information *RN* broadcasts to various parts of the world should be different, depending on the status of the media in the target area. It also makes a clear distinction between broadcasts in Dutch, which are considered *RN's* main priority, and other foreign languages. Exact implications of the forthcoming reorganization have not yet been finalized. The Board of Governors has announced its intention to appoint an interim manager to restructure the station to fit the new priorities. They hope to announce the appointment on October 8th. (Media Network September 16th via Mike Fern)

Radio Netherlands has not had station pennants for many years, although a new (unnamed) book features a spectacular *RN* pennant design on its cover. *RN's* famed listener pamphlets are due back from the printers in early October and will receive their due promotion then. (ibid)

NETHERLANDS ANTILLES - The *Radio Netherlands* relay station at Bonaire was silenced for almost an entire day in

mid-August by migrating shrimp. The tiny shrimp were sucked into the cold water intake of *RN Bonaire's* transmitter-tube cooling system, where they disabled the pumps and plugged the piping in at least one 200 kW output tube. Some of them found their way into shrimp cocktail. (Media Network September 2nd via Mike Fern)

NEW ZEALAND - Radio New Zealand

This station's schedule from October 2nd until March 19th is: UTC Mondays-Fridays 1650-1958 9550, UTC Sundays-Fridays 1959-0658 15120, UTC Saturdays 1900-0658 15120, Daily 0659-1206 11700. Special sports transmissions will be on at 1207-1648 on 9510, when applicable. (Radio New Zealand Mailbox Program September 2nd) The New Zealand Post has revised its rules on overseas letters. The maximum thickness of a letter is now 10 mm (3/8"). *Radio New Zealand* is reviewing what goes into that QSL reply that you pay 3 IRC's for. It is also reviewing the mailing of *RNZI* T-shirts. A new economy air mail rate has been introduced. Under this scheme airmail is allowed to pile up for two weeks, and is then shipped air freight. Economy air mail will take 28-45 days to reach most destinations. For the present, *RNZI* QSL's are mailed at the first class rate. (Tony King on *RNZI* Mailbox September 2nd via Mike Fern)

ZLXA Levin now operates 2100-1000 (Sun to Thurs) and at 0600-0900 (Sun only) on 3935 and 7290 - the latter being a daytime frequency. There is a plan to change the station slogan from *Print Disabled Radio* to *Radio for the Print Disabled*, according to the station's annual report. (Arthur Cushen's 'Shortwave Review' in *New Zealand DX Times* via Dave Clark's World Radio Report Dx Ontario October)

NORTH KOREA - Unid 3210 Heard at 1158 on August 4th and parallel 2850 Pyongyang. Former is irregular. (Foster OZDX No. 84 September via Rich D'Angelo)

NORWAY - UKE-Senderen (Student station) from Trondheim will be on from October 22nd until November 14th on 1485 and 7245. The shortwave will be on from 0700-0500 daily. (Jon@idt.unit. on USENET via Moore Fine Tuning No. 706 September 13th)

OMAN - Radio Oman 7120 Heard on this new frequency with sign off at 2130 after Arabic programming. Heard August 26th (Padula Australian Dx News September)

PERU - Radio Bagua 3309.8 Has been inactive and needs 4-1000A tubes for its transmitter. The station has not used the

Apartado 4 address since 1991 but can be reached at Av. Principal 794-796 Bagua, Departamento de Amazonas. The verification signer is Julio Carzazo Ganoza, Titular Gerente. (Relampago Dx Loggings No 21 August 27th)

Radio Tarma 4775 Program at 0323 on August 20th (Friday) is: *Cancionero Iberoamericano*. (Manuel Rodriguez Lanza Radio News Electronic Issue via Dave Clark)

Radio Atlantida 4790 Program prior to 0330 on August 20th is: *Patrullero Atlantida*. (ibid)

Atahualpa Radio 4820.8 Sign on is irregular but is usually on the air with *Amanecer Andino* program hosted by tonguetied DJ by 1030. This station is not on the air in the evenings. (Klemetz DX South Florida No. 305 August 27th)

Radio La Hora 4899.3 Heard on this new frequency at 1057, a move from 4857.03. (Relampago Dx Loggings No. 20 August 20th)

Radio Imagen 4970 Signs on at 0900 but is irregular. (Martin OZDX No. 84 September via Rich D'Angelo)

Radio Ancash 4990.68 Heard signing on at 0939 with the program *Cushi Cushum* which last until 1130. (Relampago Dx Loggings No. 20 August 20th)

Radio Origen 5323.5 The verification singer for this one is Jesus Acuna Quispe, Jefe de Programacion (KO Dist July/Scandinavian LA Summary No. 11 August via Radio Nuevo Mundo No. 184 September 4th)

Radio Santa Rosa 6045 This station's 35th anniversary is October 15th. (Dave Valko August 25th)

Radio Universal 6090.9 Heard on this new frequency, a move from 6095.2. (Klemetz Play Dx No. 754 September 6th)

Radio La Voz de Alto Mayo 6137.4 is the correct name for this station. Alta Mayo is not correct Spanish. (Takayuki Inoue) Pardon my mistakes with this name. (HJ) At the end of June, they said that they were back "after many years of keeping the transmitter stowed away". Programs in the evening include: 2000 *Voz y sentir del Ecuador*, 2100 *Rocio tropical*, 2200 *Acuarela mexicana*, 2300 *Proyeccion andina*, 2400 *Integracion juvenil*. I am not sure when they sign off as the QRM gets the better of the station after 2400. (Klemetz DX South Florida No. 305 August 27th)

Radio Tawantisuyo 6173.9 Heard signing off at 0132 rather than listed 0200. (ABU Shortwave Bulletin No. 1232 August 24th)

Radio La Voz de San Antonio 6627.2 Has drifted down slightly and is now heard here. (Klemetz Play Dx No. 754 September 6th)

Radio Ritmo 5602.62 A letter sent to this station has been returned as undeliverable. Does anyone have a current address ?

(Relampago Dx Loggings No. 20 August 20th)

PHILLIPINES - DZB2 Mindoro 3330 0755 sign on with interval signal and then guitar music. Religious programming in Tagalog but abrupt sign off at 0828. Perhaps a brown-out. (Schulze Fine Tuning No 705 August 31st) Also heard from 2000 to 2300 sign off with religious programming. (Schulze Shortwave News September)

The new address for **Radio Veritas Asia** is: P.O. Box 2642, Quezon City. (Cushen DX Party Line August 20th via Mike Fern)

PIRATES-ASIA - Kiwi Radio 7445 Heard at 0722 with ids as K-I-W-I and relaying stations **Romantic Space Radio** and **WSKY** on August 22nd. The station's address is P.O. Box 1437, Hastings, New Zealand. (Ogrizek Australian Dx News September)

EUROPE Radio without Borders This Russian pirate was raided on August 10th and 3 transmitters and audio equipment were taken. (Jorge Garcia via D'Angelo Numero Uno No. 1233 August 20th)

Action Radio 6206.7 This Dutch pirate uses a homemade but well built 100 watt transmitter. (Dave Valko)

Heavy Dude Radio 6210 Is from Sweden and operates with 55 watts. **HDR** is very fast in answering reception reports. **HDR** c/o Stefan Printz Kamnarseagan 13 d, 202. S-22642 Lund, Sweden (Free Radio Page Undated via Play Dx No. 754 September 6th)

Welle Wahnsinn-Crazy Wave Radio 11400 Can be heard via **Radio Waves International** transmitter the first Sunday of every month from 1000-1100 (Free Radio Page Undated via Play Dx No. 754 September 6th)

WABC 6940 is a new Dublin station with a schedule of 0800-1200 Sundays. The address is: P.O. Box 3876, Dublin 1 (Campbell Numero Uno No. 1236 September 10th)

Ozone Radio 6276.8 ex 6280 and scheduled from 0900-1200. Probably the most regular of the shortwave Eurpirates. The address is: Mr. Ozone, 32 Victoria Rd., Salisbury SP1 3NG England (ibid)

PROPAGATION - CYCLE 22 UPDATE: On the September 16th edition of Media Network, Mike Bird traced the progress of the current solar cycle and the outlook for the next solar minimum which will mark the beginning of Cycle 23. The present cycle began in September, 1986, and attained its peak level just 2 years/8 months later in July, 1989. This was the fastest ascent on record. The average time for ascent from minimum to maximum is about 4 years, followed by about 7 years of slower descent to the next minimum which marks the termination of the cycle.

At the peak, the smoothed sunspot number was 158.5 - not the highest on record but higher than average. The cycle declined slowly until September 1991 but since then has been declining at a rapid pace. The smoothed sunspot number for Feb 1993 was 69 and the projected number for September 1993 is just 51. At solar minimum, the smoothed sunspot number typically averages around 10.

While the long term cyclic pattern would suggest mid-1997 as a target for the next minimum, Mike prognosticated that the window for the minimum of this cycle would open up between mid-1995 and late 1996. This would result in a potential cycle of 9 or 10 years. He noted that in the case of 6 for the past 8 solar cycles, the duration has been less than the long term average which is almost 11 years. (Media Network via Mike Fern and Dave Clark's World Radio Report DX Ontario October)

Where/when to find the Dx: Typical maximum usable frequencies this season are going to be much lower than last year (except perhaps for a few hours around mid-day) but look for vastly improved nighttime and especially dawn/dusk DX conditions on the Tropical Bands, as well as on Medium Wave. DX conditions from an hour or two before sunset, through the hours of darkness and until an hour or two after sunrise should be good on the 6, 7 and 9 MHz F bands too, but you may find the QRM tough going with many international broadcasters competing for channels on these bands during the winter broadcast season.

Unusual DX often shows up when you perhaps least expect it - during periods when the state of the geomagnetic field is imminently or just beginning to undergo rapid change (from "quiet" to "active" or "disturbed") and when solar storms cause signals originating in the northern hemisphere or on trans-polar paths to be materially weakened due to auroral absorption. Even the amateur radio press is catching onto this! Witness the comment by Chod Harris in his "DX" column (pg 130-131) in the September 1993 issue of CQ Magazine: "In general, disturbances in the geomagnetic field [principally caused by solar flares and coronal holes] lower MUFs and signal strengths. However, solar flares can actually enhance propagation briefly, between the flare itself and the onset of the geomagnetic disturbance a day or two later".

More specifically, these are the times to be looking for sometimes enhanced signals from the rarer DX originating from the equatorial zone or on trans-equatorial circuits, both short and long path...although not necessarily according to the implied great circle paths. That's another story!

Propagation prediction software may have its place but these programs cannot anticipate significant day-to-day changes in propagation. Instead, current conditions and the short term outlook can be monitored on WWV/WWVH. In addition, a good "early warning system" which I commend to your attention for anticipated changes in the state of the geomagnetic field is the 72 hour forecast service provided by the Geological Survey of Canada, Geophysics Division in Ottawa. The number to call is: (613)-992-1299. (Dave Clark's World Radio Report Dx Ontario October) Best time to check this out during October will be between the 10th and 15th. There should be some unusual conditions within this time frame. (HJ)

The best dates this month for early morning Latin American reception will be October 10th 11th 12th 15th and the 21st (HJ) October 21st for afternoon African reception (HJ)

RUSSIA - Radio Moscow's Arabic service is 50 years old and receives about 10,000 letters a year. Because pay is low experts who can speak several languages are leaving the editorial office. (World Broadcast Information No. 34 August 20th) According to *Radio Moscow*, President Yeltsin signed a budget to keep the station's transmitters on the air. (World Broadcasting Information No 35 August 27th)

High power shortwave transmitter sites in the Moscow area include: Kurovskaya-Just east of Mistsevo village east of the town of Kurovskoye. It has many transmitters in the 100-200 kW range for Foreign and Home Service. Noginsk-Just west of this town with several 100-200 kW transmitters for Home and Foreign Service. Chkalovskaya-Is just southeast of the town of Shchelkovo. It has three or four transmitters in the 100-200 kW range. Zelenogradskaya-Is east of Lesnoy and has many 250 kW transmitters used in parallel to provide 500 or 1000 kW output.

Kupavna-Is south of Kupavna and SSB relays with other broadcasts unconfirmed. Balashikha-The site is west of town and has a large number of 20 kW former jammer transmitters which are now used to relay transmissions from some CIS republics. Kurkino-Site is west of the town of Khimki but broadcast activity from this site is unconfirmed. Taldom-Site is east of the town of Taldom and has several transmitters in the 100-200 kW range for Home and Foreign services. Other sites in Russia include: Sankt-Peterburg-Popovka southeast of St. Petersburg. It has 17 transmitters, mostly 200 kW. Two pairs sometimes are paralleled to produce 800 kW. *China Radio International* is also relayed from this site. This site was enlarged and modernized in the early 1970s. Samara-Is

a large site for Home and Foreign Service with transmitters in the 100-200 kW range. The exact location still has not been determined. The Ostankino company also lists "Saransk" under the Samara heading, but it is not known what this stands for. Samara is also used for relays of foreign broadcasters. Krasnodar-Is a site with a dozen transmitters from 120 to 1000 kW used for Foreign Service and some Home Service transmissions. The exact location remains unknown. This site went on the air in 1967-68. Yekaterinburg-About 20 transmitters, mostly of 100 kW that are normally used in pairs. It has both Home and Foreign Service as well as several relays of foreign broadcasters. The exact location remains unknown. Novosibirsk-Has numerous transmitters in the 50-200 kW range. The site is believed to be south of the city and it is used for Home and Foreign Service in addition to relays of foreign broadcasters.

Oyash-Is northeast of Novosibirsk in the direction of Tomsk with 5 transmitters in the 500-1000 kW range that went on the air in 1974-75. Relays of foreign stations and the Foreign Service are broadcast from here. Angarsk-Is southwest of this town and west of Irkutsk. There are at least 4 transmitters in the 500-1000 kW range here. Having gone on the air in 1971-2 its used for the Foreign Service and relays of foreign broadcasters. Irkutsk-The original Irkutsk site is near the city and has a number of 50-100 kW transmitters used for Home Service only. Chita-Is near the Trans-Siberian railway south of the village of Atamanovka. It has three 500 kW transmitters that went on the air in 1972. They are used for the Foreign Service and relays of foreign broadcasters and one is used to put out local programs on 4860.

Khabarovsk-Is used for Home and Foreign Service transmissions using many 50-200 kW transmitters. The site seems to be just north of the city. Komsomolsk-There are two separate sites, one for the Home Service with four 100 kW transmitters and a site for the Foreign Service with a few transmitters in the 200 kW range. One likely location is northwest of the city, another one southwest of the city near the town of Elban. There is also a local transmitter at Komsomolsk. Razdolnoye-Just south of this village and north of Vladivostok. It has one 120 kW transmitter for Home Service programs and several transmitters of 120 to 1000 kW for the Foreign Service. The 4040 transmitter may be located near Vladivostok, perhaps at the Tavrishanka medium wave station.

Petropavlovsk-Kamchatskly-Has four 100 and 250 kW transmitters for Foreign Service and relays of foreign broadcasters as well as a local transmitter. The exact location is unknown but seems to be some distance west of the city. Two of the transmitters were

added in the summer of 1974. (Alm Dx'ers Calling August via Fred Kohlbrenner)

Voice of the Assyrians Firstly, BBC Monitoring Service does not list this is a clandestine so you will see it listed under Russia from now on. See the August LN under **CLANDESTINE** for background information on this station. (HJ) The station is run by Moscow's Assyrian Community. There are an estimated one million Assyrians living in Russia. (World Broadcast Information No. 10 March 5th) The station is on daily from 1600 to 1700 on 12075 and 7305 with programs in Assyrian and Russian. There are also announcements in Persian and Arabic. (World Broadcast Information No. 34 August 20th)

Radio Station Nadezhda The current schedule is: 0600-1000 on 15120 9730. 1000-1400 11745 11705 111665 9730 9725 6045. 1400-1700 17675 15340 11850 1430-1700 12005 11855 9490 1900-2300 7280 5905. (World Broadcasting Information No. 35 August 27)

Radiostantsiya Tsender is a religious that transmits at 12010 from 0530-0600 and 1530-1600 on 9880. The station's address is Andrey Nekrasov, Radio Station Centre, Nikolskaya St. 7, Moscow 103012, Russia. (ibid No. 37 Broadcasting Schedules September 10th)

Trans-World Radio is using the **Radio Moscow** transmitters at Irkutsk for Indian-language programs at 1030-1500 on 11655 and 0030-0200 on 11995 (Cushen DX Party Line August 20th via Mike Fern)

Rukhi Miras is on the air from 1500-1600 on 17890 12075 11630 7160 and 4055 in Tatar and Arabic. (Summary of World Broadcasts World Broadcasting Information No. 38 September 17th)

Slavyanka Radio (Slav Radio) has been received in Japan on 11985 4975 4940 4740 from 1600 until 1630. It might be on other frequencies as well. (Kato Media Roundup September 19th) 11985 heard with good signal and no QRM at 1600 on September 23rd. Not heard on listed 11835. (HJ)

RWANDA - 15340.03 **Radiodiffusion Rwanda** Heard on this new frequency signing off with French id and closing announcements and at 2100 on September 15th. (HJ) First heard on September 13th, schedule is 1800-2100. They are also using new 9610 parallel 6055 from 0300-1400 with programming in Kinyarwanda. From 1400-1800 9610 carries English and Swahili programming. 6055 continues in Kinyarwanda until 2100 shutdown but news bulletins in French continue to be heard at 0430 1115 and 1800. The station appears to have stoppd using 3330. (Summary of World Broadcasts World Broadcasting Information No. 38 September 17th)

9610 tentatively heard in English signing off at 1758 on September 23rd. No anthem. The important thing is that the channel is clear. (HJ) **Detusche Welle** facilities are not being used on these new channels. (9610 15340) It appears that the Rwandan government radio has dropped 3330 and switched around some of its resources (transmitters). (Jonathan Marks Media Network September 23rd) I believe that there is alot more to this story than that. 3330 is listed at 20 kW and 6055 is listed at 50 kW in the 1993 WRTH. 3330 is a very hard catch here in North America. 6055 is in such poor shape that its second harmonic of 12110 is better received here than the fundamental. I believe that the signal on 15340 is more than 20 kW or 50 kW. Its probably a new transmitter with a power closer to 250 kW. Note that they have also started a new service (English and Swahili) on 9610 running 4 hours a day. This all takes money and I look forward to reading about the rest of the story on this one. (HJ)

ST KITTS and NEVIS - see UNITED STATES

SAUDI ARABIA - **Holy Koran Program** 17740 is the new frequency from 1000-1100 ex 21705 as heard September 7th. (Station News Australian Dx News September)

SOUTH VIETNAM see VIETNAM

SPURS - 5000 at 1140 is **Radio Rebelde CUBA** (Dave Valko, HJ September 4th)

5035.9 in Spanish is **Faro del Caribe** and has also been heard at other 20 khz increments. (Dave Valko)

SRI LANKA - One of the main pressures of reporting for the **BBC** in Sri Lanka is the extraordinary size of our audience here. We broadcast in English, Tamil and on the newly re-established Sinhala service. The military ban on batteries entering the north, where the Tamil service has a huge following, does not deter the radio fanatics.

Many people listen to the nightly Tamil broadcast using a bicycle generator to power their radio. The Tamil service in Bush House gets regular letters of complaint when there is no Sri Lankan news: "We pedal furiously for half an hour to listen to you and then nothing on Sri Lanka. How can you do this to us?" (Chris Morris BBC Worldwide September 1993)

VOA Correction to the September LN: The new Sri Lanka station will be a new site, near Chilaw, rather than at a larger site further north. From what I can gather, it is apparently only a fringe group objecting to the station; a single priest, not the Catholic Church in Sri Lanka. Construction is proceeding. (Dan

Ferguson) A *Voice of America* radio station being built in a remote corner of Sri Lanka has raised fears among fishermen and pitted the local Roman Catholic church against the world's remaining superpower. The fishermen, who have staged vociferous protests to halt construction of the VOA station, fear it may mean American submarines will patrol off the island's north-western coast one day, denying them their fishing grounds. They also fear losing their land to the Americans, who they think may use the VOA station as a cover for a military communications center. The United States insists the high-powered shortwave transmitters being built on a 400-acre (161-hectare) coconut estate in Iranawila will improve its public radio broadcasts to Asia, Africa and the Middle East, and nothing more. The new facility on the coast, 80 km (50 miles) northwest of Colombo, should be completed by 1995. It is meant to replace existing VOA transmitters which have been broadcasting for 40 years near the capital, the U.S. embassy has said.

The mainly Catholic fishermen say construction work on the project, which began early this year, has damaged their homes, disrupted their lifestyle and threatened their livelihood. The local church has thrown itself behind them and lobbied the government to scrap the project. (Reuters via Sweden Calling Dxers September 6th via Dan Ferguson)

SUMATERA see INDONESIA

SURINAM - *Radio Apintie* 5005 The station is back on this frequency, having left 4990.9. (Wilkins Krueger DX South Florida No. 306 September 10th) Bad news (HJ) 50 watt transmitter is made by *Phillips* and the 350 watt linear amplifier is made by *Henry*. (Field Fine Tuning No. 705 August 31st)

TADZHIKISTAN - The site at Dushanbe has three 100 kW transmitters used by Moscow Home-Foreign Service on 4740 4940 4975. Two transmitters are used by Dushanbe Hom-Foreign Service on 4625 7245. The site is a little to the north of Dushanbe at Yangi-Yul. Orzu site is east of Kolkhozabad and it is used for Moscow Foreign Service via four 250-1000 kW units. It went on the air during the period January 1971 to April 1974. (Alm Dx'ers Calling August via Fred Kohlbrenner and Rich D'Angelo)

Program One 4635 from 0029 until ? and *Program Two* is on 7245 with local programs from 0029-0100 and 0500-1400 and has *Foreign Service* programming from 1400-1800 which is repeated from 0100-0500 the next day. English is at 1645-1700 and 0345-0400. (Martin, Foster OZDX No. 84 September via Rich D'Angelo)

TAIWAN see CHINA-TAIWAN

TANZANIA - *Radio Tanzania* 5050 and did not change frequency to 5055 as reported in Issue No. 751 (Pavanello Play Dx No. 752 August 23rd) Correction to September LN (HJ)

THAILAND - *Or Sor* Bangkok 6149.8 Heard signing off at 1157 after a program of Thai vocals and Dixieland jazz on August 21st when co-channel Colombian was off. First time heard since 1988! (Foster OZDX No. 84 September via Rich D'Angelo) This is the station of the Royal Palace and it is on from Tuesdays to Saturdays (Veerakoon Union of Asian Dxers via Dave Clark's World Radio Report Dx Ontario October)

Radio Thailand 9655 English service now starts at 2330 ex 2300. (ibid)

TIBET - *Xizang PBS* 4820 signing on at 2240 on this new frequency. Parallel 4035. (Petersen Shortwave News September)

TURKEY - *Radio Izmir Cinarli Lisesi Radosu* is on the air from about September 1st until May 31st each year from 0700-0900 and 1100-1300. (1 hour later from September 26th) on 7103. The transmitter was made by the technical institute. The full name and address are: Teknik ve Endustri Meslek Lisesi Deneme Radosu, Cinarli, 35110 Izmir, Turkey (Pankov Shortwave News September)

Voice of Turkey Ian MacFarland interviewed Ms. Semra Eren, head of the English service of the *Voice of Turkey* on September 13th.

IM: When did Turkey first come on the air on SW?

SE: The SW transmissions on what was then called Shortwave Ankara Radio, began on Nov. 10, 1938, with news of the demise of Kemal Ataturk, the founder of the Turkish Republic. The broadcasts were carried on a 20 kW transmitter. The languages were just English, French and German, 15 min each. Then Romanian, Arabic, Farsi, Bulgarian, Greek and Urdu were added after 1940. In 1963 the station changed its name to the *Voice of Turkey* and the department in charge of these broadcasts acquired the title of "External Broadcasting Department." Until 1940, transmissions consisted solely of newscasts. A 30 minute program in Turkish was aired twice a day for Turks living abroad in 1940. Urdu and Serbo-Croat were added in 1941, followed by Hungarian, Italian, and Pashtu. Polish was added in 1949 and Spanish in 1950. When Turkey sent troops to join the Korean war, a daily program called "The Soldiers' Hour" was aired between October 1950 and July 1953 to boost the

morale of the Turkish troops there. In 1950 "Shortwave Ankara Radio" began transmitting with 100 kW power. In the same year, feature programs were aired twice a week but only during English transmissions.

IM: Is there one particular target area and language that perhaps is more prominent?

SE: Well, of course, English is, followed by German. These are the ones that receive the most letters from listeners.

IM: Is it a government owned operation or is it semi-independent?

SE: Turkish Radio and TV Corp., of which the VoT is a part, is an autonomous body affiliated to the Prime Minister's office. It elects its own director-general for a four-year term, but a new law is being drawn up to give the government more say in the administration and the director-general will be appointed by the Prime Minister. Since its inception the TRT has been the state's sole broadcasting organization.

But on July 8 Parliament passed a long-awaited bill to amend Article 133 of the constitution lifting the state monopoly on radio and TV broadcasts.

The inception and operation of private radio and TV stations will be regulated by law once the constitutional change becomes effective. So we have a ... of clandestine radio and TV stations already in operation which will thus acquire legal status once this law becomes effective.

IM: It looks like you're going to have quite a thriving private radio and TV business.

SE: Yes, we already do have some.

IM: What kind of programs do you have in addition to news?

SE: We have had rotating SW antennas since 1987. We have 15 languages. With the emergence of new republics in Central Asia, most of which use different dialects of Turkish, the VoT has felt the need to begin transmissions to these new target areas too. Future plans of the VoT include broadcasts in Armenian, Georgian, Turkmen, Uzbek, Kazakh, Kyrgyz and Uighur languages. We are also planning to add Italian and Spanish which were dropped along the years.

Apart from the news, we have programs promoting the economic, social and political aspects of our country. as you know, the country has a very strategic position, like a bridge between the East and the West. So it has a vast history of many civilizations flowing from these lands. So we have programs relating to these civilizations; we have programs about Turkish history, about the economic aspects of the country. We have cultural programs. We have the International

Istanbul Festival which runs every year for about a month, which has many foreign guest artists. We also have programs covering many Turkish resort towns. We have, of course, the DX program and the Letter Box program which top the lists of programs favored by our listeners.

IM: I understand that a few lucky listeners also get a chance to see the country at first hand. Could you tell us a little about the essay contests?

SE: It is certainly a unique opportunity not to be missed. The VoT organizes an essay contest every year. The subject is chosen every year and it is announced to the listeners through our programs. Those who send in the seven best essays are invited to Turkey for a ten-day all-expense-paid trip, during which they are taken on sightseeing tours of the historical sections of various cities. They also visit the VoT, so they have opportunity to meet the voices behind the microphone, which is very interesting for them. It usually is a wonderful get-together of the listeners and broadcasters and in all, I think it is a pleassant experience for everyone.

IM: Do you have any plans to add relay transmissions?

SE: Not a relay. Turkey is planning to launch a communications satellite by the end of this year, which will ameliorate radio and Tv reception to a great extent throughout the world. It is a joint venture with France. It is still in the project stage, but it should be completed and launched by the end of this year.

IM: How are shortwave listeners going to be able to take advantage of the satellite broadcasts? Is it direct broadcasting from the satellite on SW frequencies?

SE: It is still on the project basis, so I have very little information on what is going to be. I suppose the SW will also be benefiting from this satellite. (Media Roundup September 12th via Mike Fern)

UKRAINE - Brovary site is in the middle of town and has eight 50-200 kW transmitters. They are used entirely by Kiev except for a few relays of Radio Minsk. Kharkiv (Kharkov) is a site whose exact location is unknown. It has three 100 kW transmitters, one is used by Moscow Foreign Service in the evenings while the rest of the time it is used for Kiev Home and Foreign Service. Lviv (Lvov) appears to be located east of town near Kranshe. It has a 1000 kW unit used for Kiev Foreign Service and other transmitters paralleled to produce 1000 kW for Moscow Foreign Service. Kopani site is between Mykolayiv and Kherson and has two 1000 and four 500 kW united

shared equally by Kiev and Moscow Foreign Services. Moscow's two 500 kW units are connected in parallel. At a second site Kiev has a 100 kW unit, which is used by its Foreign Service. (Alm Dx'ers Calling August via Fred Kohlbrener and Rich D'Angelo)

VOA 4940 Is heard here with relay of Ukrainian service from 2030-2100 daily. Parallel 11750. First noted September 3rd. (Padula Australian Dx News September)

Radio Voskresenye is an independent station run by the Greek Orthodox Church. Schedule is: 15215 at 2300 and 9520 at 1230. The address is: P.O. Box 5159, ul. Vladimira Velikogo 33, 290053 Lvov Ukraine
see CANADA

UNIDENTIFIED - Radio San Andres 4254.5 is apparently the name of a new station, probably Peruvian, that was heard on August 19th at 0110 with huanyos. (Klemetz Play Dx No. 754 September 6th)
See SPURS

UNITED ARAB EMIRATES - Radio of the UAE Abu Dhabi 7215 Heard on this new frequency in Arabic at 2100 on August 20th. (Padula Australian Dx News September)

UNITED STATES - VOA With regards to the Dixon relay site, Perry G. Pitts of VOA explained in a personal letter: "Operations from the site have been completely discontinued and VOA is in the process of liquidating the assets of the station. . . . (Changes) have eliminated the need for two transmitter sites on the West Coast and led to the demise of Dixon. VOA plans to return custody of the site to the General Services Administration as soon as possible. (Anthony Scott Helm)

Brother Stair's radio ship 'Fury' has 2 x 40 kW and 2 x 10 kW transmitters and will be ready in October. He is also planning to go on shortwave via HONDURAS. (Ernie Behr) see NEVIS

WWCR 3 5810 heard testing from 0100-0500 on September 13th and later with program material from **WWCR 1**. (Mike Fern)

M/V Sarah, the ex-home of **Radio New York International** has been sold to MGM pictures to be used in the film *Blown Away*, its in Boston harbor being fitted with a new facade top. The tower and antennas from the Sarah have been mounted on **M/V Fury**. (Karl Zuk Monitoring Times /Zeller Numero Uno No. 1235 September 3rd) The station has no had any luck in getting permission to transmit from ANGUILLA, ST KITTS or NEVIS but they are proceeding with outfitting the ship. (Rachel (Bonn)/Al Weiner/ Karl Zuk September 16th via World of Radio No. 712 September 24th)

UZBEKISTAN - Tashkent site is just west of the city with at least 10 50-200 kW transmitters used for local and Moscow Home-Foreign Services and relays of foreign broadcasters. (Alm Dx'ers Calling August via Fred Kohlbrener and Rich D'Angelo)

BBC relays to India via Tashkent are scheduled from 0030-0255 on 12055 and 1330-1545 in Asian languages on 15460. (Cushen DX Party Line August 20th via Mike Fern)

Radio Tashkent Hisashi Mogi of the Japan BCL Federation visited Uzbekistan to find out about this station's overseas service. **Radio Tashkent's** blue modern building looks a bit like a mosque. The staff gave him a very friendly welcome and told him foreign visitors were rare. Mogi interviewed the Senior Editor, Miss Perva Tailo, and the mail staff.

The parent organization of **Radio Tashkent** is the State Radio TV Company of Uzbekistan, which has a staff of 190. Eight of these are responsible for producing the station's English service, and four handle correspondence.

Radio Tashkent broadcasts for 14 hours daily in 10 languages, including Turkish, Hindi, Urdu, Farsi, Dari, Pushtu and Uighur for Central and South Asia. The station also has an Arabic service and a service for Uzbeks living abroad. Mail from overseas listeners can reach 200 letters a day. Nine out of 10 letters come from India, Bangladesh, and other Southeast Asian countries. It also receives an increasing number of letters from Scandinavia, suggesting that reception has recently improved in that region. **Radio Tashkent** continues to sponsor listeners' clubs despite the cost. **Salom Aleikum Listeners Club** is open to anyone who asks to join. It has about 3600 members. **Club No. 2, Radio Tashkent DX Club**, requires applicants to send 10 reception reports to qualify and each one must be verified by the station. It has about 650 members. **Radio Tashkent's** future plans include expansion of service to SE Asia, where listener demand has been high. It has also received many requests from Germany and Japan for services in German and Japanese, but has no plans for those languages at the moment. Both projects require cabinet or parliamentary approval. (Media Roundup September 13th via Mike Fern)

VATICAN - Vatican Radio 10000 Heard on multiple receivers at 1620 in Russian. (Pankov Shortwave News September)

VENEZUELA - Radio Mundial Los Andes 6010 is the new complete name of this station, reflecting new ownership by **Radio Cadena Mundial** (San Gil via Glenn Hauser August 23rd)

VIETNAM - Son La BS 4670.3 This is the latest frequency this station has been heard on. Ided at 1200. (Schulze Fine Tuning No. 705 August 31st)

Gai Lai BS, Pleiku 4788.25 This is the latest frequency for this one which was logged at 1140. (ibid) This is the only station that is located in the former **SOUTH VIETNAM**. (HJ)

Unid 4805.5 at 1212 but don't confuse with **RRI Kupang** on 4804.6 (Foster OZDX No. 84 September via Dave Clark's World Radio Report Dx Ontario October)

Radio Yen Bai which is part of **Hoang Lien Son BS** noted on new 6401v ex 6390v at 1130-1215 (Veerakoon Union of Asian Dxers Newsletter via Dave Clark's World Radio Report Dx Ontario October)

Bac Thai BS 6627v ex 6653v from 1200-1400 (ibid)

Voice of Vietnam celebrated its 48th anniversary on September 7th. (Summary of World Broadcasts World Broadcast Information No. 37 September 10th)

ZAIRE - La Voix Du Zaire-Mbuji Mayi 7295 Has been tentatively heard. (Reiner Shortwave News September) No time given (HJ)

ZAMBIA - ZNBC 7234 Heard here in English from 2108 until 2204 close down on September 5th. Ided as above rather than listed **Radio Two** (Dxpedition Dunlop Pa HJ Larry Yamron Dave Valko)

DAVE VALKO'S TIPS are as follows:

11915	BRAZIL	<i>Radio Gaucha</i>	0200
3222	TOGO	<i>Radio Kara</i>	2306*
4875	CHINA	<i>Voice of Jinling</i>	*1155
2390	MEXICO	<i>Radio Huayacocotla</i>	0100*v
5025	BENIN	<i>Radio Parakou</i>	2200*
3355	PAPUA NG	<i>Radio Simbu</i>	1100
7445	TAIWAN	<i>Voice of Asia</i>	1100
5020	NIGER	<i>ORTN</i>	*0530 and 2300*
9505	PERU	<i>Radio Tacna</i>	1027

EQUIPMENT - The German SWL club ADDX has a very active technical support department run by Charlie Hardt. They are now offering two modifications for owners of the Lowe HF-150. One is a separate signal-strength meter box. By soldering a few cables inside the receiver, it's possible to provide a light for the liquid crystal display. The complete modification costs DM 140 plus DM 6 postage within Germany. For more information, send an SASE and IRC to: Charlie Hardt, Edelhoffstrasse 70, D-42857 Remscheid, Germany. The fax number is (49) 2191-83557. (Media Network September 16th via Mike Fern)

PUBLICATIONS - DX SHOWS *Australian Dx News*, the bulletin of the Australian Radio Dx Club, will temporarily be reduced from a monthly length of 12 pages to 4 pages starting with the October 1993 Issue. The reason is that no one has volunteered yet to assume the position of editorial coordinator now that Mick Ogrizek is leaving the position. (*Australian Dx News* August)

Radio News, a Venezuelan bulletin, has not published in the last six months due to economic difficulties but will try and get out an issue during August or September. (Play Dx No 752 August 23rd)

Arthur Cushen's Radio World Although many stations carry this report, many seem to edit it. The most complete version I am hearing is on *Radio New Zealand's* Mailbox Program bi-weekly Thursdays on 9700 at 0830. (HJ)

World Broadcasting Information has been renamed and divided into 2 parts since the start of September. *SWB Media-World Broadcasting Information* and *SWB Media-Broadcasting Schedules*. This will make it easier to find the news you want and allow you to subscribe to just the section that you are interested in. The *SWB Media* will also be available on-line directly from BBC Monitoring using a standard computer modem. It will be possible for you to dial in to the latest developments in the world of broadcasting, or to regularly up date broadcasting frequencies and transmission schedules. Queries can be directed to Rosy Wolfe, Head of Marketing at telephone +44 (0)734 469289 or by fax at +44 (0)734 463823. (Letter to HJ from BBC Monitoring August 31st)

QSL Reports

Sam Barto
47 Prospect Place
Bristol, CT 06010



ABU DHABI: UAE Radio 11885 f/d info. sheet in 28 ds. (Anderson-MI). f/d cd. in 37 ds. for an EG rpt. (Dukes-SC).

ALASKA: KNLS 9615 f/d cd. w/ personal ltr. in 74 ds. w/ schedule. (Humenyk-ONT).

ALGERIA: Radio Algiers International 17745 f/d cd. w/ schedule and a rpt. form in 28 ds. for 2 IRCs. (Pankake-MN).

ANDAMAN ISLANDS: All India Radio 4760 via Port Blair f/d "15th Century Ruins" cd. in 63 ds. Reply came from Delhi. (Wilkins-CO).

ASIATIC RUSSIA: Radio Nederlands 9860 via Irkutsk f/d cd. in 33 ds. (Buer-FL). 7260 via Petropavlovsk f/d cd. in 145 ds. (Buer-FL). Adventist World Radio 9835 via Novosibirsk f/d "Zaokskaya Seminary" photo cd. in 190 ds. for \$1.00. Also rcvd. personal ltr. from Igor Revtov, AWR Coordinator. (Buer-FL). same w/ personal ltr. in 161 ds. w/ postcard for a taped rpt. and \$1.00. (Klinck-NY). in 4 mo. for \$1.00. (Orcutt-NY). Radio Moscow 6070 via Novosibirsk f/d cd. in 3 mo. (Field-AUSTRALIA: VNG 16000 via Llandilo f/d MI). folder cd. in 65 ds. for \$1.00. v/s Ron Max-

field. (Buer-FL). Radio Australia 17795 f/d ltr. w/ sticker and schedule in 38 ds. (Lane-ONT). 17750 via Carnarvon f/d ltr. w/ schedule in 26 ds (Stephens-AL). 15170 f/d ltr. in 30 ds. for ms. (Pappas-SD). VLG 7240 f/d "Wilderness" cd. w/ schedule in 32 ds. for ms. v/s Nigel Holmes.

* (Jarvis-CA). Australian Armed Forces Radio 17790 via Darwin f/d ltr. in 26 ds. for SASE and 2 IRCs. v/s A. Patulny. (Stephens-AL). 12070.5 f/d personal ltr. in 44 ds. for a taped rpt. and 2 IRCs. v/s Hugh McKenzie. (Klinck-NY). f/d prepared cd. in 5 wks. for SASE and \$1.00. This

* was from the Belconnen site. (Orcutt-NY). 12070.5 via Canberra site in 32 ds. and 2 IRCs (returned). 13508.5 via Exmouth n/d form ltr. in 32 ds. Both of the last two from Wilkins-CO).

AUSTRALIA (Pirates): Radio G'Day 11400.1 f/d red cd. w/ stickers from AM/FM stations in Australia and an info. sheet in 127 ds. for a taped rpt. and 2 IRCs. 30 watts! (Stephens-AL).

AUSTRIA: Radio Austria International 9880 f/d sheet w/ schedule in 1 mo. v/s Franz Rymes. (Kusalik-ALB). 9870 f/d ltr. in 14 ds. (Dukes-SC).

BAHRAIN: Radio Bahrain 9746 p/d "Map" cd. in 38 ds. (Stephens-AL).

BONAIRE: Trans World Radio 11930 f/d cd. in 1 mo. for ms. v/s Sally Rork. (Pappas-SD). f/d "Special Flamingos" cd. w/ stickers and a personal

note in 22 ds. for 2 IRCs. (Wilkins-CO). last day f/d

folder cd. w/ sticker in 23 ds. for 1 IRC. (Jarvis-CA). same w/ sticker in 35 ds. (Humenyk-ONT). f/d

"Diver" cd. in 3 wks. for 1 IRC. (Pankake).

f/d cd. for the last day w/ sticker, info. sheet and brochures

in 26 ds. for 2 IRCs. (Stephens-AL). 15345

cd. in 1 mo. for 1 IRC. (Pankake-MN).



RADIO REBELDE

La Habana,
Cuba

via Lobdell

¡Al Ritmo de la Vida!



QSL

11930 and 9535 f/d cd. in 35 ds. (Millard-TX). 11815 cd. in 38 ds. This is a reproduction of the original 60s cd. (Washburn-ME). 9535 f/d cd. in 33 ds. (Wilkins-CO).

BRASIL: RadioBras 15445 n/d cd. in 4 mo. for ms.

v/s Gaby Hertha Einstoss. (Pappas-SD). f/d cd. in 3 mo. for \$1.00. (Anderson-MI)

Radio Nacional da Amazonia 6183 n/d form ltr. w/ schedule in 78 ds. for 2 IRCs. v/s Renato Geraldo de Lima. (Jarvis-CA). **China Radio International** 15445 via **Brasilia** f/d cd. in 54 ds. (Buer-FL).

BURUNDI: Radiodiffusion Television Nationale

du Burundi 6140 f/d cd. in 2½ mo. for \$1.00 and a taped rpt. (Klinck-NY). f/d "Logo" cd. w/ personal ltr. in 22 ds. for a registered rpt. and ms. v/s Gregoire Baranpunba, News Room Editor. (Stephens-AL). same in 68 ds. after a f/up rpt. in FR/EG w/ \$1.00. (Kusalik-ALB).

CAMEROON: CRTV Garoua 5010 f/d ltr. w/ cloth pennant in 67 ds. after several f/up rpts. for an 87 reception. (Stephens-AL).

NOTES: Melvin McClure is a relatively new member. He uses a Kenwood R5000 along with an AD Sloper antenna. He left New England in 1947 so he wouldn't have to shovel snow. Hope you enjoy the heat in the San Bernadino area...Sam. **Brian Bouden** has finally applied for the DX Pacific Award. Hope you get it...Sam. Another new member, **Al Dukes, Jr.** sent in some reports for the QSL Column. He uses a Grundig Satellit 500 for his primary receiver.

CANADA: RCI 21710 f/d cd. w/ sticker and pennant in 8 ds. (Corlies-ONT), **CFVP** 6030 f/d ltr. in 2½ wks. for ms. v/s Ken Pasolli, Technical Director. (Sgrulletta-NY)...Tnx for phone call...Sam. **CFRX** 6070 f/d "Map/Logo" cd. w/ station info. sheet in 11 ds. v/s Stephen Canney. (Stephens-AL). **CFCX** 6005 p/d cd. w/ ltr. in 86 ds. v/s John Stubbs, VP of Operations. (Stephens-AL).

CELEBES: RRI Gorontalo 3266.4 f/d prepared cd. w/ f/d ltr. in IN in 10 mo. for SASE. v/s Saleh S. Thalib, Kepala Teknik. (Field-PA). **RRI Ujung Pandang** 4753 f/d prepared cd. in 1 mo. after a f/up rpt. in IN Schedule was rcvd. v/s L.A. Rachim Ganie. (Sgrulletta-NY).

CHINA, PEOPLES REP. OF: China Radio International 9770 f/d cd. in 17 ds. (Lane-ONT)...Mali?...Sam.

COOK ISLANDS: Radio Cook Islands 11760.6 f/d * prepared cd. in 4 yrs. for SASE. This was on the 6th try. (Ambler-PA).

COSTA RICA: Adventist World Radio 9725 f/d "Flower" cd. in 6 wks. for ms. v/s David L. Gregory. (Pappas-SD). **Radio For Peace International** 21465 f/d cd. w/ schedule in 56 ds. (Lane).

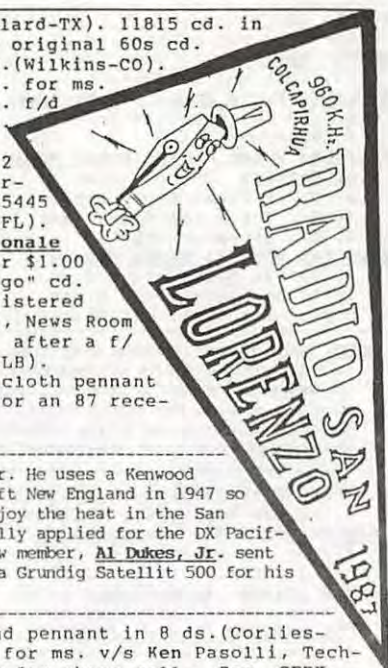
CUBA: Radio Rebelde 3365 p/d cd. in 1 yr. (Schwartz-NY). **Radio Havana Cuba** 6010 p/d cd. in 139 ds. (Lane).

CYPRUS: Cyprus Broadcasting Corp. 9770 and 6180 f/d cd. in 46 ds. for ms. (Field-PA). **BBC** 15310 f/d cd. w/ sticker in 37 ds. (Lane).

CZECH REP: Radio Prague f/d cd. w/ sticker in 33 ds. (Lane). **Radio Ropa Info** 5980 via **Lit-omysl** f/d multi-colored cd. in 38 ds. for 2 IRCs. v/s Sabine K. Thome. (Kusalik-ALB).

DODECANESE ISLANDS (Rhodes): VOA 9715 f/d cd. in 26 ds. (Stephens-AL).

DOMINICAN REP: Radio Cima 4960 f/d cd. w/ pennant and ltr. in 9 mo. for a SP rpt., tape and ms. (Klinck-NY).



QSL



RADIO STELLA INTERNATIONAL

Date: 2-5-7-73

Time: 0040-0042 v.t.c.

Freq: 7446 kHz

Watts: 20

Correct reception report from

CHAS LODGELL
STOWHAM
MASSACHUSETTS
U.S.A.

Verified by

Jock Wilson

Jock Wilson
Station Manager



Scottish Free Radio on shortwave.

DUBAI: UAE Radio and TV Dubai 13675 f/d cd. w/ schedule and pennant in 31 ds. (Humenyk).

EGYPT: Radio Cairo 9900 f/d "Tomb" cd. in 8 mo. (Schwartz-NY).

ENGLAND: Radio Japan via Skelton p/d cd. w/ schedule in 26 ds. (Stephens-AL).

ERITREA: Voice of the Broad Masses of Eritrea 7380 f/d blue cd. w/ provisional gov't seal in 46 ds. for a taped rpt. and \$1.00. (Stephens-AL).

EUROPEAN RUSSIA: Radio Moscow 12070 via **Serpukhov** f/d cd. in 53 ds. for 1 IRC. I was

hoping for Kishinev! (Wilkins). 12070 via **St. Petersburg** for the 12/92

NOTES: Kevin Murray has been away from DXing for 4 months as he relocates from Oregon to Mass. By the middle of September I should be in a new home. Looks like a lot of our members are moving or relocating... Sam. **Scott Helm** sent in a water soaked letter from the area of the Kansas River. Please send a little of that rain this way to New England. We can use a little. Thanks for the color photocopies. They sure are great! Wouldn't it be nice if the Journal could be produced in color?... Sam.

1200UTC transmission. v/s Mrs. Eugenia Stepanova sent a personal ltr. I too was hoping for Kishinev! (Berg-MA).

FRANCE: RFI 17575 via **Issoudun** f/d cd. w/ schedule in 49 ds. for 2 IRCS. (Wilkins-CO).

FRENCH GUIANA: Radio Japan 15325 f/d cd. in 26 ds. (Dukes-SC).
China Radio International 11680 f/d cd. w/ site, sticker and paper cut in 3 1/2 mo. for 2 IRCS. (Pankake-MN).

GABON: Radio Japan 15355 f/d "Flower Garden" cd. w/ schedule in 49 ds. (McClure-CA). **RFI** 12015 f/d cd. w/ schedule in 21 ds. (Jarvis-CA).

GERMANY: Deutsche Welle p/d cd. in 1 mo. (Humenyk-ONT).

RFE/RL 9520 via **Lampertheim** f/d cd. w/ schedule in 23 ds. (Humenyk). **Radio Bremen** 6190 f/d "Antennas" cd. w/ sticker in 45 ds. Schedule was rcvd. v/s Jim Senberg. (Stephens-AL).

GREECE: Foni Tis Helladas f/d cd. in 164 ds. w/ schedule. (Lane). I give up! Is this Greek for the Voice of Greece?... Sam.

GUAM: KSDA 11980 f/d "Train" cd. for the "DX Asia Waves - ARDXC Program" in 27 ds. for \$1.00. v/s Bob Padula. (Wilkins-CO).

HOLLAND: Radio Nederlands 6020 and 6125 f/d cd. w/ schedule and sticker in 30 ds. (Lane).

HONDURAS: HRXK La Voz de Mosquitia 4910 f/d prepared cd. w/ p/d ltr. and station pennant in 7 ds. for an EG rpt. sent to the Tupelo address. v/s Sammy Simpson, Director. (Stephens-AL).

HONG KONG: BBC East Asia Relay

11820 f/d cd. in 17 ds. for \$1.00. v/s Phillip Sandell. (Wilkins-CO).

HUNGARY: Radio Budapest 11910 f/d cd. in 46 ds. (Humenyk-ONT).

IRAQ: Radio Iraq International 15180 p/d ltr. in 142 ds. after 3 rpts. v/s Jamal Al-Samaraie, Head of the Dept. (Schwartz-NY).

IRELAND: Radio Stella International 7446 f/d blue cd. in 2 wks. for \$1.00. 20 watts. v/s Jock Wilson. (Lobdell-MA).



QSL RADIO OITO DE SETEMBRO
VERIFICATION CARD DESCALVADO - SP.

Station Rádio 8 de Setembro
For Mrs. Kreis W. Field

Thank you for your reception report. We are pleased to verify your reception of our transmission on 17 October 1992 from 2317 ~~5000~~ hours UTC on 2.990 kHz. with a power of 250 watts.

A. G. G. S.

RADIO OITO DE SETEMBRO
DESCALVADO - SP.

RADIO OITO DE SETEMBRO
DESCALVADO - SP.

Official Seal

LOOK OUT!



via pilot Chris Lobdell

IT'S THE RADIO AIRPLANE!

RECEIVING FROM THE FREE SKIES OVER NORTH AMERICA

ISRAEL: Kol Israel 17575 f/d cd. in 24 ds. (Dukes-SC).

ITALY: RAI 9575 n/d cd. in 49 ds. (Lane).

JAPAN: Radio Japan 9750, 11815, 11865 and 11735 (via Sackville, Canada) w/ f/d "Shirakawa Village" cd. in 1 mo. for ms. v/s H. Kawamoto. (Pappas-SD).

JORDAN: Radio Jordan 13655 f/d cd. w/ schedule * in 26 ds. for a taped rpt. and ms.

KALIMANTAN: RRI Palangkaraya 3324 nice f/d personal ltr. in 105 x ds. for an IN rpt. and SASE. v/s Ricky D. Wader, Station Manager. (Murray-MA).

KAZAKHSTAN: Radio Netherlands 12025 via Alma Ata f/d cd. in 6 wks. for 1 IRC. (Carter-WA). same in 70 ds. (Stephens-AL). in 2 mo. w/ schedule.

KOREA, PEOPLES REP. OF: Radio Pyonqyang 11335 f/d cd. w/ (Field-MI). schedule and pennant in 6 wks. My rpt. was sent by SPEEDXer Tsunaaki Ashimori in Japan. (Clar-NY).

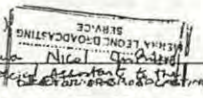
LITHUANIA: Radio Vilnius 11750 and 12040 f/d cd. in 36 ds. (Lane).

MAURITANIA: ORTM 4845 f/d cd. in 21 ds. for

Station Sveer Leave Broadcasting Service

For Kais W Field

Thank you for your reception report. We are pleased to verify your reception of our transmission on 16 October 1992 from 2201 UTC on 3316 kHz. with a power of 10 Kilo watts.



Official Seal

OFFICIAL SEAL
SVEER LEAVE BROADCASTING SERVICE

3 JANUARY 1993

RADIO EUROPE

EX-PEdition of GIFFORD ANCHOT STINE
PAEK - PENNSYLVANIA - USA.
- R. D'ANGELO
2216 - CHEVY DRIVE
WYOMISSING, PA 19610
USA - FAIR
- 121.13 DECEMBER 92
- 14.4 - 1000 + 100 - 1326 OR
- 25900 KHZ - POLTELO, ITALY
- DRAKE RB - 12 FTN 400
- 150 WATT

Thanks for your report, just from
US on the frequency
25900kHz
73's RADIO EUROPE
7295-Khz

NOTES: Kris Field says that he will be moving into a townhouse and after a few short weeks into a new home. Sounds like a good deal to me...Sam. Frank Wheeler sent in some QSLs after a hiatus of several years. Although the journal has changed considerably (for the better!), he was glad that the QSL Column still retained the same high quality of editorial excellence. Hi! Hope you don't mind that I added that last piece...Sam. Barry Schwartz says that this summer has been a bit slow for QSL returns. He only needs one (1) more country for the NASWA Centurion Award!

a FR rpt. v/s Madame Fatimetou Fall Dite Ami, Secretaire de Direction. Very pleased with this one! (Stephens-AL).

MEXICO: Radio Educacion 6185 f/d ltr. in 6 1/2 mo. for a SP rpt., tape and \$1.00. (Klinck)

MOLDOVA REP: Radio Moscow 12070 and 15485 via Kishinev f/d "Cosmos Hotel" cd. in 46

ds. This after 2 f/up rpts. (Kusalik-ALB)...You got lucky - others did not do so well...Sam.

NEPAL: Radio Nepal 5005 f/d cd. after a f/up rpt. for ms. and SASE. Tnx to Kohlbrener for tip on this one. (Field-PA).

NEW BRITAIN: Radio East New Britain p/d ltr. in 37 ds. for ms. v/s Otto Malatana, Station Manager. (Stephens-AL).

QSL VERIFICATION

RADIO REPUBLIK INDONESIA STASIUN REGIONAL I AMBON

Kepada Yth. Tuan YUSU W. PISAN

Kami membenarkan laporan Tuan dari Radio Republik Indonesia AMBON siaran pada Gelombang 61.66 meter, atau frekuensi 4865 KHz. pada tgl. 18 oktober 1992 dan Pkl. 20.40 sampai 21.00

waktu Indonesia Timur. Pemancar kami berkawatian 10 Kw.

Banyak terima kasih atas laporan Tuan.

Ambon, 6 SEPTEMBER 1992



NEW GUINEA TERRITORY: Radio Eastern Highland 3395 p/d ltr. in 102 ds. for ms. v/s Ignas Yanam, Technical Officer. (Stephens-AL).

NIGERIA: Voice of Nigeria rcvd. a 42 page program schedule in 106 ds. but no QSL! (Stephens)

NORWAY: Democratic Voice of Burma 15180 f/d cd. w/ ltr. in 4 mo. for a taped rpt. and \$1.00. v/s Maung Maung Myint. (Clar).

RIO MUNI: Radio Africa 7203.3 f/d cd. in 26 ds. after a f/up rpt. to CA addr. (Kusalik-ALB).

000 East Asia Relay Station (Hong Kong)	
DLI CONFIRMATION CARD	
Frequency	17 350 KHz
Beating	20° 4.5A.
Power	250KW
Date	4.9.71
Time	23.38.



H.K. EAST ASIA RELAY CO., LTD.

Hong Kong East Asia Relay Station
Licence No. 1145 Hong Kong
Incorporated in Hong Kong



RUSSIA: Radio Aum Shinrikyo 11630 and 11760 f/d cd. w/ schedule * in 61 ds. (Lane). **Christian Radio Station "Alpha and Omega"** 9685 f/d prepared cd. w/ f/d ltr. in 51 ds. for a RS/EG rpt. and 2 IRCs. (Kusalik-ALB).

Guess what idiot just reinvented the alphabet and put the "Rs" before the "Ps"?

(Boulden-CA).
PALAU: KHBN 9830 f/d cd. in 3 wks.
PAPUA TERRITORY: Radio Western 3305 f/d ltr. in 1 mo. for a f/up rpt and ms. v/s G. Gadabing, Provincial Station Manager. (Sgrulletta-NY). **Radio Northern** 3345 p/d

ltr. in 35 ds. for ms. v/s Roma Tererembo, Assistant Provincial Program Manager. (Stephens-AL). **Radio Southern Highlands** 3275 p/d 3 page ltr. in 35 ds. for ms. v/s Andrew Meles, Provincial Station Manager. **Radio Sandaun** 3205 f/d "Map" cd. w/ p/d ltr. in 17 ds. after a f/up rpt. for ms. v/s Paia Ottawa, Technician. (Stephens-AL).

PERU: Radio Oriente 6190 f/d computer generated form ltr. w/ f/d prepared cd. and schedule in 1 mo.

for a SP rpt. and ms. v/s Pedro Gapo Moraes, Gerente Technico. (Orcutt-NY). **Radio Vision 2000** 5131 n/d form ltr. w/ very nice photo of "Parque Principal de Bambamarca". Arrived via registered mail in 136 ds. for a SP rpt. and \$1.00. This after a f/up rpt. v/s Marino Tello Cruzado, Gerente-Proprietario. (Durdan-GA). **Radio Tarma** 4775 f/d ltr. in 7½ mo. for a SP rpt., tape and \$1.00. (Klinck-NY). **Radio Madre de Dios** 4950 f/d "Map" cd. in 34 ds. for a SP rpt. and \$1.00. (D'Angelo-PA).

PORTUGAL: Radio Portugal International 9570 f/d "World Map" cd. w/ sticker and schedule in 25 ds. (Stephens-AL). 9705 same cd. w/ sticker and schedule in 52 ds. for 1 IRC. (Jarvis-CA). **RFE/RL** 9555, 9705 and 11725 f/d cd. in 24 ds. (Humenyk).

SAINT HELENA: Radio Saint Helena 11092.5 f/d "ZHH 25th Anniversary" cd. in 8 mo. w/ info. sheet for \$1.00. VIC #200!!! (Wilkins). same in 105 ds. v/s Tony Leo. (Stephens-AL). f/d cd. in 155 ds. for ms. (Jarvis-CA) same w/ form ltr. in 10 mo. after a f/up rpt. (Lobdell-MA).

SIERRA LEONE: SLBS 3316 p/d ltr. w/ prepared cd. in 36 ds. for ms. v/s Joshua Nicol, Special Assistant to the Director of Broadcasting. (Stephens-AL).

RADIO AFRICA

THANK YOU FOR YOUR RECEPTION REPORT OF
DATE 4-21-91
TIME 2200 - 2254 UTC
FREQUENCY 7190 KHZ

RADIO AFRICA BROADCASTS EVERY DAY FROM 6:00 PM TO 11:00 PM LOCAL TIME IN BATA (1700-2200 UTC).

FREQUENCY FROM MAY 14, 1989 ONWARDS 7190 KHZ 41 METERS.

LISTEN ALSO TO RADIO EAST AFRICA, 9585 KHZ 31 METERS, 0500-1400 UTC SATURDAY & SUNDAY

FOR MORE INFORMATION AND A PROGRAM SCHEDULE PLEASE WRITE:

RADIO AFRICA
10201 TORRE AVE., SUITE 320
CUPERTINO, CALIF. 95014 USA



SLOVAK REP: Radio Slovakia International 5930 f/d "Radio Bratislava Building" cd. in 34 ds. (Stephens-AL). 9810 same in 27 ds. for 1 IRC. (Wilkins-CO).

SOLOMON ISLANDS: SIBS 9545 f/d "Logo" cd. in 9 mo. for an IRC. SASE. (Murray-MA).

SOUTH AFRICA: Channel Africa 17710 f/d "Kalahari" cd. w/ decal in 3½ mo. for 2 IRCs. (Kusalik-ALB). **Radio Orion** 4810 f/d cd. w/ personal ltr. and schedule in 48 ds. v/s J.H. Odendaal, (Stephens-AL).

SPAIN: Spanish Foreign Radio

9530 f/d cd. in 163 ds. w/ sticker and schedule (Lane).

SULAWESI: RRI Ujung Pandang

4753.6 f/d prepared cd. in 5 1/2 mo. after a f/up rpt. in IN for SASE. v/s Bambang Pudjono. (Murray-MA).

SUMATERA: RRI Palembang

4855 p/d ltr. in 121 ds. after a f/up rpt. in IN for ms. v/s H.A. Syukri Ahkab. (D'Angelo-PA).

SURINAME: Radio Apintie

4990.9 f/d ltr. on a very nicely embossed letterhead. Took 79 ds. for \$1.00 (Field-PA).

SWEDEN: Radio Sweden International 11705 f/d cd. in 17 ds. (Dukes-SC).

TANGIERS: VOA 11850 f/d "US Capitol Building" cd. in 26 ds. (Stephens).

THAILAND: VOA 11785 f/d "Map" cd. in 34 ds. (Stephens-AL). 11820 f/d cd.

in 44 ds. for 2 ms. v/s John Vodenik. (Buer-FL).

TIBET: Tibet PBS 7110 f/d "Yambu Lagang Fortress" cd. w/ schedule in TB/

CH in 6 mo. for SASE and \$2.00. v/s Logsang Chonphel, Announcer. (Murray-PA).

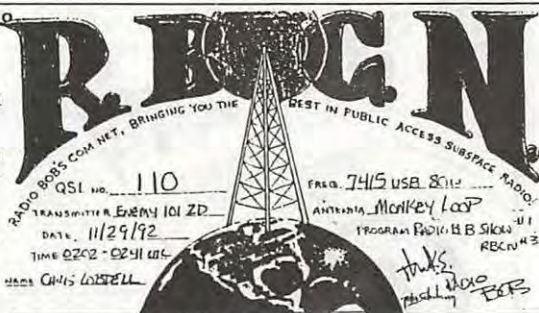
TIMOR: Radio Pemerintah Daerah Tingkat II Manggarai 2962 n/d ray-MA).

* ltr. in 30 ds. for an IN rpt. and \$1.00. v/s Patrisius Yohanes P. Nasir. (Yamada-JPN).

USA: WSHB 5850 f/d "Photo" cd. in 65 ds. v/s Judy P. Cooke, Staff. (Humenyk-ONT). 9495 f/d cd. in 18 ds. (Humenyk). same in 35 ds. (Dukes-SC). Voice of America Europe 10869 special f/d "Natchez Riverboat" cd. in 22 ds. (Kusalik-ALB). same w/ sticker in 36 ds. (Wilkins-MS). f/d cd. in 20 ds. w/ personal ltr. (D'Angelo-PA). WENW 7425 f/d "St. Gabriel" cd. w/ schedule and

form ltr. in 18 ds. for ms. (Wilkins-MS). 17725 same cd. in 34 ds. v/s William Steltemeier, President. (Stephens-AL). KGEI 9615 f/d "San Francisco View" cd. in 14 ds. for ms. v/s Edgar Peebles. (Jarvis-CA). KVOH 9785 f/d "Map" cd. w/ schedule in 201 ds. for ms. (Jarvis-CA). WRNO 15420 f/d "Louisiana - A Dream State" cd. in 74 ds. (Washburn-ME). WYFR 11830 f/d cd. in 17 ds. (Humenyk-ONT). WJCR 7490 f/d "Logo" cd. w/ ltr. and schedule in 61 ds. for ms. v/s Gerri Powell. (Wilkins-MS). WCSN 9850 f/d "Antenna" cd. in 29 ds. (Humenyk). 17510 f/d cd. in 17 ds. (Humenyk). f/d cd. in 42 ds. for 1 IRC. (Corlies-ONT). WFLA KPM360 25870 p/d cd. w/ info. sheet in 2 mo. 100 watts. v/s Wilson Welch, Chief Engineer. (Kusalik-ALB). p/d "Logo" cd. w/ coverage map in 31 ds. (Stephens-AL). KJES 9510 f/d cd. in 8 ds. after a f/up rpt. v/s Michael Reuter, Manager. (Stephens-AL).

USA (Pirates): WREC 7417.6 f/d cd. in 91 ds. for ms. (D'Angelo-PA). 7417 f/d "Bust" cd. in 33 ds. v/s P.J. Sparx. (Stephens-AL). The Radio Airplane 7465 f/d QSL #92 in 6 wks. w/ info. sheet and sticker for 3 ms. (Clar-NY). Solid Rock Radio 7465 f/d cd. of the "Rube Goldberg" style rig via the Wellsville drop in 2 wks. for 3 ms. Mine was cd. # 11. (Lobdell-MA).



Gracias por su reporte de sintonia... Thank you for your report on tuning in...
Fecha DICIEMBRE 23 de 1990
para nuestra frecuencia de 4832
en la banda de 60 metros
Cordialmente
Transmisor Rafaela Bona G.
Sistema RadioMundo H.B.
San José, Costa Rica, Central America
P.O. BOX. 341 - 1000



Mr. MIKE FRANZEN
2396 SHADWOOD RD.
WAYZATA MN.
U.S.A. 55391

CHILE
PLAYA ANCHA RADIO
Centro de Telecomunicaciones Marítimas de Valparaíso
via Andy Wallace
CBV



USA (Pirates): Radio USA 7416 f/d "10th Anniversary Birthday Cake Photo" cd. in 101 ds. for 3 ms. (D'Angelo-PA).

WEED 7415 "Multi-personal QSL sheet" via a rpt. in ACE and the Pirate Pages. (Kusalik-ALB).

WQSL 7415 f/d "Logo" cd. in 16 ds. for ms. v/s Ken Hill. (D'Angelo-PA).

KMCR 15050 f/d cd. in 30 ds. v/s Magic Mike. (Stephens). **North American Pirate Relay Service** 7417

f/d "Map" cd. in 33 ds. (Stephens). **Radio Esoterica** 7416 f/d "Cartoon Sheet" w/ personal ltr. in 31 ds. (Stephens). **Fourth of July Radio** 7404

f/d red "Liberty Bell" cd. in 1 1/2 yrs. after several rpts. (Stephens). **Pirate Radio Boston** 7465 f/d "Kristen Kaye at 13" cd. in 9 ds. (Stephens-AL). **Union City Radio** 15050 f/d yellow "Logo/Skull" cd. in 32 ds. v/s Mark Taylor. (Stephens). **WRV** 7415

f/d green cd. in 45 ds. (Stephens). **URGZ** 15050 f/d round cd. in 3 mo. for a rpt. to the ACE bulletin. (Stephens). **Radio Strange** 7415 f/d info. sheet in 6 mo. for a rpt. to ACE. (Stephens). **WMAD** 7418 f/d "Nude Woman w/ CB Equipment" sheet in 45 ds. v/s Al Jaffee. (Stephens). ...Do you do anything but listen to pirates?... Sam. **KMRZ** 7415 f/d blue cd. in 23 ds. (Stephens). **Anarchy One** 7417 f/d "Logo/Schematic" cd. w/ personal ltr. in 38 ds. for a taped rpt. (Stephens). **Secret Mountain Laboratory** 7415.8 f/d "Antenna Sheet" in 23 ds. (Stephens). **Radio Garbanzo** 7416 f/d sheet in 17 mo. after a few f/up rpts. (Stephens). **WGRR Christian Rock Radio** n/d laminated "Pirate Ship/Logo" cd. w/ personal note for a relay reception via **CSIC** which I did not hear! QSLing gets easier every day! Hi! (Stephens-AL).

Wire Line Radio 7418 f/d yellow "Cartoon Folder" sheet w/ a tourist brochure in 348 ds. after 2 f/up rpts. Also rcvd. a QSL for 7561 w/ a red version of the above OSL. (Stephens). 7435 f/d sheet in 2 mo. for a rpt. to the bulletins. (Lobdell-MA).

WLIS 7414 f/d "Crusty the Clown and Selma" sheet in 6 wks. for rpts. in the bulletins. v/s Charles Poltz. (Lobdell-MA). **WEED** 7415 f/d "Montage" sheet in 8 mo. for a rpt. on the Radio Hobby Hotline BBS. (Stephens).

VATICAN CITY: Radio Vatican 15090 f/d cd. in 3 wks. for 1 IRC. (Corlies-VIETNAM: **Voice of Vietnam** 15010 f/d cd. w/ info. and schedule in ONT). 118 ds. for \$1.00. (Durden-GA).

YUGOSLAVIA: Radio Yugoslavia 9580 f/d "Belgrade" cd. in 5 mo. for \$1.00. Also rcvd. 2 mini-stickers and station pennant. (Wheeler-KS).

广 播 收 听 证

We had another good QSL Column this month. Hope everyone enjoyed reading it.

Best of QSLing.

亲爱的朋友，
兹证明您1992年5月2日的收听报告符合我台(4875千赫)节目内容。

欢迎您继续告诉我们收听情况。

谢谢!

Dear Friend, Kevin Murray

Your reception about our broadcasting (4875 KHz) is correct on 2 May 1992 between 1335-1410 (UTC)

You are warmly welcome to write to us again.

Thank you very much.

Voice of Jingling
Broadcasting Station
Nanjing, China



Contributors' Page

Vernon Hyson
5410 Camp Stewart Road
Charlotte, NC 28215
CompuServe 76516,1531



LOGGINGS CONTRIBUTORS - September 1993 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	NRD525 vs LW
Mark ANDERSON, Prescott, MI	DX440 60' Random
Jerry BERG, Lexington, MA	R8 R390A HQ180A 150' LW
Julianna BICKUS, Herdon, VA	ATS803A Transoceanic 25' Reel Antenna
Jim CLAR, Rochester, NY	R8 FRG8800 Eavesdropper 110' LW
David M. CLARK, Newmarket, ONT	R8 2-R7 HQ180A Many antenni
Richard D'ANGELO, Wyomissing, PA	R8 AD Sloper Farley Loop FL3
William DAVENPORT, Nashville, TN	DX308 ICF7601 AN1
Steven JARVIS, Long Beach, CA	Sony 2010 LW AN1
Hans JOHNSON, Columbia, MD	R8 AD Sloper 50' Longwire
Wayne JOHNSON, Silver Spring, MD	
W. KARCHESKI, Holden, MA	R5000 AD Sloper
Marie LAMB, Brewerton, NY	R600 MFJ16010 20m/90m LW
Harold LEVISON, Philadelphia, PA	R8 R70 D2999
William McGUIRE, Cheverly, MD	DX380
Don MOORE, Davenport, IA	R5000 Sony 2010 FRG7 ICF7600D 400' Mini- Beverage
Ed NEWBURY, Bridgeport, NE	R8 R5000 70' Windom 66' Dipole 45' Segmented
Marina PAPPAS, Huron, SD	DX400 Indoor Random
Ed RAUSCH, Cedar Grove, NJ	R5000 Sony 2010 MFJ959 Eavesdropper 150' LW
Doug ROBERTSON, Oxnard, CA	DX302 FRG8800 FRA7700 ATS808 LW
Betsy K. ROBINSON, Clinton, TN	R8
Mark SEIDEN, Miami, FL	NRD93 102' G5RV 114' Random
Robert TUCKER, Savannah, GA	ATS803A
Juichi YAMADA, Nara, JAPAN	NRD525 10m long Dipole

On the 4th thru 6th of September, Hans Johnson logged with Larry Yamron & Dave Valko from Buffalo Run using a 400' Beverage, a 600' Beverage & a 1000' unterminated Beverage - other beverages were not included on the list. Nor was the real location of Buffalo Run - I would presume Pennsylvania?

Contrary to the pictures in last month's issue, at the top of the Tropical Band and International Band loggings pages, Wallace & Sheryl have not swapped columns! Please continue to report as usual.

I hope all of you are geared up for the DX Season with all your antenna connections waterproof and tight - antennas strung at the right height and direction and your receivers and related equipment tuned and ready to go.

Enjoyable listening & good DX -

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



- 2100hp GUATEMALA LV de los Cuchumatanes 8/23 tropical mx & marimba, 2x1050, weak but clear (Moore-IA)
- 2310 AUSTRALIA VL8A 8/23 1113 pop mx //others, all poor (Moore) 9/5 1116 pops, watery audio (Brown-WI)
- 2325 AUSTRALIA VL8T 9/5 1118 //2310, poor (Brown-WI)
- 2390 GUATEMALA LV de Atitlan 9/1 0220 mx, ID 0315 (H. Johnson-MD)
- 2500 AUSTRALIA VNG 9/11 1123 TP, W amnt each minute, also 9/12 1129 w/ID, freq amnt (Clark-ON)
- 3020 UNID 8/21 1008 vy weak w/OM in SP, last winter an unid Ecuadorian harmonic here (Moore-IA)
- 3204.4p JAVA RRI Bandung 8/10 to 1715* trad mx, SCI, Jak nx, 1605 ID, poor (Yamada-JAPAN)
- 3214.8 SULAWESI RRI Manado 8/24 1330 lcl pops, tlk, 1353 ID, "R Rep Indo Manado" 1358 IS, lcl nx, fair (Yamada-JAPAN)
- 3220 ECUADOR HCJB 9/7 1018 Quechua ment LA cties, Sousa march, SP call ltrs, folk mx //6080 (Lamb-NY)
- 3220 NEW GUINEA R Morobe 8/23 1123 fair w/island mx (Moore-IA)
- 3222.9p SUNDAS RRI Mataram 8/28 to 1159* tlk, lcl mx, poor w/QRM North Korea on 3220 (Yamada-JAPAN)
- 3230t SOUTH AFRICA R Oranje 8/29 to 0457* some vern tlk, mostly continuous instls, pgm sounds more like Oranje than ELWA (Alexander-PA)
- 3231.8 SUMATRA RRI Bukittinggi 8/24 1520 trad mx, IS, 1529 ID, "R Rep. Indo. Bukittinggi" lcl nx, pops (Yamada-JAPAN)
- 3235 NEW BRITAIN R/RNB 8/15 1028 church svc on excellent PNG morning (Clark-ON)
- 3255.2 UNID 8/5 0050 ballads, poss PT, brief tlk, poss slogans & IDs, poor, poss the Brazilian (Clar-NY)
- 3264.6 SULAWESI RRI Gorontalo 8/15 1114 lcl pops, SCI, Jak nx, 1210 ID "siaran R Rep. Indo. Gorontalo" (Yamada-JAPAN)
- 3264.9 SUMATRA RRI Bengkulu 8/17 1320 drama, 1343 ID, mx, tlk poor (Yamada-JAPAN)
- 3270 NANIBIA NBC Windhoek 8/8 2347, pops, 50s/60s mx, swing ID, TC, brief amnts (Clar-NY) 9/4 2347 pres w/nonstop Afr., US & GM pops, no amnts in an hour (Lamb-NY)
- 3279 ECUADOR LV del Napo 7/28 1010 SP OM w/poss rel pgm (Newbury) 9/10 1035 amnts, greetings, 1100 ID (Seiden-FL)
- 3290 NANIBIA NBC 8/18 0253 EG addr, Afr & rock mx, NA (Lamb-NY)
- 3300 GUATEMALA R Cultural 7/29 0324 SP rel pgm, fair (Newbury-NE)
- 3306.3 TIMUR RRI Dili 8/28 to 1559* lcl pops, 1555 closing amnt, 1556 chimes, SIO=332 (Yamada-JAPAN)
- 3315 NEW GUINEA R Sandaun 9/5 1129 OM in Pidgin (Brown-WI)
- 3320 SOUTH AFRICA R 2000 8/17 0114 in lang w/continuous mx, fair (Levison-PA) 8/8 2318 nonstop EZL incl Nat King Cole, Elvis & instl Snowbird (Clar-NY)
- 3325 BORNEO RRI Palangkaraya 8/9 to 1556* nx, 1517 ID, lcl pops, QRM North Korea on 3320 (Yamada-JAPAN)
- 3337.9 HOZAHIBIQUE Em. Interprov. Naputo 8/29 0311 hilife & YL anncr, canned amnts 0329, vy good opening (Clark-ON)
- 3339.9 PERU R Altura 9/10 1028 tlk in SP, ID 1030, brief tlk, Peruvian mx (Seiden-FL) Appreciate your writing in--sp.
- 3345 MOLUCCAS RRI Ternate 8/29 1228 lcl pops, 1258 ID, SCI, Jakarta nx, 1306 ID, SIO=443 (Yamada-JAPAN)
- 3345p NEW GUINEA R Northern 9/5 1123 tribal chorus, South Seas guitar, OM in Pidgin, wouldn't rise from het (Brown-WI)
- 3356 BOTSWANA RB 9/4 0433 QRM free & loud w/jazz pgm (Brown-WI)
- 3358.9 MADAGASCAR RRI 8/29 0301 opening amnt, choral anthem, long tlk, best on USB away from ute (Clark-ON) Also 0315 8/23 stronger than 5008.9, audio dropped out at times strong despite Botswana 3356 & ute 3357 (Clark-ON)

- 3366 CUBA R Rebelde 9/8 0724 tlk, medium strength (Jarvis-CA)
 3366 GHANA GBC-2 9/12 to 0100* EG pops & C&W, nx //4915 at 0045, choir, ID, anthem (Lamb-NY) 8/29 0354 w/EZL, ID as Radio 2 Commercial Svc, pledge, brief EG nx, OC on 4915 till 0358 cock crow & Radio 1 ID (Clark-ON) 8/8 2334 pops & EZL incl Sinatra & Wilson Pickett, ID, Afropops (Clar-NY)
- 3369.3 MOZAMBIQUE Em Prov Beira 8/29 0319 OM tlk, poor thru QRN but steady on this freq, diff pgm on 3282.5 (Clark-ON)
- 3375 BRAZIL RN Sao Gabriel de Cacheira 9/10 1005 Latin mx, sev IDs, R. Educadora just underneath (Seiden-FL)
- 3375 NEW GUINEA R Western Highlands 9/5 1202 low level but steady sig w/OM EG nx (Brown-WI)
- 3375.5 SUMATRA RRI Medan 8/24 1545 lcl pops, 1558 SCI, Jak nx, station jingle, ID "R Rep. Indo. Nusantara Satu Medan" (Yamada-JAPAN)
- 3385 NEW BRITAIN RENB 9/5 1210 many ment of PNG & lcl mx, good sig w/co-channel CW (Brown-WI)
- 3395 SWAZILAND TWR 8/28 *0425 handbells IS, EG ID "This is Trans World Radio Swaziland" orch mx bridge, into German (D'Angelo)
- 3395.1 SUMATRA RRI Tanjung Karang 8/23 1505 nx, ID "Inilah R Rep. Indo. Tanjung Karang, trad mx, poor-fair (Yamada-JAPAN) 8/21 2259 carrier, 2310 nx in progress, window at this time roughly 1/2 hr after xatr SR & 1 hr before rcvr SS (Clark-ON)
- 3905 IRIAN JAYA RRI Merauke 8/29 0937 w/dialog, over/under PNG and at 1025 w/IN pops (Clark-ON)
- 3905 NEW IRELAND RRI 8/17 0851 pop mx, weak but clear (Jarvis-CA)
- 3925 JAPAN R Tampa 8/17 0900 JP M&W tlk, this comes in often here (Jarvis-CA) Tnx for the loggings!--sp. 8/30 1455 JP monolog, 1500 ID, fair (Robertson-CA)
- 3934p JAVA RRI Semarang 8/18 1120 tlk, pops, SCI, nx, poor w/Jamming. 1705 s/off (Yamada-JAPAN)
- 3935p NEW ZEALAND ZLXA 9/6 0930 weak tlk, mx readable to 1002* (H. Johnson-MD)
- 3945 VANUATU R Vanuatu 8/29 1004 just caught w/closing anthem (Clark-ON)
- 3976p JAVA RRI Surabaya 8/17 1130 tlk & gamelan mx, poor (Yamada)
- 3985 SWITZERLAND SRI 8/23 0450 FR/EG accordion mx, EG 0455, yodeling choir, nx (Lamb-NY)
- 3995 BORNEO RRI Pontianek 8/16 1352 mx, ID, IS, 1402 nx as "warta berita antar kabupaten" fair (Yamada-JAPAN)
- 3996 UNID Indo 8/30 1540 dangdut mx, 1549 silence, 1605 Jak nx, lcl pops //9680 except 1549-1605, poor (Yamada-JAPAN)
- 4000.1 SULAWESI RRI Kendari 8/16 1100 relay of "warta berita nusantara" from Ujung Pandang, 1108 lcl ID (Yamada-JAPAN)
- 4003.2 SUMATRA RRI Padang 8/16 1431 dangdut mx, 1454 ID, "R Rep. Indo. Padang," 1459 SCI, TP, Jak nx (Yamada-JAPAN)
- 4450 CLAND Vo Natl Salvation 8/30 1451 in lang, effectively jammed, poor (Robertson-CA)
- 4605.1 IRAQ R Baghdad 9/5 *0155 IS, amnts, NA, Koran (Alexander-PA) Also 9/4 to 2323* Koran, NA, weak (Alexander-PA)
- 4606.4 IRIAN JAYA RRI Serui 1134 CH in IN (Moore-IA)
- 4610 ASIATIC RUSSIA Khabarovsk 9/12 1117 RS dialog, mx, RS vcls, presumed ID, good (Robertson-CA)
- 4650 CLAND Vo Iranian Kurdistan 8/30 0255 "Ayra dangi Kurdistan Irana," fanfare, summertime *0215 (H. Johnson-MD)
- 4697.2p JAVA RKIP Surabaya 8/18 1530 wayang kulit pgm, 1600 nx (Yamada-JAPAN)
- 4712.5 BOLIVIA R Abaroa 8/20 0950 SP echo IDs, slogans, freq amnt, Andean mx (Clar-NY) 9/5 1017 ballads, ID w/lots of static TBS lists *1100 Sunday which is not always true (Moore-IA)
- 4753.5 SULAWESI RRI Ujung Pandang tent 8/22 1125 lively tlk, songs sfx, flute w/lst 8 notes of Bridge over River Kwai, 6 TP 1200 (Pappas-SD) 8/10 1348 pops, IS, TP, lcl nx as "warta berita antar kabupaten dan kotanadya Sulawesi selatan." 1410 ID, dangdut mx (Yamada-JAPAN) 8/30 1405 SCI, Jak nx, oops I mean mx pgm at 1405 (Robertson-CA) 9/5 2259 for SCI Jak nx (Clark-ON) I mixed up those pgm details--sp.

- 4753.8 BRAZIL R Educacao Rural 8/13 0155 lively pops, ads & slogans, poor (Davenport-TN)
- 4754.8 BRAZIL R Educacao Rural 8/17 0830 SAM pops, PT anmts, fair w/heavy QRN (Jarvis-CA)
- 4760rf LIBERIA ELWA *0555, 2140 tnx WOR tip, IS, hymns, Back to the Bible, IDs, lite rel mx, TC, 2159 Radio ELWA ID, NA to 2201* (Alexander-PA, Rausch-NJ, V. Johnson-MD, Berg-MA)
- 4765.9 SUMATRA RRI Medan 1057, 2300 lagu popular, YL anncr, muffled audio, Koran 1140, 1547 jingle, 2313 lcl ID, hard rock (Clark-ON, Yamada-JAPAN)
- 4770 NIGERIA Kaduna 9/4 0435 CM in lang (Brown-WI) 8/31 0545 pop mx pgm, medium to strong (Jarvis-CA)
- 4775 PERU R Tarma 8/16 1010 Andean mx, ID, fair (Newbury-NE)
- 4779.7t ECUADOR R Centinela del Sur 8/21 1018 tropical mx, TCs v/ poor w/heavy CW QRN (Moore-IA)
- 4785 COLOMBIA Ecos del Combeima 9/4 0958 "En Ecos del Combeima, el Musical Super. . . desde la heromsa capital musical de Colombia, Ibague. ." "Concierto Colombiano," ads for Brandy Almirante (Moore-IA)
- 4787.4v VIETNAM SOUTH Gia Lai BS Pleiku almost surely the one 9/12 2250, drifting up, then typical fast drop, off before 2315 (Clark-ON)
- 4789.6 IRIAN JAYA RRI Fak Fak 8/18 1020 EG/IN, 1120 EG, 1039 & 1101 IDs, fair (Yamada-JAPAN)
- 4795 BRAZIL Rdf Aquidauana 9/4 0947 canned rel pgm, ID w/freqs at 0956 (Moore-IA)
- 4800 INDIA AIR Hyderabad 8/23 *0025 IS, anmt, choral theme, YL hosting mx pgm, EG nx 0035, SC mx (Clark-ON)
- 4804.6 UNID suspect RRI Kupang 9/10 1100 peak w/threshold audio, between 1100-1115 what may be new Vietnamese on 4805.5. These would correspond w/7/5 logs by Foster in OZDX (Clark)
- 4815 CHINA R Beijing 9/12 *1301 IS, RS ID, tlk, mx bridge, fair-good (Robertson-CA)
- 4815vp MAURITANIA ORTM 8/4 2348 tlk, phone calls, chant, fair (Clar-NY) No, vp doesn't stand for very poor, stands for variable & presumed--sp.
- 4820 HONDURAS HRVC 8/19 0111 rel tlks, 0130 ID (Davenport-TN) 7/14 0310 "A Mighty Fortress," SP rel, good (Newbury-NE) 9/11 1134 ranchera mx, tlks, 1203 ID, good (Robertson-CA)
- 4820.9 PERU R Atahualpa 8/24 0959 NA, ID/slogan, TCs, freq anmt, ment Cajamarca, huaynos (Clar-NY)
- 4825 PERU LV de la Selva 9/1 0155 tlk, mx by Khaled, 0216 birthday song in EG, 0247 ID (Johnson, H.-MD) 7/17 1045 tlk w/bits of Andean flutes (Newbury-NE)
- 4829.4v MONGOLIA tell-tale RUB Altai wandering sig on 9/12 1153 weak audio but strong carrier from 4829.4-4829.7 (Clark-ON)
- 4830 BOTSWANA RB 8/26 0420 EG/Setswana w/US pops, Miriam Makeba, IDs, nx, PSA w/baby sfx, rooster crow (Lamb-NY)
- 4830 VENEZUELA R Tachira 9/2 1004 IDs, mx, 1041 nx, fair (Pappas)
- 4832 COSTA RICA R Relej 8/17 0030 IDs, TCs, wall to wall ballads (Davenport-TN)
- 4835 GUATEMALA R Tezulutlan 8/18 & 20 0015 poss nx, piano in backgd, rel tlk (Davenport-TN)
- 4837v MAURITANIA ORTM 9/5 0632 Koran, Afr mx, widely drifting, in 30 mins drifted from 4837.3 to 4830.3 (Alexander-PA)
- 4845 COLOMBIA Caracol Bucaramanga 9/5 2349 futbol, believe Colombia vs Uruguay World Cup prelim, not //5075 (Moore-IA)
- 4845 MAURITANIA ORTM 9/4 0024 AR call in pgm (Karcheski-MA) 9/9 2332 AR mx, speech 2340, decent w/static (Seiden-FL)
- 4855.9 SUMATRA RRI Palembang 8/22 2318 chatter, OM song, fair thru QRN but quick fade (Clark-ON)
- 4863.8 MOLUCCAS RRI Ambon 9/12 2200 SCI, nx, carrier holding up to 2215+ (Clark-ON)
- 4863.8 UNID 8/23 1101 SP nx, LSB a must (Moore-IA)
- 4865 CHINA Gansu PBS 9/5 2230 ID (H. Johnson-MD)
- 4865 COLOMBIA LV del Cinaruco 9/8 0746 SP tlk, best here in weeks (Jarvis-CA) 8/26 0915 Col. vs Czech futbol (Clar-NY)

- 4865 COLOMBIA LV del Cinaruco 7/28 0933 folk mx, OM anncr, exc (Newbury-NE)
- 4871 IRIAN JAYA RRI Wamena 8/30 to 1558* lcl pops, closing anmt, switched to 4866.4 (Yamada-JAPAN)
- 4874.6 IRIAN JAYA RRI Sorong 8/25 1020 US mx, lcl pops, 1033 ID, "R Rep. Indo. Sorong," SIO=332 (Yamada-JAPAN)
- 4875 BRAZIL R Roraima 8/23 1055 Braz pops, ID, ads, poor (Moore)
- 4875 SCOUTH AFRICA R Oranje 8/29 *0459 EG ID, lang tlk, ads, jingles, lite instls, fair (Alexander-PA)
- 4880 BANGLADESH RB 8/24 1410 in Bengali w/ID, drama (Yamada)
- 4890 PAPUA NBC 9/8 0750 slow mx, weak but clear (Jarvis-CA) 8/18 1105 EG nx, ment Port Moresby (Newbury-NE) 9/6 1106 YL EG nx, poor (Moore-IA) 9/5 1221 outstanding clean audio w/woody Blues (Brown-WI)
- 4895 COLOMBIA LV del Rio Arauca 8/19 0131 slogans, ads, sev ment Colombia, LA mx, weak (Davenport-TN)
- 4899.9 PERU Unid 9/6 1037 Peruvian folk mx, anmts, vy professional sounding, ads w/phone nos. poss ment Depto de San Martin and Rio Mayo (Moore-IA)
- 4904.5 CHAD RNT 9/4 2300 at s/off (H. Johnson-MD)
- 4915 GHANA GBC-1 0008, 2230 nx, hilife mx, GBC ID //3366, anthem, *0358 (Clar, Lamb, H. Johnson, Davenport)
- 4920 AUSTRALIA ABC Brisbane 8/11 1034 TC, "ABC Regional Radio," Simon & Garfunkel (Clar-NY) 9/7 1035 EG pops, TC, phone call w/kids in backgd (Lamb-NY) 9/5 1130 nx at good strength (Brown-WI)
- 4920 ECUADOR R Quito 8/21 1025 w/pasillos, ads, ID, "LV de la Capital," into nx, fair (Moore-IA)
- 4920.1p SUNATRA RRI Tanjung Pinang 8/28 1500 Jak nx, 1514 ID, lcl pops, 1529 IS, nx, pops, fair (Yamada-JAPAN)
- 4924.6 BOLIVIA R San Miguel 9/6 1010 w/"Primer Informativo de San Miguel," nx item abt disagreement btwn R Pio Doce & lcl military. IDs as R San Miguel & LV de la Selva (Moore-IA)
- 4925 SUNATRA RRI Jambi 8/21 1130 nx, choral anthem, also 8/22 2305 Jak nx (Clark-ON) 8/25 1335 drama, 1346 ID "R Rep. Indo. Stasiun Jambi," pops, SCI, fair (Yamada-JAPAN)
- 4931.7p JAVA RRI Surakarta 8/9 1435 tlk, mx, SCI, nx, poor (Yamada)
- 4945 BRAZIL R Progreso Porto Velho 0955 folk mx, IDs ment 50 KW of power, fair (Moore-IA)
- 4945 SOUTH AFRICA Channel Africa 8/28 to 1755* EG nx, ID, 1714 Hidenst type mx & Western pops, fair //11750 (Yamada-JAPAN)
- 4945.5 UNID 9/6 0335 AR rel tlk & Koran, half harmonic perhaps but 9885 blocked, needs work (H. Johnson-MD)
- 4953v PERU R Madre de Dios 8/21 1033 w/a sort of OA folk-pop mx, TC, sev IDs, slurred "Radio Madredios." (Moore-IA)
- 4954t PERU R Cultural Amauta 7/14 1045 LA mx, poor (Newbury-NE)
- 4960 DOM REP R Cima Cien 8/19 0030 salsa mx, slogans, lite tlk ID, weak (Davenport-TN) 8/28 0115 salsas incl "No puedo vivir sin ti," ID (Bickus-VA)
- 4965.5pf COLOMBIA R Santa Fe 0155, 1043 LA vcls, shouted Santa Fe, call ltrs, addr, campo mx, promos (D'Angelo, Rausch, Clar)
- *4969.9 SABAH RTM Kota Kinabalu 8/28 to 1700* phone tlk, lcl pops, TP, ID, "Radio Malaysia," fair (Yamada-JAPAN)
- 4970 VENEZUELA R Rumbos YL w/mx pgm (Jarvis-CA) Time? 7/28 0945 ID, tlk w/guitar, good (Newbury-NE)
- 4975 CHINA Fujian PBS 7/14 1056 CH tlk, TP, ID (Newbury-NE)
- 4980 VENEZUELA Ecos del Torbes 8/20 0150 nx, ads (Davenport-TN) 8/25 to 0358* marimba mx, vcls, ID, fair (Robertson-CA)
- 4987.8 SULAWESI RRI Gorontalo 8/28 to 1551* lcl pops, Love Ambon, Full ID, fair (Yamada-JAPAN)
- 4990.6 PERU R Ancash 8/16 0040 ID, "R Ancash Internacional," Folk mx, weak (Davenport-TN) 9/1 0411 instl pops, slogans shouted over mx (Lamb-NY) 7/14 1106 nx, ID (Newbury-NE)
- 5000 UNID 9/5 1043 tropical mx & EZL, some SP tlk, heavy WWV QRI, perhaps a lcl IW mixing w/YVTO? (Moore-IA)

- 5020 COLOMBIA Ecos del Atrato 9/5 to 0400* IDs, TCs, Caracol promos, LA pops, NA (Alexander-PA) 8/29 0253 lively mx pgm, occas. IDs (D'Angelo-PA)
- 5025 CUBA R Rebelde 7/5 0140 Intl Hit Parade, salsa (Bickus-VA)
- 5030 ECUADOR R Catolica Nacional 7/26 1130 piano mx, SP YL, rock hymn, 11 vocalist w/alleluias (Newbury-NE)
- 5034 CENT AFR REP RTV Centafricaine 8/27 to 2259* Afr mx, FR tlk, s/off anmt w/ID, NA (Lamb-NY)
- 5036 UNID 8/26 0914 SP professional sounding ads, flute mx, "La Biblia Dice," canned rel clearer than annor (Moore-IA)
- 5040 CHINA Fujian PBS 9/12 1058 tlk, IS, ID, nx (Robertson-CA)
- 5047 TOGO RTV Togolaise 9/11 *0455 chime IS, full ID, kids chorus, spirited mx, reggae, fair (Robertson-CA)
- 5049.7 ECUADOR R Jesus del Gran Poder 8/21 1015 ID, sermon (Rausch)
- 5050 COLOMBIA LV de Yopal 0225-0458* 9/5 pops, IDs, Caracol promos, TCs, s/off w/o NA (Alexander-PA) 9/10 0440 folk mx, IDs, 0455 QRN from Togo's IS (Robertson-CA)
- 5055 SWAZILAND TWR 8/21 0355 IS, EG ID, GM rel pgm (Rausch-NJ)
- 5055 COSTA RICA Faro del Caribe 8/6 1115 SP prayer, contemporary Christian mx, good (Newbury-NE)
- 5060.6 ECUADOR RN Progreso 9/5 0300-0403* ID, LA pops, NA (Alexander-PA) 8/22 0344-0430* vcls, anmts, TCs, IDs, s/off w/orch NA (D'Angelo-PA)
- 5075 COLOMBIA Caracol 7/5 0220 special from Medellin class mx Fest, interviews, great string mx by Col. composers (Bickus) 7/10 0635 EG ID, "This is Caracol Colombia, more power, more Colombia," ranchero mx, good (Newbury-NE) 9/6 0714 LA mx tlk, slight QRN, ID (Robertson-CA) 8/17 1029 mx, phone call, 2M hosts (Newbury-NE)
- 5131 PERU R Vision Dos Mil 8/25 0315 ID, QTH, TC, LA mx, fair (Rausch-NJ)
- 5850 USA WSIB 9/6 0721 ID EG variety pgm, good (Robertson-CA)
- 5880 CHINA CPBS 9/12 1230 tlk, full ID 1235, mx, vcls, 2nd pgm also 9/4, 1511 vcl mx pgm, tlk, 1600 TP, ID (Robertson-CA)

WILLIAM BROWN's loggings were made in La Crosse, WI this time. You may have noticed throughout the years we have 2 Fields as reporters, 2 Moores, 2 Robinsons, a Robertson, a Johnson and a Johnston. Well, this month we had 2 Johnsons from Maryland! I also kept getting mixed up between Don Moore of Davenport, IA and William Davenport of TN! Thanks for all the kind comments about this column. Be sure to give yourself a pat on the back for submitting all the material. WILLIAM DAVENPORT says now that baseball season is winding down, he hopes to have more loggings.

From MARIE LAMB comes word that the 1994 Passport to World Band Radio is just about here. Marie noted some EG on Radio Educacion last month. Well, that station comes in great here most nights so I checked it out and yes, they have EG interspersed with their SP, sounds like it may be permanent, with mailbag pgms & history of Mexico. I would like to send my best wishes to DAVE CLARK, whose summer ended up on a very sour note.

Thanks to those who have sent postcards to yours truly. STEPHEN JARVIS, it's nice to have another reporter on the West Coast, now that KEVIN MURRAY has moved to the East Coast. We also have a reporter in FL after awhile, MARK SEIDEN. His rcvr measures to 3 digits past the decimal. How's that for accuracy? MARINA PAPPAS thinks it would be interesting to know what rcvrs others started out with and what prompted them to upgrade at what point. By the way, Marina, it's quite all right not to use the official NASWA abbreviations in your logs to me; they're used extensively in the column, however, to save space and allow more logs to be included. I started out with a Ward's Airline brand. After hearing Nigeria and Voice of Free China (from US relay which I didn't know), I figured I could hear even more with a better radio so I went to Radio Shack. Later GERRY DEXTER convinced me to upgrade some more! Reporters from 13 states, 1 province, 1 country. Next deadline October 22.



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International Band Loggings

- 5920 CROATIA R Zagreb in CR 0100, big band & jazz mx, ID, nx, f (Anderson MI 8/9)
 59551 COLOMBIA Caracol in SP 0915, futbol hilites, ads, promos, IDs, f (Clar NY 8/26)
 5960 CANADA R Japan relay in EG 0110, world & financial nx, ID (McGuire MD 8/19)
 5975 COLOMBIA R Macarena in SP 0730, revival, IDs, relig pgm, f-g (Lamb NY 9/8)
 5980nf? BRAZIL R Guarua in PT 0925, nx, anmts, TCs, promos, ads, IDs, p (Clar NY 8/26)
 59952 PERU R Melodia in SP 0632, pops, IDs, slogans, ballads (Lamb 9/5, Moore IA 9/5)
 6005 GERMANY RIAS Berlin in GM 2312, jazz/rock, IS, ID, nx, f (Lamb 8/13, Clar 8/23)
 6005 MOROCCO VOA relay Tangier in EG 0603, "VOA Sat. Morning", nx, f (Lamb NY 8/1)
 6010 BRAZIL R Inconfidencia in PT 1003, contemp BRAZ mx, ID, exc (Newbury NE 8/17)
 6015 CANADA R Austria relay in EG 0530, Vienna mx, mail, ID, nx (Tucker GA, Pappas SD)
 6060 ARGENTINA R Nacional in SP 1023, pop instrmls, ID, anmts, exc (Newbury NE 8/17)
 6060 UNITED KINGDOM R Japan relay in EG 2345, features, ID, into JP 0000 (Lamb 8/13)
 6060 AUSTRALIA RA in EG 1504, SE Asia nx, ID, //6080, g (Robertson CA 8/30)
 6070 CANADA CFRX Toronto in EG 0001, MW relay, fin nx, ID (Newbury NE, Karcheski MA)
 6110 PHILIPPINES VOA relay in EG 1509, nx, ID, "New Horizons", g (Robertson CA 8/30)
 6110 UNITED KINGDOM BBC in SP 0026, mx, tlk on mx in Spain, ID (Tucker GA 8/23)
 6150 BRAZIL R Record in SP 0012, futbol match, IDs, slogans, snd efx, f (Clar NY 8/5)
 6155 BOLIVIA R Fides La Paz in SP 1055, Andean flute mx, ID, f (Newbury NE 8/17)
 6160 CANADA CKZU Vancouver in EG 0740, MW relay, jazz, CBC nx, ID, f (Robertson 9/6)
 6180 BRAZIL RN da Amazonia in PT 2220, nx, IDs, "Brazil" theme song, f (Lamb NY 8/27)
 6190 PERU R Oriente in SP 0125, LAm pop mx, trumpet fanfares w/IDs, off at 0400 w/NA (Alexander PA 9/5) in SP 1025, lcl nx, IDs, slogans, f-p (Clar NY 8/11)
 6195 SINGAPORE BBC relay in EG 1519, class mx w/narration, ID, f (Robertson CA 8/30)
 62037 PERU R Cuzco in SP 0220-0301*, chatter by DJ, huaynos, ID, NA (Alexander 8/29) in SP 0957, southern Peruvian style huaynos, ID, TC, f (Moore IA 8/21)
 62055nf DOMINICAN REPUBLIC R Quisqueya in SP 0019, LA pops, ID, fgy, ads (Clar 8/9)
 65494v LEBANON V of Lebanon in AR? 0258, "Bridge over River Kwai", ID (Johnson MD 9/6)
 6576 NO KOREA R Pyongyang in EG 1125, tlk on No Korea, ID, f (Moore IA 9/5)
 7125 ITALY IRRS in EG 0156, IS "Carmen", ID, pgm/QSL info, nx, f (Karcheski MA 9/1)
 7180 HONGKONG BBC relay in EG 1606-1615*, world nx, into UK nx, ID (Robertson CA 9/4)
 7200 SUDAN R Ordurman in AR *0250, IS, NA, pips, ID, Koran, //9165 (Alexander 8/29)
 7230 SOUTH AFRICA Channel Africa in PT 2055*, nx re Somalia, fgy, Zamfir mx, IS, g (Lamb 9/3) in EG 0435, rap mx, anmts, mx, g (Newbury NE)
 7234 ZAMBIA R Zambia in EG 2108, pop/hilife mx, ID "ZNBC", TC, tlk (Johnson MD 9/5)
 7240 UKRAINE RUI in EG 0023, Kiev boys choir, ID, traditional mx (Karcheski MA 8/9)
 7255 NIGERIA VON in EG 2039, nx, ID, sports, g (Lamb NY 9/3, Newbury NE)
 7275 LIBERIA ELBC in EG *0705, ID, nx, lite instrml mx, weak sig (Alexander PA 8/29)
 7295 MALAYSIA RTM Radio 4 in EG 1040, pops/C&W mx, anmts, promos, ID after pips 1100, lcl Malaysian nx, f-p w/ham QRM (D'Angelo PA 8/23, Clar NY 8/6)
 7340 BOTSWANA VOA relay in FR 2017, Afr pops, ID in EG, into Hausa 2030, f (Lamb 9/3)
 7345 CZECH REPUB R Prague in EG 0310, econ nx, //9485, 9810 (McGuire MD, Newbury NE)
 7375usb COSTA RICA REPI in EG 1103, "New Dimensions Radio", IDs, p (Pappas SD 8/14)
 9022 IRAN VOIRI in EG 0029, IS, ID, nx, sked, fgy, Qu'ran (Tucker GA, Karcheski MA)
 9280 TAIWAN WYFR relay in CH 1116, relig tlks, mx, IS, QTH, f-g (Lamb NY 9/7)
 9445 TURKEY VoT in TK 2344, ID, lcl mx (Tucker GA 8/25) in EG 0320, rock mx, DX nx, skeds for R Netherlands, HCJB, and Romania, lcl mx (Newbury NE)
 9475 EGYPT R Cairo in EG 0200, mx, Holy Koran, nx, exc (Bickus VA)
 9505 YUGOSLAVIA RY in EG 2128*, nx re Bosnia, cmtry, IDs, IS, g (Lamb NY 9/3)
 9515 SOUTH AFRICA BBC relay in PT *0525-0600*, IS, bells, ID, nx, mx, f-g (Lamb 8/16)
 9520 PHILIPPINES R Veritas Asia in CH 1025, tlk, anmts, IS, ID, instl of "O, My Papa", f-p w/fading (Clar NY 8/6, Pappas SD 8/28)
 9530 SPAIN SNR in EG 0500, cathedral visit, mailbag, IDs, g (Pappas SD 8/2)
 9580 AUSTRALIA RA in EG 1149-1624, sports, mx, ID, features (Tucker GA, Robertson CA)
 9580 PORTUGAL Deut Walle relay in SP *0158, IS, site ID, nx, f/QRM (Lamb NY 9/4)
 9580 SERBIA R Yugoslavia in EG 0040-0142, nx, tlks re sanctions/war, ID, tlk re peace efforts (Bickus VA, McGuire MD 8/19, Karcheski MA 9/1)
 9595 JAPAN R Tanpa in JP 0950, poetry recitation?, ID, //3925, mx (Clar NY 8/26)
 9605 VATICAN STATE VR in EG 0250, nx re Pope's planned visit to Baltics (McGuire MD)

9610 TAIWAN BCCC Taipei in CH 1055, disco mx, ID, lcl nx, f-g (Lamb NY 9/7)
 9660 AUSTRALIA ABC Brisbane in EG 1132, cricket match cmntry, IDs, f-p (Clar NY 8/6)
 9695 SOUTH AFRICA RSA in EG 0500, lcl nx, ID, TC, pops, mailbag (Robertson CA 8/16)
 9735 PARAGUAY RN del Paraguay in SP 0825, folk mx, nx, IDs, TCs, vg (Lamb NY 9/8)
 9745 COSTA RICA REE relay in SP 2314, nx re Nicaragua & Spain, IDs, f (Lamb 9/3)
 9765 MALTA VO Mediterranean in EG 0614, ezl mx, ID, AM prayer, f/QRM (Lamb 8/30)
 9800 FRENCH GUIANA RFI relay in FR 0333, tlks, rap & FR mx, ID, g (Robertson CA 8/16)
 9825nf KIRIBATI R Kiribati in EG/lang *0557, BBC nx relay, TC, lcl nx, pops, ads, into lang 0704, intermittent BBC QRM (Clark ONT 8/13, Johnson MD 9/6, Berg MA 8/22)

9825nf KAZAKHSTAN R Nederland relay in EG 0116, "Happy Station" pgm, f-p (Clar NY 8/23)
 9835 HUNGARY R Budapest in EG 0214, Hungarian folk mx, ID 0215 (Tucker GA 8/28)
 9880 AUSTRIA RAI in EG 0150, features, sked, QTH, waltz mx, g (Karcheski MA 9/1)
 9890 MADAGASCAR R Nederland relay in EG 1620, tlk on coral reef, ID, f (Robertson CA)
 9895 MADAGASCAR R Nederland relay in DT 0350, interviews, sports, ID (Robertson 8/16)
 9930 BELGIUM R Vlaanderen Int in DT 2353, accordion mx, ID, IS (Karcheski MA 8/22)
 11620 INDIA AIR in EG 1804, nx re Mother Teresa, ID, econ cmntry, mx, f (Lamb 8/20)
 11625 VATICAN STATE VR in EG 0502, environ nx, ID for Afr svce, choir, f-g (Lamb 9/1)
 11710 UNITED ARAB EMIRATES Abu Dhabi in AR 2357, AR mx, ID, //9770 (Tucker GA 9/5)
 11720 BULGARIA R Bulgaria in EG *2000, econ problems in Bulgaria, exc (Bickus VA 8/26)
 11740 RWANDA Deut Welle in EG 1950*, nx, "Religion & Society", site ID (Lamb NY 9/5)
 11790 ARMENIA R Yerevan in EG 0245, nx, feature, ID (McGuire MD 8/23, Bickus VA)
 11850 CHINA RCI in EG 1330, IDs, "Learn to Speak Chinese", exc (Robinson TN 9/1)
 11865 NORWAY RNI in NO 0315, relig mx, C&W mx sung in EG, ID, g (Newbury NE)
 11865 JAPAN RJ Tokyo in EG 1424, lang lesson, "Media Roundup", //11735 Canada relay (Lamb 9/5) in EG 1715, reggae/rap mx, pops, ID, fqy changes (Robertson CA 9/4)
 11865 MALTA Deut Welle relay in EG 0150*, "European Journal", site ID, IS (Lamb 8/26)
 118698 COSTA RICA AWR in SP/EG 1315-1800+, relig pgming, //137499 (Alexander PA 9/4)
 11910 SWEDEN RS in EG 2240, "Current Affairs" re Sarajevo's ills, ID (Newbury NE 8/20)
 11920 SINGAPORE BBC relay in EG 1537, pgm on workings of democratic law (Newbury 7/28)
 11940 ROMANIA RRI in EG 1900, nx, mx selections, letter box, f (Levison PA)
 11980 PALAU KHBN in JP 1325, lite instrml mx, amnts, ID, tlks, p (Clar NY 8/9)
 11990 CZECH REPUB R Prague in EG 1040, IDs, cmntry on CZ economy, f-p (Clar NY 8/20)
 12085 SYRIA Syrian BC in AR 0442, relay of domestic nx, ezl mx, ID, f (Lamb NY 9/1)
 13615 BANGLADESH RB in EG 1230-1300*, nx, cmntry, vocals, poor modul (Clark ONT 8/21)
 13620 KUWAIT R Kuwait in AR/EG 1732, rock/C&W mx, nx, ID (Pappas SD, Tucker GA 9/5)
 13655 BELGIUM R Vlaanderen Intl in EG 2330, nx, feature, ID (Levison PA, Newbury NE)
 15095 SYRIA R Damascus in EG 2045, AR mx, ID, Arab-interest headlines (Newbury 8/20)
 15195 UKRAINE RUI in EG 2100, Eur service, feature on AIDS, exc (Bickus VA 8/26)
 15205 PHILIPPINES VOJ relay in EG 1700*, slo speed EG feature, f (Robertson CA 9/4)
 15210 CHINA CRI Beijing in EG 1230, CH lessons, "shopping for groceries" (Robinson TN)
 15220nf ROMANIA R Moldova Intl in SP 2056*, many IDs, tlks re Moldova, its economy & political situation, skeds & fqys at s/off of relay xmsn (D'Angelo PA 8/18)
 15240 SWEDEN RS in EG 1234, ID, QTH, mx, tlk on Swedish mx scene (Tucker GA 8/29)
 15305 UNITED ARAB EMIRATES Abu Dhabi in EG 2340, Koran translation, exc (Bickus VA)
 15410 ANTIGUA Deut Welle relay in GM 2233, tlk on terrorism, exc (Newbury NE 8/20)
 15435 CHINA CRI Beijing in CH 0201, nx re Beijing & Dalai Lama, ID, f (Lamb NY 8/26)
 15435 LIBYA R Jamahiriya in AR 2035, vocal mx, nx, //15415, exc (Bickus VA 8/26)
 15445 BRAZIL Radiobras in EG 1209, BR mx, ID, feature (Tucker GA 8/29, Newbury NE)
 17730 BRAZIL Swiss R relay in EG 0000, site ID, nx, feature (Karcheski MA, Anderson MI)
 17795 AUSTRALIA RA in EG 2250, ID, "Network Asia", C&W mx, nx (Lamb NY, Levison PA)
 17890 COSTA RICA REE relay in SP 2219, SP pops, IDs, ref to US Open tennis (Lamb 9/5)
 21610 JAPAN RJ Tokyo in JP 0157, IS, IDs in JP/EG, JP nx 0200, f (Lamb NY 8/25)
 21740 AUSTRALIA RA in EG 0137, interview, nx headlines, TC, ID, f (Karcheski MA 9/1)

 CLANDESTINE STATIONS

6300nf Voice of the People of Kurdistan in AR *0230, nx, ID 0236, into Kurdish 0330 (Johnson MD 9/1)

 EDITOR'S NOTE: I find that I made an error when I reported in the August issue that the new religious station on 9475 was Seychelles. I was certain that the IS was the one for Seychelles. However, the correct station is FEBC Manila as reported by Bob Padula-also in the August issue. I double checked after noting this and sure enough, I goofed. Apologies!

English Schedules

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Estonian Radio is discontinuing its external services on October 31. According to Internet messages, it also appears that the transmitters on 5925 and 1035 kHz will also be switched off. During the summer the domestic service was aired whenever the external service was not on the air, but that has not been the case lately.

R Australia has moved its programming around and at least some of the *Communicator* shows are not



where I thought they were before. Times are to Asia Tu 1130 and 1530, to the Pacific Tu 1930. A new show, *Feedback*, is being advertised as dealing with listener questions that will include schedule and technical items. The promo sounded interesting. *Feedback* is scheduled to Asia Fr 2210 and Sa 0010 and 0210, to the Pacific Su 0410, 0610 and 0810 UT. Additionally, Mike Bird on the September 2 *Media Network* reported that antenna systems at Shepparton were being worked on; African coverage and long path to Europe is being dropped for these 100 kw transmitters. I don't have a new frequency schedule yet.

As reported in LN last month, WCSN is for sale. Program changes effective September 28 have reduced the number of hours on the air for all the CSM stations.

Yo ho ho and a bottle of rum. Via Steve Coletti on Spectrum (WWCR-7435 UT Su 0330) and GEnie, Scott Becker alias Voyager Broadcast Services, financed by Brother R.G. Stair, will sail from Boston harbor to the Caribbean. The station is ex-

pected on the air this fall, using four SW frequencies.



Programming will include Radio Newyork International, last heard on WWCR.

One of the more interesting **R Moscow** World Service frequency changes is the appearance of a transmitter on 7335, noted 2130-23 and 00-06 UT, averaging 30db/9 here. This transmitter also carries **R Vilnius** Monday through Friday. Here in NJ the time pips of CHU are nowhere to be heard.

While hunting for **R Moscow** frequencies on September 5, I found an external mixing spur on 9360 produced by Spain's 9690 and 9525 transmitters. Audio matches both frequencies. The math: $9525 - (9690 - 9525) = 9360$ kHz. The China Radio International audio is dominant.

WWCR's third transmitter commenced operations 22 UT September 10. The schedule in the listings is preliminary. Adam tells me the weekday line-up will probably look something like this (times are Central: Billy Goodman will expand from Sunday night to a weekday 9-11 a.m. "telling you the things they don't want you to know" (including UFO info), Charles



DC Software by W2XQ

English Language SWBC Schedules
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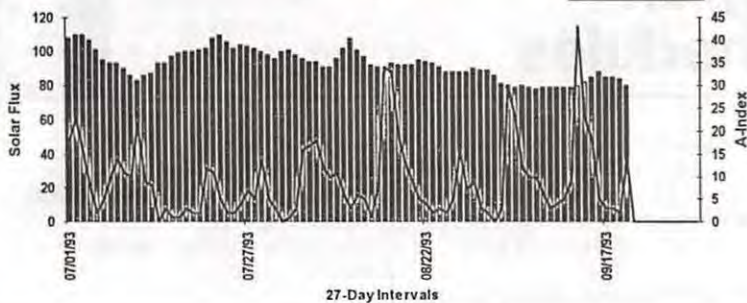


609
753-2540

Authorized
Dealer



Solar Flux & A-Index: Jul-Sep 1993
As Recorded From WWV



Adler's "Hot Talk" show of open line, topical call-in show (sometimes described as a '90s "Rush") 2-4 p.m., Spanish language programming 4-6 p.m., Tom Donahue 6-8 p.m., Tom Valentine's *Radio Free America* 9-11 p.m. moving from 7435 (Brother Stair will fill the slot on 7435). I know there are some holes here, but Adam was telling me this from memory and I'm having trouble reading my handwriting. The weekend line-up has not been set yet.



At 0030 UT to eNam Radio Netherlands dropped 11835 and replaced it with 9840.

USB is used because Hungary is on 9835. An

interesting new frequency at this hour is 14,000 km distant. It is 11655 via Madagascar. Radio Netherlands' Frequency Planning Unit is curious to see how this relay performs.



Reality Check

During September R Ukraine Int'l continued to announce its summer frequencies at the ends of the two English language transmissions. The actual frequencies in use differ from the announcements. I have listed those frequencies I observed in use in the first two weeks of September.

The popular spokesman of the conservatives airs on WRNO Monday through

RUSH LIMBAUGH

Friday at 12 Noon to 3 p.m. Eastern Time. I notice that WRNO carries parodies fed by the EIB network studio to the more than 625 stations. These are not aired by the flagship station WABC-770 New York which airs paid commercials. The parodies are really quite amusing.

Schedules Version 3.00

Did you notice the subtle change in the listings? As part of the new version of the SCHEDULES software released last July, multiple transmissions per start time can now be entered into the data files. We're using the new capability to break out at least some of the target areas to follow station announcements (e.g., Kol Israel).

We haven't caught up with all the time shifting in Europe that occurred last month. Not all changes are announced ahead of time. If you don't find what you're looking for, look an hour later. If you are a subscriber to the data files, we'll post updates on GENIE and the BBS as soon as we verify the changes. If you have a PC and want the most up-to-date information possible, please send for a catalog.

The Missing Month

I apologize for not getting a column together for last month's *Journal*. The back troubles—herniated disks—and tendinitis in one arm have reordered my priorities these past months as I continue with physical therapy and doctors.



22 Sept., 9:30 p.m.

SCHEDULES BY SUBSTATION

START	COUNTRY	STATION	FREQUENCIES	6090	7150	7165	7150	6090	TARGET AREA	NOTES	LAST Update
0000	China	China R Int'l	11715 9770						wNAmeNAm		08/13/93
0100	Russia	R Moscow Int'l	21625						World Service	13m	09/11/93
0100	Russia	R Moscow Int'l	17660						World Service	17m	09/05/93
0100	Russia	R Moscow Int'l	15470	17570	17570				World Service	19m	09/09/93
0100	Russia	R Moscow Int'l	13775	15425	15375				World Service	22m	09/05/93
0100	Russia	R Moscow Int'l	12015	11970	11685				World Service	25m	09/05/93
0100	Russia	R Moscow Int'l	9860	9750					World Service	31m	09/05/93
0100	Russia	R Moscow Int'l	7335	7205					World Service	41m	09/05/93
0100	Spain	Spanish National Radio	9525						NAm/Eu	as obs	09/11/93
0100	Ukraine	R Ukraine Int'l	17690	11720	9685	9600	7240	7195	Caribbean		09/03/93
0100	USA	VOA	11695	9455	6130	930			ekUseAs/Pac		09/03/93
0100	USA	VOA	17820	17735	15290	15185	11760	9770	eNAntCarib		09/12/93
0100	USA	WSHB/1	5850	5850					cAmrSAm		09/12/93
0200	USA	WSHB/2	13760						Eu/ME/nA	tx #3	09/10/93
0500	USA	WWCR	5810								
0030	Belgium	R Vlaanderen Int'l	9930	7370					SAmNAm		09/11/93
0127	Netherlands	R Netherlands	11655	98400	6165	6020			eNAm		09/17/93
0127	Netherlands	R Netherlands	9860	7305					sAs		09/17/93
0100	USA	VOA	15205	15120	11580	9775	7405	5995	Americas	#7&8 nCAm	09/03/93
0100	Czech	R Prague	17535	13715	11990	9810	9485	7345	AusAs/Eu/ME/NAm		09/12/93
0120	Italy	RAI	11800	9710					NAm		08/15/93
0200	Japan	R Japan	17845	17810	17775	15195	11860	11840	GOS:NAm		09/03/93
0200	Japan	R Japan	5960						GOS:NAm		09/03/93
0200	Russia	R Moscow Int'l	21625						World Service	13m	09/11/93
0200	Russia	R Moscow Int'l	17860	17590	17570	17560			World Service	17m	09/05/93
0200	Russia	R Moscow Int'l	15475	15375					World Service	19m	09/05/93
0200	Russia	R Moscow Int'l	13775						World Service	22m	09/05/93
0200	Russia	R Moscow Int'l	12015	11970	11960	11685			World Service	25m	09/05/93
0200	Russia	R Moscow Int'l	9860	9750					World Service	31m	09/05/93
0200	Russia	R Moscow Int'l	7335	7205					World Service	41m	09/05/93
0200	South Korea	R Korea	15575	7550					Amr/Eu		09/05/93
0200	Spain	Spanish National Radio	9525						NAm		09/05/93
0200	USA	WEWN	13710						India		09/11/93
0200	USA	WSHB/1	5850						cNAm	*Program C	09/12/93
0130	Austria	ORF	13730	9870	9655				SAmNAm		09/17/93
0227	Netherlands	R Netherlands	11655	9860	9845				sAs		09/17/93
0145	Vatican State	Vatican Radio	9650	7335					As/Aus/NZ		09/12/93
0200	Czech	R Prague	17535	13715	11990	9485	7345		AusAs/Eu/ME/NAm		09/12/93
0315	Italy	Italian Radio Relay Serv	7125						NAm		09/11/93
0300	Russia	R Moscow Int'l	17860	17590	17570	17560			World Service	17m	09/05/93

SCHEDULES BY SUBROSTRUM

START End	COUNTRY	STATION	FREQUENCIES	NOTES	TARGET AREA	LAST Update
0500	South Africa	Radio Orania	7270		Domestic	09/12/93
0755	Spain	Spanish National Radio	9525		NAM	09/06/93
0600	Thailand	R Thailand	11905	4830	seAs	09/15/93
0530	USA	VOA	15600	12080 9575	Africa	09/03/93
0600	USA	WCSN	9840	7405	AF	09/12/93
0530	Vatican State	Vatican Radio	15090	11625	eAs/AF	09/12/93
0530	Swaziland	Trans World Radio	11740		Capo	09/02/93
0600	USA	VOA	15600	12080	Africa	09/03/93
0650	Germany	R Deutsche Welle	17875	15205	wAF	09/15/93
0915	Italy	Italian Radio Relay Serv	7125		EU/AF/ME	09/11/93
2230	Italy	Italian Radio Relay Serv	7125		EU/AF/ME	09/11/93
0830	Kiribati	R Kiribati	9825		Pacific	09/04/93
0700	Malla	V of the Mediterranean	9765		ME	09/05/93
0700	Russia	R Moscow Int'l	9750	7205	World Service	09/06/93
0700	South Africa	Channel Africa	17710		Far wAF	09/12/93
0835	Swaziland	WEWN	7425		sAF	09/02/93
0800	USA	WEWN	13710		NAM	09/11/93
0800	USA	WSRB/1	9840		sAF	09/11/93
0800	USA	Vatican Radio	7250	6245	UK/wEU	09/12/93
0630	Vatican State	Vatican Radio	15090	11625	ME/EU	09/12/93
0700	Vatican State	Vatican Radio	15090	11625	c&s&wAF	09/12/93
0730	Czech	R Prague	11990	9505	Eu	09/12/93
0830	Ecuador	HCJB	21455U	11835	Eu	09/18/93
0800	Japan	R Japan	21610	17810	GOSAs	09/03/93
0800	Japan	R Japan	17860	15410	GOS/Oc	09/03/93
0800	Japan	R Japan	7230	6050	GOS/EU	09/03/93
0800	Japan	R Japan	21575		GOS/ME	09/03/93
0800	USA	WEWN	9430		wAF	09/11/93
0730	Belgium	R Vlaanderen Int'l	9925	5910	Aus/Eu	09/11/93
0827	Netherlands	R Netherlands	9720	9630	Pacific	09/17/93
0745	Guam	KTWR	15200		seAs/Indon	09/12/93
0800	N Mariana Is	KHBI/2	13615		NZ	09/12/93
1650	South Africa	Radio Oranje	9630		Domestic	09/12/93
0900	USA	KNLS	7345		eCIS/China	09/13/93
1000	USA	WEWN	9350		NAM/Aus/NZ	09/11/93
0900	USA	WEWN	9985		Brazil	09/11/93
0830	Czech	R Prague	21705	17725	As/Pac/Eu	09/12/93
0857	Czech	R Prague	21705	17535		
			11990	6055		

SCHEDULES BY SUBSTROM

START	COUNTRY	STATION	FREQUENCIES	TARGET AREA	NOTES	LAST Update
0830	Guam	KTWR	11805	PapNIG/Vanuatu/New Caled Pacific		09/12/93
0835	Netherlands	R Netherlands	9720			09/17/93
0835	Swaziland	Trans World Radio	11740 6070	CapelSAI	M-F	09/02/93
0900	Germany	R Deutsche Welle	21680	As/Pac		09/15/93
0950	Italy	Italian Radio Relay Serv	7125	Eur/NA/ME	M-F/irregular	09/11/93
1000	Japan	R Japan	15240	GOS:As		09/03/93
1000	Japan	R Japan	17860	Reg Svc:Oc		09/03/93
1000	N Mariana Is	KHBI/1	17555	Japan/Kor/CIS		09/12/93
1000	N Mariana Is	KHBI/2	13615	Aus		09/12/93
1000	USA	WEWN	9370	UK	"Program C"	09/11/93
1000	USA	WSHB/1	9840	Aus/NZ		09/12/93
1000	USA	WSHB/2	9455	cSAM		09/12/93
0930	Netherlands	R Netherlands	9865	FE & Pacific		09/17/93
1027	Slovakia	R Slovakia Int'l	21705 17535	Aus		09/12/93
1000	Belgium	R Vlaanderen Int'l	21815 17515	A/EU	M-Sa	09/11/93
1025	N Mariana Is	KHBI/1	13625	Indon		09/12/93
1100	N Mariana Is	KHBI/2	17555	China		09/12/93
1200	USA	WSHB/1	9495	eNAm/Carib		09/12/93
1100	USA	WSHB/2	9455	SAM		09/12/93
1030	Netherlands	R Netherlands	9810 7260	FE		09/17/93
1100	Costa Rica	AWR Lam	11870 9875	LAm		09/05/93
1300	Israel	Kol Israel	17575 15640	wEU		08/29/93
1130	Israel	Kol Israel	15650	Aus/As		08/29/93
1200	Japan	R Japan	15240 11910	GOS:As		09/03/93
1200	Japan	R Japan	6120	GOS:NAm		09/03/93
1200	N Mariana Is	KHBI/2	9430	Aus		09/12/93
1200	Russia	R Moscow Int'l	21465	World Service	13m	09/11/93
1200	Russia	R Moscow Int'l	17780	World Service	17m	09/06/93
1200	Russia	R Moscow Int'l	15590 15520 15500	World Service	19m	09/06/93
1200	USA	VOA	15120 11915 9590 7405	World Service		09/03/93
1200	USA	VOA	15425 15160	Caribbean		09/03/93
1200	USA	WSHB/2	9455	eAs/Sea/As/Pac		09/03/93
1200	USA	Vatican Radio	21655	ChAm/SAM		09/12/93
1115	Vatican State	Vatican Radio	15210 11740 7250 6245	Eu	M-Sa	09/12/93
1130	Czech	R Prague	15355 11990	Eu		09/12/93
1227	Netherlands	R Netherlands	9650 5955	Eu		09/17/93
1200	Australia	Australian Armed Forces	91940	Camboia		09/04/93
2115	Italy	Italian Radio Relay Serv	7125	Eur/NA/ME	M-F	09/11/93

SCHEDULES BY SUBSTATION

START END	COUNTRY	STATION	FREQUENCIES	TARGET AREA	NOTES	LAST UPDATE
1200						
1300	N Mariana Is	KHB1/1	13625	seAs		09/12/93
1300	N Mariana Is	KHB1/2	9425	Aus		09/12/93
1300	Russia	R Moscow Int'l	21785 21465	World Service	13m	09/11/93
1300	Russia	R Moscow Int'l	17815 17790	World Service	17m	09/11/93
1300	Russia	R Moscow Int'l	15550 15525	World Service	19m	09/11/93
1300	Russia	R Moscow Int'l	11985 11800	World Service	25m	09/06/93
1300	South Korea	R Korea	9640	GOS		09/05/93
1245	South Korea	VOA	15425 15160	eAs/seAs/Pac		09/03/93
1230	USA	WSHB/2	13760	Max		09/12/93
1300	Bangladesh	R Bangladesh	13615	Eu	Announces 15220.	09/2/193
1327	Netherlands	R Netherlands	9650 5955	Eu		09/17/93
1330	USA	VOA	15425 15160	eAs/seAs/Pac		09/03/93
1300						
1400	N Mariana Is	KHB1/1	13625	Indon		09/12/93
1400	N Mariana Is	KHB1/2	13625	India		09/12/93
1330	Norway	R Norway Int'l	15230	wA/EU	Su only	09/20/93
1400	Russia	R Moscow Int'l	21785	World Service	13m	09/11/93
1400	Russia	R Moscow Int'l	17790 17760	World Service	17m	09/06/93
1400	Russia	R Moscow Int'l	15550 15500	World Service	19m	09/11/93
1400	Russia	R Moscow Int'l	11985 11705	World Service	25m	09/06/93
1329	South Korea	R Korea	13670 9570	seAs		09/05/93
1400	USA	KNLS	7355	eAs		09/13/93
1500	USA	WENN	9350	NAm	*Program A*	09/11/93
1500	USA	WENN	17535	eA/	*Program B*	09/11/93
1400	USA	WSHB/1	9495 9495	Mex/WNA/Am		09/12/93
1330						
1355	Belgium	R Vlaanderen Int'l	21810 17555	seAs/NAm	Su	09/11/93
1427	Netherlands	R Netherlands	15530 13700	SAs		09/17/93
1400						
1425	Belgium	R Vlaanderen Int'l	21810 17555	seAs/NAm	M-Sa	09/11/93
1425	Israel	Kol Israel	15640	wE/UNAm		08/29/93
1425	Israel	Kol Israel	15650	Aus/As		08/29/93
1500	Japan	R Japan	11815 9750	GOS:As		09/03/93
1500	Japan	R Japan	11865 11735	GOS:NAm		09/03/93
1500	Malta	V of the Mediterranean	11925	EUME	#2 -> 11705 31 Oct	09/05/93
1500	N Mariana Is	KHB1/1	9530	India/China		09/12/93
1500	Russia	R Moscow Int'l	17790 17760	World Service		09/06/93
2400	USA	KCBI	15725	Carib		09/12/93
1500	USA	WSHB/1	13760	WNA/Am		09/12/93
2400	USA	WWCR	15610	Eu/MIE/nA/	tx #3	09/11/93
1430						
1527	Netherlands	R Netherlands	15150 13700	SAs		09/17/93
1445						
1700	Guam	KTWR	15610	Ind/Pak/Is/SeAs		09/12/93

SCHEDULES BY SUBSTROM

LAST Update

NOTES

TARGET AREA

FREQUENCIES

STATION

COUNTRY

START End

START	End	COUNTRY	STATION	FREQUENCIES	NOTES	TARGET AREA	LAST Update
1500	1550	Germany	R Deutsche Welle	21600 17765 11965 9735 7185		s&c&eA/ME	09/19/93
1600	1600	Japan	R Japan	11815 9750		GOS:As	09/03/93
1600	1600	Japan	R Japan	11865		GOS:NA/ME	09/03/93
1600	1600	Japan	R Japan	15355		GOS:SA/	09/03/93
1600	1600	N Mariana Is	KHBI/1	9530		India/China	09/12/93
1600	1600	Russia	R Moscow Int'l	17790		World Service	09/06/93
1600	1600	USA	WEWN	21710		eA/	09/11/93
1600	1600	USA	WEWN	17510		ME	09/11/93
1530	1627	Netherlands	R Netherlands	15150 13700 9895		sAs	09/17/93
1545	1600	Vatican State	Vatican Radio	15090 11640		As/Aus/NZ	09/12/93
1600	1630	Australia	R Australia	13755 11855 11695 9580 9510 7260 7240 6060 5995		As/Pac/Pap/NG	09/04/93
1627	1650	Czech	R Prague	17535 15605 13600 7435 6055		A/ME	09/12/93
1650	1650	Germany	R Deutsche Welle	21680 17810 15595 15105 9875 7225 6170		sAs	09/15/93
1700	1700	N Mariana Is	KHBI/2	13625		SA/	09/12/93
1700	1700	Russia	R Moscow Int'l	17790		World Service	09/06/93
1800	1800	South Africa	Channel Africa	15240 4945		wA/Je&c&SA/	09/12/93
1700	1700	Switzerland	Trans World Radio	9500		eA/	09/02/93
1640	1700	United Arab Emir	R Dubai	21605 15395 15320 13675		E/In/AF	09/06/93
1700	1700	USA	VOA	17895 17785 15445 13255 13710 11995 11920 1530		Africa	09/03/93
1700	1700	USA	WEWN	13615		NA/ME	09/11/93
1700	1700	USA	WEWN	17510		UK	09/11/93
1630	1650	Vatican State	Vatican Radio	15090 11640		Sa/Mass	09/12/93
1650	2000	New Zealand	R New Zealand Int'l	9550		Pacific	09/21/93
1655	2200	South Africa	Radio Oranje	3230		Domestic	09/12/93
1700	1800	Japan	R Japan	11815 9750		GOS:As	09/03/93
1800	1800	Japan	R Japan	11865		GOS:NA/ME	09/03/93
1800	1800	Japan	R Japan	17870		GOS:ME/NA/	09/03/93
1713	1713	Lebanon	V of Lebanon	6549		ME	09/04/93
1800	1800	N Mariana Is	KHBI/2	13625		eA/	09/12/93
1800	1800	Russia	R Moscow Int'l	17790		World Service	09/06/93
1715	1730	Switzerland	Trans World Radio	7120		cA/	09/02/93
1730	1730	USA	VOA	17895 17785 15445 13710 11995 11920 1530		Africa	09/03/93
1715	1730	Switzerland	Trans World Radio	7120		cA/	09/02/93
1730	1730	Vatican State	Vatican Radio	9645 7250 6245		ME/eA/ME/	09/12/93
1730	1827	Netherlands	R Netherlands	21590 21515 9605 6020		s&e&wA/	09/17/93
1800	1800	USA	VOA	17895 15445 15410 13710 11995 11920 621		Africa	09/03/93

SCHEDULES BY SUNOSTROM

START End	COUNTRY	STATION	FREQUENCIES	9490	7345	6055	TARGET AREA	NOTES	LAST Update
1800									
1800	Czech	R Prague	17535	13600	9490	7345	AM/ME/		09/12/93
1815	Israel	Kol Israel	11587				WU/NA/		08/29/93
1815	Israel	Kol Israel	11675	7465			eEU/NA/Am		08/29/93
1900	N Mariana Is	KHBI/1	9355				NZ		09/12/93
1900	N Mariana Is	KHBI/2	9355				Eu/ME		09/12/93
1900	Russia	R Moscow Int'l	17790	11685	9880		World Service		09/06/93
1845	Swaziland	Trans World Radio	9500				eA/		09/02/93
2015	Swaziland	Trans World Radio	3200				sA/		09/02/93
1900	USA	VOA	17895	17800	15410	13710	Africa		09/03/93
1900	USA	WCSN	21640				AI		09/12/93
1815	Bangladesh	R Bangladesh	9565				Eu/ME		09/02/93
1830	Netherlands	R Netherlands	21590	21515	9605	6020	s&e&wA/		09/17/93
1900	Azerbaijdzhan	Azerbaijdzhan Radio	15240	4958			Domestic		09/02/93
1925	Belgium	R Vlaanderen Int'l	13685	5910			AI/EU	News	09/11/93
2000	Japan	R Japan	11815	9750			GOS:As		09/03/93
2000	Japan	R Japan	11865				GOS:NA/Am		09/03/93
2000	Japan	R Japan	11875	9640			GOS:Oc		09/03/93
2000	N Mariana Is	KHBI/1	9355				Am		09/12/93
2000	N Mariana Is	KHBI/2	9355				Eu/ME/Al		09/12/93
2000	Russia	R Moscow Int'l	17760	17560	15130	11760	World Service		09/09/93
2045	Swaziland	Trans World Radio	3240				sA/		09/02/93
2000	USA	VOA	17895	15410	13710	11995	Africa		09/03/93
2000	USA	WCSN	21640				AI		09/12/93
2100	USA	WEWN	15695				UK		09/11/93
2000	USA	WSHBZ	15665				eEU/CIS	*Program C*	09/12/93
1930	Slovakia	R Slovakia Int'l	9605	7345	5915		WU		09/12/93
2000	Israel	Kol Israel	11603	11585	9435	7465	NA/WU/		08/29/93
2030	Israel	Kol Israel	11675				WNA/nt/eEU		08/29/93
2030	Israel	Kol Israel	17575				AI		08/29/93
2140	New Zealand	R New Zealand Int'l	15120				Pacific	Sub-Fr	09/21/93
2100	Russia	R Moscow Int'l	17710	17690			World Service	17mR Aug 2030-	09/09/93
2100	Russia	R Moscow Int'l	15385	15340			World Service	19mR Aug 2030-	09/09/93
2100	Russia	R Moscow Int'l	12015	11805	11760	11730	World Service	25mR Aug 2030-	08/09/93
2100	Russia	R Moscow Int'l	9880	9620	9640		World Service	37mR Aug 2030-	09/09/93
2100	Russia	R Moscow Int'l	7300	7205			World Service	41mR Aug 2030-	09/09/93
2030	USA	VOA	21485	17895	17800	15580	Africa		09/03/93
2100	USA	WCSN	13770				AI		09/12/93
2000	USA	WSHBZ	15665				UK/e&wEU		09/12/93
2015	Swaziland	Trans World Radio	3200				sA/		09/02/93

SCHEDULES BY SUBSTATION

START End	COUNTRY	STATION	FREQUENCIES	1530	13710	1530	TARGET AREA	NOTES	LAST Update
2030									
0100	Pelau	KHBN	9830				Africa	M-Sa (exc Sa Mandant)	09/12/93
2100	USA	VOA	21485 17895 17800	15580	15410	13710			09/03/93
2050									
2110	Vatican State	Vatican Radio	7250 5882				Eu		09/12/93
2100									
2130	Australia	R Australia	11880 11860	11720			As/Pac/Pap/NG		08/19/93
2127	Czech	R Prague	9605 7345	7300			Eu		09/12/93
2200	Japan	R Japan	15430 11815	9750			GOS-As		09/03/93
2200	Japan	R Japan	9640				GOS-OC		09/03/93
2200	Japan	R Japan	11925				GOS-Eu/ME		09/03/93
2200	Russia	R Moscow Int'l	17710 17690				World Service	19m	09/09/93
2200	Russia	R Moscow Int'l	15385 15340				World Service	19m	09/09/93
2200	Russia	R Moscow Int'l	13775				World Service	22m	09/09/93
2200	Russia	R Moscow Int'l	12015 11905	11805	11750	11730	World Service	25m	09/09/93
2200	Russia	R Moscow Int'l	7400 7335	7300			World Service	41m	09/05/93
2200	Russia	R Moscow Int'l	6130				World Service	49m	09/05/93
2200	Ukraine	R Ukraine Int'l	11950 11780	11610	9685	7240	Eu	as obs	09/10/93
2200	USA	VOA	21485 17895 17800	15580	15410	13710	Africa		09/03/93
2200	USA	WCSN	13770				AF/Eu		09/12/93
2130									
2200	USA	VOA	21485 17895 17800	15580	15410	13710	Africa		09/03/93
2200									
2215	Albania	R Tirana	11815 9760				Eu		08/18/93
2225	Belgium	R Vlaanderen Int'l	5910				Eu		09/11/93
2300	Czech	R Prague	9605 7345	7300			Eu		09/12/93
2300	N Mariana Is	KHBI/1	13625				Japan/Kor/CIS		09/12/93
2300	N Mariana Is	KHBI/2	15405				China		09/12/93
2300	Russia	R Moscow Int'l	13775				World Service	22m	09/09/93
2300	Russia	R Moscow Int'l	12015 11950	11905	11750	11685	World Service	25m	09/05/93
2300	Russia	R Moscow Int'l	9815 9750				World Service	31m	09/05/93
2300	Russia	R Moscow Int'l	7335 7305				World Service	41m	09/05/93
2300	USA	WSHB/1	9465				World Service		09/12/93
2300	USA	WSHB/2	17555				eSAM		09/12/93
2230									
2300	Israel	Kol Israel	11603 11585	7465			NAm/WEu		08/29/93
2300	Israel	Kol Israel	11675				WNA/WEu		09/29/93
2300	Israel	Kol Israel	17575 9435				LAm		08/29/93
2245									
2305	Vatican State	Vatican Radio	11830 9600				As/Aus/NZ		09/12/93
2300									
0100	Costa Rica	AWR LAm	11870 9725	5030			LAm		09/05/93
2400	Japan	R Japan	17810 15430	7140			GOS-As		09/03/93
2400	Japan	R Japan	6125 6080				GOS-EU	#2 -> 6050 26 Sep	09/03/93
2330	Lithuania	R Vilnius	7335				NA/EU	M-F	09/09/93
2400	N Mariana Is	KHBI/1	13625				Indon		09/12/93

SCHEDULES BY SUBSTROM

START End	COUNTRY	STATION	FREQUENCIES	TARGET AREA	NOTES	LAST Update
2300	N Mariana Is	KHBUZ	15405	China		09/12/93
2400	Russia	R Moscow Int'l	15470	World Service	19m	09/09/93
2400	Russia	R Moscow Int'l	13775	World Service	22m	09/09/93
2400	Russia	R Moscow Int'l	12015	World Service	25m	09/11/93
2400	Russia	R Moscow Int'l	11975	World Service	31m	09/09/93
2400	Russia	R Moscow Int'l	9860	World Service	41m	09/05/93
0300	South Africa	Radio 2000	7305			09/12/93
0200	USA	KCBI	4810	NA	all use 23-24	09/12/93
0200	USA	WEWN	7425	NA	*Program A*	09/11/93
0300	USA	WRNO	7355	NA	Spanish Tu-F	09/05/93
2400	USA	WSHB/1	9465	NA		09/12/93
2400	USA	WSHB/2	17555	NA		09/12/93

FOR SALE. World Radio TV Handbook: 83, 84, 89: \$5 each.
 Magazines: \$1 per issue, sold by the year. 20% discount if you take the entire magazine run. **CQ Magazine: 9/88- 8/93. Monitoring Times: 9/88-12/92. Popular Communications: 9/86- 9/93 (missing 12/92).** Single issues of **Monitoring Times**, sold by the issue: 1989: 4/7/8/9; 1990: 2/3/8; 1992: 1/7/9. Prefer pick-up, but other arrangements can be made if you are in the Philadelphia area or live/work in New Jersey. Otherwise shipping extra (cost to be determined, specify UPS or USPO), Tom Sundstrom, PO Box 2275, Vincentown, NJ 08088-2275, 609-859-2447 (weekday evenings 7-9, weekends best).

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NEWS RELEASE

FOR IMMEDIATE RELEASE

SHORTWAVE RADIO SHIP TO BROADCAST FROM THE HIGH SEAS

NEW YORK, September 20, 1993 – A new radio ship is being outfitted for shortwave broadcast. The vessel M.V. FURY is being equipped with four powerful shortwave transmitters capable of tuning any frequency between 2 to 28 mhz. shortwave.

The project is being conducted for Voyager Broadcast Services, a new company based in New York. Voyager Broadcast Services plans to lease air time to individuals or organizations. Three separate transmitters will be available for lease. The fourth transmitter is for the exclusive use of the Overcomer Ministry of Walterboro, South Carolina, who through Brother R. Stair is providing much of the financial backing to outfit the ship.

The FURY is set to sail this fall. Her likely destination will be the Caribbean. The station and ship will be properly registered and all transmitting equipment duly licensed.

The engineering of the ship is under the direction of Allan H. Weiner, president of Radio New York International. Mr. Weiner states that the FURY will use the sea as a "huge powerful reflector" of the shortwave transmissions. "We are trying out different types of antenna systems to make use of the reflectivity and tremendous conductivity of sea water," he said. "This will be a truly unique radio ship – the only one of its kind in existence."

The FURY, a former North Sea trawler, is 140 feet long, 30 feet wide and draws 13 feet of water. Her accommodations include a total of nine staterooms for the crew, in addition to a fully equipped broadcast studio. Tremendously seaworthy in construction, the ship's 1500 HP engine can take her anywhere in the world.

Voyager Broadcast Services

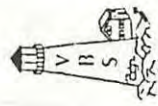
"Your Lighthouse of the Air"



Allan Weiner begins construction of the FURY's broadcast studio.



The radio ship FURY in port being refurbished.



the page

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P.O. Box 777, NAIROBI

Our Ref:- Hams/57
Your Ref:-

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KENYA COLONY

29th January, 1957.

Mr. Paul Kary,
P.O. Box 1,
Kyrenia, Cyprus.

Dear Sir,
1. In reply to your letter of 21st January, 1957, we have pleasure in confirming your reception of our short-wave broadcast transmission. The details which you give agree entirely with our records.

FORCES BROADCASTING SERVICE EAST AFRICA COMMAND

Tel:- NAIROBI 82219
82216 (During office hours only)
Reference:- 20/2,

No. 1 Forces Broadcasting Station
P.O. BOX 4045,
NAIROBI,
KENYA.

22nd February, 1952.

E.P. Bellington Jnr, Esq,
754 Bergen St.,
Brooklyn, 46, N.Y., U.S.A.

Dear Mr. Bellington,

Thank you very much for your report on our SW transmission, which we have much pleasure in confirming. We enclose our QSL card which gives the current programme schedule and power in use on both our MW and SW services.

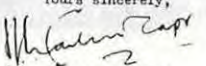
We closed transmission on 5115 Mcs in September 1951 at Mackinnon Road and re-opened on our present frequency in Nairobi in November, 1951.

We are grateful for your kind condolences regarding His Late Majesty King George VI, which was a loss to all the British people.

We wish you continued good listening from this station.

Cable & Wireless was also known as VQ7LO. In the 50's, in addition to C&W and FBS, Kenya was on SW via the African Broadcasting Service, later the Kenya Broadcasting Corp.

Yours sincerely,


(D.J.L. GARBUTT),
Capt. R. Signals.,
Station Commander.

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— *World Radio TV Handbook 1992*

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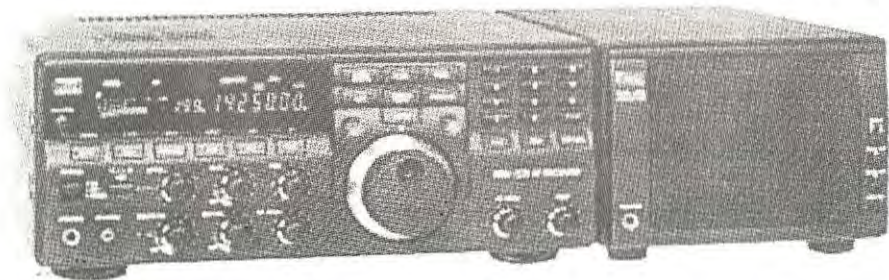
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— *Amateur Radio Action (Australia), August 1991*

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— *Passport to World Band Radio 1992*



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