

NASA

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North
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Shortwave
Association

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Drake R-8 Communications Receivers

DRAKE

R-8

SPECIFICATIONS

Dimensions	13.2"W x 5.25"H x 13"D	
Weight	13 Lbs. (16 Lbs. ship)	
Frequency Range	100 - 30000 kHz	
AC Power	100/120/200/240 VAC 50 or 60 Hz 40 Watts	
DC Power	11 - 16 VDC @ 2A	
Antenna 1, Converter	50 ohms unbalanced	
Antenna 2	50 or 500 ohms unbal.	
Selectivity	@ -5dB	@ -60dB
All modes except FM	6.0 kHz <12.0 kHz	4.0 kHz <8.0 kHz
	2.3 kHz <4.5 kHz	1.8 kHz <3.6 kHz
	5 kHz <1.5 kHz	
FM mode only	12.0 kHz	<25.0 kHz
Ultimate Selectivity	>95 dB	
Image Rejection	>60 dB	1-1.5 MHz
	>80 dB	1.5-30 MHz
I.F. Rejection	>80 dB	45 MHz
	>100 dB	50 kHz
Intercept Point	>+54dBm 20 kHz spacing >-20dBm 5 kHz spacing	
Notch Filter Attn.	40 dB min Depth (500-5000 Hz)	
Sensitivity	10 dB S+N/N	
SSBCW	<1.0µV	1-1.5 MHz
	<0.5µV	1.5-30 MHz
	<0.25µV	5-30 MHz
AM	<3.0µV	1-1.5 MHz
	<1.5µV	1.5-30 MHz
	<0.8µV	5-30 MHz
FM (12dB sec)	<0.5µV	1.5-30 MHz
Freq. Stability	±10 ppm, -10° to 50° C.	
Freq. Accuracy	±100 Hz, -10° to 50° C.	
Intermediate Freqs.	1st IF = 45 MHz 2nd IF = 50 kHz	
Ext. Speaker Output	2.5 Watts, 4 Ohms. <10% distortion	
Recorder Output	300 mV, 4.7K Ohms.	
Demodulator Output	300 mV, 4.7K Ohms.	
Operating Temp.	-10° to 50° C.	



The R.L. Drake Company has been a leading name in American electronic communications since 1943. The new Drake R-8 is a microprocessor controlled, synthesized, all mode, world band receiver offering excellent sensitivity, high dynamic range and other features for the most demanding listener. It has been designed as a "complete package." You get many items as standard equipment, that would be extra on other receivers. Multi-mode reception (AM, FM, USB, LSB, RTTY and CW) is featured throughout the range of the receiver (100 kHz to 30 MHz). A high-Q, 8-pole, electronically switched IF filter provides a range of five bandwidths. These bandwidths are automatically selected by mode, but can also be manually selected. The front panel liquid crystal display provides visual feedback to the operator of the current status of the receiver. In the AM mode, a selectable synchronous detector (SYNCHRO) allows for enhanced reception by eliminating or reducing distortion due to fading signals. A Passband Offset control also aids in reducing or eliminating interfering signals by electronically shifting the receiver's IF frequencies without disturbing the operating frequency. This action allows the operator to electronically move interfering signals out of the receiver's passband thus utilizing the degree of selectivity provided by the high-Q, 8-pole IF filter. The Passband Offset is also coupled to the synchronous detector (SYNCHRO) allowing the passband to be altered while the detector is in use. Other reception aids include selectable AGC, wide/narrow noise blanker, RF preamplifier for enhancing weak signals, RF attenuator for further improvement of strong signal handling capabilities and an adjustable RF gain. A Notch filter is also supplied as an effective tool to eliminate offending tones (heterodynes). A mute feature is used with a transceiver.

Two VFOs (tuners) called A and B, are provided on the R-8. Selection is made with the VFO function key. Frequencies can be directly entered through the keypad. A programmable memory area allows for 100 non-volatile memories segmented into blocks of ten. The following may be stored in any memory location: frequency, mode, bandwidth, AGC setting, RF setting, antenna, notch on/off, noise blanker setting and synchronous detector on/off. As a result of three scan methods and three scan modes; nine distinct scan functions are supported in the R-8. The three methods are: Stop at carrier detect, Pause 5 seconds on carrier and Pause at carrier until carrier drops for 5 seconds, then resume scan. The three modes are: Scan all memories, Scan all unlocked memories of user-selected list and Scan from VFO A to VFO B.

A built-in 24-hour clock timer allows the R-8 to turn on and off at preset times. In addition, the rear panel timer connection (5 pin DIN), allows control of small recorders, etc. to record a favorite program. The R-8 rear panel provides a common DB-9 connector for standard RS232C data communications with a terminal or personal computer (9600, 1,17,1, even). This interface provides complete control and programming capability of the R-8. Only the analog controls such as volume, RF gain, etc. are not controllable. In terms of performance and features, the American-made R-8 is absolutely state-of-the-art!

OPTIONS

- + Drake VHF Internal Converter
Infinately mounted covers from 35 to 54 MHz
and 108 to 174 MHz in all modes.
- + Drake MS-8 Speaker
Matching speaker for improved fidelity.
- + Drake Control Software for PC
Run the R-8 from your terminal or PC.

PRICING

Drake R-8 List Price	\$979.00
Drake R-8 Discount Price	
Order #0008	\$959.95
Shipping/Handling/Insurance	\$10.00



Universal Radio

1280 Aida Drive Dept. NASW
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In Ohio: 614 866-4267

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NASWA Notes

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NASWA Celebrates 25th Anniversary As An All SW Club!

It was 25 years ago in August, 1966, that Bill Eddings announced "NASA - Now New Era Club For SWBCers!" Eddings was the Executive Director at that time and the switch to all-SWBC coverage was a major one which quickly made NASA a leader in the hobby world. The change in the name from NASA to NASWA did not occur until late 1966.

Don Jensen tells the story of how the change took place in his **History Of The North American Shortwave Association --**

"The slowly developing emphasis on shortwave in the club reached the point in May that a proposal to devote the entire bulletin to SW, and abandon the other aspects of coverage, medium wave BCB, hams, TV and VHF/Space, cardswapping, etc. was put to the membership. Members with other interests were offered a deal. They could switch to the all BCB club, IRCA, or the broad-based **Canadian DX Club** for the remainder of their membership, with their fees paid by NASA, or they could get a cash refund.

"About 70% of the membership voted, a rather startlingly high percentage. The vote was 196 to 192 in favor of converting NASA to an all SWBC club. The result, announced in July, 1966, was not really a surprise, but a few did complain in the bulletin that they were being exiled from a club they'd long supported. But many who voted "no" stayed on as members.

"Don Jensen became shortwave editor, with Ron Luyster and a Canadian member, Gregg Calkin (now a Canadian diplomat) as assistant editors. Calkin developed the QSL section. Soon the **Log Section** had its own editor,

Calendar Of Events

August 10 - Minn DX Club. Annual Picnic, Kodiak Park in Columbia Heights, 49th Ave NE, E from Central Ave. (Hwy 65) Contact George Sherman (612)432-7975

Aug 20 - N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. Mike Fanderys (216) 661-2443

Sept 20 - Meeting of the Boston Area NASWA Chapter, GTE Labs, Waltham, Mass. Please contact Paul Graveline (508) 470-1971 for additional information. (We regret the error in last months listing. There will be no meeting in August)

Oct 4/6 - 1991 Monitoring Tomes Convention / ANARC Convention, Knoxville, Tenn. For registration info write: Monitoring Times, PO Box 98, Brasstown, NC 28902

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

Texan Del Hirst. The section was now 10 to 12 pages long with many contributions. Dan Henderson took over as *Newsroom* editor. Bob Hill became contest editor/manager. Though still a mimeographed bulletin,

Our Motto is - "Unity and Friendship"

FRENDX had taken on most of the features it would retain for at least two decades."

Don says further on that "Membership in the new NASA cost four dollars a year. Two months after the switch, the club completed five years of existence."

NASWA's club "motto" has and as far as I'm concerned, still is, *Unity And Friendship*. Unity and Friendship is what has kept this club together and it will keep it together as a leader in the shortwave hobby for years to come.

To help celebrate our silver anniversary, Rich D'Angelo is inviting you into the NASWA store for commemorative coffee mugs and special reprints of the August 1966 edition of the NASA bulletin. Check out his column for details on these items.

I thought I'd try something new with NASWA Notes by asking some of the other folks involved with club leadership to pick a topic and be a "guest" NASWA Notes columnist. With little prodding, Editor-In-Chief, Dr. Harold Cones, is my first guest.

NASWA Notes Guest Columnist -

Harold "Dr. DX" Cones

I get letters every now and then from members interested in the "day to day" operation of NASWA. Since I am the guest columnist this month, I thought I would grab the opportunity to share some information with you.

One of the more frequently asked questions has to do with the monthly compilation of the *Journal*. My job as Editor-in-chief involves corresponding with the column editors to make sure they are conforming to the guidelines published in the NASWA Editor's Manual. This manual speaks to content, margins, deadlines, and so on. I also set page allocations, handle guest columns, and look ahead for any flow problems that might occur. I do not first receive the columns from the editors to read—that would

ANARC SWL Ham Net

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

introduce an unneeded delay. Some of the editors send their column to Bob Brown via the CompuServ or GENIE computer network or directly by diskette. Bob also takes some of the columns that are typewritten and scans them into the computer for paste-up. Those editors who do their own paste-up send their column directly to Bill Oliver by the due date which is the last Saturday of each month.

The actual construction of the *Journal* takes place on the last Saturday of the month when Bob Brown (and often Kris Field, Rich D'Angelo, and Tom Sundstrom) shows up at Headquarters. Headquarters is actually Bill Oliver's upstairs, which he has totally turned over to NASWA, the Long Wave Club of America and Old Milwaukee. In one side of the upstairs is the "magic table" where Bill, with the help of the others, puts it all together. If I have done my planning carefully and the Editors have done their job properly, Bill's job is one of simple assembly; if any of us have messed up, Bill's job gets more complex. But Bill is a wizard at fixups. And I bet you can't tell which *Journals* were right to start with and which ones Bill had to work on! When "the book" is assembled, Bill delivers it to the printer, along with the covers which his wife Evelyn has previously put mailing labels on (yep, she hand labels each one), picks it back up in a few days, and mails it to the membership. Jon Cohen often helps count the books in preparation for post office delivery.

Throughout the whole operation of NASWA, Bob maintains control. The job of Executive Director is a backbreaker. Every month, Bob computer prints many of the

columns, answers a pile of correspondence to members and other clubs, manages the mailing list, answers a bunch of phone-in questions, is the chief cheerleader for NASWA and performs an almost infinite number of other NASWA related jobs. I would guess that Bob spends over 20 hours a week in NASWA related tasks. Kris lends as much help as he can. The operation of NASWA runs smoother because Bob, Kris and Bill all live within a stone's throw of each other and can meet as often as necessary to iron out wrinkles. And the fact that Bill is now retired and devotes longer hours to NASWA helps too.

Everyone's job is made much easier with greater member input. The column editor's columns are no better than the member input with which they have to work. The hours spent putting out the Journal are rewarding for those involved if the columns (and therefore the end product) are good. All folks involved in Journal production (including the printer) are proud of their product.

Another question that is frequently asked

concerns club decision making. NASWA is governed by an Executive Council (the members are listed on the back cover of the Journal). Those members of the council directly involved with *Journal* publication (director, publisher, editor-in-chief, etc.) make the day to day decisions in order to insure that Journal publication is expedited. Whole organization matters, however, such as a dues rate increase or structural reorganization, require the vote of the entire Executive Council. Most members of the Executive Council belong to the Compuserve network and contact each other often. Additionally, Bob and I talk on the phone several times a week and I frequently talk to the layout gang at Headquarters on "Journal Day."

I hope this information helps answer some of your questions. And I will close by saying if any of you are interested in working with the NASWA gang, drop me a line and I will see if I can put you to work. We often have short term tasks as well as long range jobs available. Enjoy!

Welcome to the following new NASWA members -

Dave Archer, Tonawanda, NY
Frank J. Augustine, Fairfax, VA
Mr. Jon L. Bailey, Yashon, WA
R. Martin Baumhardner Jr., El Dorado, AR
Mr. Joseph Bishop, Bothell, WA
Chris Block, Wellesley, MA
Robert Bonotto, Princeton, NJ
Rod Cardella, Fresno, CA
James C. Carpenter, Milwaukee, WI
Donald J. Carroll, Apo San Francisco,
Paul Darden, Dadeville, AL
Bill Dooley, Minneapolis, MN
John T. Dwyer, Ferguson, MO
Marshall G. Erickson, Mound, MN
William G. Fentress, Herndon, VA
Vol C. Ford III, Dayton, OH
Jeffrey Gill, Arlington, MA
Steve Halpin, Victoria, TX
Harold Hibard, Downey, CA
Brent Irving, Manchester, MO
James F. Johnson, Richmond, VA
Patricia Lange, Rochester, NY
Stan Lui, Los Angeles, CA

John A. Lynch, Wildwood, NJ
Robert A. Matevsh, Cooper City, FL
Patrick T. McAfee, Largo, FL
Jay Mottern, Seattle, WA
Robert S. Mynarski, Minneapolis, MN
Nick Nasson, Hingham, MA
Scott C. Newman, Indianapolis, IN
William A. Newman, La Jolla, CA
George J. Nigro, West Hills, CA
Orlando Ollivero, Hato Rey, PR
Alexander Orsa, South River, NJ
David G. Perry, Tuscon, AZ
Stephen E. Pitts, Omaha, NE
David Raglin, Arlington, VA
William Ringle, McLean, VA
William Schmitz, Washington, DC
Ferdinand Schouten, Boulder City, NV
Arthur & Dorothy Sinofski, Keeler, CA
Van Tulley, Tifton, GA
Gus T. Tedesco, Marion, OH
Tom Toenjes, St. Marys, KS
Glen A. Wilson, Northridge, CA

DXer's Forum

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FOR REASONS DISCUSSED in last month's column, I find myself moving again. Moving entails all manner of sorting and packing, of course, and sometimes in the process you run across things you'd forgotten you had. In the process of packing my files, I ran across various interesting items that were, at some time or other, intended to be grist for the Forum's mill. This month I purge my files of an Indonesian-language pronunciation guide.

NEXT, BRIAN LAWRENCE checks in this month with a look at the QSL policies of a couple of well-known broadcasters—Radio Pyongyang, and the Voice of America.

FINALLY, we have a preliminary user review of the new Drake R-8 receiver, courtesy of Guy Atkins. Relative newcomers to the shortwave hobby might be wondering, "Who are these Drake people, and why is everyone so darn excited about this new receiver?" For their benefit, a little background: for many years, the R.L. Drake Company of Miamisburg, Ohio built some of the finest communications receivers available to the general public. The R4 series, the SPR4, and most recently, the R7/R7A have earned a place in the receiver hall of fame alongside Hammarlund and Collins. Drake left the shortwave receiver market a number of years ago. But those of us who remember the company's legacy were elated at the mere mention of a new Drake receiver. There will undoubtedly be a number of full reviews of the R8 in the coming months, but for the impatient (like me!), we'll take a quick peek.

Indonesian Pronunciation Guide

A few months ago, the Forum featured a column dealing with how a DXer could improve his recognition and understanding of various languages. One suggestion was to obtain pronunciation guides for various languages to determine what various words and place names *should* sound like—thus making recognition over the airwaves more likely. Used book stores are wonderful sources for Spanish, French, and German textbooks and language guides, and I've occasionally run across Italian and Portuguese titles. I even have a little phrasebook (complete with pronunciation guide) entitled *Say It In Swahili* which now inhabits a prominent (albeit little-used) spot on my DX bookshelf. But *Indonesian*? Good hunting.

The public library in Birmingham, Alabama does not exactly have a reputa-

tion as a research center, so it was without a great deal of hope that I took my search there. To my surprise, I found a paperback entitled *Indonesian: A Complete Working Course* by J.B. Kwee. The book is well-titled—the course is about as complete as a 150-page paperback can be, and best of all, it includes a pronunciation guide. The following DXer's pronunciation guide is condensed from the book's first chapter. For the sake of brevity, a number of single-word exceptions to the pronunciation rules have been omitted here.

VOWELS: A, E, I, O, U

A sounds like the English *a* in 'far' but is slightly shorter and is pronounced more open and further forward in the mouth.

E has two sounds, depending on whether it is stressed or unstressed. Unfortunately,

the architects of the language did not include an accent mark. If you speak the language, you just *know*, I suppose. Of the three Indonesian dictionaries I've used, only one incorporates an accent mark to denote a stressed *e*. Pay your money and take your chances: when unstressed, it sounds like the English *a* in 'among', and when stressed, like the English *e* in 'let'.

I sounds like the English *i* in 'tin' when it appears in closed syllables (bracketed by consonants); in open syllables, it sounds like the English *ee* in 'seen'.

O sounds like the English *o* in 'hob' (don't ask me what a 'hob' is; that's what Mr. Kwee says! How about 'Bob'?)

U sounds like the English *u* in 'put', but is slightly longer.

NOTE: The letters *aa* sometimes occur, and are pronounced with a stop between them (*sa'at*).

DIPHTHONGS: AI, AU, OI

AI in open syllables sounds like the English *i* in 'like'; in closed syllables, there is a slight pause between the two.

AU in open syllables is pronounced like English *ow* in 'cow'; in closed syllables, there is a slight pause between the letters.

OI sounds like the English *oy* in 'boy', but is rarely used.

CONSONANTS: B, C, D, F, G, H, J, K, KH, L, M, N, NY, P, R, S, SY, T, W, Y, Z

B like the English *b* in 'boy'.

C somewhat like the English *ch* in 'chair'.

D at the beginning of a word like the English *d* in 'day'; when it is the final letter in a syllable, like the English *t*.

F like the English *f* in 'far'.

G like the English *g* in 'go'.

H at the beginning of a word or between two identical vowels, like the English *h* in 'hat'; when it is the final letter in a syllable, it is pronounced very softly; otherwise, it is generally not pronounced at all, though there are a few exceptions.

J like the English *g* in 'gentleman'.

K like the English *k* in 'king', but without the 'explosion'.

KH sounds like the German *ch* in 'ich' or the Scottish *ch* in 'loch'.

L like the English *l* in 'loose'.

M like the English *m* in 'man'.

N like the English *n* in 'no'. **Note:** NGG sounds like the English *ng* in 'longer'.

NY like the English *n* in 'new'.

P like the English *p* in 'pen', but without the 'explosion'.

R is trilled like the Italian *r*.

S like the English *ss* in 'boss'.

SV like the English *s* in 'suit'.

T like the English *t* in 'tin', but without the 'explosion'.

W like the English *w* in 'were'.

Y like the English *y* in 'year'.

Z like the English *z* in 'zoo'.

ACCENT

Indonesian is stressed much weaker than English. The stress usually falls on the last syllable.

WARNING!

While it's OK to get *comfortable* with a language, it doesn't pay to get *cocky*. I've been listening to Indonesians nearly every dawn nine months out of the year for the last four years, and I still get badly fooled.

If you're truly interested in a further study of the Indonesian language, Mr. Kwee's book looks like a good place to start. Try writing the U.S. publisher, David McKay Co., Inc., 2 Park Avenue, New York, NY 10016, or in the U.K., Hodder & Stoughton Ltd., Mill Road, Dunton Green, Sevenoaks, Kent.

Another source, reviewed several months ago in the Listener's Library, is the "Language 30" series of audiocassettes. Write Audio Forum, Room 183, On-The-Green, Guilford, CT 06437 for a catalog.

And, of course, don't forget one of the best resources—your receiver! The best-heard Indonesian signal throughout the U.S. is probably RRI Ujung Pandang, on alternating frequencies of 4719 and 4753 kHz. RRI Sorong is also a good bet in the fall and spring months on 4874.6 kHz. Try during the half-hour preceding and following your local sunrise. ■

East and West: A Tale of Two QSLs

by Brian Lawrence

KNOWING THE DIFFICULTIES that some people have had in QSLing Radio Pyongyang, I thought a letter I received last week from them would be of considerable interest to our members.

The contents of the letter indicate that Radio Pyongyang is interested in hearing our comments. It is a referral form letter, with a space to "fill-in-the-blank" with the name of the person who introduced you to the station. Perhaps mentioning this letter, or mentioning that another listener indicated that the station was interested in listener comments, might result in obtaining a sought-after QSL.

My experience with R. Pyongyang has been very positive. Eighteen months ago, I submitted my first reception report attempt, and it was verified in 70 days. I heard their English broadcast on 9325. I commented on their music and requested publications. I received a large airmail envelope with a thank you form letter, schedule, green book, flag pennant, and a Korean publications booklet. I later received a New Year's greeting card. I found it interesting that they responded to the name on my return address label, and always address their mail to "Mr. and Mrs. B.W. Lawrence." They address to which I sent my report is:

Pyongyang Broadcast Station
Ministry of Posts and
Telecommunications
External Service
Pyongyang
Democratic Peoples Republic of Korea

ON ANOTHER NOTE, concerning several recent comments in the *Journal* about difficulties in obtaining VOA's QSLs, I would like to share the following experience. I submitted two separate reports for broadcasts based on 1991 WRTH and PWBR schedules: one card could not be completed and the other had four sites listed. With the "incomplete" card, the

VOA included a copy of its frequency schedule showing the frequency I heard was not listed in the booklet, and therefore I couldn't have heard it. I wrote back, returning the two QSL cards with an explanation that included copies of appropriate pages from WRTH & PWBR for the "incomplete unlisted site" card, and a copy of the VOA booklet page for the "4 sites" QSL. The unlisted site one came back with a "could not verify" written on the card, but the other one was replaced by a card with the one site shown for my reception.

SEVERAL MONTHS LATER, following a six week waiting period (a long time for the VOA), I sent a follow up for another non-English broadcast. I included my original report, a copy of the appropriate page from VOA's frequency schedule (highlighting my reception frequency and time) and a polite request to look into the delay. I received a correct QSL in just over a week!

I now faithfully use VOA's "Frequency Schedule" to double-check my reports before they are sent in, as I strongly suspect this booklet is used to determine transmitter sites by the QSLers.

This past week, I received three correct QSL's in approximately two weeks. This time, each QSL stated the appropriate data along with the relay site on a computer label. It appears that the VOA has improved their system. I also received some booklets, a shuttle poster and some blank reception report forms prepared and signed by "Irene R. Greene, QSL Desk, VOA Office of External Affairs."

Perhaps my experience of using the VOA's own "Frequency Schedule" can help others when trying to QSL the various sites.

THANKS FOR SHARING your experiences with us, Brian. I'm green with envy over your Pyongyang QSL, having abandoned all hope myself after numerous attempts over the past several years. Perhaps another try is in order, after all. —(ka)

The Drake R-8 Receiver— A Preliminary Review

by Guy Atkins

I've had my Drake R8 for three days now, and here are some of my initial impressions. I had the opportunity to compare it side-by-side for an entire evening with a Drake R7 and a JRC NRD-515.

PHYSICAL/ERGONOMICS

At first I was really bugged by the itty-bitty rubbery push buttons... what is this, a Spark-O-Matic \$99 car stereo?? Over the days however, I grew to like their soft-touch feel. It remains to be seen if they can stand up to continued use, especially the lettering on the buttons and the internal switch contacts. Call it old-fashioned, but I gravitate toward real he-man switches that have a solid mechanical feel to them... something you can squirt contact cleaner into if it begins to act up. The only switches of the "modern era" I respect are like the quality, high-MTBF contacts used in the FET switches on the Kiwa Electronic's MAP unit.

I have a *major* dislike of the tuning knob; it would be the first thing I'd replace. Perhaps I was spoiled by the classy, custom tuning knob on my old NRD525 (even the stock '525 knob is a dream compared to the R8's). Anyway, it is too small, lightweight, and easily bumped when adjusting other nearby controls. I would have liked the R8 in a case 10% larger to give better spacing between controls. However, I *really* like the implementation of variable-rate tuning on this radio. When you spin the knob with zest, it doesn't go off into turbo-space; the higher tuning rate is sufficiently faster for my liking, but not TOO fast.

Although on the small side, I'm impressed with the feel of the dual-function knobs like the VOL/RF GAIN, SOU/ELCH/PBT, and TONE/NOTCH.

Now, let's talk about the R8's pitiful

excuse for a metal case! I can't believe Drake would sell any of their products with a cabinet so flimsy. Just a slight press on the top flexes it a surprising amount. It is *very* thin! I'd be willing to pay \$35 more to Drake just for a metal cabinet worthy of the name Drake. The bottom and rear panels of the receiver are of decent thickness, however.

The green, back-lit LCD display initially reminded me of a cheap-o clock radio, but I'm now used to it. It *does* give the operator a lot of information in an easy-to-read fashion. It's taking some adjustment getting used to frequency entry and display in *megahertz* rather than *kilo-hertz*! I'd like to see a second decimal point shown between the 1 and .1 kHz spots like the NRD-525's display.

Some other ergonomic/operational dif-

*I have a major dislike
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ficulties include the default selection of bandwidths and AGC settings based on MODE. I'd rather chose my own combinations all the time than have the receiver do it for me. This is something easily remediable in the next version of the ROM chip if the Drake engineers so desire. Fortunately, all settings are independently selectable now, but you still have to start out with whatever Drake thinks you ought to be using.

Along these lines, I don't like having to cycle through all modes just to get to the one I want. It would be nice to have a future ROM chip revision that allows the user to "lock out" seldom used modes, such as FM (which really blasts your ears with distorted audio when you cycle

through it while listening to an AM or SSB station). I have the same gripe about having to cycle through the OFF AGC setting when all I want to do is go from FAST to SLOW. (The NRD525 has this problem, too.)

The point to all this is: when DX is really hopping, and that sought-after ID may be coming up at any moment, cycling through unwanted modes and settings takes up precious moments that may distract from or obscure a bit of audio at a critical time. Nit-picky? Yes, but I don't like the receiver to get in the way of my DXing.

PERFORMANCE

OK, now we're to the best part! In a nutshell, this radio really cooks, and the audio quality smells great, to boot! Here's a receiver that will easily equal the R5000's audio, I'm sure. It simply sounds great; the R7 and the NRD-515 audio can't even come close. The R8's built-in speaker is the best internal type I've ever heard, and when connected to an external speaker like the Kiwa MAP's or a Radio Shack Minimus series it is even better.

The R8 essentially equalled the DX performance of the R7 and the NRD-515. We tried the trio against all sorts of tough-signal situations. There were isolated cases where one receiver had an edge, but generally they were neck-and-neck in the DX race (The 515 was occasionally at a disadvantage because it lacks a notch control).

I really like the performance of the R8's Pass Band Tuning (PBT) control... it can make a dramatic difference in signal intelligibility. In my opinion it is at least equal and likely superior to the R7's vaunted PBT (except the R7 allows to user to "slide" easily from one sideband to the other; it takes the mode key to accomplish this on the R8).

The R8 is a very quiet receiver, continuing the Drake R7 tradition. I suspect this is due to the inherently quiet LCD display, very good internal shielding and the extensive ground plane grids found on every circuit board in the R8. To me, the R8's internal construction quality looks excel-

lent in all regards.

The five bandwidth filters perform very well, especially in conjunction with the PBT. The widths of 6.0, 4.0, 2.3, 1.8, and .5 are well chosen.

The R8's synchronous detector is at least as good as SONY's ICF-201 syn-

In a nutshell, this radio really cooks...

chronous detector. It can change a muddled signal into a clearer, less distorted one. It has surprised me by being able to lock onto quite weak DX signals. Only once do I recall that the detector lost lock on a weak signal, resulting in a wandering het as it tried to regain lock.

I feel the R8's AGC characteristics are well-chosen for AM mode signals. It does not blank the receiver for 2-3 seconds as the NRD-525 does in SLOW AGC.

For me, the bottom-line on the R8's performance will be decided next weekend when I take it to the Washington coast for a few hours of seeking out international MW DX and tropical band SW DX with the R8 connected to a 1000+ ft. Beverage antenna. If the R8's filters can dig out the MW DX like my NRD-525 did with its 1.8 kHz Collins filter, then I'll be truly impressed, and very likely won't take advantage of Drake's 15-day return policy.

Ed. Note: We'll check in with Guy again next month and find out how the Drake performed on his DXpedition—as long as he promises not to talk about how easy it is to hear Tonga on mediumwave from the West Coast! Some Guys get all the breaks...

Last month's Journal (and possibly this month's edition as well) featured an ad from Universal Shortwave for the Drake R8 on the inside front cover, including a full list of the manufacturer's specs, so we won't repeat them here. Universal's price actually beats the 'factory-direct' price from Drake!

Easy Listening

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

Profile - Radio New Zealand International

In the June *Journal*, you may recall I promised to profile a particular international broadcaster in detail every once in a while. This month, we'll take an inside look at Radio New Zealand International (RNZI). The following information was provided by Ian Johnstone, Manager of RNZI.

New Zealand has had a shortwave broadcasting service since 1946, when the government took over two 7.5 kW transmitters left behind by American military forces at Titahi Bay. Radio New Zealand, as the station was then known, was largely a relay of the domestic New Zealand Broadcasting Service. When the NZBS was incorporated in 1961, the station began receiving a government subsidy from the Ministry of External Relations and Trade. Into the 1980s, overseas broadcasts consisted mainly of relayed National Radio programs, as the government debated the value of external broadcasting.

In the late 1980s, with Radio New Zealand's transmitting capabilities dwarfed by Radio Australia, the BBC, and the Voice of America for Pacific coverage, the government chose to invest \$1.9 million (US\$) in a new 100-kW transmitter near Taupo, on New Zealand's North Island. And, on January 24, 1990, Radio New Zealand International signed on for the first time. Within ten minutes, a Berlin-based shortwave enthusiast phoned RNZI and stated he was receiving an excellent signal. Today, RNZI broadcasts in 14 languages to the South Pacific - English, French, Cook Island Maori, New Zealand Maori, Samoan, Niuean, Tongan, I-Kiribati, Bislama, Hindi, Solomons Pidjin, Papua New Guinea Pidjin, Motu, and Tokelauan. RNZI's annual budget is now US \$600,000.

RNZI's Mission

From an RNZI document: *Radio New Zealand International will be a friendly, trusted voice, talking with listeners in neighboring South Pacific countries and elsewhere about life in our country and region, the things we can offer, and the parts we can play in Pacific and world affairs.*

To earn and keep the interest and respect of listeners, RNZI will:

- *maintain program and editorial policies which follow the traditions of public broadcasting, and ensure honest and impartial treatment to listeners and contributors;*
- *advance overseas an appreciation of the mana of New Zealand and the value placed by her people on ideals of democracy, equality and freedom;*
- *reflect the diverse cultures, activities and achievements of New Zealanders, acknowledging the central part played in our heritage and future by the tangata whenua (sic);*
- *provide accurate and objective news and information programming, concentrating on matters of relevance to Pacific listeners, and setting in context domestic and regional reports;*
- *promote the attractions of our country and the quality of our products and services;*
- *encourage and expand links and understanding between New Zealand, her South Pacific neighbors, and the world community;*
- *feature whenever possible the words, songs, and music of New Zealanders.*

Mr. Johnstone continues: "Our job is to tell people what New Zealand is all about and to interpret the consequences of actions of the rest of the world on those who live in the South Pacific. Another factor is to make RNZI the means by which the South Pacific can talk to itself. If the rest of the world can listen in, that's even better."

Transmitter and Antenna

The 100 kilowatt transmitter was manufactured by Thompson CSF of France. It is of modern electrical design, and now includes a state of the art control and telemetry system operating through a standard RS232 computer port. The transmitter is unmanned, and is operated from the Wellington

studio some 340 km (210 miles) south of the Taupo transmitter site.

The transmitter is SSB and AM stereo capable, and is the only transmitter offered with Dynamic Amplitude Carrier Modulation as standard. DACM is a system designed to reduce power costs by reducing the carrier level transmitted to a level necessary for demodulation of the received signal. Power consumption is thus reduced between 25 and 40 percent. The transmitter can be automatically tuned to any frequency in the HF broadcast bands.

The antenna system was designed to be implemented in two stages. It is calculated that for the present position in the sunspot cycle, coverage can be achieved in the next four to five years utilizing frequencies in the 9 to 18 mHz range. Two 9-18 mHz antennas have been erected, with bearings of 325 and 35 degrees. Both antennas can be fed simultaneously through a splitter or individually. The 35-degree antenna is driven alone for the first four hours (roughly 1750 - 2206 UTC, while on 13785 kHz), and the 325-degree antenna is driven alone during the last five hours (roughly 0730 - 1210 UTC, while on 9700 kHz) of the broadcast day.

The two antennas are type HR2/4/0.5, meaning they are horizontally polarized with 4 stacked, broad band dipoles, the bottom dipole being 0.5 wavelengths above ground at the lowest band. The antenna is designed for 6 to 18 mHz, and the lobe is 70 degrees in width or 140 degrees with both antennas driven. The average angle of elevation is 10 degrees and the gain is 17 db at 9 mHz to 20 db at 17 mHz which gives an ERP of one megawatt in broad terms. The antenna is fed with 300 ohm open line feeders with a complex matching and switching system. A large reflecting mesh forms a backdrop to each antenna array and the tension on the dipoles is maintained with a system of pulleys and counterweights.

The Future of Shortwave Broadcasting - through RNZI eyes

Ian Johnstone states that radio is, and is likely to remain for a decade or so, the most important communications medium within and amongst Pacific Island countries. Colonial services linked Pacific territories with their "Owners" - Britain, France, American, Australia, and New Zealand. Now that most Pacific countries are independent, the task is to provide communication services which keep the various countries in touch with each other, and help migrant communities maintain contact with families and friends at

home. Although they vary widely in culture and geography, all Pacific countries have many things in common, such as rich musical and oral traditions, fascinating histories, and lively contemporary cultures. All are concerned about the environment, developing their economies, and opportunities for their children.

Ian states that the South Pacific is still the world's most beautiful and 'unspoiled' area, deservedly famous for hospitality, warmth, excitement, and a wonderful variety of lifestyles. RNZI aims to spread the word about our delightful region to 'less fortunate' listeners all over the world, and to provide a means whereby the people who live here can talk with each other about matters of common interest and concern.

Schedule Highlights

The following program selections are taken from the program schedule effective through August 1991; beware of possible frequency and time changes. I've highlighted only those programs from 2200 to 1210 UTC, as the frequencies at these times (17770 and 9700 kHz) propagate well to North America.

Most days, from 0900 to 1210 UTC, RNZI relays its National Radio program, with news, music, and features.

UTC Sundays

- 0100 - Sunday Scoreboard (sports)
- 0600 - Totally Kiwi Music Show
- 2200 - "Maggie Barry Show" from National Radio (Sunday through Thursday)

UTC Mondays

- 0200 - Wayne Mowat - "In Touch with New Zealand" (Monday through Friday)
- 0430 - Mailbox / Travel Pacific (alternate weeks)
- 0530 - Checkpoint (Issues of the day - daily Monday through Friday)
- 0630 - Ears (children's program - airs Monday through Friday)

UTC Tuesdays

- 0430 - RNZI Feature
- 0905 - Pacific Review (every fourth Tuesday)

UTC Wednesdays

- 0430 - "This Week in Sport" with Elma Maua

UTC Thursdays

- 0810 - Pacific Press Review
- 0830 - Mailbox / Travel Pacific (alternate Thursdays)

UTC Fridays

0430 - Rudi Hill Show (4th Friday)
Calling Pitcairn/Norfolk (1st/3rd Fridays)

UTC Saturdays

0012 - Money Matters
0105 - Saturday Magazine
0200 - Saturday Magazine or Sports
0500 - Change of Pace (Jazz)

Contacting RNZI

Radio New Zealand International welcomes reception reports and comments. QSL requests should be accompanied by 3 IRCs if an airmail reply is desired; 1 IRC if surface mail is OK. The "Frequency Schedule and Programme Guide" will be sent in exchange for one IRC.

Mailing Address: Radio New Zealand International, Broadcasting House, Bowen Street, PO Box 2092, Wellington, New Zealand
Phone number: +64 4 741 337 Telex: NZ 31031
Fax: +64 4 741 333

Radio Yugoslavia

As the column was being prepared on July 22nd, the Yugoslavian governmental situation was still in a state of flux. Radio Yugoslavia continues to maintain its daily broadcast schedule, providing a fascinating view of a country undergoing apparent disintegration. Radio Yugoslavia identifies itself as the "Federal Shortwave Station", to distinguish itself from the other regional broadcasters that have materialized.

Most of the opening news broadcast consists of an update on the governmental situation, with the perspective of the central government. As the European Community's efforts have been brokered by the Federal government, matters relevant to the EC peace agreement are emphasized. The news broadcast has recently been followed with background interviews on Yugoslavian history and culture with scholars based in the USA.

Even given the turbulent domestic situation, the weekly rotation of feature programs continues. Friday's feature was "Yugoslavia Rocks", a profile of contemporary Yugoslavian musicians. During the feature programs, no mention is made of the governmental crisis.

While broadcasters such as Radio Austria International ("ORF") may have a more balanced view of the Yugoslavian situation, the perspective of Radio Yugoslavia is fascinating to follow.

Both the 2100 and 0000 UTC 45-minute broadcasts have been reliably heard in Eastern

Pennsylvania; 11735 kHz is clearly the better frequency for the 2100 UTC broadcast; both 11735 and 9620 kHz are reliable for the 0000 UTC release.

BBC Highlights - August

Great Newspapers continues its profile of leading world newspapers; August profiles include the Washington Post, Pravda, The Jerusalem Post, and Le Monde. Wednesdays, 0130, 0930, and 1715 UTC.

It's the Law! examines various worldwide legal systems, from Marxism-Leninism to the Confucian system to Britain's "Common Law" system. Sundays beginning August 25th, 0230 and 1615 UTC. Repeated the next Monday at 0730 UTC.

Leaders and Leadership is a six-week series beginning August 7th, hosted by Geoffrey Stern of the London School of Economics. Each week, a different current or former head of state is interviewed. Wednesdays at 2030, repeated Thursdays 0230 and 1001.

Pop Science combines pop music requests and science and technology. Both questions and requests can be phoned in on +44 71 257 2691. Janice Long hosts. Tuesdays at 1001 and 1830 (1830 broadcast pre-empted on August 13th and 20th); Wednesdays at 0330.

The Great Cathedrals of Britain tells the stories of key British cathedrals, from early fragments to current times. Fridays beginning August 23rd, 0730, 1215, and 1930 UTC.

Proms 91 continues its classical music festival with coverage of 11 live Promenade concerts. All start at 1830 unless otherwise shown. August 2nd, 3rd, 10th, 13th, 17th, 20th, 23rd, 24th, 26th (1900), 28th, and Saturday, August 31st (1925).

The 1991 **Brain of Britain** will be crowned August 11th at 2030, with repeats the following Monday at 1215, then Thursday at 0330. The preceding week features the last semi-final round.

Thanks to all who have written - especially with comments on their favorite BBC programs. If you have a particular favorite, send me a postcard or an E-mail note. I'll summarize the comments in the *October Journal*. Correspondence on any aspect of Easy Listening is always appreciated. I'll have more reader comments next month. Until then,

73 DE Richard

Latin Destinations

Don Moore
20108 Hayes Road
Big Rapids, MI 49307



Hola amigos! Welcome to Latin Destinations. This month, a little Latin smorgasbord, as we jump around the map. First, an error correction from the May column. I incorrectly stated that Colombia's Radio Macarena is a Roman Catholic station. In truth, it is a commercial member of the TODELAR network. I realized my mistake a few days ago while browsing through my Colombian QSLs.

Latin American Stamps

It's time for another LAM Destinations contest, but this time no quiz. I have a large envelope stuffed with Latin American postage stamps, mostly postmarked. There are lots of duplicates, but many different stamps. Honduras, Brazil, and Peru are probably the most represented countries. I will divide the stamps equally between the first three people to send me a card or letter requesting them. Do not include return postage - replies will only be sent to the winners. Deadline is September 10th.

Happenings In Paraguay

Next on the agenda is Paraguay. Usually Paraguay is pretty well ignored by the rest of the world, but two recent events there deserve mention. First, the massive Itaipu hydroelectric project was officially inaugurated on May 18. The world's largest dam & hydroelectric plant, it is located on the Parana River, half in Paraguay and half in Brazil - and jointly owned and operated by the two countries. Itaipu has 18 turbines producing a total of 12,600 megawatts of power. The electricity is split 50/50 between the two countries, but tiny Paraguay only needs 2% of the power to meet all its needs for electricity. So, Paraguay sells the remainder of its share to Brazil. Together with Brazil's share, that meets 35% of Brazil's huge needs - and the sale of electricity to Brazil pays for over a quarter of Paraguay's national budget. What a deal! Paraguay is currently working on similar, although smaller projects on its other river boundaries with

Brazil and Argentina. Who knows - they may eventually be able to finance their entire national budget by selling hydroelectric power!

The second event of note in Paraguay was on May 26 when free elections for mayors were held for the first time in the country's history. These were only the second free elections in Paraguay's history. The first ones elected a president in May, 1989, just after the overthrow of Alfredo Stroessner, dictator for 35 years. Although Paraguay never had a freely elected government until two years ago, that's not to say Paraguay was unstable. It was ruled by a series of stable long-term dictators like Stroessner. There were even two political parties, the Colorados and the Liberals, which jockeyed for power via dictatorship. Perhaps it's not surprising that the people in the capital of Asuncion rejected the two traditional parties and elected an independent doctor and union leader as mayor.

Another interesting thing about Paraguay is that it is an officially bilingual country. When Spain colonized Paraguay in the 1500s, it was inhabited by the Guarani Indians. Thanks especially to the efforts of Jesuit missionaries, the Guarani were able to retain some of their culture, including their language. Spanish and Guarani grew side by side. Today Guarani is considered a symbol of the nation culture. Unlike many bilingual countries where different groups of people in different areas speak different native languages, in Paraguay almost everyone everywhere speaks both languages as native languages. Children learn both languages naturally as they grow up. People normally use Spanish in business, education, and government, and Guarani for family matters and chatting with friends. It wouldn't be unusual for two businessmen to use Spanish to conduct a deal, then converse in Guarani over lunch.

The easiest way to hear SWBC from Paraguay is to tune in Radio Nacional on

9735v. The 100 kw transmitter is only operated at an inefficient 35 kw, but it gets out rather well when there's no QRM around. It can sometimes be heard in the evening, but the best time to try is early mornings around 0900. Don't let the early hour dissuade you. Radio Nacional de Paraguay's morning program features a lot of upbeat Paraguayan harp music which will surely wake you up! The talk will be primarily in Spanish with occasional stretches in Guarani. Guarani doesn't sound anything like Spanish, although some Spanish words have crept into the language. Otherwise, Paraguay has several frequently inactive stations. The best bet would be Radio Encarnacion on 11944v in the evenings.

Moving On

Democracy is busting out all over. In Surinam, that former Dutch colony in northeastern South America, free elections were held for the first time in several years in May. This leaves Castro's Cuba as the only non-elected government in the Americas. Non-democratic forces still wield considerable behind-the-scenes power in some countries, but never before has the hemisphere been so free. The big question is how long will Fidel hold out? While I don't suggest playing requiem for Fidel yet, I wouldn't delay in adding a "Radio Habana Cuba . . . Free Territory of America" ID to my tape collection.

New Stations

Peace is gradually returning to Central America, and with it stability and economic development. Improved economies in Latin America usually bring an increase in shortwave broadcasting, and that seems to be the case here. DXers have already heard the new Radio RICA (Radio Informaciones de Centro Am•rica) which began transmitting on November 1, 1990 from Nicaragua. In fact, Ron Howard of Carmel, CA has verified it & forwarded a station fact sheet. The station was put together by a group of reporters, intellectuals, and artists to promote

Central American unity. The station hopes to stimulate the common development of the societies and values of the various Central American countries. Programming consists of blocks of news and music plus special programs for children, women, young people, and the handicapped, among others. They presently use a dipole antenna and Yaesu and Alfa transmitting equipment with 1 kw on SW. Radio RICA has plans to raise power to 10 kw, but it will cost them US\$16,000 for the equipment, infrastructure, and installation. They are looking for donations, if anyone has a few spare dollars on hand. The address is Radio RICA, Apartado Postal 38, Sucursal 14 de Septiembre, Managua, Nicaragua.

More new Central American stations are already lining up. Radio Maya International should be starting up just about any day now from Honduras. Radio Maya is another in a series from SW's intinerant station owner, Jeff White, which means programming should be top-notch. There are still plans for an Indian station in southern Costa Rica, being built with help from Radio For Peace International. It was recently announced that the Quakers are building a station in Chiquimula, Guatemala. Finally, I recently came across information that the Guatemalan government had granted the Universidad de San Carlos permission to set up a network of cultural/educational stations to broadcast in Spanish and several Indian languages. There was no mention of frequencies or bands, but any serious attempt to reach the Indians in the mountainous interior would have to include SW. San Carlos, by the way, is the main university in Guatemala, and one of the most respected ones in Central America.

Well, amigos, that looks like it for another column. The new DX season is rapidly approaching, and with it, surely some new catches and interesting broadcasts. Isn't it nice to have something to look forward to when summer comes to an end? Hasta luego & 73s, Don

Listener's Classroom

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Matoaca, VA 23803-8048
Compuserve 76476,1556



Lately there have been several letters inquiring about logging methods used by the DXing community. With the advent of the PC, logs are the constructs of a simple program. But many homes do not yet have a PC. So what we shall discuss here is a conglomeration of many ideas that can be used without a computer. Over the next two issues you can choose the parts that appeal to you and write to me discussing the merits of what you chose or didn't choose.

The Basic Log

Everyone should have some type of log wherein is kept the date, time, station, frequency, and other notes. Let's look at a few sample lines of a log.

<u>DTG</u>	<u>FREQ.</u>	<u>STATION</u>	<u>TRANSMISSION</u>	<u>SINPO</u>	<u>END</u>	<u>LANG.</u>
031455Mar74	11415	Courier	"Peyk-e-Iran"	44444	1755	Kurd
040001Mar74	9988	VoF.U.N.K.	Kampuchea	24322	0025	Khmer?
101500Mar74	12005	R. Cairo	Koran chants	33232	1530	Somali

DTG is something I picked up from my military days. It shortens the logging space. It stands for Date-Time-Group. In many logs there is a separate space for the month and day and another space for the time. There really is no need. 031455Mar74 shows that I heard the "Courier of Iran" on the 3rd of March 1974 at 1455UTC. Since all loggings are in UTC anyway, there is no need to indicate such unless a special need arises. Now I have more room in the "TRANSMISSION" column to make extra notes. I can even mention the power used in the event I need to verify it for a QRP (low power) award.

The FREQUENCY column lists the actual frequency shown by my receiver. Since all loggings are in kHz, why waste the space saying so? I can record the listed frequency in the TRANSMISSIONS column. The END space shows the time I either tuned away from the station or the actual end of that particular broadcast. This is helpful when doing a followup report.

The Second Log

Some of us just love to have scads of information at our fingertips when doing hard DX work. We make up a second log (later) that has more information on it. A secondary reason for this type of log is to avoid logging the

same station on the same frequency more than once in your primary log. What you eventually wind up with is a historical record. All it takes is a file box and a million 3 x 5 cards.

In the upper left hand corner is the frequency in kilohertz. This is also how the cards are filed. The next column shows the full station information. The "9 x 100" means that at the time of the logging there were nine 100 kW transmitters available at that particular site. The next column shows the meter wavelength of that frequency. Then, a few lines down is placed the DTG of the initial logging. In this case I show that DW shifted from English to French. Then the SINPO of that particular transmission. The last set of figures refer to the section of the main log. ...to be continued....73's!

21650	Deutsche Welle Federal Republic of Germany Cologne (studio) Julich xmtr site - 9 x 100 06.22E / 50.57N	13.86
171715AUG72	13 - 1 - 5	100kW -EE/FF 44334

Listener's Library

John Bryant, AIA
Route 5, Box 14
Stillwater, OK 74704
Compuserve 74730,2145



A very warm welcome to the August Listener's Library. As promised last month, we are going to feature the hobby of Hollow State Communications Receiver Collecting and Restoration this month, so let's get right at it.

NOSTALGIA RADIO: PART II

There are many different approaches to the hobby of Communications Receiver Collecting and Restoration. A number of well known DXers including Mitch Sams and Jerry Berg (Hammarlund HQ-180As) find and restore top of the line tube receivers TO USE THEM AS PRIMARY DX RECEIVERS. These folks, are convinced that no solid state rig has yet matched the DXing ability of the finest tube gear. Beside the Hammarlund HQ-180A, SWBC DXers attention has focused on that incomparable military receiver, the R-390A manufactured primarily by Collins Radio.

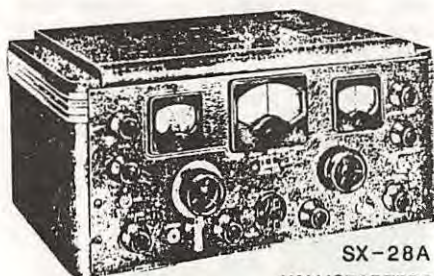
An bigger group of top flight MW DXers swear by tube gear. The 180A, the R-390A, the Hammarlund Super Pro SP-600 and the RACAL RA-17 all have devoted followings among MW DXers. In amateur circles, there is also a growing hollow state hobby, with many favoring the fabled Collins tube gear.

There are also quite a number of people who have one or more major tube receivers around, simply for shortwave LISTENING. Most people who have compared audio quality between major solid and hollow state receivers break into laughter when asked which type receiver has the best audio! The hollow state gear wins in a walk. There is also a growing number of folks who have simply fallen in love with the look, feel and sound of tube receivers and collect and restore these sets for the pure pleasure of having them around.



Luckily, tube receiver collecting is still a relatively inexpensive hobby, with most major receivers selling privately for between \$50-\$200, based on condition, rarity, etc. I've got to admit that I've developed this addiction. I now own three major tube receivers: an R-390A, a Hammarlund Super Pro SP-600 and a Hallicrafters SX-28A.

My favorite of the 3 is the 20-tube SX-28A, arguably the best receiver, all around, that Hallicrafters ever made. It was produced in the latter part of WWII for the Navy and sold on the civilian market for several years after the war. As you can see by the accompanying photo, the SX-28A LOOKS like a receiver...it's 12" x 20" front panel is covered with knobs large enough to be grasped by real human fingers. What you can't see is that those two big spoked tuning knobs turn a counter-balanced train of precision brass gears. The near-orgasmic experience of tuning the SX-28A cannot be described, "silky smooth" doesn't come close! And what you can't hear from where you're sitting is truly awesome audio quality. The Hallicrafters people thought so much of the audio quality of this receiver that they provided a special input jack on the back to plug in an FM Tuner or a turntable!



SX-28A
HALLICRAFTERS

There are probably as many reasons for collecting hollow state receivers as there are collectors. If you are interested in getting started, you probably have 3 areas of concern: Learning About Tube Gear, Where to Find Them, and How to Fix Them.

LEARNING ABOUT TUBE GEAR

To my knowledge, there is only one book which attempts to cover all of the tube receivers produced in North America. It is the currently out of print *Communications Receivers, The Vacuum Tube Era: 50 Glorious Years*, written by NASWAN Raymond S. Moore and published in 1987. It last sold in 1990 for \$14.95. Since there is a very good chance that this book will be republished, I'll describe it here. It is an 8 1/2" x 11" soft cover book with 112 pages split between hundreds of very rare photos and a very complete list/descriptions of the hollow state

communications receivers manufactured in North America between 1932-82. The list is preceded a very informative 15-page section documenting the development of receiver design throughout The Glorious Years. The listings are organized by manufacturer. Each section begins with a brief history of that manufacturer followed by descriptions of the receivers in Model Number order. Each model is precisely described by listing Years of Production, Retail Price, Frequency Coverage, Type (double conversion, single conversion, etc.). IF Frequency, Filters, Tube Compliment (by number and type), and Remarks covering special attributes of that particular receiver.

Since the demand for this book is quite high and the supply has recently been exhausted, we can hope that Ray Moore will authorize another printing.

A reference of some use to hollow state receiver buffs is *Shortwave Receivers, Past and Present* compiled and published by Universal Shortwave's Fred Osterman. This monumental research effort documents over 200 receivers, about a third of which are outstanding examples of tube technology. The remainder of the receivers are solid state models introduced prior to the books publication in 1987. The first half of this 100-page book contains the listing—a true Blue Book, giving rating, original price and 1987 value. The remainder of the book contains expanded specifications of many major receivers. This excellent reference costs \$6.95 at Universal Shortwave (800-431-3939).

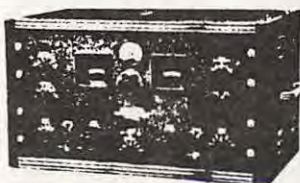


HALLICRAFTERS
S-38

If you are interested Hallicrafters receivers, Tiare Publications has recently released *The Hallicrafters Company: 1932-1982, A Partial Product Listing Covering 50 Years of Production*, by Chuck Dachis, WD5E0G. Other than founder William J. Halligan, the author knows more about Hallicrafters gear than any man alive. This 41-page book represents many years of research. The first 8 pages profile the author and give a history of the company. The remaining 33 pages are an annotated listing of all Hallicrafters products including receivers, transmitters, Citizens Band transceivers, TV's and other miscellaneous gear. It is available for \$12.00 from Tiare Publications, PO Box 493, Lake Geneva, WI 53147 (414-248-4845 days) and is highly recommended.

There are several other sources of information on hollow state receivers. Most major libraries have bound volumes of QST, if not other radio publications of the era. Receiver reviews are strangely sparse in issues from the '40's and '50's, but some of the advertisements are helpful. Some of the best reviews of the last major tube receivers were published in FRENDEX, the precursor to The NASWA Journal. Check the NASWA Reprint Catalogue. *Proceedings*, published by fine tuning has had major reviews of hollow state receivers in each issue (88: HQ-150, HQ-180A, R-390A; 89: Collins 51J-4; 90: article on tube receiver collecting; 91: Racal RA-17. The *Hollow State Newsletter* reviewed in the May 1991 Listener's Library is also a treasure trove of information and highly recommended.

SUPER PRO
Series 200



SUPER PRO
Series SP-600

 **HAMMARLUND**

WHERE TO FIND THEM

This issue is really beyond the bounds of Listener's Library and is a wonderful subject for a future Technical Topics column. Briefly, the best source for me has been friends in the amateur hobby with garages and attics full of tube gear that they couldn't throw away. Also, there is often quite a bit of good tube gear offered at regional ham fests and flea markets. Tap in to the local radio amateur community to find out when and where to go. The *Ham Trader Yellow Sheets* published twice monthly (24 issues for \$16.50 to HTYS, PO Box 15142, Seattle, WA 98115) also list a number of tempting tube receivers in almost every issue. Finding receivers won't be a problem once you get started, though it is sometimes a real treasure hunt. Have fun!

HOW TO FIX THEM

As was discussed last month, many people who own tube radio collections do not do the electronic maintenance themselves. They prefer to concentrate on "the hunt" or on exterior restoration. Every major city sports several shops who still work on tube gear. Check with the radio amateur community.

It is also fair to say though, that most people who collect major-league tube receivers choose to teach themselves hollow state repair. If you carefully go a step at a time, virtually anyone can learn this art. Three books were recommended to me when I started down this path about 18 months ago:

How to Repair Old Time Radios by Clayton L. Hallmark is, in my opinion, the very best book for the absolute rank beginner CURRENTLY in print. His first chapter covers the historical development of the various components and circuit types found in tube receivers. He then covers understanding circuit diagrams. Chapters 3-6 cover basic and advanced trouble shooting via several methods and goes into considerable detail. There is also gives clear and specific advice for isolating and testing components. Chapter 6, "A Handy Guide to Common Problems" is a wonderful reference by itself. The remaining chapters are Repairing Radio Parts, Substituting for Unavailable Parts, From the Authors Bag of Tricks, Receiver Tune Up and Advanced Radio Theory.

What I like about this book is that it even covers such elementary things as how to repair the plug! If you can understand how to operate a SONY 2010, you can understand this book! It sells for \$12.95 at Antique Electronics, 6221 Maple Ave, Tempe, AZ 85283 (602-820-5411).

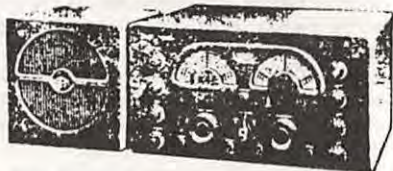
My second favorite beginner's guide is *Practical Radio Servicing* by William Marcus and Alex Levy. It was first published by McGraw Hill in 1955 and re-published by another major house in the mid '60's under the same title. It has been out of print over since. The authors were both radio teachers in the post-war vocational high school system in New York state. This book was written for non-college bound high school kids who were hoping to earn a living as radio and early day TV repairmen. The book is based on the then common five-tube table model radio. Their theory was that if the student thoroughly understood this simple receiver, he could rapidly apply these techniques to more sophisticated gear. I must relate a quote from the Preface that says it all:

"Professional servicing as a vocation is more than just testing, repairing, and replacing parts. When the dozens and dozens of parts in a radio all look good and the tubes test good, yet the set doesn't work, a knowledge of trouble-shooting techniques eliminates the need to test the parts laboriously one after another. Trouble shooting might well be called the Sherlock Holmes technique--it combines clues, symptoms, and simple tests to guide you almost magically to the guilty part when all look innocent."

"This book teaches radio trouble shooting the way it should be done to help you make a good living in radio servicing... The emphasis is on practical information, with no unnecessary theory and no confusing mathematics.

Frankly, If I could own only one book about radio repair, it would be this one. If you are interested, I suggest you use "inter-library loan" at your local library. If you like it as well as I do, you can ask a good second-hand book dealer to acquire one for you.

In my own library, I have one more favorite book on radio repair. It's the recently published *Fixing Up Nice Old Radios* by another old radio course instructor, Ed Romney. It's available for \$18.95 from most of our normal SW hobby outlets and Antique Electronics. This book is a slightly more advanced repair primer than the other two, though it is very easy to understand. It's a large 8 1/2" x 11", plastic comb-bound book with 185 pages and over 300 drawings and photos. After several general sections, it uses the repair of a number of different receivers including several from Hallicrafters and Hammarlund communications to illustrate the repair of various stages of circuitry.



NC-183D

 **NATIONAL**

As with the 3 general Antique Radio reference books reviewed in July, I can't imagine life without these 3 marvelous radio repair references. I have no doubt that even the most non-technical NASWAN could learn the care and feeding of tube radios using these books. Try it, you'll like it!

NASWA Portraits

Jerry Klinck
43 Lein Road
West Seneca, NY 14224



Hi again and welcome to another Portraits column. This month our guest NASWA is from the "Hoosier" state, and I know some of his comments will strike a chord with many of the rest of you. So, without further ado, let's hear the story of fellow member Luther E. Hall...

"While browsing at a newsstand in 1980, I came across a magazine titled "Communications World". Reading this magazine started me on the road to becoming an SWL, very parttime DXer, and collector of various shortwave sets. The magazine also gave the reader an overview of the various radio clubs, such as NASWA.

"I obtained my first shortwave radio from a HAM operator in Shelbyville, IN. It was a Zenith Transoceanic 1000D in mint condition. With some assistance from my father-in-law, who is an 'advanced' HAM operator, I began to engage in SWL and some DXing.

"In 1980 I also joined NASWA, purchased the club's book by Ed Shaw, sent for the WRTVH and received my first QSL cards. I received about 15 QSLs with that Zenith which I still have. Shortwave listening and attempting to DX opened up a complete new world and hobby to me. I became a radio addict, which is incurable, as you all know.

"The plot continues as I have read each issue of FRENDEX and now the Journal since 1980, finding it of interest how so many stations could be logged. When I purchased a copy of the World DX Guide, my eyes were opened to the mysteries of radio. During this same period, my interest in equipment started to build with interesting results.

"My first receiver with digital readout was a Sony 6500W, followed by a Kenwood R2000 at the Dayton Hamvention in 1985 and then a Sony 2010 at Dayton in 1988. I became interested in radio collecting, purchasing and selling several receivers along with maintaining my interest in SWL.

"During this same period I have obtained one example of almost every transistorized Zenith T-0 model series made in the U.S.A. from the Royal 1000 to the 7000. These sets are an excellent example of American

craftsmanship that is hard to find anymore and are fun to use for SWL or impromptu DX in the backyard. There is that word 'fun' again!

"I have enjoyed AM MW DX using a Motorola portable with the swivel handle antenna. I also have an old Brewster table radio with AM-SW and a built-in loop antenna which really pulls in the AM and some of the major SW stations. AM DX with old radios is fun... try it, you may like it.

"My current main-line SWL-DX setup consists of a Sony 6800W, orange version, and a Sony CRF-1. Both of these were purchased used and in mint condition. These sets are portable and offer full performance from the whip antenna. I miss the bells and whistles of the 2010 and the R-2000, but the dynamic range and DX performance of the CRF-1 is outstanding. The 6800W also lives up to its' billing.

"College expenses will bring radio collecting to a halt, but I intend to always stay tuned to the shortwaves. I can thank Bill Taylor's vintage Vignettes articles in NASWA in years past for helping to stimulate my interest in older radios. Thanks, Bill!

"I hope that some of you reading this article will find some older SW sets at a Hamfest or elsewhere, or by attending your local antique radio club swapmeet. Remember that SWL or DX can be fun and enjoyable whatever your approach.

"I can be contacted in Indianapolis, IN at 317-253-5686. Leave a message and I will return your call"

Thanks to Luther E. Hall for the most interesting perspective on our hobby. Hopefully, after college, Luther will be able to resume the collecting of radios which he enjoys so much.

I hope you all are enjoying the fine summer weather while you keep tabs on the possible emergence of some new radio countries. Though I have mothballed my main rigs till remodeling is complete, I have an ear tuned to SW while I work, thanks to a newly acquired Sony 2010 which I find effective and handy to use most anywhere. Again, won't you send in YOUR story, along with a photo??? Till next time...73



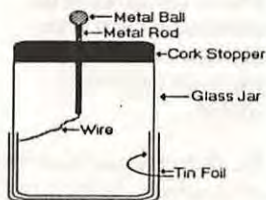
The Capacity to Learn (or: learning about capacity)

Where can you get choked and lose your capacity? No where else but in the world of inductance and capacitance.

All kidding aside, the concepts of capacitance and inductance are absolutely crucial to the operation of electronics - particularly radio frequency electronics. Over the next few months we will explore and build basic yet helpful circuits that you can use directly to enhance your shortwave listening. While we do this, we will explore how these circuits actually operate. And to do this we will need to first cover some basics. For this month we won't be building anything, but look at the end of this column for a list of parts you should obtain before next month. If you can't obtain these parts, don't worry. You can still follow along. But doing always adds to the learning experience, so I encourage you to build the things presented here for yourself.

CAPACITANCE

Early in the days of electrical experimentation, it was observed that some materials could actually store a charge. The first of these devices were known as Leyden Jars (see figure below).



Leyden Jar

The Leyden Jar was simplicity itself. A glass jar with a cork lid was fitted with two layers of tin foil - one inside and the other outside. The inside layer was connected with a fine wire to a metal rod, topped with a metal ball. The outer layer of foil was similarly connected to the circuit with a fine wire. Believe it or not, the Leyden Jar was a direct descendant of today's miniature capacitors!

HOW DID IT WORK?

The Leyden Jar had all the elements needed for a capacitor: two metal or conductive plates (the tin foil), a dielectric between the plates (an insulator - the glass walls of the jar), and a method of putting charge on and taking it off of the plates (the fine wires). Let's use the actual schematic figure for a simple capacitor for our analysis:



Schematic Symbol for a Capacitor

In our capacitor we can clearly see the two plates (the shaded areas) and the two wires that connect to them. What is not shown in the schematic symbol is the dielectric. It is taken for granted in the modern symbol.

The dielectric can be almost any insulator. In the early days it was mica, glass, phenolic, or oil. Today in addition to those materials the dielectric might be mylar, ceramic, or polymer. The purpose of the dielectric is to insulate the two plates from each other. Note that one plate is shown with a positive (+) charge, and the other is shown with a negative (-) charge. These charges were applied externally, and the capacitor is "charged." If the capacitor was discharged there would be an equal number of positive and negative charges on each plate. If the two plates were not insulated by the dielectric the charges would link up and neutralize each other. The capacitor wouldn't be able to store anything.

The early Leyden Jars were used to store static electricity - the kind of electricity you get when you rub your feet on a carpet and then shock the family cat. But these devices, thanks to the efforts of people like Nikola Tesla, were refined and reduced in size

for use in true electrical circuits. By the time radio was in its infancy the Leyden Jar had become something as small as a sugar cube.

MICROFARADS?

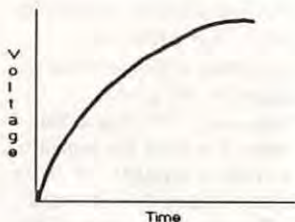
As with any other electronic component, it became necessary to specify the value of capacitors. Since the main function of a capacitor is to store a charge, it seemed logical to specify a capacitor's ability to store a charge. But this ability is influenced by several things: the surface area of the plates, the distance between them (or thickness of the dielectric), and the type of dielectric. A formula taking all these things into account was derived, and it was discovered that there are three ways to increase the capacitance of a capacitor: make the surface area of the plates larger, bring the plates closer together (or make the dielectric thinner), or use a dielectric material with a higher value. These things may not seem important now, but they will later.

Using the above formula, the capacitance value for any capacitor can be calculated. Fortunately, this value is always specified when the capacitor is manufactured. The unit of capacitance is the Farad. Since a capacitor with a value of 1 Farad is about the size of a living room, smaller values are usually encountered - microfarads ("mfd" - one millionth of a farad) or even picofarads ("pf" - one millionth of a millionth of a farad) values are often used.

In addition to capacitance, the working voltage of a capacitor must be specified. This is the highest constant voltage the capacitor can stand. If you exceed this value, the charge on each plate will be enough to puncture the dielectric and travel to the other plate. This will ruin the capacitor, and in the case of large capacitors can cause a small explosion.

NO CHARGE, MAC...

A capacitor does not charge instantly. In fact, it actually resists any change in its charge. The charging curve for a capacitor is shown below:



Charge Curve of a Capacitor

The charge curve for this capacitor is known as an exponential curve. It is not a straight line, but rather it starts off quickly, then slows to almost no change when the full charge is reached. How fast does this happen? It depends on one more factor - resistance.

There is always some resistance in a circuit - even in a capacitor. Resistance is the opposition to both voltage and current that a device offers. To determine how much time a capacitor will take to charge we start with the following formula:

$$t = R C$$

R is the value of resistance in ohms, and C is the value of capacitance in Farads (if you know the capacitor's value in micro or picofarads you must convert to Farads before using the formula). T is not the time it takes to charge the capacitor. It is the "time constant," and is the time it takes the capacitor to charge to 63% of capacity. The average capacitor takes 5 time constants to fully charge, so multiply the value T by 5 and you have the time in seconds it will take the capacitor to charge. How about an example?

Let's assume we have a 10 mfd capacitor with 1,000 ohms of resistance in the circuit. First, 10 mfd = 0.00001 Farads. So our time constant $T = 1,000 \times 0.00001$, or about 0.01 seconds. Multiply this by 5 and we get 0.05 seconds. So in 5/100ths of a second our capacitor will be fully charged.

And now for a neat shortcut: if we discharge a capacitor through a resistance, the same formula for charging that we just learned will apply for the discharge time! In our above example it will take the capacitor 0.05 seconds to discharge across a 1,000 ohm resistor!

A REACTIONARY...

There is one final point we must cover, and I've left it out until now. Up until now we have shown the capacitor in DC, or direct current circuits. The main value of a

capacitor, however, is in AC, or alternating current circuits. Remember, radio frequencies are AC signals, not DC. DC has no frequency, because it never changes direction. The frequency of AC is determined by how many times it reverses polarity and then returns each second. If an AC signal reverses polarity and then returns 60 times each second its frequency is 60 cycles per second, or, as we say today, 60 hz (Herz). This just happens to be the frequency of our household 115 volt electricity.

Why all the fuss about frequency and capacitors? Simple (sort of...). Capacitors always behave the same way in a DC circuit. But in an AC circuit their effects change as the frequency of the voltage in the circuit changes. "What!" you exclaim. Let me elaborate: at low frequencies a capacitor may appear to block signals, storing them in much the same way as we have just studied. But at higher frequencies signals might appear to go right through a capacitor as though it were a short circuit! Note that the current itself does not flow through the capacitor - the dielectric stops it from doing so. But the signals set up an electrical field between the plates, and this field allows the signals to jump the plates.

This ability - the ability to selectively pass or block signals of different frequency can be quite useful. Capacitors can be used to block DC from flowing -

keeping it out of an amplifier for instance, or they can be used to allow AC to flow to ground - removing it from the output of a DC power supply.

How is this new factor quantified? It is called "Capacitive Reactance." Think of capacitive reactance as AC resistance that depends on frequency. A resistor has the same ability to stop current flow no matter what frequency is passing through it. But a capacitor's ability to block a signal depends on the frequency of the signal. The formula for capacitive reactance is shown below:

$$X_c = 1 / 2 \pi f C$$

Don't let this one intimidate you. " X_c " is that all-important ability to resist signals at the given frequency. The higher this value, the more the capacitor will block a signal. " f " is the signal frequency in hz, and " C " is the capacitance of the capacitor in Farads (don't forget to convert).

Let's see an example: assume that we have a 100 mfd capacitor (that's 0.0001 Farads) and we are using it in a circuit with a 60 hz signal. Using the above formula we calculate that the value is 26.5 ohms. Yes, I'm sorry, but capacitive reactance is specified in ohms just like resistance. You must be careful! For next month why don't you do the same calculation, but for a frequency of 1000 hz?

- 73's Ted

Company Store

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



EXTRA, EXTRA! READ ALL ABOUT IT AUGUST 1966 FRENDX

Twenty-five years ago, an all wave hobby club set the world on its ear by becoming the first all shortwave broadcast club. Armed with a loyal, dedicated membership and editorial staff, Bill Eddings and company sent NASA on a path making shortwave history as the first devoted exclusively to SWBC. Congratulations NASWA!

To commemorate this historic event, the Company Store is offering a reproduction of the August 1966 issue of "Frendx - the Journal for SWBCers." This first all shortwave edition is copied from an original Frendx bulletin. Due to the aging of the original, the copy will be a little uneven in spots. However, the full flavor of what the club looked like when making the big switch is there. Read Bill Eddings announcement about the change. Take a look at Don Jensen's "Shortwave Broadcast Center" which featured a DX Atlas on Radio Cordac in Burundi. Also, read about Radio Euzkadi in the Clandestine Corner. Don't miss the "Loudenboomer Report" where Charlie announces the International Worldwide Continental DX Association's anti-foreign languages campaign. Check out the "QSL Scoreboard" totals which features prominent DXers such as Bill Sparks, Gregg Calkin, Dan Henderson, Marlin Field, Victor Jaar, Del Hirst, Jim Howard, Cesar Objio, George Zeller, and Charlie Loudenboomer! The fourteen page "Loggings Reports" was the last to be edited by Ron Luyster. Read what Richard Wood, Gerry Dexter, August Balbi and 27 other contributors were hearing two and a half decades ago. This 40 page look back at this historic event is available through the Company Store for US\$6.00 in North America and US\$8.00 worldwide. This is a limited time offer, so please hurry. Enjoy a slice of shortwave history!

SPECIAL 25TH ANNIVERSARY MUG

Designed by John Herkimer, NASWA's special 25th anniversary edition mug is now available for only US\$8.00 in the USA; US\$9.00 to Canada; US\$12.00 to Europe and US\$18.00 to Australia. This 11 ounce beauty commemorates the club's 25 years of exclusive coverage of the shortwave bands. It features an original design developed by Herk with a NASWA Royal Blue emblem over an Ivory background. A sizable quantity is due to arrive at the Company Store any day now; order your 25th anniversary mug while supplies last.

HELP WANTED: REPRINT SERVICE DISTRIBUTION MANAGER

Due to a significant increase in business travel, Dave Turnick has found it impossible to continue as the Company Store's Reprint Service Distribution Manager. While it's been fun, the backlog of orders and the pressures of business commitments force Dave to reluctantly step down. In the interim, arrangements are being made to catch up with your orders. Please be patient.

At this time we have a position open that needs to be filled. It's an excellent opportunity to increase the number of pieces of mail that arrives in your mailbox. The position of Reprint Service Distribution Manager requires only a couple of hours a week of copying and mailing orders of reprints from the Company Store catalog. It's a terrific opportunity to serve the greatest hobby membership in the world! The standard NASWA benefits package is offered - low pay (none to be exact, hi!), plenty of work and a lot of fun. By becoming a member of the NASWA editorial staff you will receive interesting and often confusing letters from Editor-in-Chief Harold Cones on page allocations and other vital editorial matters. Become a member of the Journal Staff today.

If you have always wanted to assist your club but can't type or don't have an interest in editing, this position is for you. If you are interested in helping your club, contact Bob Brown, Harold Cones or myself as soon as possible.

73 - RAD
Make checks payable to either Richard D'Angelo or The NASWA Company Store

NASWA Awards

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



You people are keeping me very busy. Let's get right into this month's parade of awards.

All American DXer (15 Different Licensed Shortwave Broadcast Stations in the United States, Including Alaska and Hawaii)

David J. Turnick, Sinking Spring, PA
Donald J. Weber, Westlake, OH
William A. Peake, Buffalo Center, IA
Sheryl Paszkiewicz, Manitowoc, WI
Steven R. Lare, Holland, MI
Richard E. Davis, Portales, NM
Guy Connor, Philadelphia, PA
Paul Buer, Miami, FL
Paul Blumstein, Palos Verdes, CA

Asian Continental DXer (30 Different Asian Broadcast Radio Countries)

Thomas V. Ross, Lyons, IL

DXer de Pacifica (10 Different Oceania Broadcast Radio Countries)

Randy Doyle, Winslow, AK

Ecclesiastic DXer (15 Religious Oriented Shortwave Broadcast Radio Stations)

Jack F. Nibecker, Guadalajara, Mexico

European Senior DXer (25 Different European Broadcast Radio Countries)

Anthony Wermuth, Shelburne Falls, MA

DX Centurion (100 Different Shortwave Broadcast Radio Countries)

David J. Turnick, Sinking Spring, PA

International DX Listener (Heard 50-100-150-200 Shortwave Radio Countries)

David J. Turnick, Sinking Spring, PA	100 Country Endorsement
Thomas V. Ross, Lyons, IL	150 Country Endorsement!
David A. Galletly, Albany, NY	100 Country Endorsement
Paul Buer, Miami, FL	200 Country Endorsement!!!

Master European DXer (35 Different European Broadcast Radio Countries)

David J. Turnick, Sinking Spring, PA

Pirate DXer (10 Unlicensed Hobby Pirate Shortwave Broadcast Stations)

David J. Turnick, Sinking Spring, PA
Sheryl Paszkiewicz, Manitowoc, WI
Guy Connor, Philadelphia, PA
John T. Arthur, Belfast, NY

75 Station Endorsement!

Senior Ecclesiastic DXer (25 Religious Oriented Shortwave Broadcast Stations)

Richard E. Hankison, Prairie Village, KS

Senior Radio Moscow DXer (25 Radio Moscow Transmitter Sites)

Paul Buer, Miami, FL

World Wide DXer (50 Different Shortwave Broadcast Radio Countries)

Anthony Wermuth, Shelburne Falls, MA
Paul Buer, Miami, FL

Awards Tidbits

Randy Doyle mentions he needs only two more country veries in Europe, one in South America and two in North America for some more award applications - keep at it! Rich Davis checks in with his 36th NASWA award - not bad, hi! Paul Buer has now upped his total to 38 awards with four this month. It seems the author of last

October's NASWA Awards column thought he had "only" 20 awards at that time. By now Paul Blumstein should be enjoying his new Drake R-8 communications receiver. He placed his order back in February - one of the first five to place an order! I would be very interested in hearing about your results Paul. Rich Hankison reports logging and sending out reports of the Round The Clock Continental DXer award. Will he be the first recipient of that award? I hope Don Weber has stored his WMLK verification in a safe place. Seems that QSL walked away from the rest of his USA QSL collection. Long time NASWAN and pirate A*C*E John Arthur checks in with, what else, a 75 station Pirate Award application. John manages the excellent A*C*E awards program. An SASE to RD#1, Box 15A, Belfast, NY 14711 will get you an information sheet about the program. You do not have to be a member of A*C*E to participate.

ADDENDUM: COUNTRY LIST AND AWARDS PROGRAM BOOKLET

Thanks for the many suggests and comments received over the last few months. They are very helpful and will ensure that certain award categories, and countries (1), don't become lost. Future editions of the Country List and Awards Program booklet will include endorsements and other significant omissions you people have pointed out. Incidentally, Antarctica has been found! It is located after Africa in the country list. Thanks for your help. The following is a comprehensive list of omissions that has been developed thanks to your efforts.

Country List:

Add Australia to the country list under the continent heading OCEANIA.

Awards Program:

Add the Antarctica DXer award (for verification of at least one shortwave broadcast station from Antarctica) under the Individual Country Awards heading. Also, an endorsement sticker is available for verification of the second station from Antarctica.

In addition to those already listed in the Awards Program booklet, endorsement stickers are available for the following awards: All Voice of America DXer (endorsements available for each additional 6 transmitter sites verified), Australian DXer (endorsement available for 10 transmitter sites) and Master British Commonwealth DXer (endorsements available for each additional 10 countries verified).

Pirate DXer: add the word "shortwave" to the definition so it reads, "for verification of at least 10 unlicensed hobby pirate shortwave broadcast stations."

If any member unearths other errors or omissions, please contact me as soon as possible - thanks!

BRITISH COMMONWEALTH AND ARAB WORLD AWARD LISTS

Thanks to the efforts of Hal Butcher in Hyde Park, MA, we have two of the most requested lists available to award program participants. Comprehensive eligibility lists for the British Commonwealth Awards and the Arab World Awards has been developed by Hal for use by the membership in determining eligibility for these awards. These lists are available from me for an SASE (Self Addressed Stamped Envelope) or an SAE plus \$1.00 or two IRC's overseas to the above address. I've already misplaced these lists on three occasions, so send for yours today before I misplace them again, hi! Once again, a big thank you to Hal Butcher for developing these lists.

Each month I receive a number of letters asking for information about the Awards Program. I do my best to respond to each and every inquiry within a short period of time. I only ask that you enclose a SASE. It saves the club some money and it really helps move things along. Thanks to all the members that follow that simple courtesy.

Remember, each award costs only US\$2.00 in North America and US\$3.00 overseas (additional overseas awards applied for at the same time cost only US\$2.00 each). Endorsement stickers are available for US\$0.50. International Reply Coupons (IRC's) at a rate of US\$0.50 are also acceptable.

See you next month.

73 - RAD

NASWA Awards Program: Have you sent in an application lately?

the **QRPV** page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

JERRY BERG, Chairperson • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481

VERIFICATION CARD

DATE: 2/1/47

TIME (G. M. T.): 9:15 P.M.

STATION: LEOPOLVILLE, WEST AFRICA

FREQUENCY: 9.781 Mc

PROGRAM: Belgian Relay of 38: Ford, American Service, Medical Clinic, etc.

FOR THE BRITISH BROADCASTING CORPORATION
410 FIFTH AVENUE
NEW YORK 20, N. Y.

BBC

LLH:BP



The Belgian Congo--the name conjures up thoughts of great SW. +++ The card at the bottom is from Belgian Broadcasting Services at 247 Park Avenue, New York. It verified reception of the BBS in Leopoldville (now Kinshasa, Zaïre), during the Belgian occupation, when all Belgian SW originated from the Congo. +++ The OTC card dates from 1947. OTC was widely heard and was very friendly to DXers. +++ Info on pre-war SW from the Congo is pretty sketchy, but I believe Radio Belgisch Kongo was the main domestic station. This QSL lists 15175, 11730, 9555 and 6010 kHz. +++ And what's this? A real veri from the BBC, and for a broadcast from Leopoldville? For a time in the mid-40's, the BBC New York office was very friendly to SWL's and DX clubs and was issuing its own full-data QSL (these were not prepared cards). OTC relayed the BBC to North America.

RADIODIFFUSION NATIONALE BELGE

BELGIAN NATIONAL BROADCASTING SERVICE
RADIODIFFUSION NATIONALE BELGA
RADIODIFUSAO NACIONAL BELGA

LEOPOLVILLE
CONGO BELGE

O.T.C.

B. B. S.

The B. B. S. New York office of the Belgian National Broadcasting Service, at the present time in London, gratefully acknowledges your reports on the recent use programs of its Leopoldville station in the Belgian Congo, Africa.

We hope that many more our voice in heard again, not only from England, the United States, and the Belgian Congo, but also from our thousands members of Belgium.

We thank you again for your courtesy which has been most helpful and is indeed very much appreciated.


The BELGIAN BROADCASTING SERVICES is now operating from London, New York and Leopoldville. In Leopoldville (Belgian Congo, Africa) it has its own short wave stations with a power of fifty kilowatts. The broadcasts from Leopoldville to the Americas are on 11460 Kilocycles, or 2375 meters. 4-28-47

A Committee of the Association of North American Radio Clubs

the **CPRV** page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

JERRY BERG, Chairperson • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481



FORCES BROADCASTING SERVICE
 To P. Kany Gey.
 many thanks for your reception report dated 26th Sept 1944.
 of Station J.C.I.C. on 7220 & 4920 Mcs.
 This agrees with our log.

FURTHER REPORTS OF CHANGES
 IN RECEPTION WILL BE APPRECIATED

R.T. Campbell Jr.
 JR. DIRECTOR FOREIGN BROADCASTING, U.S.

U.S. AIR FORCE, WASH. D.C.

Most of us know the British Forces Broadcasting Service only through the recent Gulf broadcasts. But the history of BFBS would take you to many very interesting places. The 1944 card at the top is from the early FBS HQ station, JCJC, in Cairo, Egypt. The middle card is from the East Africa Command station in Nairobi, Kenya which broadcast on 7265 kHz. with 250 watts. And at the bottom is the generic card used by the various FBS Middle East Land Forces stations in the 50's, this one verifying reception of FBS Benghazi. +++ Ever wonder what the foreign postage rates were in, say, 1934? Read below and weep. +++ Remember that the CPRV is always looking for QSL's in need of a new home. We also offer stickers to place on your albums, reflecting the wish that your QSL's be donated to the CPRV when the time comes. A business size SASE will get you full details. Till next time --



FORCES BROADCASTING SERVICE
EAST AFRICA COMMAND

Thank you for your letter and reception reports on our S.W. transmission. Your report on the Arabic transmission has been passed to the proper authorities.

Foreign Postage Rates

Letters to the following countries, 3c each ounce or fraction: Andorra, Argentina, Balearic Island, Bolivia, Brazil, Canada, Canary Island, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras, Labrador, Mexico, Newfoundland, Nicaragua, Panama, Paraguay, Peru, Salvador, Spain (including Albuernas Island, Ceuta, Chafarinas or Zafarani Islands, Melilla, Penon de Velez de la Gomera, and Tangier), Uruguay, Venezuela. For all other foreign destinations, 5c first ounce and 3c each additional ounce. Registration fee for all foreign destinations, 15c in addition to postage. When a return receipt is requested at the time of mailing there is an additional charge of 5c.

FORCES BROADCASTING SERVICE
 MIDDLE EAST
 No. 5 FBS BENGHAZI

TRANSMITTER TYPE 6T475D AERIAL FOUR DIPOLE
R.C.A. 4920 Mcs
DIPOLE WITH
E-W. REFLECTOR

RADIATED POWER 7500 WATTS

Thank you for your report concerning our transmissions on 41 and 60 meters
7220 k.c. covering the period May 1955 hrs to 1955 hrs
4920 The contents of your report have been checked with our Station Log for that day and found correct. May we take this opportunity of wishing you good luck and happy listening during 1955

TECHNICAL OFFICER
J. L. ...

A Committee of the Association of North American Radio Clubs

Listener's Notebook

Dan Ferguson
P.O. Box 2604
Dale City, VA 22193
CompuServe 76702,771

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

Of particular interest this time is the item on *Radio Georgia*, listed under USSR. (df)

AFGHANISTAN - *R. Afghanistan* external service in EE is 0930-1030 on 17655 NF and 21600 NF ex 17720 and 21750. Also announced but not heard are 15255, 9635, 4940. Surilani had reason to believe that 15255 was off the air in May. (Asapraseed Surilani, Sri Lanka, 5/16, via Bruce MacGibbon on RJDXC 6/23 via Mike Fern)

ALGERIA - *RTV Algerienne* has started a new 100% religious service, *R. Koran*, on mw and long wave. Readings from the Koran are scheduled from 0800-1000 and 1300-1500 on 1422 kHz. A third program was to begin 7/19, 0300-0500 on 254 kHz. with 1.5 megawatts [which will send goosebumps up the backs of listeners to Eire's *R. Atlantic 252*]. *R. Algeria* hopes to add other kinds of rel pgms and eventually offer a 24H service. It is *not* a response to the growth of an Islamic fundamentalist party in Algeria. A major reorientation of RTV Algerienne has been in the pipeline since late 1991. The starting date for *R. Koran* coincides with the Islamic New Year. (Abdel-Kader Ulmi, RTV Algerienne, and Eric Beauchemin on RNMN 7/18 via Mike Fern)

ARGENTINA - *RAE*, Buenos Aires, 15345 kHz., has French before 2200, Japanese after. (AC on RNZI 6/27 via Mike Fern)

R. Belgrano, Buenos Aires, nationalized after Peron fell, has been sold to private owners; new slogan is "Voces en Libertad" (Voices in Liberty). Shortwave on 11781 kHz continues 1400-2000 with relay of LR3 on 950 kHz. (Gabriel Ivan Barrera, Onda Corta, on DXPL 6/29 via Mike Fern)

R. Nacional, Buenos Aires, 15345 kHz., heard *0000-0300* Sat. 7/13 with championship futbol match between Argentina and Paraguay. The play-by-play announcer should have been a tobacco auctioneer. References to RAE in slow spots during the game. Fair signals at start, weak at end. (Mike Fern-CA)

AUSTRALIA - The Hawke gov't was threatening to cut the ABC budget by \$20 million. ABC Managing Director said would not affect programming, but staffing levels may drop from 6000 to as low as 5400 employees. (RNMN 6/20 via WBI 6/28)

VNG, the Australian standard time and frequency station, was to make major frequency changes on 7/3. 10 MHz will close down. 5000 kHz will operate 24H with voice ID. Two new frequencies, 8638 and 12984 kHz, will operate 24 hours in a radiotelegraph time service, with Morse ID. 16000 kHz will operate from 2200-0500 with voice ID. The 8 and 12 MHz frequencies were loaned by the Royal Australian Navy. (AC on RNZI 6/27 via Mike Fern)

R. Australia's Sporting Service on Saturday and Sunday on 15240 kHz around 0300 has been heard with plenty of commercials. (AC on RNMN 7/11 via MF)

BAHRAIN - A relay of *R. Bahrain's* home service in EE was found on 6010 kHz at 2000 7/15 by Henrik Klemetz. News headlines at 2100 preceded s/off at 2103. A 60 kw transmitter at Abu Hayan is registered with the IFRB for service from 0300-2100. Henrik phoned *R. Bahrain's* call-in line, Bahrain 780780, and spoke with staffer Ian Fisher, who did not know of the sw transmission; the station is probably testing. (Andy Sennitt and JM on RNMN 7/18 via Mike Fern)

BANGLADESH - *R. Bangladesh* External Service in EE, 1215-1300 on 15205 with good sigs. (Asapraseed Surilani, Sri Lanka, 5/16, via Bruce MacGibbon on RJDXC 6/23 via Mike Fern)

The hurricane which hit Bangladesh in May has affected External Service broadcasts. Frequency and schedule announcements have not changed. Monitoring reveals only one transmitter in use for the External Service language block. 15200 and 17750 kHz are announced

for Southeast Asia at 1230 but only new 15208 has been heard between 6/3 and 6/25. (Victor Goonetilleke on RNMN 6/27 via Mike Fern)

BELGIUM - *BRTN*, Brussels, has shifted its English program at 2330 to 13710 NF and 13655 kHz. 13710 replaces 13720. (Robert Thomas, Bridgeport, CT, on RJDXC 7/13 via Mike Fern)

BHUTAN - *Bhutan B/C Svc*, Thimphu, is now operating Mon-Sat 1100-1500 on 5025 kHz and Sun 0500-1000 on 6035 kHz. EE is at 1415-1500 Mon-Sat on 5025 and 0900-1000 Sun on 6035. (Kanwarjit Sandhu, India, and William Flynn, Oregon, on RJDXC 6/23 via Mike Fern)

BRAZIL - *R. Relogio Federal*, Rio de Janeiro, 4905 kHz, heard in Czechoslovakia at 0408 in Portuguese. (Lubomir Stayskal, Czech DX Club, on DXPL 6/23 via Mike Fern) [WRTH 91 says 0730-0330--mf] <<several more, but they are regulars in either Loggings or Notebook--mf>>

A strong Brazilian on 5980 kHz has been causing splatter to the VOA on 5985 kHz between 0900-1000. (AC on RNZI 6/27 via Mike Fern) [AC didn't identify it; probably *R. Guaraja*, Florianopolis; WRTH says 0800-0300--mf]

R. Universo, Curitiba, 9565 kHz., weak to fair 0750-0850 7/10; evangelical pgms, man preaching in hall camp meeting style, biigi crowd rooting as in college basketball, preacher sang, crowd clapped with him; ID at 0850, freq list 11905-9565-6060, Curitiba Parana; WRTH 91 says 9565 0900-2230 but 6060 24H. (Mike Fern--CA)

If you can't write reports in PP, one way to get a QSL from Brazil involves *Rdif. Londrina* on 4815 kHz at 0200; two religious programs, EE and SS, are scheduled between 0200-0230. The station is asking for reports to Caixa Postal 1847, 86101 Londrina, Parana, Brazil (Henrik Klemetz and Andy Sennitt on RNMN 7/18 via Mike Fern)

Radio Bras, Brasilia, has an EE program for NA at 1200 UTC on 11745 kHz. *R. Bras* also broadcasts to Europe on 15265 in EE at 1800. (Andy Sennitt, RNMN 7/18, via Mike Fern)

CANADA - *CHNX*, Halifax, 6130 kHz, heard in NZ around 0855 (Paul Ormandy on NZ Dxpdition via AC on RNZI 6/27 via Mike Fern)

CHINA - The 7516 kHz relay of *Beijing CPBS2* has returned to the air in June. (Bruce MacGibbon on RJDXC 6/23 via Mike Fern)

CPBS First Program: 0000-1000 on 17605, 15550, 15390, 12120, 11330, 9290, 7504, 6840 kHz. 1000-1300 on 17605, 15550, 15390, 12120, 11330, 9800, 9290, 7504, 6840, 6750, 6125, 5880 Khz. 1300-1410 on 17605, 15390, 12120 (to 1330) 11330, 9800, 9290, 7935, 7504; 6840, 6750, 6125, 5880, 5320, 3220 kHz. 1410-1635 on 15390, 11330, 9800, 9290, 7935, 7504, 6840, 6750, 6125, 5880, 5320, 4460. 1858-2120 on 11330, 9290, 9080, 7935, 7504, 6840, 6750, 6125, 5955, 5915, 5880, 5320, 4460. 2120-2230 on 15390, 12120, 11330, 9290, 9080, 7935, 7504, 6840, 6750, 6125, 5955, 5915, 5880, 5320, 4460. 2230-2400 on 17605, 15550, 15390, 12120, 11330, 9290, 9080, 7504, 6840, 6750, 6125, 5955, 5915. (WBI 6/28)

CPBS Second Program: 0000-0500 on 17700, 15500, 11040, 9775, 9755, 4800; 0500-0855

on 17700, 15500, 11040; 0855-1000 on 17700, 15500, 11040, 9775, 9755; 1000-1030 17700, 15500, 11630, 11040, 9775, 9755; 1030-1200 on 17700, 15500, 11630, 10260, 9755, 6890; 1200-1230 on 17700, 15500, 11630, 10260, 9775, 9755, 6890, 4800; 1230-1330 on 17700, 15500, 11630, 9775, 9755, 6890, 4800; 1330-1500 on 15500, 11740, 11630, 9775, 9755, 7770, 6890, 4800; 1958-2130 on 11740, 11630, 10260, 7770, 6890, 5163; 2130-2240 on 11740, 11630, 10260, 9775, 7770, 6890, 5163; 2240-2300 on 15500, 11740, 11630, 11040, 10260, 9775, 9755, 4800; 2300-2400 on 17700, 15500, 11040, 9775, 9755, 4800 kHz. (WBI 6/28)

CPBS Taiwan Service First Program: 0053-0608 on 15710, 11925, 11100; 0953-1315 on 15710, 11925, 11100, 9455; 1315-0004 on 11925, 11100, 9455, 9380. *Second Program: 0353-0955* on 15880, 11000; 0955-1300 on 15880, 11000, 6095; 1300-1804 on 11000, 9170, 6095; 2053-0104 on 15880, 11000. (WBI 7/5)

CPBS Minority Language Programs: 0000-0026 Kazakh on 15670, 11375, 5440 (U), 4970 (U), 4330 (U); 0330-0356 Korean on 9920, 9775, 8566; 0400-0426 Mongolian on 9920, 9775, 8566, 6974 (H), 4800, 4525 (H), 1548 (H); 0430-0456 Tibetan on 15670, 11630, 11375; 0500-0526 Uighur on 15670, 11375, 10260; 0530-0556 Kazakh 15670, 11375, 10260; 0900-0926 Korean on 9920, 9775, 8566, 1206 (Y); 0930-0956 Tibetan on 15670, 11630, 11375, 7110 (L), 5995 (L), 4085 (L); 1000-1026 Uighur on 15670, 11375, 10260; 1030-1056 Kazakh on 15670, 11375, 10260, 5440 (U), 4970 (U), 4330 (U); 1100-1126 Korean on 9775, 5420, 4190; 1130-1156 Mongolian on 9775, 6974 (H), 5420, 4800, 4525 (H), 4190, 1458 (H); 1200-1226 Tibetan on 11630, 11375, 8566, 7110 (L), 5995 (L), 4085 (L); 1230-1256 Uighur on 11375, 10260, 8566, 5800 (U), 4735 (U), 3990 (U); 1300-1326 Kazakh on 11375, 10260, 8566, 5440 (U), 4970 (U), 4330 (U); 1330-1356 Mongolian on 15670, 11375, 10260, 5060 (U), 4980 (U), 4220 (U); 2030-2056 Korean on 9775, 5420, 4190, 1206 (Y); 2100-2126 Mongolian on 9775, 5420, 4800, 4750 (Ha), 4190, 1431 (Ha); 2300-2326 Tibetan on 15670, 11630, 11375, 7110 (L), 5995 (L), 4085

(L); 2330-2356 15670, 11375, 10260, 5800 (U), 4735 (U). [U=Urumqi, H=Hohhot, L=Lhasa, Y=Yanji, Ha=Hailar] (WBI 6/28)

Voice of the Strait First Program: in Standard Chinese at 0853-1000 on 11590, 7280, 6170, 6115; 1000-1200 on 11590, 7280, 6170, 6115, 5510, 4130, 2755; 1200-1721 on 7280, 6170, 6115, 5510, 4840, 4130, 2755; 2053-2200 on 6170, 6115, 4840, 4130, 2755; 2200-0010 on 6170, 6115, 4840. *Second Program*: in Standard Chinese at 1255-1650 on 9505, 6000; 2155-0100 on 6000, 4900; 0100-0600 on 9505, 6000 kHz. (WBI 7/5)

Nei Menggu PBS Chinese network, Hohhot, 3970 kHz heard with weak sigs at 1249-1300 7/18. Traditional music; 6974 and 7270, Mongolian network, had poetry or drama. ID does not fall on the hour. (Mike Fern-CA)

R. Beijing in Russian at 1316 7/8 on 5850 // 7820 kHz, both weak to fair (Mike Fern-CA)

The Beijing relay of *Radio Nacional de Espana* changed its schedule 7/1; SS for Asia at 1000-1155 on 9620 kHz, fair in Japan; replacing 1000-1055 and 1200-1255. SS for the Philippines is scheduled 1200-1355 on 11910 kHz; formerly 1100-1155 and 1300-1355. The schedule change was caused by the inauguration of RNE's round-the-clock World Service in SS. (Tetsuo Suzuki on RJDXC 7/13 via Mike Fern)

Radio France Internationale has a service in French for Australia and New Zealand on 15285 kHz at 1030-1125; this is a relay via Beijing. (AC on RNMN 7/11 via MF)

COLOMBIA - *Ecos Celestiales*, new, Medellin, on 5535 kHz from 0945-1200 and 0145-0400; mail address is Apartado Aereo 8447, Medellin. (Rafael Rodriguez, Bogota, in Play-DX on DXPL 6/22 via Mike Fern) Heard in Quito with fair signals at 1118 with religious programming; (Rich McVicar, QLB on DXPL 6/22 via Mike Fern)

COMOROS - *R. Comoros* has reactivated its shortwave transmitter, which had not been heard since 1987. Since 5/18 it has been heard on 7260, opening at 0900, switching to 3330 kHz at 1500. Opening announcements at 0900 in French, Arabic and Kingazidja say it operates on 1089 MW & various VHF/FM frequencies, but make no mention of shortwave. (WBI 7/5)

COSTA RICA - *Adventist World Radio* schedule: EE 1200-1300 on 9725 and 11870; SS 1300-1500; EE 2300-0100, SS 0100-0500. (Salvatore Plaganica, Italy, quoting AWR sked, on DXPL 6/22 via Mike Fern) <<EE different from Journal, 12-13 instead of 12-14-mf>>

TIFC, Faro del Caribe, 5055 kHz poor sigs in Czechoslovakia at 0508 (Lubomir Stayskal, Czech DX Club, on DXPL 6/22 via Mike Fern) Ecuador

Former *R. Impacto* transmitters may resume broadcasting about 7/15 on 5030 and 6150 kHz as *Adventist World Radio* outlets. AWR bought two 20 kw shortwave transmitters and two 100 kw MW transmitters from *R. Impacto*. The 100-kw units were each 2 x 50 kw with a common output network. All six transmitters were made by Elcor of Costa Rica and cost about \$600,000 new. AWR got them for much less. AWR will use cubical-quad antennas; 6150 kHz to South America, 5030 kHz bi-directional for all of Central America. Eventually AWR will have six xmtrs, three 50-kw and two 20-kw. The present 40-kw SW xmtr will be upgraded; the Elcor MW units will be converted to shortwave; the 5-kw xmtr now on 25m will be used as backup. Three TCI log-periodic antennas and switching equipment will be installed in the autumn. Portuguese programs will begin on 6150 kHz. Spanish programs are produced in Costa Rica; English and French in the US; and Dutch programs in Holland. The Portuguese programs will be produced in Brazil. AWR's schedule will be expanded in early 1992. Gregory estimates *R. Impacto's* electric bill at \$10,000 a month during its heyday. (Jeff White and David Gregory, AWR Costa Rica, on RNMN 6/27 via Mike Fern)

R. Casino, Puerto Limon, 5954 kHz, heard in Quito at 1136; anti-cholera spot, chimes, death announcements; good signals at first. (Rich McVicar, QLB on DXPL 6/29 via Mike Fern),

CUBA - Because of the oil shortage many mw stations are no longer operating 24H. *R. Progreso*, Pinar del Rio, on 880 kHz closes at 0400. (AC on RNZI 6/27 via Mike Fern)

Radio Habana Cuba is finally generating real SSB on 5965 kHz from 0300-0600. It doesn't sound too clean, and doesn't have enough carrier to stand alone, like R. Nederland. First observed here about 7/12. (Mike Fern-CA)

ECUADOR - *HCJB* has changed freqs for the 0730 release of Studio Nine in EE for Eu to 11835, 15270 and 17795; DX Party Line at 0740 Sats. (AC on RNZI 7/8 via MF)

EQUATORIAL GUINEA - 6907, apparently the new Spain-Eq. Guinea joint venture, Africa 2000, which is supposed to be on this freq, is the one hrd here on 7-3 from 2115 with concert mx, occasional SP anmts. Rcpn poor and couldn't get ID, but unmistakable Eq. Guinea anthem until 1232*. Anyone have any details on this? Don't know if Bata or Malabo, and whether a new "service," purchase of air time over existing xmtr, completely new "station" or what.

From the stations-that-never-were department: Back in late 1947, planning was said to be under way for a 200 kw. HF SW stn on Fernando Poo (the island) to be built by Compania de Radiodifusion Intercontinental and known as Radio Atlantica. Site was supposed to be Musola, 40 miles west of Santa Isabel (which would have put it in the middle of the ocean; maybe they meant south). Plans were for multi-lingual prgms with beams to Africa, Europe, U.S., S.America. Start up was supposed to be late 1949, first stage to be a 5 kw. xmtr to establish direct circuit with Spain. This apparently never went anywhere, but I wonder if it was these plans that led to the start of local SW from Eq.Guinea? Anyone know when Eq.Guinea started on SW? This from Ken Boord's "International Short-Wave" column, 10/47 and 12/47 Radio News. (Berg.)

After I prepared [this item] I received the new WRTH NL, and there was a short item in it about Africa 2000, mentioning the fact that the stn had been listed in the past couple of WRTHs (which I had completely forgotten). Looked it up and I see it is listed for Malabo, but not many details. (Berg)

ESTONIA - R. Tallinn's weekly EE program at 2030 Mondays has added a second sw frequency, 9560 // 5925 kHz and 1035 kHz mw. (BBCM via Andy Sennitt on RNMN 7/18 via Mike Fern)

ETHIOPIA - The English broadcast from the *Voice of Ethiopia* is from *1500-1600* on 7165 and 9560 kHz. Reception in Sri Lanka is very good on 9560 kHz. (Victor Goonetilleke, RNMN 6/27 via Mike Fern)

Since 5/29 the *Voice of Ethiopia* regional station in Armera on 945 kHz has been observed at 1500-1700 with programs from the EPLF [Eritrean People's Liberation Front] station, the Voice of the Broad Masses of Eritrea. The EPLF station is heard operating on 3940, 7490, 9990, 14340 kHz. Although the shortwave channels close at 1700, the MW remains on till 1800 with its own program. (WBI 6/7)

The External Service is using the slogan "*Voice of Ethiopia*" instead of "*Voice of Revolutionary Ethiopia*." (Peter Bunn in OZ-DX, late May or early June, on DXPL 6/29 via Mike Fern) [WRTH 91 says "Voice of Ethiopia" so the revolution must not have been successful.--mf]

Voice of Ethiopia, Addis Ababa, 7110 kHz, heard at 0320; open carrier to 0329, interval signal, ID by man and three big chimes at 0330, then nx. (Al Quaglieri, Albany, NY, in Fine Tuning on DXPL 6/29 via Mike Fern) [WRTH 91 says 0330-0600, Su 0400-0800--mf]

Of the four pro-EPRDF stations operating before EPRDF took power in Addis Ababa on 5/28, only *Voice of the Tigray Revolution* is still heard. The *Voice of the Ethiopian People for Peace, Democracy and Freedom*, *The Voice of the Broad Oromo Masses*, and the *Radio of the Ethiopian Democratic Officers Revolutionary Movement* have all been unheard since 6/13. BBCMS monitors say they recognize one of the announcers now on the *Voice Ethiopia National Service* in Addis Ababa, as someone who used to broadcast on VEPPDF. VTR now announces that it is broadcasting from Mekele, the capital of the Tigray region. It operates in Tigrigna at 0400-0500 & 1600-1700 daily on 6940 & 7820. It has also been heard on other frequencies in the four frequency ranges traditionally used by the EPRDF radios: 6940-7010, 7460-7485, 7820-7905, and 9310-9345 kHz. (WBI 7/5)

The *Voice of the Broad Masses of Eritrea* announced it now broadcasts from Asmera on 945 mw, 7490, 7020 and 3940 kHz. The station was traced in Tigrigna and Amharic on 7020, 3940 and 7490 kHz. 945 and the former *Voice of the Broad Masses of Eritrea* frequencies, 14338 and 10018 kHz, were not heard. (WBI 7/5)

FRANCE - RFI is looking at buying transmitter time on Hungarian transmitters, while rebuilding its main SW transmitter plant in France. (RNMN 6/20, via WBI 6.28)

GERMANY - DW's successor to the RBI DX Club is carried to North America only on the last Saturday of the month (target area date) (9/1, 9/29 UTC, etc.) during the 0100, 0300 and 0500 transmissions. (William Matthews, RK Shortwave Feedback 7/7 via Mike Fern)

GREECE - The 0340 English transmission of the *Voice of Greece* for WNA is being heard well in New Zealand on 9395, 9425 and 11645 kHz. (AC on RNZI 6/27 via Mike Fern)

Hellenic Radio Macedonia was heard in Japan in mid-June from 1800-2000 on 9425 kHz. Signals were fair, but faded slowly. IDs are rare but the station name is always mentioned at sign-on. Its schedule is: to Europe, 1800-2100 on 9425 kHz and from 0900-1555 on 11585 kHz; to the Middle East, 0900-1555 on 9935 kHz. (Hiroaki Nakada on RJDXC 6/23 via Mike Fern)

GUAM - Reception report requirements for QSLs from KTWR, Guam, are: 30 minutes of program information; frequency accurate within *five* kHz.; time and date in UTC; return postage (stamps from the U.S., IRC's from elsewhere). Program details should be as distinctive as possible on foreign-language broadcasts: identifiable hymn tunes, preaching, Q and A scripts, children singing. The address is: KTWR, Box CC, Agana, Guam, 96910. *Trans World Radio*

is moving its East Asia office (all languages other than Chinese) from Hong Kong to Singapore. Frequency coordination for KTWR, formerly done in Hong Kong, is now handled by George Zensen, chief engineer of KTWR. (Chuck Roswell and Gary Whitmore, KTWR East Asia program and frequency coordinator, on Bonaire Wavelength 7/6 via Mike Fern) [KTWR has a computer-controlled tape system which has been known to skip sign-off announcements.--mf]

GUATEMALA - *TGVC, R. K'ekchi*, 4845 kHz, was off the air for some time because of a leftist guerrilla raid on Las Casas. The troops of the Guatemala National Revolutionary Unity movement threatened to burn the station and nearby buildings, according to a Southern Baptist missionary in Coban, 60 mi sw of Las Casas. The guerrillas burned a power plant or substation on the outskirts of Las Casas, then forced several hundred people to attend a public rally. The rebels controlled the town for about 12 hours. *R. K'ekchi* is intact, and there was no other damage to property in the town. However, the station remains off the air until the power plant is repaired. Because of rebel activity, all church functions in and around Las Casas were re-scheduled during daylight hours. (Commission [a Southern Baptist magazine] on DXPL 7/6 via Mike Fern) [No dates given in the story--mf]

GUYANA - *Guyana B/c Corp.*, Georgetown, 5950, heard by Paul Routenberg 5/29 at 0841 to 0901. ID as "The Voice of Guyana", time check, and Indian music, ads and nx at 0900; left air suddenly at 0901. (Paul Routenberg, Ontario, in Fine Tuning on DXPL 6/29 via Mike Fern)

HONDURAS - *Sani Radio*, observed on unanncd 6299.3 kHz at 1200-1600 & fade in 2045-2400 s/off. Previously operated on 4755. Announcements only give 4755, though it's only heard on 6299.3. Programs in Spanish & Miskito. (WBI 7/12)

HUNGARY - A survey of the new *Radio Budapest* external service sked so far shows: 0000 Hungarian on 11910, 9835, 6025; 0200 English on 11910, 9835, 6110; 1200 German (Su) on 11910, 9835, 7220; 1700 German on 11910, 9835, 7220 or 6110; 1800 Hungarian on 11910, 9835, 6110; 1930 German on 11910, 9835, 6110; 2100 English 11910, 9835, 6110; 2200 Hungarian on 15160/11910, 9835. (WBI 7/12)

Radio Budapest has scheduled two DX shows each week to North America: DX News at *0230* Thu and Sat UTC; DX World at *0230* Fri and Sun. New announcers, a whole new approach on DX News 7/17. Mailbag program with Charlie Carter at 0210 Thu UTC, mostly North American mail; read enormously supportive letters 7/17, which ran over. Spanish, Italian and Turkish did not survive the cuts 7/1. (Mike Fern--CA)

ICELAND *Rikisutvarpid* has an English news bulletin at 0730 Monday - Friday, lasting no longer than 15 minutes, on 3295, 6100 & 9265 kHz. (WBI 6/14)

Rikisutvarpid has an English transmission at 0730 on 9265 kHz. Other transmissions in Icelandic which can be heard in the Pacific are: 1855-1930 on 11402 and 13855 kHz; 1930-2010 and 2300-2335 on 13855 & 15770. (Simon Hamer, Wales, and AC on RNZI 6/27 via Mike Fern)

INDIA - Manosij Guha reports in the DX Post of the Universal DX League that the *AIR Home Service* at *Kohima* has increased its power to 50 kw; on 3268 kHz from 1315-1630 and 4850 kHz from 0025-0215 and 0229-0400; and 1000-1300 on 4850; also from 0630-0941 on 6065 kHz. (William Matthews, RK SW Feedback 6/23, via Mike Fern)

All India Radio heard with EE nx 1233-1236 on 11770 kHz; good to very good in Quito. (Rich McVicar, QLB on DXPL 6/22 via Mike Fern)

INDONESIA - *Radio Republik Indonesia* heard at 1158 6/20 on 9680 kHz with interval signal and ID by man; fair to good sigs in Quito. (Rich McVicar, QLB on DXPL 6/22 via Mike Fern)

RRI Ujung Padang, 9552 kHz, heard with pop music from 0748-0800 sign off; poor signals in Australia. (Peter Bunn, OZ-DX, on DXPL 6/29 via Mike Fern) [WRTH 91 says 0200-0800--mf]

The *Voice of Indonesia* was heard in JJ from 1130-1200 6/13 in Japan on 11784 kHz // 11752 kHz. Signals were fair but the audio quality was not good. The announced freqs are 11790 and 15150 kHz. (Toshishiko Nomura on RJDXC 6/30 via Mike Fern)

IRAN - *V. of Islamic Republic of Iran* at 0511 on 15260 NF in Spanish with news read by a man, ex 15084. Also at 0436 5/15 in Turkish on 15260. Heard in Farsi on 15365 NF from 0438 5/15 // 15084. (Valery Ostroverkh, Karaganda, USSR, via Bruce MacGibbon on RJDXC 6/23 via Mike Fern)

R. Tehran has made midseason changes to its published schedule. A report on Usenet from a listener at the University of Washington says a Turkish xmsn starts at 0330 on 15260 kHz. The listed starting time for Turkish is 0400; 15260 is registered to Tehran but wasn't in their bulletin. (Andy Sennitt on RNMN 7/18 via Mike Fern)

IRAQ Since 5/28 at 2000 the main Iraqi radio domestic service in Arabic has been identifying itself as *The Republic of Iraq Radio from Baghdad* [Arabic: *Idha'at Jumhuriyat al-'Iraq min Baghdad*]. The previous ID had been *The Iraqi Republic Radio in Baghdad* [Arabic: *Idha'at al-Jumhuriyah al-'Iraqiyah fi Baghdad*]. The Kurdish service was observed at 1530 6/3 to be on 6540 instead of 4600, which was again carrying the main AA svc, // 17960, 7350, 3980, 1431, 1377 & 558 kHz. It 1850, 6540 was noted with Persian, the first time the Persian svc has been heard since the Gulf War. Persian also noted on 1197 kHz around 1645, but no ID heard. Both 6540 & 4600 kHz has also been noted with bcsts by the clandestine Voice of the Mojahed.

Iraqi radio's Second Programme noted on 3980 6/1 s/on 0130 announcing 1377, 909 kHz & 95 MHz. Second programme also noted 1200-1305 on 17960 6/1. At 1305 had Iraqi NA & them appeared to be carrying the main program in AA. Second pgm not noted on 3980 or 17960 on 6/2 or 6/3. When audible, both freqs have carried the main AA pgm, // 558, 684, 7350 kHz. (WBI 6/7)

ISRAEL - There will be no cuts in the shortwave service of *Israel Radio* for at least the next two months. The current schedule of programs will remain in effect til 8/31. There had been a proposal to cut all shortwave broadcasts daily between 2300-1300, but IBA decided instead to create a committee to study the impact of Kol Yisrael shortwave broadcasts abroad before taking any definitive action. (Voice of Israel, 6/30, via WBI 7/5)

Kol Israel has published a book on the work of the IBA during the Gulf War. (AC on RNZI 7/8 via MF)

ITALY - *AWR Europe* recently opened two mw outlets in Southern Italy, 1512 kHz in Puglia and 1521 kHz in Sicily. Both have only 250 watts now, but may upgrade to 10 kw if official Italian licenses come through. (Jeff White and David Gregory on RNMN 6/27 via Mike Fern)

JAPAN - *NHK Sapporo*, 6005 kHz, heard from 1218-1230 7/12 with political interview; fair signals; left air abruptly at 1230. PWBR 91 says 0400-1230 irr. Weak QRM from Radio Moscow home service on 6005; only the interval signal was readable. PWBR 91 says Blagoveschensk, 2300-1300. (Mike Fern--CA)

The Japanese Ministry of Posts and Telecommunications has approved a new low-power community broadcast service to operate in Japan's 76-90 Mhz. FM band starting in 1992. Each station will have a service area several hundred meters [sic] to several kilometers in radius. Local news, tourist information, and traffic information will be featured. The Ministry expects 10 to 20 startups next year. (RJDXC 7/13 via Mike Fern)

KUWAIT - *R. Kuwait* is having trouble with its shortwave equipment and is still only on MW and FM. Jawad Abdullah al-Mazidi, chief of the technical division of R. Kuwait, told Yuki Sakagami of Radio Japan's Arabic section that partial SW services will resume within eight months, and complete services as before are expected by June 1993. International telephone service to Kuwait returned to normal in early June. (RJDXC 6/30 via Mike Fern)

LESOTHO - *BBC Lesotho* relay schedule, summer 1991 but undated: 3255 kHz 0300-0330, 0400-0430, 0500-0530, 1615-1645; 1645-1700 not 7 days; 1745-1830, 1900-2200. 6190 kHz, 0300-0330, 0400-0430, 0500-0530, 0630-0815; 0815-0900 not 7 days; 0900-1615, 1615-1645; 1645-1700 not 7 days; 1745-1830, 1900-1945; 1945-2000 not 7 days; 2000-2030. 11940 kHz, 0600-0630, 0700-0730, 0800-0815, 0815-0900 not 7 days; 0900-1615. (Karl Kruger, England, on DXPL 6/23 via Mike Fern) <<This is the same as WRTH Downlink for April--mf>>

LIBERIA - *VOA* hopes to return its Monrovia site to the air, but does not know when. It's difficult even to reach the site. One party which got there found severe looting had occurred. The antennas, towers and feed lines are in fair shape, but the transmitters must be replaced or rebuilt. The reconstructed plant will be smaller. *VOA* is looking at other sites within Africa to build on, and may rent unused time from existing broadcasters. (Bill Whitacre, *VOA*, on RNMN 7/18 via Mike Fern)

LIBYA - *Voice of the Great Homeland*, Tripoli, on 15415 kHz in Arabic between *0000-0430; covered on West Coast by Deutsche Welle and Radio Moscow World Service on 15410; occasional bubble jamming heard on the high side. WRTH 91 says 1745-0430. (Mike Fern--CA)

LITHUANIA - The independent commercial *R. Centrus* began monthly broadcasts in Esperanto (!) at 0600-0700 6/29 and the last Saturday of each month on Radio Vilnius' 9710 kHz channel. A DX program from the Lithuanian DXC will be included. Reports are wanted, to: Box 1792, Vilnius. Listeners *outside* Latin America, from which reports are particularly wanted despite QRM from Bonaire on 9715, are asked to include two IRC's. Other languages may be added later. (Sigidas Zilianis, R. Vilnius, via Julius Herrmanns on RN MN 6/27 via Mike Fern)

The first broadcast from *Radio Centrus* at 0600-0700 6/29 on 9710 kHz was in several languages including EE. No station ID was given. Broadcasts are scheduled at 0600-0700 the last Saturday of each month. (Robert Thomas, Bridgeport, CT, on RJDXC 7/7 via Mike Fern)

R. Vilnius heard recently [undated-mf] announcing English to Europe 2130-2200 on 666, 1557 and 6110 kHz; and 2300-2330 to NA on 11790, 13645, 15180, 15485 kHz. (William Matthews on RK Shortwave Feedback 6/23 via Mike Fern)

LUXEMBOURG - *Radio Luxembourg's* English program schedule is as follows: Mon-Thurs inclusive, 0400-0700, Morning show, currently Bob Stewart; 0700-1200, Music Jam, nonstop music; 1200-1530, Afternoon show, currently Jody Scott from Canada; 1530-1900, Early Evening show, currently Mike Hollis; 1900-2230, Evening, show, currently Sean Tilly; 2230-0200, Late Night show, currently Peter Anthony; 0200-0400 Music Jam, nonstop music. On other days the Evening show is different. On Saturdays and Sundays there is no Afternoon show, and on Sundays even no Morning show. The Music Jam service takes their places. RTL International is very interested in reports on reception quality in the USA and Canada. The addresses are: RTL International, 2808 Luxembourg, Luxembourg; and Radio Luxembourg, 74 Newman St., London W.1, Great Britain. (Jens Falason, Denmark, via the '208 Monster' BBS and Shortwave Echo, quoted by Bruce MacGibbon on RJDXC 6/23 via Mike Fern)

The Luxembourg government has just abolished the monopoly of the CLT (Radio-Tele Luxembourg and other stations). Some language sections of Radio Luxembourg are expected to find new homes at associated stations; English will remain in the Grand Duchy. (JM on RNMN 7/11 via MF)

MALAWI - *Malawi B/c Corp*, Blantyre, on 3380.1 kHz, heard at 0258 signing on with percussion, cock crowing, spoken ID. Signal ruined by apparent jamming which began at 0300. Who would be jamming Malawi? (Al Quaglieri, Albany, NY, in Fine Tuning on DXPL 6/29 via Mike Fern) [It's not a jammer, although I thought so the first time I heard it. It's the USB half of a North American independent sideband xmtr, probably military, in use most week nights. A well-equipped utility DXer could have fun with this one.--mf]

MEXICO - *XEUW*, Veracruz, 6020 kHz heard in Astralia at 1200 with time check, and iD as "equis e oo" (XEU, the MW call) on the hour, and commercials. Signals were quite good after Radio Netherlands left the frequency. (Peter Bunn, OZ-DX on DXPL 6/29 via Mike Fern) [WRTH 91 says 250 watts, 1130-0600--mf]

R. Mil, Mexico City, heard 0552-0603 Thurs 7/18. Rock music, news headlines at 0558, national anthem at 0600, "banda internacional de 49 metros", left air at 0603. Weak to fair signals, strong powerline noise. (Mike Fern--CA) 6010 kHz or thereabouts? (df)

NAMIBIA - The English and National Services of the *Namibian Broadcasting Corp* will be combined into a "new look" 24 hour national service on FM, MW, and SW. (WBI 7/5, quoting *Times of Namibia*, 6/24)

NETHERLANDS - A major shock for domestic broadcasting: the members' council of the Veronica [independent, pop and rock] broadcasting organization voted to get together with a second group, TROS [Televisie Radio Omroep Stichting, also independent] and talk to the Minister of Culture about converting the most popular Dutch TV network into a purely commercial channel. Combining the two organizations would mean job losses, but Veronica's audience research says that the combined effort would be commercially viable. If they don't do it, Radio Luxembourg is ready to start RTL-5, another Dutch TV channel, alongside the already profitable RTL-4. If RTL-5 goes ahead, there will not be enough commercial income in the Netherlands to sustain the public-service broadcasters who are left behind. The question also seems to be whether the continuing huge losses in revenue by the public sector will affect Holland's external radio service; that's us. (JM on RNMN 6/27 via Mike Fern) [The two stories about the financial threat to Radio Nederland have led off the Media Network programs on which they appeared--mf]

Media Network is planning a phone-in for its tenth anniversary broadcast. Listeners are asked to send ideas for topics to "Media Network Phone-In", Box 222, 1200 JG Hilversum, with their home and work phone numbers, BBC style. No date given. (JM on RNMN 7/11 via MF)

Media Network can and often does change program material on Thursdays to handle late breaking news. (JM on RNMN 7/11 via MF) An interview with Marcel Roberts, observing the eclipse at Cancun, Mexico was worked into the 7/11 evening broadcasts.--mf

R. *Nederland* has published edition 13 of its free Book List on radio topics. Write: Book List, English Section, Radio Nederland, Box 222, 1200 JG Hilversum. (RNMN 7/18 via Mike Fern--CA)

R. *Nederland* will launch a newsletter for English-language listeners in March 1992, following a trail blazed by RN's Indonesian and Spanish services. More details on RN's programs

and the people behind them. Write now to the address above. RN will throw in a copy of its fall schedule; several changes in the program lineup are cooking. (RNMN 7/18 via Mike Fern--CA)

Radio Nederland changes for NA and South Pacific: 0330-0425 to NA in Du on 9895 ex 9855; 0830-0925 on 21750 kHz NF ex 21480; 1030-1125 in EE to Australia, 11890 NF ex 11895. (AC on RNZI 7/8 via MF)

NEW ZEALAND - *R. New Zealand* signed on 13785 kHz early at 1800 6/29, 7/6 and 7/14 to carry soccer matches from Argentina which started at 1830. 13785 will be replaced by 15120 kHz on September 1. RNZI has seven new QSL cards which went into use 6/23. (Tony King, RNZI Mailbox 6/27, via Mike Fern)

R. New Zealand wants taped excerpts from school classes on the subject of using shortwave radio as an educational resource. Suitable tapes will be used in RNZI Mailbox. Schools or classes are invited to send a cassette recording of no more than four minutes on how a shortwave radio is used in class studies. RNZI is also making its free catalog of recorded (domestic?) radio programs about New Zealand ("Radio Replays") available to schools. Write to: Mailbox, RNZI, P.O. Box 2092, Wellington, NZ. (Tom King, RNZI Mailbox 7/7, via Mike Fern)

Radio New Zealand International is accepting ads on sw to help with finances. Air New Zealand is sponsoring the program Travel Pacific, heard at 0430 alternate Mondays on 17770 kHz. 1ZB Wellington and 2ZB Auckland carry a sporting service on Sat & Sun which is also carried by RNZI and includes plenty of commercial announcements. (AC on RNMN 7/11 via MF)

RNZI aired a series of 12 pilot phms in JJ at 1100-1200 Sa/Su 8/31 to 11/17. 10 minutes of nx, then features. Reports & comments wanted from Japan. (Tony King via Japanese BCL Federation on RJDXC 7/21, via Mike Fern)

NIGERIA - *Radio Nigeria Lagos Channel 1*: 0430-1000 on 4990, 3326; 1000-1700 on 7285, 4990; 1700-2305 on 4990, 3326. (WBI 7/5)

NORTHERN MARIANAS - Starting 7/15, *KHBI* replaced 9475 kHz with 9425 kHz NF to Australia from 1200-1400. Changes announced on Letterbox 7/15 and before. (Mike Fern--CA)

KHBI was heard in Japan in early July on new frequencies as follows: *0900-1200 on 13625 and 17555 kHz; 1200-1400 on 9475 and 13625 kHz; 1400-1600 on 9530 and 13625 kHz. (Yoshiaki Hayashi on RJDXC 7/13 via Mike Fern)

OMAN - *R. Oman* in Arabic on 15375 NF from 0652-0704 4/27 in Arabic // 17770. (Valery Ostroverkh, Karaganda, USSR, via Bruce MacGibbon on RJDXC 6/23 via Mike Fern)

PERU - *R. Atlantida*, Iquitos, heard in Czechoslovakia with fair signals at 0003 (Lubomir Stayskal, Czech DX Club, on DXPL 6/23 via Mike Fern)

Estacion Moyobamba, Moyobamba, 6324 kHz, heard at 1203 UTC; mention of "La Ciudad de Moyobamba", time check, community events. Quite good in Quito. (Rich McVicar, QLB on DXPL 6/29 via Mike Fern) [WRTH 91 says "Estacion C", 1030-0200--mf]

PHILIPPINES - *Radio Veritas Asia* sked: 21560 in Urdu 0200-0230; 15405 in Bengali 0100-0125, Hindi 0130-0155; 15225 Sinhalese 0000-0030, Tamil 0030-0100, Telugu 0100-0125; 15215 Japanese 2300-2325; 15140 Tagalog 1500-1525 Tu-Fr & 1500-1540 Sa-Mo, English 1525-1530 Tu-Fr & 1540-1545 Sa-Mo; 11795 Burmese 2330-2355, Karen 0000-0030, Kachin 0030-0055; 11790 in Viet 1100-1125, Chinese 2100-2255; 11710 Indonesian 2300-2325; Viet 2330-2355; 9710 Korean 2100-2125; 9615 Chinese 1500-1600; 9560 Chinese 2230-2255; 9555 Viet 1000-1025, Burmese 1130-1200, Karen 1200-1230, Kachin 1230-1255, Korean 1300-1325, Hindi 1330-1400, Bengali 1400-1430; 9550 Urdu 1430-1455; 9520 Chinese 1000-1055 & 1130-1155, Japanese 1230-1255, Viet 1300-1330, Sinhalese 1330-1400, Tamil 1400-1425, Telugu 1430-1500. (WBI 7/5)

Most of the *Voice of America* relay transmitters in the Philippines were shut down 6/16 because both power and satellite links had been lost. On 6/17 the 1900-2000 and 2100-2200 transmissions to Australia were omitted. Transmissions have been restored gradually. The latest one to return was on 6/23 when the 1000-1200 transmission on 5985 kHz from Delano, CA, returned. (AC on RNZI 6/27 via Mike Fern) [You know more about this one than I do!--mf]

VOA's Korean Service via Tinang and Poro was interrupted for two days 6/15 to 6/17. Some of the transmitters were still not operating as late as 6/24; the pattern changed by the day. 15190 kHz, which carries the Korean service 1300-1330, seems to originate at two transmitters at different sites which interfere with each other. The Yankee Doodle Interval signal is played on the two transmitters at different times. The EE service on 9760 kHz to East Asia is also broadcast from two transmitters. ("This is the Voice of America, America, Washington, signing off, signing off.") (Tetsuya Kondo and Tooru Yamashita, RJDXC 6/30, via Mike Fern) [Yankee Doodle didn't mind the step, either--mf] (Kim Andrew Elliott informed Kondo that service was expected

to be back to normal by the 28th--"by now" for a broadcast which is taped on Friday--the volcano permitting--mf)

ROMANIA - *R. Romania International* advises that it is carrying English as follows: to NA, 0200-0300 and 0400-0430 on 5990, 6155, 9510, 9570, 11830 and 11940 kHz. To Africa, 0530-0600 on 15340, 15380, 17730, 17745, 17790 and 21665 kHz; 1730-1800 on 11940, 15340, 15365, 17745, 17805 kHz. To the Pacific from 0645-0715 on 11940, 15335, 17720, 17805, and 21665 kHz. To Asia 1200-1230 on 15365, 15390 and 17720 kHz; at 1500-1530 on 11940, 15250, 15335, 17720, 17745 and 17775 kHz. To Europe 1300-1400 on 11940, 15365, 17720, and 17850 kHz; 1930-2030 on 7145, 9690, 9750, and 11940 kHz. 2100-2130 on 7145, 9690, 9750, 11810 and 11940 kHz. (RRI direct to William Matthews on RK SW Feedback 6/23 via Mike Fern)

SARAWAK - *RTM Malaysia*, Sibü, 5005, heard in Quito at 1115 6/19; fair signals free of local ute QRM. (Rich McVicar, QLB on DXPL 6/22 via Mike Fern) Miri, 6060 kHz, heard at 1141 6/20 // 5005 and 7270 kHz. (Rich McVicar, QLB on DXPL 6/22 via Mike Fern)

SINGAPORE - *Singapore B/c Corp.*, 11940 kHz, heard in Quito at 1131 with stock reports in English; very good signals despite co-channel interference. (Rich McVicar, QLB on DXPL 6/22 via Mike Fern)

SPAIN *R. Exterior de Espana* was to begin transmitting a 24 hour World Service in Spanish (Servicio Mundial en Espanol) 7/1. Plans for the service are based in part on a 1990 audience survey showing news programs preferred by 61.2% of the audience, cultural programs by 15.3%, sports programs by 8.7%. A 60 minute slot in the World Service will include a news bulletin, reports from foreign correspondents & RNE's local & regional correspondents, commentaries, interviews, reports on economy, culture & sport, and a current affairs program. (RNE, 6/22, via WBI 6/28) The schedule for the World Service in Spanish is: 0000-0200 to America on 21495, 17715, 15365, 11880, 11815; 0200-0400 to Am 17715, 15365, 11880, 11815, 9630; 0400-0500 to Am on 15365, 11880, 11815, 9630, 7105; 0500-0600 to Eu/ME/ANZ 21595, 12035, 11730, 9650, 7105; 0600-0700 to Eur/ME/ANZ 21595, 12035, 11920, 11730, 9650, 7105; 0700-0900 to Eur 15395, 15240, 11920, 11790; 0900-1000 to Eu/ME/AF/Am on 21570, 21555, 17890, 17815 (Su), 17755, 15395, 15240, 12035, 11920, 11790; 1000-1200 to Eu/ME/AF/As/Am on 21570, 21555, 17890, 17815 (Su), 17755, 15395, 15240, 12035, 11920, 11790, 9620; 1200-1300 to Eu/ME/AF/As/Am on 21570, 21555, 17890, 17815 (Su), 17755, 15395, 15240, 12035, 11920, 11815, 11790; 1300-1400 to Eu/ME/AF/As/Am on 21570, 21555, 17890, 17815 (Su), 17755, 15395, 15240, 12035, 11920, 11790; 1400-1500 to Eu/ME/AF/Am on 21570, 21555, 17890, 17815 Su, 17755, 15395, 15240, 12035, 11920, 11790; 1500-1600 to Eu/ME/AF/Am on 21570, 21555, 17890, 17815 Su, 17755, 15395, 12035, 11920, 11790; 1600-1700 to Eu/ME/AF/Am on 21570, 21555, 17890, 17815 Su, 17755, 11920, 9685, 9620; 1700-1900 to Eu/AF/Am on 21570, 21555, 17815 Su, 17755, 11920, 9685, 9620; 1900-2000 to Eu/AF/Am on 17845, 17755, 15325, 15110, 11920, 9620, 7105; 2000-2200 to Eu/Am on 17845, 15325, 15110, 11920, 11790, 9620, 9580, 7105; 2300-2400 to Am on 21495, 17715, 15365, 11880, 11815. (WBI 7/12)

The *REE* Foreign language service sked: 0000-0200 English to Am on 9630; 0240-0300 Ladino to Am (Fri) on 17715; 0415-0435 Ladino (Fri) to Am on 9690; 0500-0600 to Am on 9630; 1700-1730 Russian (Mo-Fr) to Eur on 12035, 11790, 9875; 1700-1900 Arabic to ME on 15395, 11890; 1730-1800 German (Mo-Fr) to Eur on 12035, 11790, 9875; 1800-1900 French to Eur on 11790, 9875; 1805-1835 Ladino (Th) to Eu on 12035; 1900-2000 English to Eu/ME/AF on 15395, 15375, 11790, 9875; 2000-2100 French to Eu/AF on 15375, 9875; 2015-2200 Arabic to ME on 11790, 9580, 7105; 2100-2200 English to Eur on 9875; 2200-2300 Spanish (from Canary Is) to Am on 11815; 2300-2400 French to Am on 9630. (WBI 7/12)

SUDAN - *National Unity Radio*, now operating 1500-1700 (one hour later than before) on 9535. Broadcasts are in Arabic, Sudanese, Colloquial Arabic, English & Sudanese local languages. They include news bulletins, press reviews, commentaries, programs for the armed forces & other features. (WBI 6/28) In the past frequencies around 9550-9555, 7100 & 11710 have been used. (WBI 7/5)

SURINAM - *R. Surinam Intl* (via Radiobras transmitter in Brasilia) broadcasts Mon-Fri on 17755 at 1700-1745 in Dutch, English and Sranan Tongo. (WBI 7/12)

TAIWAN - *The Voice of Free China* has changed its schedule since 5/31. EE to NA from 0200-0400 on 5980 and 9680 kHz (WYFR); 0200-0400 to ANZ on 9765 kHz; to Japan and Korean on 15345 kHz; 0200-0300 on 11740 kHz to Central America, and on 11860 kHz to Vietnam, Malaysia and Indonesia. 0300-0400 on 11745 kHz for Indonesia and the Philippines.

0700-0800 to NA on 5950 kHz. To Europe from 2200-2300 on 17750 and 21720 kHz. (RJDXC 7/13 via Mike Fern)

UNITED ARAB EMIRATES - (Abu Dhabi) - *UAE Radio* has resumed EE to NA at 2200-2400 on 13605, 15305, and 17855 kHz; relays home FM broadcasts of Capital Radio from 2230-2300, so it's possible to get two QSL cards for the same reception, one from UAE Radio and one from Capital Radio. (Salvatore Plaganica, Italy, on DXPL 6/22 via Mike Fern)

UNITED KINGDOM - The BBC has decided to close its shortwave operation at Daventry. World Service programs currently transmitted from Daventry will be transferred to Woofferton, Shropshire, where facilities are being released because of a reduction in VOA requirements. Woofferton began as a VOA relay in 1943. 30-40 jobs will be lost as a result, but the staff will be relocated to other BBC sites as vacancies arise. Daventry opened in 1925 when the long-wave service [200 kHz.] started. The first BBC regional transmitter opened at Daventry in 1927. Experimental still-picture transmissions were carried out in 1928. The Empire Service was inaugurated in 1932. The transfer of the Daventry shortwave service will begin in April 1992. It is expected to be completed by the end of that year. Daventry will continue as a maintenance base for BBC's radio and TV transmitting stations in the area. (BBC Engineering Dept. press release on DXPL 6/22 via Mike Fern)

BBC Spanish for Latin America has a folk music program, "La Peña Latino-Americana" (The Latin American Circle) at 0130-0200 Fri on 6110- 9825-15390 kHz. Some performances are specially recorded in the country of origin. Also, there are dispatches about national folk festivals. Program 7/19 had a Chilean work on a religious theme for choir and big native drums in three parts, almost more concert than folk. Should be helpful for those learning their way around Latin America's musical map. (Mike Fern - CA)

URUGUAY The director of *R. Integracion Americana*, Jorge Parodi, announced in Montevideo 6/21 that the station would broadcast programs aimed at member countries of the Common Market of the South (Mercosur). The broadcasts were to begin "in the next few days", using the call sign XA61, and would be heard in Argentina, Brazil, Paraguay and Uruguay. There would be two 90 minute programs daily, at noon and in the evening. WBI notes CXA61 is listed in WRTH as *R.Libertad Sport* on 6045 kHz. (WBI 6/28)

USA - Dr. Lester Sumrall's World Harvest Ministry buys a two-hour slot on Trinity Broadcasting, *KTBN*, 0200-0400 Fri UTC; this is a real stem-winding service, but don't confuse *KTBN* on 7510 with *WHRI* on 7315! (Mike Fern--CA)

Herald Broadcasting (WCSN/WSHB) made several changes in frequency effective 7/15: to Africa, 1800-2000 on 21545 NF ex 21640; 2200-2400 on 15665 NF ex 15300; to Europe/Middle East: 2000-2200 on 15665 NF ex 15610 kHz. (Mike Fern--CA)

USSR - *Radio Vedo*, the new shortwave commercial station from Volgograd, has been traced on 13710, signing on in Russian at 1600 UTC 6/25. (WBI 6/28) The opening announcement in Russian at 1600 6/25 quoted 13710 & 11760 kHz. Another announcement said would also be broadcasting at 6:30 to 8:30 on 5915 & 7125 kHz. Only the 13710 frequency has so far been confirmed. (WBI 7/12)

A check of *Radio Moscow's* external broadcasting schedule in Russian shows that the four one-hour transmissions previously allotted to the now-defunct Radio[stantsiya] Rodina at 0200, 1400, 2000 & 2300 have been taken up by the *Radio Moscow* World Service in Russian, which now has 20 one-hour transmissions daily. The remainder of external broadcasting in Russian is directed at Soviet seamen. (WBI 7/12)

Krasnoyarsk Kray Radio broadcasts at 2200-1800 on 5290 kHz. (WBI 7/12)

- **GEORGIA** - *Radio Georgia* broadcasts programmes in Russian, English and German. Monitoring research 12 - 16 Jul 91: On 12th and 14th July a station broadcasting in Russian and calling itself Radio Georgia [Russian: Radiostantsiya Gruzziya] was heard with very muffled audio from 1700-1800 gmt on 12070 kHz. The programmes, according to announcements were prepared by Georgian Radio's main editorial board for broadcasts to foreign countries.

Announcements gave the time of the above broadcast on 12070 kHz as being "2100-2200 hours Tbilisi time or 1800-1900 hours Central European time". The announcement went on to mention a further broadcast on 12070 kHz "from 0700-0800 gmt Central European time". Listeners in Scandinavian countries and the north-western USSR could also hear programmes from Radio Georgia "from 0000-0200 hours Tbilisi time or 2100-2300 hours Central European time on 11760 kHz/25.5 metres and from 0700-0800 hours Central European time on 12050 khz/24.9 metres".

On 7/16, 12070 was in English to 1730 gmt - after starting late in midsentence at 1706. At 1730-1800 a programme in German was broadcast. The audio was too muffled for any meaningful transcription except for an anmt "You are listening to Georgia, broadcasted from Tbilisi, the capital of Georgian Republic". At 2000 7/16, English was heard on 11760. Then another broadcast at 1730 but reception was too poor to identify the language. (WBI 7/19)

I logged *R. Georgia* with good but unintelligible audio with English programming at 2140-2200* on 11760.2 on 7/21. S/off was in presumed Russian and ended with piano melody that may be the IS. Monitored again on 7/22 w/same pattern. (Bob Brown)

Georgia Radio's Home Service is being heard in Japan on 12015 & 5040 in Georgia and 15240, the Moscow-area relay. (Yoshinori Kato on RDXC 6/23 via Mike Fern)

- **UZBEK SSR** - The English service of *Radio Tashkent* is as follows: 0100-0130 on 7190 and 7335 kHz., and from 1200-1230 and 1330-1400 on 7325, 9715, and 15460 kHz. (Kanwarjit Sandhu, India) on RDXC 6/23 via Mike Fern)

- **KAZAKHSTAN** - *R. Alma Ata* Home Service second program on 15250 NF at 1530 5/6 in Kazakh with interval signal and ID and man and woman announcers, // 15215 (Valery Ostroverkh, Karaganda, USSR, via Bruce MacGibbon on RDXC 6/23 via Mike Fern)

Wyoming travel-video producer Ben Dowd is working on his own commercial FM and shortwave station in Moscow. His agreement with Soviet authorities calls for radio time from 6 to 9 a.m. in July and August, and 24H after Oct. 1. Dowd is not sure about shortwave but it could start in August, using former jamming transmitters. The 60 kw. FM transmitter on a 150-meter tower should have a coverage radius of 80 km. It will be called "Radio 7" because it's the seventh frequency authorized for Moscow. Leningrad and Vladivostok may be added later. (RNMN 6/27 via Mike Fern)

Recent cutbacks at *Radio Moscow* may release some high-powered shortwave transmitters for other use. The cuts are part of a process that began in 1989. BBCM surveys in June show that RMI has dropped seven languages and reduced broadcast time for ten more. Radio Moscow's output this summer is about 75% of what it was two years ago. Languages which seem to have disappeared in June are Bambara, spoken in Mali; Malagasy, spoken in Madagascar; four Indian-area languages, Malayalam, Marathi, Nepalese, and Telugu; and Tagalog, a principal language of the Philippines. (Richard Measham, WBI, and JM on RNMN 6/27 via Mike Fern)

VATICAN - *Vatican Radio* has added 11625 kHz NF to Africa at 0530-0630 and after 1730, // 15090 and 17730 kHz. Also at 2100 UTC on 9645, 11625 and 15090 kHz. EE to NA at 0250 only on 9610 NF (announced 9615) and 11625 kHz. EE to Asia-SoPac at 0145 on 11935 and 15090 kHz; at 1345 on 9615, 11830, 15090, and 17535 kHz; at 1525 on 15090 and 17865 kHz.; at 2245 on 9600, 11830 and 15105 kHz. EE to Eu at 0500 on 526 and 1530 kHz MW, 6245 and 7250 kHz; at 1345 on 526, 1530, 6245, 9645, and 11740 kHz; and at 1950 on 526, 1530, 6245, and 7250 kHz. (William Matthews, RK Shortwave Feedback 7/7 via Mike Fern) [These changes made necessary by the horrid propagation--mf]

Vatican Radio heard 7/12 0400-0428 in Amharic/Tigrigna, 0430-0458 in French on 11625 // 15090. Fair sigs at 0428 on 11625 dropped 18 db when antennas were switched. Both apparently NF replacing 16m and 13m. Tigrigna may have only one vernacular music recording; perhaps no change until the first priest returned to the area trains a choir. (Mike Fern--CA)

Vatican Radio has been testing on out-of-band frequencies to improve reception of its EE and JJ programs in Japan. 11625 kHz was heard in Japan 6/22 from 1315-1347; signals were very weak. A second transmission from 2130-2157 on 15090 kHz was heard 6/21 and 6/22 with poor signals. 21845 kHz was used on 6/22 from 2130-2157 with interval signals only. On 6/23 21845 kHz was heard from 1315-1342 with fair signals and co-channel QRM from Radio Moscow. 21845 is expected to carry JJ at 1315 and EE at 1345. (Toshishiko Nomura and Hiroaki Nakada, RDXC 6/30, via Mike Fern)

VENEZUELA - *R. Nacional de Venezuela*, 9540 kHz, heard in Quito with good signals at 1152 with English newscast; address is Box 3979, Caracas 1050. (Rich McVicar, QLB on DXPL 6/22 via Mike Fern)

VIETNAM - *Voice of Vietnam* domestic radio on an additional shortwave frequency. Monitoring research 25 Jun - 10 Jul 91: Since 25th June, the Voice of Vietnam domestic service in Vietnamese has been observed on an additional frequency of 7113 kHz which is believed to be from a transmitter renovated to serve the northwest region and central highland areas of Vietnam. The frequency fades in at around 2200 gmt and runs in parallel with Voice of Vietnam's usual frequencies 12035, 10060, 6450, 5920, 5020 and 4895 kHz, until 0600 gmt when it goes off the air.

YEMEN - *Republic of Yemen Radio* began English broadcasts from Aden 7/1, at 1600-1630 daily on 7190, 5970, 1188 & 792 kHz. ID: "This is Yemen, Programme Two, English Service from Aden." (WBI 7/5 & 7/12)

YUGOSLAVIA - The Yugoslav international service changed its name to *Radio Federal Yugoslavia*. EE to NA, Asia, Pacific at 1200-1230 on 17725, 17740, 21605. (William Cooper, PA, on RJDXC 7/21, via Mike Fern)

ZAMBIA - *R. Zambia* was heard in Japan in early July from 1540-1600 on 9504.6 kHz. Reception was poor, due of QRM from two stations on 9505: RFE (weak), and Radio Beijing after 1600. Open carrier, call of the Fish Eagle IS until 1555, anthem, and news in EE. (Yoshiaki Hayashi on RJDXC 7/7 via Mike Fern) [WRTH says 1530-2215--mf]

CLANDESTINE - *Al-Quds Radio* is now observed on 5910 kHz, // 702 & 630. Announces sw freqs as 5990 & 5900. Bests mostly in AA, but continues to have Hebrew at 0800, RR nx 0845, EE nx 0915. Programming is irregular & times are sometimes changed to accommodate intifadah news. Apart from news, programs in these languages are rare. Station is on the air 0600-1100 & 1300-1730. (WBI 6/14)

- **AFGHANISTAN** - *Voice of Unity* This Afghan opposition station noted 0224* 6/6 on 5490 kHz. Closing anmt in Dari mentioned bcsts at 0130-0230 & 1515-1615 UTC. (WBI 6/14)

- *Voice of the Mojahed of Afghanistan* noted on 3250 at 0100-0200 6/22 & 23. 6/24 it was on 3270 kHz. This also believed to be the station s/on 1415 6/24 on 3250. Gave sked as 0100-0200 and 1415-1515 on MW 1200 kHz and SW 3.2 MHz [words indistinct] and 5.8 MHz. (WBI 6/28) Sked is 0100-0200 on 5800-v (anncd), 3250-v, 1200 (anncd); 1415-1515 on 5800-v (anncd), 3250-v, 1200 (anncd). (WBI 7/5)

- The *Voice of China* was heard in Japan at sign-on at 2100 6/5 on 15280 kHz. Jammers were weak. The opening was recorded and translated by Tooru Yamashita and is as follows: "The Voice of China. The Voice of China. This is the radio station The Voice of China, operated by the students and scholars of China and abroad. In addition to broadcasts from Chinese stations in the U.S. and Europe, we also broadcast early in the morning, from 0500-0600 China time. We repeat the Sat broadcasts on Sun. The freq of the Voice of China is 15280 kHz." He adds that the schedule is 0600-0700 Beijing summer time, or 2100-2200 UTC. Pgm format has been changed from two 30-minute sections to one 60-minute production. (RJDXC 6/23 via Mike Fern)

- *Voice of the Mojahed*, (anti Iranian govt) now heard 1530-1830 on 7130, 6150, 4737, 4240. Frequencies vary to avoid deliberate interference. The transmitters are believed to be located in Iraq. (WBI 7/5)

- For a long time many listeners believed the radio voice of the Sudanese People's Liberation Army came from Ethiopia. This was confirmed when the *Voice of Ethiopia* shut down in the last days of the successful rebellion. Since the VOE came back on the air 6/3 its transmitters are in continuous use in the External Service from 1200-1800, and Radio SPLA is not heard at all. (Victor Goonetilleke on RNMN 6/27 via Mike Fern)

- *R. Venceremos*, El Salvador, on 6399.9 kHz at 0210 6/9 with many IDs and usual programming in SS; heard 6/7 and 6/8 without IDs; free of jamming. (Hans Johnson-MD in Fine Tuning on DXPL 6/29). Heard in Quito at 0210 6/26 or 6/27 on 6400 (Rich McVicar, DXPL 6/29 via Mike Fern) *R. Venceremos* announced 6/23 that it would begin a morning transmission at 1300 UTC Sunday mornings. (WBI 6/28)

- The *Voice of Iraqi Kurdistan* noted on 5950 kHz 0400-0445 (but to 0500 one day) & 1600-1706. The Kurdish and Arabic segments do not appear to be at set times. (WBI 6/28) Monitoring research 7/11-13: *The Voice of Iraqi Kurdistan*, the radio of the Kurdistan Democratic Party, was heard during its 0400-0500 gmt transmission on 7/11 & 13 on 6151 kHz, a change from 5950 kHz - a channel again occupied by Yemeni radio in Sana'a. The station's 1600-1700 gmt transmission was heard on 7/11, 12, 13, on 5831 kHz. (WBI 7/19)

- The *Voice of the People of Kurdistan* was heard on 4000 kHz 7/8. The station played music at 1650 before signing on for the scheduled 1600 transmission. The station is operated by the Patriotic Union of Kurdistan. (WBI 7/12)

- The *Voice of the Iraqi Opposition*, the former Voice of Free Iraq - a radio hostile to President Saddam Husyan of Iraq, continues to broadcast. A check between 1400 and 1800 gmt on 7/10 showed it to be operating on 17960 and 15605 kHz. Both frequencies were also occupied by

jamming signals. (WBI 7/19) I logged this on 7/21 at 2230 on 15605 // 17950 and 9570. Jamming noted on 9570 and 17950 but not on 15605. (Bob Brown)

- Iran's *Flag of Freedom Radio* heard 0326-0335* 6/27 on 15565 kHz; tone, several IDs including EE ("This is Iran Flag of Freedom Radio"), a beep at 0332, ID in Farsi, and Western style marches. Excellent at first, then jammed intermittently. (Rich McVicar, QLB on DXPL 6/29 via Mike Fern)

BOOKS - "Latin American Verification Signers" is a 22-page booklet listing LA stations by country with the names of QSL signers. It is published by David Martin, 9 New Street, Nansfield, Victoria 3722, Australia. The current edition lists about 450 stations. Supplements are published in June and December. The booklet costs US\$6, three British pounds, or 7 IRC's. (Mike Fern)

EYEBALL DXing - The Nagoya DX Circle holds an annual DX camp (this year Aug. 11-12) on Mount Tado, two hours from Nagoya by train. Contact Shigenori Aoki by fax at (81) 52-461-1419. The price of 3000 yen or US\$22 includes one night's accommodations, two meals, and a fireworks festival. (Mike Fern)

PROPAGATION / SOLAR ACTIVITY - Radio Japan's DX Corner propagation essay 6/30 referred to the solar flare at 1540 June 4 as "the most magnificent solar flare in history." It was videotaped at a Tokyo observatory and rebroadcast on Tokyo TV. WWV announcements mention a polar cap absorption event which started 6/5 and hadn't stopped as of 6/30. A second solar flare was reported by WWV on 7/1 or 27 days later; a satellite proton event was reported 7/2. Mike Bird on RNMN has referred to a Solar Region 6659 as a source of flares in mid-June, which passed to the back of the sun about June 23. However, a solar flare associated with a coronal hole was recorded in late June. RJDXC's propagation report said Dellinger phenomena (fadeouts) were expected from 6/29 to 7/5. (Mike Fern)

Solar Region 6659 reappeared at the other edge of the sun 7/1 and was dubbed Region 6703. It confounded the experts 7/2 and 7/7; although smaller than 6659, it proved very active. A polar cap absorption event began 7/7 and continued until 0600 7/10. A geomagnetic storm which began at 1635 7/8 which continued until 7/10. (Mike Bird on RNMN 7/11 via MF) [I have understood WWV to say the polar cap absorption event has been continuous since 6/5!-mf]

Those interested in the latest details of solar activity, and expected effects on HF propagation, would find the reports, alerts, warnings, etc., issued by Cary Oler, of the Solar Terrestrial Dispatch, mentioned below, of interest. (df)

BULLETIN BOARDS / NETWORKS - *Internet* is a world-wide computer network, originally for US universities, now with many private firms and foreign universities as clients, in Sweden, Brazil and elsewhere. RNZI schedules are posted under "Recreation-Radio-Shortwave." [Actually, "rec.radio.shortwave" (df)] Users with access through Usenet can post schedules and tips. One regular poster is CSMS who have Usenet access. The NZ universities of Canterbury (Christchurch) and Wellington are subscribers. (Kurt Hedlund, Umea, Sweden, and Tom King on RNZI 7/8 via MF) [CSMS not explained; Christian Science Monitor??-mf] Yes. (df)

There are various public access points to Usenet, including some of the larger BBSs. Some of the most interesting items posted to Usenet come from the Solar Terrestrial Dispatch, in Alberta. It was particularly interesting during the first part of June to see the info on solar activity, and the effects and expected effects on HF propagation. These reports are often reposted to CompuServe's HamNet. In addition, the Solar Terrestrial Dispatch now operates a BBS from its location in Alberta (phone 403-756-3008), where the same information is available, as well as additional information to registered users. (df)

Shortwave Echo now has a reliable FidoNet BBS in Holland. Called "Touch 1", it's in The Hague. Number is 31 (from outside Holland), 70 for The Hague, and 345-19-30. The on-screen prompts are in Dutch but the FidoNet conferences are wholly in English. SW Echo has regular contributors in the US, Canada, Australia, Sweden, Denmark, Germany and Holland. Work on a link to the UK is proceeding. (Andy Sennitt and JM on RNMN 7/18 via Mike Fern)

LAST MINUTE NOTES - *WWCR*'s second transmitter heard testing (w/ordinary program material) on 7435 at *0400-1000* 7/19. (Mike Fern, CA) On the net this past Sunday someone mentioned hearing a station calling themselves the *Caribbean Beacon* broadcasting from Anguilla. Religious preaching. 7/23 I logged same thing at 0227 on 7435 with bible thumping and an ID by a woman in both English and Spanish claiming to be the Caribbean Beacon. Big signal and not // 1610. (Bob Brown)

As always, any opinions expressed herein by me are my own, not those of the VOA, where I work, but which I here in no way represent. (df)

QSL Reports

Sam Barto
47 Prospect Place
Bristol, CT 06010



ABU DHABI: UAE Radio 17855 f/d folder cd. w/ schedule in 21 ds. (Mayberry-TX). 11985 p/d ltr. in 57 ds. w/ schedule. (Blumstein).

ALASKA: KNLS 11945 f/d cd. w/ schedule and pennant in 24 ds. w/ personal ltr. v/s Beverly Jones, Secretary. (Livingston-CA). 11715 f/d cd. w/ pennant in 20 ds. for ms. v/s Mike Norwood. (Fanderys-OH). f/d cd. w/ personal ltr. schedule and pennant in 34 ds. (Mayberry-TX).

ALBANIA: Radio Tirana 9500 p/d ltr. in 77 ds. after many rpt. over a 10 yr. period. (Stephens-AL).

ANTIGUA: Deutsche Welle 9670 f/d "Unification" cd. in 47 ds. w/ sticker and pennant. (Millard).

ARGENTINA: LOL Time Signal Station 5000 f/d cd. in 111 ds. for a SP rpt. and ms. v/s Edgardo Gustavo Giordano, Capitan. (D'Angelo-PA). **LS4 Radio Continental** 9115 f/d cd. w/ sticker and personal ltr. in 7 wks. for a SP rpt. (Barto-CT).

ASIATIC RUSSIA: Radio Moscow 21690 via **Vladivostok** f/d * cd. in 1 1/2 mo. w/ schedule. (Boulden). **Kamchatka Radio** 4485 f/d postcard w/ personal ltr. in 4 mo. for an EG/RS rpt. (Barto-CT).

AUSTRALIA: VLO9 9660 f/d cd. in 3 mo. for 1 IRC. (Boulden-CA). **VNC Time Signal Station** 16000 via **Llandilo** f/d "Antenna" folder cd. in 3 wks. for 1 IRC. v/s Dr. Marion Leiba. (Kohlbrener-PA). same in 20 ds. for \$1.00. (Fanderys-OH). **Radio Australia** 11930 via **Brandon** "Wilderness Society" cd. in 2 mo. w/ schedule. (Field-MI). **VLM15** 15425 p/d ltr. w/ several program guides in 25 ds. v/s Steve Napier, Acting Radio Operations Schedule Officer. (Stephens). 17715 via **Shepparton** f/d ltr. w/ postcard and schedule in 28 ds. (Stephens). **VLBT** 2325 f/d "Map" cd. in 33 ds. for \$1.00. (Mann-NE). same in 3 mo. for 3 IRCs. (Taylor-PA). **VLBK** 2485 f/d cd. in 3 mo. for 3 IRCs. (Taylor-PA). same in 33 ds. for \$1.00. (Mann-NE). **VLBA** 2310 f/d "Map" cd. in 33 ds. for \$1.00. (Mann-NE). same in 3 mo. for 3 IRCs. (Taylor-PA).

BANGLADESH: Radio Bangladesh 15647 n/d "Royal Bengal Tiger" cd. w/ personal ltr., schedule in 87 ds. for \$1.00. v/s Munshi Ahsan Kabir. (Washburn-ME).

BELGIUM: BRT 21815 f/d cd. in 56 ds. (Levison-PA).

BENIN: Radio Parakou 5025 n/d personal ltr. in 1 mo. for a FR rpt. and \$1.00. v/s J. da Matha, Le Chef de Station Regionale de Parakou. (Loudell-DE).

BOLIVIA: CP63 Radio San Gabriel 6084.6 f/d prepared cd. w/ 2 page ltr. in 46 ds. for ms. Also rcvd. wall calander, station info. book, etc. v/s Jose Canut Saurat. (Palmerheim-WA).

BONAIRE: TWR 9535 and 11930 f/d cd. in 1 mo. v/s Chuck Roswell. (Millard-TX). 9535 f/d "Bestuurcollege" cd. w/ station info. in 27 ds. for \$1.00. (Livingston). 11815 same cd. in 3 wks. for \$1.00. (Loudell-DE). 15375 f/d "Submarine Paradise" SP QSL cd. in 36 ds. (MacHarg). **Radio Nederlands** 15560 f/d "Special SSB" QSL cd. in 1 mo. (Wallace-MA).

BOTSWANA: Radio Botswana 4820 cd. in 860 ds. MA. after a 2nd f/up rpt. for IRCs and \$1.00. (Darling-PNG).

BRAZIL: Radio Beijing 15445 via **Brasilia** f/d cd. * w/ site in 1 mo. (Matthews-OH). **Radio Sentinel da Amazonia** 3285 f/d cd. via registered mail in 3 wks. for a PT rpt. (Field-MI). **Radio Emissora de Educacao** 4765 f/d ltr. in 2 mo. for a PT rpt. Also rcvd. several stickers and station info. (Barto-CT).

SIGNAL RECEPTION REPORT and QSL REQUEST

Thank you for your report on
the
reception of our transmission
from the

H. F. VERNOERD SHORTWAVE STATION

DATE: 14 January 1991

TIME (GMT): 0334 - 0355

FREQUENCY: 3215 kHz
via Jerry Klink

RADIO
ORANJE



SPECIAL REQUEST: Andreas Schmid of Postfach 61, 8737 Euerdorf, Germany has a collection of over 900 station pennants. He is very interested in adding to his collection. He is very willing to swap station pennants with other collectors. Many of his duplicates are 20 to 30 years old! If you are interested, please write to Andreas at the above address.....Sam.



BULGARIA: Radio Sofia 11750 f/d cd. in 3 mo.(Boulden) 11735 f/d cd. w/ personal ltr. in 74 ds. v/s Radovsveta Shishkova, Secretary.(Livingston).

BURKINA FASO: Radio Burkina 4815 p/d form ltr. in 828 ds. for a FR rpt. and ms. This after a f/up rpt.(Mann-NE).

BYELORUSSIA: Radio Minsk 5950 f/d "Downtown Minsk" cd. w/ USSR stamps and other goodies in 2 mo.(Loudell-DE).

CAMEROON: CRTV Yaounde 4850 f/d ltr. in 20 ds. for ms. and \$1.00 donation to CATHCA. This was my 5th f/up for an 87 reception. v/s James Achanyi-Fontem. Addr: CRTV Radio Feedback, P.O. Box 986, Douala, Littoral Province, Cameroon.(Stephens-AL).

CANADA: RCI 11945 f/d "Leningrad Hamvention" cd. in 14 ds. for 1 IRC.(Brouillette-IL). CHU 14670 f/d cd. in 1 mo.(Livingston-CA). CFRX 6070 f/d cd. in 3 mo. for \$1.00.

v/s David Simon.(Boulden). CBC Northern Quebec Service/RCI 9625 form ltr. explaining non-QSL policy in 29 ds. Schedule rcvd.(Mayberry-TX).

CHAD: Radiodiffusion Nationale Tchadienne 4904.5 p/d form ltr. w/ schedule and sticker in 55 ds. for a taped rpt. and \$1.00.(Kurrasch-NY).

CHINA, PEOPLES REP. OF: Gansu PBS 4865 f/d gold on ochre "Goddess" folder cd. in 1 mo. for \$1.00.(Loudell-DE). 6115 f/d cd. in 3 mo.(Barto-CT). Sichuan PBS 6059 f/d cd. in 3 mo. w/ schedule and decal.(Barto). Guizhou PBS 7275 f/d "Golden Thread" cd. in 9 wks.(Barto).

Radio Beijing 9920 and 6933 f/d "Coconut Hair" cd. in 5 wks.(Barto). **CLANDESTINE:** La Voz de Alpha 66 9495 via WHRI f/d cd. in 2 mo.(Barto-CT).

COLOMBIA: Radio Nueva Vida 5567 f/d prepared cd. w/ form ltr. in 11 wks. for a SP rpt. * and \$1.00. v/s Marco Antonio Caicedo O., Director.(Allen-OK). Radio Mira HJDF 6016.3 large multi-colored 20th anniversary cd. w/ p/d ltr. in 5 mo. for a SP rpt. and ms.

* v/s Julio Cortes Benavides.(Palmerheim-WA). La Voz del Rio Arauca HJGD 4895 f/d prepared cd. in 45 ds. for a SP rpt. and ms. This was after 5 f/up rpts. for an 88 reception. Sticker rcvd. v/s Guillermo Pulido, Gerente.(Palmerheim-WA).

COSTA RICA: Radio For Peace International 7375 f/d "Logo" cd. w/ schedule in 31 ds. for 1 IRC. v/s James Latham, Station Manager.(Datz-IL). f/d cd. in 59 ds. for 1 IRC (Dieterich-GER). TIPC 5055 f/d cd. w/ ltr. in 24 ds. for \$1.00. v/s Juan Jacinto Ochoa F., Manager.(Washburn-DE).

CYPRUS: BEC 11720 f/d "Antenna/Map" cd. in 3 mo. for \$1.00.(Millard-TX).

CZECHOSLOVAKIA: Radio Praha International 7345 via Litomysl f/d cd. w/ site in 50 ds.(Rigas-IL). 5930 via Rimavska Sobota f/d cd. w/ site in 26 ds.

DOMINICAN REP.: Radio Amanecer 6025 (Rigas-IL). p/d ltr. in 11 mo. for a SP rpt. and \$1.00. This after a f/up rpt.(Mann-NE). Radio Barahona 4930 f/d ltr. in 4 mo. for a SP rpt.v/s Ing. Roberto Lama S. (Barto-CT). f/d prepared cd. w/ form ltr. in 46 ds. for a SP rpt. and ms.(D'Angelo-PA).

Radio Mil 11700 via Radio Clarin p/d cd. in 4 mo. for an 88 reception.(Barto-CT).

DUBAI: UAE Radio 13675 f/d "Map" cd. w/ schedule and a paper pennant in 67 ds.(Mann-NE). 15400 f/d cd. w/ pennant and schedule in 3 wks. v/s K.F. Fenner, Chief Engineer.(Kohlbrener-PA).

ECUADOR: HCBT 9745, 15155, 21455(SSB) and 25950(SSB) f/d "Studio" cd. in 34 ds.(Brouillette-IL). 15155 same cd. w/ schedule and ANDEX application in 7 wks. for 2 IRCs. v/s Alan Volkhardt.(Datz-IL).9745 f/d "DX Party Line 30th Anniversary" cd. in 6 wks.

ENGLAND: BFPS 17695 f/d "Map" cd. in 56 (Boulden) ds. for \$1.00.(Fanderys-OH).

EUROPEAN RUSSIA: Radio Moscow 18870(USB) via Moscow * f/d cd. w/ power and site in 34 ds.(Rigas-IL).

EUROPIRATE: Live Wire Radio 15050 f/d fluorescent * green cartoon cd. w/ stickers and personal ltr. in 12 ds. v/s Bill Lewis. 80 watts. Addr: 21 Greenpark, Bath, County of Avon, BA11H2.(Stephens-AL).

via Monterini

QIPA CN....

TRANSMISION DIRECTA DE LA "ENTRADA DE LA FIESTA JESUS DEL GRAN PODER 88" POR LAS PODEROSAS ONDAS DE LA

RADIO SAN GABRIEL

PERIODISTAS Y LOCUTORES PROFESIONALES:

CANCIO MAMANI L.
ROBERTO QUISBERT CH.
ALICIA CALDERON Q.
MARTHA COPA

Y TODO EL EQUIPO DE QIPA CN.

NOTES: Ed Mayberry asks if we can utilize photo copies of QSLs. Sure we can. Just make sure that they are very good contrast black and white. If I get too much gray or shades thereof, I have to do quite a bit of touch up work...Sam. Dale Wagner is yet another first-time contributor to the Column. Thank you and keep sending in your QSL reports. Steve Lane received a QSL from a Radio Moscow site which they spelled Zhigulyovsk. Do any of our members know if this is a mis-spelling or a new name for Zhigulevsk?...Sam. Richard Wallace is glad the USPO started to issue IRCs once again. He was getting tired of sending \$1.00 with reports. Ross Comeau in Andover, MA recently checked in with his first report to the Column. Glad to have you with us....Sam. Jerry Klinck of 43 Lein Rd., West Seneca, NY 14224 is remodeling his residence and constructing a 24 x 10 foot radio room! There are plans for two skylights so he can monitor the "radio Waves" as they approach the den. Hi! Good luck. Let me know if you see any...Sam.

EUROPIRATE: Radio Fax 12255 f/d cd. w/ 2 page fact sheet in 11 ds. for \$1.00. 200 watts.

* v/s Trevor Brook. Addr: The Forge, Cranleigh, GU6 7BG. (Stephens-AL). Radio Equinox 11400 via Radio Wave International f/d cd. in 26 ds. for 1 IRC. (Dieterich-GER).

FRANCE: Radio France International 17620 f/d cd. w/ schedule in 23 ds. (Livingston).

FRENCH GUYANA: Radio Beijing 11685 via RFI Relay Station f/d "Cotton Ornaments" cd. w/ schedule in 10 ds. (Grenier-NV).

GAON: Radio Japan 15355 via Moyabi f/d "Broadcasting Center" cd. in 1 mo. v/s Kunitoshi Hishikawa. Schedule was rcvd. (Wallace-MA). Africa No. One 4830 f/d ltr. w/ cd. in 3 yrs. for a FR rpt. and 2 IRCs. (Hazzard-PA).

GERMANY (East): Deutsche Welle 11890 and 13610 via Nauen f/d cd. w/ sites in 25 ds. (Rigas-IL). 13610 via Leipzig f/d cd. w/ schedule in 2 mo. (Klinck-NY). same in 2 mo. w/ schedule. (Boulden).

GERMANY (West): Bayerischer Rundfunk 6085 p/d "Logo" cd. in 19 ds. for \$1.00. (Mann-NE). Deutsche Welle 9670 f/d "Map" cd. in 82 ds. (Livingston).

GHANA: GBC Radio One 4915 f/d "Ghana Broadcasting Company" cd. in 59 ds. w/ schedule. (MacHarg). f/d cd. in 4 mo. for 1 IRC. (Boulden).

GUATEMALA: Radio Maya de Barillas 3325 f/d cd. in 147 ds. for a SP rpt. Also rcvd. photo, pennant and a 25th anniversary button. v/s Baltazar Juan. (MacHarg). f/d cd. w/ pennant and other goodies in 93 ds. for a SP rpt. and \$1.00. (Washburn-ME). cd. w/ pennant, personal ltr. and sticker in 8 mo. for a SP rpt., ms. and a f/up rpt. (Mann-NE).

HOLLAND: Radio Nederland 6165 f/d "Faces Behind the Voices" cd. w/ schedule in 1 mo.

HUNGARY: Radio Budapest 11910 f/d cd. in 11 ds. (Livingston). same (Livingston). in 30 ds. w/ schedule. (Rigas-IL).

INDIA: All India Radio 15110 f/d cd. in 120 ds. (MacHarg). 15265 via Bangalore f/d "Taj Mahal" cd. in 60 ds. (D'Angelo-PA).

ISRAEL: Kol Israel 9435 f/d cd. in 118 ds. w/ schedule. (Mayberry-TX). 11605 f/d cd. w/ schedule in 75 ds. (Livingston-CA).

ITALY: RAI 11800 p/d cd. in 118 ds. (Mayberry-TX). Adventist World Radio 7230 via Forli cd. w/ ltr. and schedule in 45 ds. for 1 IRC. v/s Lina Lega, Secretary. (Darling-PNG).

JAVA: Voice of Indonesia returned my rpt. containing a tape recording, ms., etc. unopened and stamped refused. Address and postage were correct. Could it be that they will not even open reports with tape recordings? (Klinck-NY)...Unusual...Sam.

KAMPUCHEA: Voice of the People of Kampuchea 9695 p/d cd. w/ lots of goodies and a personal ltr. in 6 mo. (Hazzard-PA).

KOREA (North): Radio Pyongyang 11335 f/d "Flower" cd. w/ ltr. and pennant in 101 ds. for \$1.00. Thanks to T. Ashimori, Japanese DXer. (Millard-TX).

LUXEMBOURG: Radio Luxembourg 15350 f/d cd. w/ post-cards and 8 different stickers in 6 wks. (Boulden).

MALI: Radio Beijing 15130 via Bamako f/d "Happiness Canal" cd. in 10 ds. (Grenier-NV).

MALTA: Deutsche Welle 9565 f/d "Reunification" cd. in 1 mo. Also rcvd. QSL cds. for Antiqua 6040, Nauen 6155, Leipzig 13610 and Konigs-Musterhausen. All cds. included the sites. (Wallace-MA)...Sorry I didn't break this down into countries...Sam.

MEXICO: XEW 6165 f/d cd. in 5 wks. for a SP rpt. Pennant and ltr. were rcvd. (Boulden). Radio Mil 6010 f/d prepared cd. in 36 ds. for a SP rpt. and ms. (Mann-NE). La Voz de Veracruz 6013 f/d ltr. w/ station pennants via registered mail in 110 ds. for ms. This after a f/up rpt. (Mann-NE).

MONGOLIA: Radio Ulan Bator 4995 via Choybaisan and 4081.1 and 7262.4 via Ulan Bator f/d cd. in 5 mo. w/ schedule. (Barto-CT).



SPECIAL OFFER: Several of our members have requested information regarding what types of "gifts" to enclose and send along with their reception reports. Some individuals use shack photos, station stickers, postcards, travel brochures, etc. Many have found success by using used "commorative" postage stamps. It seems that many of the verification signers also collect stamps. For the next several months I will be offering the following: 250 definitives and 150 commorative from all over the world for only \$5.25. This will cover postage and handling. That's only slightly more than one cent each. A double order will cost \$10.00. This is certainly much cheaper than many other types of enclosures. Send your order in care of your NASWA QSL Editor. It will be processed immediately...Sam.

TGMI.

Que pensais de Cristo?

MATEO 22:12
via Kupp
RADIO "BUENAS NUEVAS"
13020 San Sebastián H.
Huehuetenango,
Guatemala, C. A.



- MOROCCO:** Radio TV Marocaine 17595 f/d cd. in 79 ds. for 3 IRCs. v/s Tanane M'hammed Jamal Eddine. (Hill-NY). "A"
- NAMIBIA:** Namibian Broadcasting Corporation 3270 f/d "Namib Nature Park" cd. w/ schedule in 7 wks. for \$1.00. (Loudell-DE).
- NEW BRITAIN:** Radio East New Britain 3385 f/d "Map" cd. in 11 wks. for ms. v/s Esekia Mael, Station Manager. (Loudell-DE).
- NIGERIA:** Voice of Nigeria 7255 f/d cd. in 3 mo. for 2 IRCs. This was after 3 f/up rpts.
- NORWAY:** Radio Norway International 11927 f/d cd. in 9 wks. Stickers rcvd. (Boulden-CA).
- OMAN:** Radio Sultanate of Oman 11890 f/d folder style cd. for an 88 rpt. and \$1.00. (Mann). 17770 via Thumrait same cd. in 2 1/2 mo. (Barto-CT). 17735 f/d cd. in 1 1/2 mo. for a taped rpt. (Klinck-NY). same in 6 mo. for 1 IRC on my 2nd rpt. (Hazzard-PA). f/d cd. in 15 mo. for a taped rpt. and \$1.00. (Eckert-PA).
- PAPUA NEW GUINEA:** Radio Gulf 3245 f/d form ltr. in 78 ds. for ms. (Hazzard-PA). Radio Sandaun 3205 p/d form ltr. in 2 mo. for ms. v/s Gabriel Deckwalen, Station Manager. (Loudell-DE). Radio Western Highlands 3375 p/d handwritten personal ltr. w/ "Western Highlands Warrior" cd. in 1 mo. for ms. v/s Esau Okole, Station Technician. (Loudell-DE).
- PERU:** Radio Cora OAZAN 4914.6 f/d ltr. w/ cd. and 2 different stickers dell-DE). in 3 mo. for a SP rpt. (Barto-CT). 4915 p/d cd. in 7 mo. for a SP rpt. and \$1.00. v/s Juan Ramirez Lazo. My first Peruvian! (Lare-MI).
- PHILIPPINES:** FREC Radio International 11650 f/d "QSL Team" cd. in 118 ds. Also rcvd. personal ltr., sticker, station and tourist info. (Mayberry-TX).
- RIO MONTI:** Radio Africa 7189 f/d yellow cd. in 6 wks. for \$1.00. (Loudell-DE).
- ROMANIA:** Radio Romania International 15340 f/d "Costume" cd. in 87 ds. Also rcvd. sticker, key chain, calendar, form ltr, schedule and survey. (Mayberry-TX). 9570 f/d "Rose" cd. in 98 ds. (Levison-PA). f/d cd. in 3 mo. (Boulden). f/d "Flowers" cd. w/ schedule in 67 ds. (Levison-PA).
- SARAWAK:** Radio Television Malaysia Sarawak 7160 via Kuching f/d "Broadcasting House" * cd. in 60 ds. (Macharg).

VOICE OF THE MEDITERRANEAN
A Public Service Station on 6800K (9 to 11) Eastern Time

via Klinck

A Joint Maltese - Libyan Venture

Dear listener

Thank you for your reception report of our transmission

on 1st April 1991
at 06:47 - 01:03 UTC
frequency 9765 kHz

We are very glad to verify here with your report.



Joey Hank
43 Lein Road
West Seneca, NY 14224
Nov 1st - America

Not to be taken as an endorsement of the station or its programs. The station is not responsible for any damage or loss of property. The station is not responsible for any loss of mail or other correspondence. The station is not responsible for any loss of time or money. The station is not responsible for any loss of life or limb. The station is not responsible for any loss of anything else.

- SAIPAN:** KHBI 13625 f/d cd. w/ personal ltr. in 31 ds. Tourist brochures rcvd. (Mayberry-TX). same in 222 ds. (Levison-PA). 17555 f/d "DIY" cd. in 30 ds. for ms. (Weber-OH). 11580 f/d "Transmitter Site" cd. in 57 ds. (Dieterich-GER). 9530 f/d cd. in 6 wks. for ms. (Allen-OK).
- SAUDI ARABIA:** BSKSA 21505 f/d cd. in 106 ds. via registered mail. (Hazzard-PA).
- SICILY:** RAI 9515 f/d "Mario Fantini" art cd. in 6 mo. for \$1.00. (Loudell-DE).
- SEYCHELLES:** HBC 15420 p/d ltr. in 107 ds. for \$1.00. (Millard-TX).
- SOLOMON ISLANDS:** SIBC 5020 f/d "Logo" cd. in 6 mo. for \$1.00. (Lare-MI). (Westdal).
- SWAZILAND:** Trans World Radio f/d cd. in 2 mo.
- SWITZERLAND:** Red Cross Broadcasting Service 9885 f/d cd. in 55 ds. Also rcvd. sticker, schedule and station info. (Mayberry-TX).
- SYRIA:** Syrian Arab Republic Broadcasting Service * 12085 f/d cd. w/ sticker in 116 ds. Also rcvd. EG copy of the Syria Times. (Mayberry-TX). same in 1655 ds. after 3 f/up rpts. (Darling-PNG). same via registered mail for 2 IRCs. in 4 mo. (Westdal).

TAIWAN: WYFR 11550 via Voice of Free China f/d "Logo" cd. in 29 ds. for 2 IRCs. This is believed to be a Taiwan relay but no mention on the cd. (Comeau-MA). Voice of Free China 5950 f/d "Art Work by Orphans" cd. w/ schedule and sticker in 20 ds. (Livingston). Central Broadcasting System 6087 f/d "Logo" cd. w/ stickers in 3 mo. for 2 IRCs. (Loudell-DE).

TAMPER: VOA 17715 f/d cd. in 2 mo. (Millard-TX).

TIBET: Tibet PBS 4750 p/d handwritten personal ltr. in 161 ds. Also rcvd. program * schedule. v/s Lobsang Chonphel, Announcer. (D'Angelo).

TOGO: Radiodiffusion Television Togolaise 5047 p/d cd. in 32 ds. for a FR rpt. and 2 IRCs. (Dieterich-GER).

NOTES: Brian Boulden echoes a thought that I've had for quite a while. He says that he has sent between 12 to 15 very detailed reports to the Voice of America in the past 6 months...without a single reply. Is this a policy or just something new? I have wondered during the past few years if this reaction by the broadcasters along with the increase in international postage is beginning to signal the demise of the entire QSLing aspect of our hobby? To the VOA we can add Australia, Belgium, Finland, Denmark, Canada, etc...Sam. Bill Taylor writes in to say that he has lowered his QRP totals to 10.48 actually 10.185 if one counts the Lumpfish. Hi! Why not count it, I did...Sam.

UKRAINE: Radio Kiev 17690 f/d cd. w/ form ltr. in 97 ds. (Levison-PA). f/d "Nikolai Pimonenko at the Well" painting in 70 ds. for 1 IRC and a postcard. Also rcvd. postcard and station schedule. (Westdal). 11770 f/d cd. in 56 ds. w/ form ltr., stickers and schedule. (Levison-PA). 17690, 9750 and 15180 f/d cd. in 77 ds. (Levison-PA).



NEW PUBLICATION NOW AVAILABLE: The new and revised third printing of Station Pennants of the World is now available for distribution. The first part covers North and South America along with the Caribbean and Central America. It contains nearly 240 pages, over 1,000 individual listings of station pennants and almost 700 illustrations! Copies will arrive prepunched so they can be placed in a sturdy binder. This book has been completely revised from the original with much larger illustrations. The complete cost, which includes postage, is \$14.00. Please send your order to your NASWA QSL Editor.

Next month we will be offering the edition containing Europe, Africa, Asia, Oceania and the Near/Middle East....Sam.

USA: WCSN 15610 f/d "DIY" cd. in 20 ds. for ms. (Weber-OH). 21640 f/d "Station Photo" cd. in 50 ds. (Livingston). 13595 f/d cd. in 46 ds. (Darling-PNG). KITH 7510 f/d cd. in 1 mo. (Darling-PNG). 15590 f/d "Towers/Mountains" cd. in 46 ds.

for ms. (Mann-NE). same in 15 ds. for ms. (Buer-FL). WSTH 9495 f/d cd. in 34 ds. (Darling-PNG). 15610 f/d "DIY" cd. in 21 ds. for ms. v/s Judy P. Cooke. (Weber-OH). WINI 15145 f/d cd. in 3 wks. (Boulden). f/d cd. w/ schedule in 94 ds. (MacHarg). WRNO 7355 f/d "Trump Plaza, Lets Talk Sports" cd. in 9 ds. for ms. v/s Dave Coskey, Program Director. (Weber-OH). Radio Marti 9525 via VOA f/d cd. w/ personal ltr. and schedule in 102 ds. (Mayberry-TX). VOA Delano 9815 f/d cd. in 20 ds. (Blumstein). 11580 f/d "Bicentennial Commemorative Stamps" cd. in 24 ds. w/ pennant and sticker. Also rcvd. large sheet of stickers, schedule, report forms, and a book on the US Constitution! (MacHarg)....Brian, your not getting any replies because they are too busy answering overseas reports. Your tax dollars have to do something...Sam. f/d cd. w/ schedule in 2 wks. (Livingston). Organization of American States - QAS 15160 f/d cd. w/ schedule in 18 ds. (Livingston-CA).

USA (Pirates): Voice of Pancho Villa 7415 f/d pink colored "Power of Stupidity" cd. in 17 ds. (D'Angelo-PA). Voice of Bono 7410 f/d large blue "Logo" cd. #26 in 54 ds. w/ personal ltr. for a rpt. to the Baltimore addr. (Stephens-AL). WJDI 1620 f/d large cd. in 155 ds. v/s George Dunahue, Chief Engineer. (Levison-PA). He Man Radio 7415 f/d "Strongman Holding Up The World" info. sheet in 62 ds. for a rpt. to the BRS address. (Zeller-OH). Defiance 90 7416 f/d "Burning Molotov Cocktail" info. sheet in 29 ds. for a rpt. to the BRS address. (Zeller-OH)....more to follow...Sam.

VERIFICATION CARD

Thank you very much for your reception report on our broadcast.

The information given is in accordance with our schedule. We hope you will continue to enjoy our programmes and send us your thoughts about them.

受信報告ありがとうございます。内容はラジオ日本の放送と合致しております。これからも番組についてのご感想をお寄せ下さい。

RADIO JAPAN
NHK TOKYO 150, JAPAN

Wooden Doll Dressed in Kimono

Dear Mr. Richard A. D'Angelo

We are pleased to confirm that the station you heard is Radio Japan, and the details are as follows:

DATE: 3rd March 1991
TIME: 01:59 - 02:30 (UTC)
FREQUENCY: 11840 KHz (25 mb)
TRANSMITTER SITE: EKAMA, Sri Lanka
SERVICE: Regional Service in Bengali
We are looking forward to hearing from you again soon.

We wish you very good reception condition.

Good Night & 73 or 83 !!
Kumtoshi Hattihama
K. Hattihama



USA (Pirates): Radio Garbanzo 7386 f/d ltr. w/ a personal note in 4 mo. for a rpt. to the Wellsville address, and 3 ms. (Bolitho-ONT). **KUSA** 7415 f/d "A Free Country Should Have Free Radio" certificate suitable for framing in 3 wks. for ms. (Taylor-PA). **East Coast Beer Drinkers** 7415 p/d ltr. in 4 wks. for ms. (Kohlbrener-PA). f/d ltr. in 1 mo. for ms. (Taylor-PA). **Midnight Radio** 7410 f/d gold "Logo" cd. in 117 ds. w/ a personal note stating that they were not busted by the FCC. Reported to the BRS addr. v/s Maxwell Silver, Program Director. (Stephens-AL).

SPECIAL OFFER: Earlier in the year we offered a package containing enclosures/gifts for your reception reports. This included such items as pennants, badges, pins, decals, stickers, etc...It was received very well. We are now making a second offer. This will include the following: 10 badges, 2 calendars, 2 pens, 1 patch, 1 hat, 1 pennant, 8 different pirate mini-posters, 3 different pirate QSL cards, 2 BBC posters and 10 decals or stickers. The cost of the entire package is still only \$5.25 - this includes postage. A double order will run \$10.00. Send your order to your NASWA QSL Editor.

WLIS 7415 f/d "Tan McFarland Announcers" cd. in 18 ds. for a rpt. to the BRS address. v/s Charles Poltz, Chief Verification Signer. (Stephens-AL). 7412 ltr. type QSL in 3 wks. (Field-MI).

USSR: Radio Moscow 15425 f/d "Arbat Square" cd. in 67 ds. (Livingston). 15295 same cd. in 12 wks. v/s Mrs. Olga gorbick, African Service. (Kohlbrener-PA).

UZBEK: Radio Tashkent 5945 f/d "Logo" cd. in 106 ds. after a f/up rpt. for ms. v/s Mrs. Nadira Babadjanova, Correspondence Section. also rcvd. postcards and a personal note. (Brouillette-IL). 5925 f/d cd. w/ schedule and postcards in 65 ds. (MacHarg).

VATICAN CITY: Radio Vatican 11830 f/d "Microwave at Transmitter Site" in 120 ds. Schedule was rcvd. (MacHarg). f/d cd., postcard and schedule in 1 mo. Stickers were rcvd. (Westdal). 9635 f/d "Rotating Antenna" cd. w/ schedule in 96 ds. (Mayberry-TX). 9605 cd. in 67 ds. w/ schedule for 1 IRC. (Batson-WV). 17730 f/d cd. in 6 wks. (Boulden-CA).

VENEZUELA: YVTO 5000 p/d "Observatorio" cd. in 90 ds. for \$1.00. v/s Fernando Aranda. (Lare-MI). f/d cd. w/ info sheets in 52 ds. for a SP rpt. and ms. (Hazzard-PA). p/d cd. in 103 ds. for \$1.00. (Fanderys-OH). f/d cd. in 2 mo. for 1 IRC. (Boulden). **Radio Continental** 4940 f/d cd. in 40 ds. for a SP rpt. and ms. This was on my 3rd try. (Hazzard-PA). f/d "Logo" cd. in 53 ds. for a SP rpt. and 1 IRC. (MacHarg).

VIETNAM: Voice of Vietnam f/d cd. w/ schedule in 5 1/2 mo. for 1 IRC. (Westdal).

WEST BERLIN: RIAS 6005 f/d cd. in 14 ds. (Prisco-PA). f/d cd., w/ stickers and postcards in 29 ds. for 2 IRCs. My report was for the day before the reunification. (Darling). f/d cd. in 31 ds. for \$1.00. (Lawrence-CA).

YUGOSLAVIA: Radio Yugoslavia 15165 via **Beograd** f/d cd. w/ schedule in 11 wks. This was after 3 tries. (Wallace-CT). 6110 f/d cd. in 85 ds. (D'Angelo-PA). 11735 f/d "Town of Ohrid" cd. in 289 ds. (Fanderys-OH). f/d "Panorama" cd. in 2 1/2 mo. (Grenier-NV).

A FEW LATE REPORTS:

ABU DHABI: UAE Radio 13604 p/d folder cd. in 21 ds. w/ schedule. (Dieterich-GER). 11985 same in 34 ds. for 1 IRC. v/s Ahmed A. Shoult, Director. (Lawrence-CA). 21725 cd. w/ schedule and ltr. in 1 mo. (Darling-PNG).

AUSTRIA: Radio Austria International 6155 f/d ltr. in 23 ds. for a GM rpt. Schedule was rcvd. along w/ station info. (Dieterich-GER).

CANADA (Pirates): CSIC Radio International 6847 f/d "Pregnancy Test" cd. in 3 wks. for ms. (Bolitho-ONT). **Radio Beaver** 15044 f/d ltr. in 3 wks. for a rpt. to Merlin, ONT address. v/s Niel Wolfish. (Bolitho).

CFRN Fly By Night Radio 7415 f/d cd. in 5 wks. for a rpt. to the Wellsville address. (Bolitho-ONT).

CHINA, PEOPLES REP. OF: Fujian PBS 2340 f/d "Mountain in Clouds" cd. in 70 ds. (Lawrence-CA). **Radio Beijing** 9665 via **Shijiazhuang** f/d "Silk Figurine" cd. in 21 ds. (Lawrence). **Cansu PBS** 3940 f/d folder cd. in 24 ds. (Lawrence).

CYPRUS: BEC 7125 n/d cd. in 141 ds. for 2 IRCs. (Brouillette-IL).




VERIFICATION SIGNERS: Radio Santa
Cruz 6135 Padre Victor Blajot, Director. Addr: I.R.F.A. Cruz, Casilla 672, La Paz. **Emisoras Ecas del Atrato** 5020 new Addr: Casa de la Cultura, Quibdo, Choco. **La Voz de la Nahuala** 3360 Juan Fidel Lepe Juarez. **Radio TV Kaduna** 4770 J.D. Alle. Addr: P.O. Box 250, Kaduna. **TWR Swaziland** 4790 Carol Tatlow...
 ...via **PLAY/DX**.....Sam

QSL
 Verification Card
 12 FEVR. 1991

Station Radio Cameroon - Yaounde
 For Benjamin Krepp

Thank you for your reception report. We are pleased to verify your reception of our transmission on 9 Dec. 1990 from 2200 hours 2215 on 4850 kHz. with a power of 100 W watts.



J. J. ...
 X CRTR P.O. Box 986,
 Yaounde, Republic of Cameroon.

NOTES: Mike Hardester sent us a reply that he recently received from the USPS regarding the use of IRCs. It would appear that they may have some redeeming value once again. The letter reads as follows: 'thank you for your letter...requesting information about IRCs. IRCs are now exchangeable in any country for one or more postage stamps representing the minimum postage prepayable on an unregistered letter sent abroad by air. Whereas before Jan. 1, 1991, an IRC was exchangeable for the minimum postage for a letter sent by surface. Additional IRCs were required for an air letter....Sincerely, Fern a. Burns, International agreements and studies branch'....thanks mike...Sam. **Mr. Mayberry** in Texas, who works for KLBJ-FM in Austin, as part of his job frequently interviews various rock stars. In a recent interview with **Roger McGuinn** of the Byrds, it was brought out that Roger is an avid SWLer. He requested a sample of the NASWA Journal. Maybe we'll have a new member...Sam.



- ENGLAND: British Forces Broadcasting Service** 15670(USB) cd. in 40 ds. for SASE. v/s Richard Astbury, Station Manager.(Darling-PNG).
- EUROPIRATE: Radio Perfekt** 7293 via **Radio Europe** f/d ltr. in 28 ds. for ms. Also rcvd. personal ltr.(Dieterich-GER)....This station is in Italy.
- HUNGARY: Radio Budapest** 7220 f/d "Nagycekn" cd. w/ schedule in 38 ds. for 1 IRC and a GM rpt. An info. paper said they will reduce their schedule starting July 1. Tests are being planned for 7490khz. Also some transmitters will be put to rest.(Dieterich).
- LUXEMBOURG: Radio Luxembourg** 6090 f/d cd. in 17 ds. Lots of stickers rcvd. w/ some station info.(Dieterich-GER).
- MALTA: Voice of the Mediterranean** 9765 f/d cd. in 41 ds. for 1 IRC.(Lawrence).
- MONGOLIA: Radio Ulan Bator** 4995 f/d "Geometric Symbols" cd. w/ postcard and schedule in 60 ds. for \$1.00.(Lawrence-CA). (Dieterich).
- NEWFOUNDLAND: CFCZ** 6160 p/d "CBC Newfoundland" cd. in 15 ds. for 1 IRC.(returned)
- ROMANIA: Radio Romania International** 11940 p/d cd. in 72 ds. for 1 IRC. Also rcvd. key ring, schedule and a questionnaire.(Dieterich-GER).
- SWITZERLAND: Swiss Radio International** 6165 p/d "Studio/Building" cd. in 10 ds. w/ info. on station and a schedule.(Dieterich).
- TAIWAN: Voice of Asia** 7445 f/d "Chiang Kai-Shek Memorial Hall" cd. in 33 ds. Also rcvd. postcard, listener survey, sticker and schedule.(Lawrence). **HSP Time Signal Station** 15000 f/d "Laboratory Building" cd. w/ station info. in 32 ds. for 1 IRC.(Lawrence).
- UKRAINE: Radio Kiev** 15330 f/d "Art" cd. in 79 ds. for a GM rpt. Sticker and station info. was rcvd.(Dieterich-GER). (Dieterich-GER).
- USA: Radio New York International** 7355 via **WRNO** f/d folder cd. w/ schedule in 89 ds.

Well I guess this will wrap up yet another NASWA QSL Column. I have been trying to remember just how long I've been doing this Column. [Some of you no doubt will say too long!] Anyway, I think it has been somewhere around 20 years. It seems that long but I do enjoy typing it.


Anyway, best of DXing and keep the QSL reports pouring in.....Sam.

Sam

QSL CARD
 GHANA BROADCASTING CORPORATION
 P. O. BOX 1832,
 ACCRA, GHANA

Dear Sir/Madam,
 Thank you for your reception report of our transmission(s) on 2366 kHz heard at 2254 - 2305 G.M.T. on 5TH MARCH 1991
 We have pleasure in verifying your report which is much appreciated.

via Rich D'Angelo 
 18.3 1991
 28/03/1991
 For Director-General

Contributors' Page

Vernon Hyson
9835 Lone Eagle Lane
Charlotte, NC 28215



LOGGINGS CONTRIBUTORS - AUGUST 1991 - DEADLINE 10th of MONTH

The following members contributed loggings:

Jerry BERG, Lexington, MA	HQ180A R390A 150' LW
Brian BOULDEN, Fairfield, CA	RK641 Indoor LW
John CARSON, Norman, OK	NRD525 NC183D ATS803A SPR4 AD Sloper 500' Beverage
David CLARK, Newmarket, ONT	NRD515 51J3 3-500' Beverage 60/90m Dipoles
Ross COMEAU, Andover, MA	R70 AD Sloper
Richard D'ANGELO, Wyomissing, PA	NRD535D Eavesdropper
Marlin FIELD, Hillsdale, MI	R2000 Sony 2010 TUN3 140' LW 85' Dipole
William FLYNN, Cave Junction, OR	HQ180A HQ150 Butternut HV5 Antenna
Harry HELMS, San Diego, CA	R71A MAP AD370
Hans JOHNSON, Columbia, MD	DX302 Zenith Transoceanic
Rufus JORDAN, Pittsburgh, PA	
W KARCHESKI, Holden, MA	
Jim KAUPPILA,	Jim, I lost your QTH - please send with rig info. Tnx!
Harold LEVISON, Philadelphia, PA	R70 D2999
Sheryl PASZKIEWICZ, Manitowoc, WI	NRD515 NRD515 Eavesdropper Random Wire
Martin PECK, New York, NY	NRD515 R71A FRG7
Doug ROBERTSON, Oxnard, CA	DX302 FRG8800 FRA7700 Long Wire
Frank STYRON, Raleigh, NC	HQ180 MFJ1024 Antenna
Tom TABATOWSKI, Indianapolis, IN	Sony 2010 MFJ956 70' Dipole
Robert TUCKER, Jr, GA	ATS803A
Dan A. UNRUH, Ellensburg, WA	R71A S107 Random Wire
Richard WALLACE, Danbury, CT	DX440 S108 TUN4
Dave WEINRICH, Fargo, ND	ATS803A TUN4 Random Wire
Mike WOLFSON, Ashland, OH	R5000 Sony 2010 125' Longwire
Robert ZILMER, Rio Rancho, NM	NRD525 R7 3-Antennas

NOT OTHERWISE CLASSIFIED

Don't panic Bill, I'm not starting another classified area - - just a reminder to those who use Compuserve to send me your reports. Please include your City & State along with your equipment so we can give you proper credit. Thanks in advance for this!! I check Compuserve on the 10th after 2359 UTC so feel free to send any last-minute items - there's always room for some more! I think the quality of the summer logs has been excellent with good sounds being captured. Our TV was hit by lightning & that is getting just too darn close to the NRD for my comfort. It does wake one up when it hits tho!! Glad I didn't have my receiver on or my earphones on!

COMPUSERVE REMINDER ID# 76516,1531

'Till next month, Good DX, Happy Listening & 73s,



Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220

Welcome to the 25th Anniversary Edition of NASWA and the Journal. I wish I could show you what this column or its equivalent looked like in August, 1966; but I've only been in the club for nine of those 25 years. With the summer DX doldrums upon us, there's still good loggings to read. It's also not too early to plan a DXing strategy for the upcoming fall season. Perhaps the feature at the end of the column will be of help.

- 1620 USA, WNFx, 6/28, 0105 still having trouble getting the call letters, now w/regular pgm of tourist & parking info for Virginia Beach. (Johnson-MD)
- 3205 BRAZIL, R. Ribeirao Preto, 6/19, 0209-0230 w/pop mx, M annr, real heavy fadeout, SIO=232. (Wallace-CT)
- 3222 TOGO, Rdr. Kara, 7/14, 0523 tone, IS, NA, ID, choral mx, not //5047 Lome. (Johnson-MD)
- 3235 NEW BRITAIN, R. West New Britain, 6/16, 0850 C&W mx, tlk. Other PNGs also in better than usual. (Clark-ON)
- 3270t NAMIBIA, NBC, 6/11, 0139-0217 EG pops, Grass Roots, Joni Mitchell, FC, fade in of pres. Ecos del Oriente 0215. (Comeau-MA) Thanks a lot for writing in--sp.
- 3300 GUATEMALA, 7/3, 0257 "Thru the Bible," ID, rel pgm, SIO=232. (Carson-OK) 6/26, 0300-0330 rel pgm, ID, "TGNA in Guatemala," poor. (Tabatowski-IN) Your loggings were interesting--welcome!--sp.
- 3320 SOUTH AFRICA, R. Orion, 6/9, 0000-0100 EG/AK, ID 0002, pop mx, fair sig. (Tabatowski-IN) 6/2, 0143 actually on 3318, much QRN, ID, "Baby I Love Your Way." (Comeau-MA)
- 3330 UNID, 6/25, 0301-0305 het, then tlk by M in FR, under CHU. Hoping for reactivated Comoros. (Paszkiewicz-WI)
- *3330.1t COMOROS, 7/6, 0340 tlk in lang, also 7/9, 0315 tlk, AR sounding vcls, chants, peaked 0320 (sunrise). Difficult under CHU, not //6055 Rwanda, suspect Comoros w/new 60 kW xmtr, only modest carrier on Rwanda 3330.4 (Clark-ON)
- 3339 PERU, R. Altura, 6/11, 0108-0132 tlk, ads, ID 0117, huaynos, ment Altura 0128, much QRN. (Comeau-MA)
- 3345 MOLUCCAS, RRI Ternate, 6/19, 1349-1358* romantic vcls, W annr, SCI to s/off, weak. (Flynn-OR)
- 3365.7 CUBA, R. Rebelde, 6/11, 0256 tlk, Cuban mx, slogan, TC 0304 ID 0305, good. (Karcheski-MA)
- 3385 BRAZIL, R. Educacao Rural, 7/13, 0130 mx, anmts, ID 0200, just an open carrier minutes later. (Johnson-MD)
- 3905 NEW IRELAND, R. New Ireland, 6/16, 0910 TC in EG, choral (rel) mx. (Clark-ON)
- 3945p VANUATU, R. Vanuatu, good over QRN, native singing, also hrd SIBC 5020 like a local. (Clark-ON) This on 6/16, 0915.
- 4607t IRIAN JAYA, RRI Serui, 6/18, 1341-1401 romantic vcls, IN dedications, no ID, very weak. (Flynn-OR)
- *4750 CLANDESTINE, Vo the Mojahed (Persian: Saday-e Mojahed) 7/4, 0130, tnx DXLD tips. Same pgm as 6540 but not //. Some delay between them. 6540 strongest. (Johnson-MD)
- 4761 VENEZUELA, R. Frontera, 6/1, 0150 tlks & IDs, poor-fair. (Paszkiewicz-WI)
- 4765 CONGO, RTV Congolaise, 6/2, 2349 FR tlk, IDs, mx, 2359 full ID, NA to 0000* very good sig. (Karcheski-MA)
- 4799.8 GUATEMALA, R. Buenas Nuevas, 7/6, 1107 w/trad LA mx, full ID, SIO=333. (Carson-OK)
- 4820.8 PERU, R. Atahualpa, 7/14, 0445 in USB to avoid HRVC. Mx & closing anmts, hard to understand because record was still playing, ID, NA to 0504* (Johnson-MD)
- 4825 BRAZIL, R. Cancao Nova, 6/25, 0245-0300 tent. ID, //6105, 9675. (Weinrich-ND)

- 4840 PERU, R. Andahuaylas, 6/17, 0117-0122 tlks, Andean mx, ID 0122. (Comeau-MA) Yr loggings were just fine--sp.
- 4845t MOLUCCAS, RRI Ambon, 6/20, 1412 IN vcls, discussion which seemed Jakarta relay, bad hum! Difficult. (Flynn-OR)
- 4850 VENEZUELA, R. Capital, 6/25, 0237-0245 w/ballads, tlks, ID 0244. (Paszkievicz-WI)
- 4885 COLOMBIA, Ondas del Meta, 6/10, 0245-0330 "Bridge over the River Kwai" theme, anmts, IDs, speech, TCs, poor. (Jordan)
- 4890 SENEGAL, ORTS, 6/1, 2351-0021 FR hilife mx, ID 2359, one tone, mx, mx 0005. SIO=353. (D'Angelo-PA)
- 4895p BRAZIL, R. IPB AM, 6/11, 0245-0303 long tlk, mx bridges, lcl TCs, ment. Campo Grande, anmts. (Paszkievicz-WI)
- 4910 HONDURAS, LV de la Mosquitia, 7/3, 0220-0229* exotic instls, sounded Indian, SP/EG IDs, poor. (Jordan-PA)
- 4915 BRAZIL, R. Anhanguera, 6/10, 0155-0230 w/pops & ballads, ment Sao Paulo sev times, folk mx, ads. (Jordan-PA)
- 4915 GHANA, GBC, 6/16, 0600 EG nx, ID. (Weinrich-ND)
- 4918.3 BRAZIL, R. Relogio Federal, 6/21, 0240-0301 TC & 3 pips every minute, ads, jingles, fair. (Flynn-OR)
- 4927 SUMATRA, RRI Jambi, 6/21, 1336-1355 IN discussion, pops, fairly good. (Flynn-OR)
- 4930 DOMINICAN REPUBLIC, R. Barahona, 6/16, 0320-0357* lively mx, 0353 ID & s/off anmts, 0354 chorus, anthem, SIO=353. (D'Angelo-PA)
- 4934 KENYA, KBC, 6/5, 0157-0239, flute IS, "This is KBC, Nairobi," anmts, mx, fair. (Comeau-MA)
- 4940t SRI LANKA, SLBC, 6/21, 1328-1334 EG pops, 6 TP on half hour, W anncr, over the pole--weak. (Flynn-OR)
- 4975 BRAZIL, R. Tupi, 7/14, 0510, ID, anmts, drama. (Johnson-MD) When I first looked at this, I thought the numbers were transposed because it said 4795 so I switched it. However, Hans ment he thot he hrd something about 2 stations sharing a xmtr so maybe he did mean 4795--sp.
- 4980 VENEZUELA, Ecos del Torbes, 6/25, 0157-0208 mx pgm & ID 0159. (Weinrich-ND) 6/17, 0230-0330 mx, tlk, ID, fair. (Tabatowski-IN)
- 5004.8t BOLIVIA, R. Libertad? 6/25, 0133 EZL mx, anmts, nx, mx, "Aqui esta es R. ?(Libertad?)" No ads hrd. WoR ment R. Cristal left the air & a R. Libertad is now here. (Johnson)
- 5025 BRAZIL, R. Transamazonica, 6/23, 1015-1041 mx, ads, ID 1030, Stevie Wonder mx. (Wallace-CT)
- 5025 CUBA, R. Rebelde, 6/17, 0200-0400 pop mx, ID 0219, good. (Tabatowski-IN)
- 5035 BRAZIL, R. Aparecida, 6/19, 0128-0150 mx, M anncr, "Didn't We Almost Have it All," ads, ID, SIO=423. (Wallace-CT)
- 5040 ECUADOR, LV del Upano, 0157-0204, s/off anmts, NA, ID. (Uomeau-MA)
- 5047t TOGO, RTV Togolaise, 6/18, 0526 xylophone IS, NA. (Weinrich-ND) Most likely them--sp. 6/2, 2325 FR mx, TCs, ID 2328, Tom Jones singing "My Way." (Karcheski-MA)
- 5055 FRENCH GUIANA, RFO Cayenne, 6/11, 0301 FR tlks, MOR mx. (Karcheski-MA)
- 5062 ECUADOR, RN Progreso, 6/29, 0225-0240, ID 0230, echo effect ads & tlk by W 0235. (Wallace-CT)

Reporters from 8 states and 1 Canadian province this time. Remember to send in your most recent loggings. For instance, if you are sending logs for the September issue, they should be no older than July. Vern Hyson's deadline is the 10th and mine is the second last Saturday of the month.

Please join me on the next page, where I will outline which Brazilian stations in the tropical bands belong to which Brazilian state. I did not include stations which are never heard in North America. This might help you plan towards the NASWA Brazilian award, requiring QSLs from Brazilian stations in each of 20 states--not an easy task but a well deserved award when it comes.

1.	<u>ACRE</u>		10.	<u>PARA</u>	
	R. Transamazonica	3255		R. Sentinela da	
	Rdf. Sena Madureira	4117 ^v		Amazonica	3285
	R. Verdes Florestas	4865		R. Liberal	3325
	Rdf. Acreana	4885		R. Educ. Braganca	4825
2.	<u>AMAZONAS</u>			R. Clube do Para	4885
	RN Sao Gabriel da			R. Marajoara	4955
	Cachoeira	3275		R. Jornal da	
	R. Educ. Rural, Tefe	3385		Transamazonica	5025
	Rdf. do Amazonas	4805		R. Cultura do Para	5045
	R. Cabocla, Benjamin		11.	<u>PIAUI</u>	
	Constant	4815		R. Pioneira	5014
	R. Cabocla, Manaus	4845	12.	<u>PARANA</u>	
	R. Bare	4895		R. Alvorada,	
	R. Alvorada, Parintins	4965		Londrina	3335
	R. Educ. Rural, Coari	5035		Rdf. Londrina	4815
3.	<u>AMAPA</u>		13.	<u>RIO DE JANEIRO</u>	
	R. Equatorial	3375		R. Relogio Federal	4905
	Rdf. Macapa	4915		R. Cult., Campos	4955
4.	<u>ESPIRITO SANTO</u>		14.	<u>RIO GRANDE DO NORTE</u>	
	R. Capixaba	4935		R. Poti	4965
5.	<u>GOIAS</u>		15.	<u>RONDONIA</u>	
	R. Anhanguera, Goiania	4915		R. Caiari	4785
	Rdf. Jatai	4935		RN Porto Velho	4945
	R. Brasil Central	4985	16.	<u>RORAIMA</u>	
6.	<u>MARANHAO</u>			Super Radio	4875
	Rdf. do Maranhao	4755	17.	<u>SAO PAULO</u>	
	R. Timbira	4976		R. Sao Carlos	2420
7.	<u>MINAS GERAIS</u>			R. Ribeirao Preto	3205
	R. Clube Varginha	3245		R. Universitaria	3325
	R. Congonhas	4775		R. Cultura,	
	R. Itatiaia	4805		Araraquara	3365
8.	<u>MATO GROSSO DO SUL</u>			R. Cancao Nova	4825
	Rdf. Aquidauana	4795		Super R. Tupi	4975
	R. IPB AM	4895		R. Aparecida	5035
9.	<u>MATO GROSSO</u>		18.	<u>TOCANTINS</u>	
	R. Clube Rondonopolis	4955		R. Anhanguera,	
				Araguaina	4905

My reference source for this info was the 1991 WRTH. Some frequencies are variable. Take great care in identifying Brazilians. Not only do more than one station share some of these frequencies but also more than one Brazilian. Once you've DXed Brazilians for awhile, you will get used to the sound of them. So you may be asking, how can I hear 20 states when you've only listed 18? Well, you'll have to go beyond the tropical bands for those. Check Wallace Treibel's column for more Brazilians and check your WRTH for exact locations. Happy hunting! Remember your name could be here. Once again, thank you to all who contributed, especially newcomers TOM TABATOWSKI of Indianapolis, IN and ROSS COMEAU of Andover, MA!

International Band Loggings

5901-30000 kHz

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



- 5984 GUATEMALA Adventist World Radio in SP 0345, nx, tlks, ID 0400, f-g (Wallace CT)
- 6015 CANADA R Austria relay in EG 0533, nx, civil strife in Yugo, g (Carson OK 6/28)
- 6020 PERU R Victoria in SP 0000, LA mx, tlk on explorers (Tucker GA 5/27)
- 6040 ANTIGUA Deut Welle in EG 1000, nx, cmntry, Dixie jazz, site ID (Comeau MA 5/26)
- 6045 URUGUAY R Libertad Sport in SP 0030, ID, S-9+ til DW s/on 0057 (Johnson MD 6/7)
- 6055 RWANDA R Repub Rwandaise in FR 0300, Afro mx, ID, NA, fqys, vg (Clark ONT 7/9)
- 6070 CANADA CPXK Toronto in EG 0619, CFRB relay, mx, ads (Boulden CA 6/25)
- 61158 COLOMBIA La Voz del Llano in SP 0651, lite tlk, ezl mx, ID, f (Carson OK 6/19)
- 6120 BRAZIL R Globo in PT 0027, tlk, network ID 0030, stn ID 0100 (Johnson MD 6/26)
- 6140 BURUNDI RIVN du Burundi in FR 0256+, drum IS, ID's, anthem, YL tlking over pipe at opening, single gong 0305, native chants, vg (Clark ONT 7/9)
- 6140 AUSTRALIA ABC Perth in EG 2358, lcl nx, country mx (Johnson MD 6/8)
- 6150 BRAZIL R Record in PT 0010, tlk, ID, no sign of Colombia this hr (Johnson MD)
- 6160 CANADA CKZU Vancouver in EG 0710, US jazz, cmntry, relay CBU (Robertson CA 6/10)
- 61739 PERU R Tawantinayo in SP 0038, ID at 0047, het from BBC 6175 (Johnson MD 6/11)
- 6296 VIETNAM? Son La BC Stn(t) in lang 1359*, chorus, quick s/off, p (Flynn OR 6/17)
- 7105 ASCENSION IS. BBC relay in EG/FR 0632, EG lang lesson, f (Carson OK 6/23)
- 7110 ETHIOPIA V of Ethiopia in Amharic 0335, tlk, pop mx, krar melody (Peck NY 6/28)
- 7140 AUSTRALIA RA in EG 1025, international rpt, mx, exc (Carson OK 7/6)
- 7255 BOTSWANA R Botswana in EG/FR 0305-0432, nx in EG, ID 0403, US pops, Afro mx, choir in EG & African langs, tlks, cmntry (Weinrich ND, Wallace CT)
- 7315nf? YUGOSLAVIA Croatian R Zagreb in CR/EG 0040, tlk re border clashes in Slovenia and Croatia between local forces & Yugo Army, ID 0045, g (Peck NY 6/28)
- 8638 AUSTRALIA VNG Time Stn w/time pulses each sec 0613, //16000 (Helms CA 7/4)
- 9022 IRAN V of Islamic Rep in Farsi 0114, YL reading, mx (Wolfson OH 6/29)
- 9395 GREECE V of Greece in GK 0118, nx, ID 0123, //9425, 11645 (Wolfson OH 6/29)
- 9510 ALGERIA R Algiers in EG 1912-1958, nx, western mx, ID's (Comeau MA)
- 9510 ROMANIA RRI in EG 0208, nx, lcl mx, mailbag, feature (Tucker GA 6/2)
- 95404 VENEZUELA RN Caracas in EG/SP 0340, ID, address in EG (Weinrich ND 6/26) in EG/FR 0044, world & LA nx, FR nx 0055, off 0106 w/IS & ID in SP (Carson OK 7/11)
- 9555 PORTUGAL RP in PT 0208, tlks, ID 0211, taped mx, //9600, 9635 (Wolfson OH 6/30)
- 9600 ASCENSION IS. BBC relay to Africa in EG 0329, "Network Africa" (Weinrich 6/18)
- 9620 YUGOSLAVIA R Skopje in Macedonian 0105, interview, ID 0112, g (Peck NY 6/24)
- 9660 GERMANY R Liberty(t) in Kazakh? 0120, tlk, folk mx on flute, f (Peck NY 6/28)
- 9670 ANTIGUA D Welle relay in EG 0533-0549*, travel pgm, exc (Robertson CA 6/13)
- 9675 INDONESIA VOI(t) in EG 2007, tlk, ments Malaysia/Jakarta, mx, p (Comeau MA 6/16)
- 9685 TURKEY VOT in TK 0130, tlk, folk dance mx, //9445, radar QRM (Peck NY 6/28)
- 9690 ANTIGUA D Welle relay in GM 0706, nx re Colombian parliament, IS (Robertson CA)
- 9700 NEW ZEALAND RNZ in EG 1017-1207, "Remark On", pop mx (Carson OK, Wolfson OH)
- 9725 COSTA RICA AWR in EG 1154+, ID, "Voice of Prophecy" (Comeau MA 6/1)
- 9735 PARAGUAY RNP in SP 0058, tlk, ID, piano & vocals mx (Comeau MA, Spat NH)
- 9750 SO. KOREA RK in EG 1213, US-Korea relations, IS, ID, fqys (Carson OK, Comeau MA)
- 9765 MALTA V of the Mediterranean in EG *0600, ID, sked, organ mx, tlk show, SP mx, nx on Maltese flag carried on Apollo 11 flight (Carson OK, Flynn OR, Spat NH)
- 9770 NEW ZEALAND RNZ in EG *0730, IS, ID, pop/soft rock, nx, tlks (Jordan PA 6/10)
- 97796 YEMEN RYR Sana in AR 0345, Yemen folk mx, flute, slo tlk, p (Peck NY 7/4)
- 9815 ITALY European Christian R via IRRS in EG 1051, sermon, ID, mx, f (Karcheski MA) in EG 0722, mailbag, f (Comeau MA)
- 116035 ISRAEL Kol Israel in EG 0100, nx, "Calling All Listeners" (Zilmer NM 7/8)
- 11685 FRENCH GUJANA R Beijing relay in EG/CH 0430, feature, exc (Robertson CA 6/10)
- 11735 GABON R Japan relay in EG 2300+, nx, mx, ID (Carson OK, Robertson CA, Spat NH)
- 11760 INDONESIA RRI in IN 0952+, ID's, nx, warbly carrier, f (Clark ONT 6/16)
- 11815 JAPAN RJ Tokyo in EG 1136, mx pgm, "DX Corner", exc (Robertson CA 6/22)
- 11830 VATICAN STATE VR in EG 2252, tlk on ecclesiastics (Tucker GA 6/13)
- 11860 PHILIPPINE IS. FEBC in EG 1400, Questions and Answers pgm (Zilmer NM 7/7)
- 11880 SPAIN REE in EG 0125, nx, cmntry, wx rpt, exc (Levison PA 6/13)
- 11910 HUNGARY R Budapest in EG 0301, ethnic mx w/o interruption, ID, g (Levison 6/3)
- 11910 AUSTRALIA RA in EG 1643, ID, pop mx, nx, exc (Robertson CA 6/9)

- 11938 CAMBODIA V of the People Phnom Penh in Cam 1316*, vocals, ID, f (Flynn OR 6/14)
- 11940 ROMANIA RRI in EG 0417, cmtry on economics, sports desk, f (Carson OK 7/11)
- 11940 LESOTHO BBC relay in EG 0600, nx re conflict in Ethiopia (Wallace CT)
- 12035 SPAIN REE in SP 0631, ID, fqys, sked, cmtry from La Prenza, g (Carson OK 6/19)
- 12984 AUSTRALIA VNG Time Stn in code 0532-0705+, time pulses each sec and CW ID each min, continuous fax-like sigs hrd on 8 & 12 mhz channels (Jordan PA, Helms CA)
- 13605 UNITED ARAB EMIRATES Capital Radio (FM) relay via UAE Radio in EG 2230, contin Western mx, promo for currency exchange pgm hrd daily, f-g (D'Angelo PA 6/30)
- 13625 MARIANAS IS. KHBI in EG 1302, world nx, tennis 50 yrs ago, f (Carson OK 7/1)
- 13660 UNITED KINGDOM BBC London in EG 2130 w/ Falklands xmsn, nx (Tucker GA 6/25)
- 13720 GUAM Adven World R in CH 0630, tlks, ID in EG 0700 (Boulden CA 7/6)
- 13785 NEW ZEALAND RNZ in EG 2000, world & regional nx, ID 2006, p (Karcheski MA)
- 15090 VATICAN STATE VR in EG 2100, relig nx (Zilmer NM) in EG 0504, Cardinal Angelini honored for his work, tlk on WHO and health (Carson OK 7/11)
- 15120 INDIA AIR in Hindi? 1328, IS on tanpura, ID in lang, tlk, mx (Peck NY 6/23)
- 15160 AUSTRALIA RA in EG 0444, TC, ID, lite pop mx, QRM from HCJB, //17715 (Carson OK)
- 15165 NORWAY RNI in EG 2000, "Norway Today", rock mx (Zilmer NM 7/7) EG on Suns only.
- 15170 AUSTRALIA RA in EG 1042, city of Berne discussed, Aust C&W mx (Carson OK 7/6)
- 15170? SOCIETY IS. RFO in FR/TT 0310-0555, island & pop mx, ads (Peck NY, Levison PA)
- 15305 UNITED ARAB EMIRATES Abu Dhabi in EG 2215-2345, AR mx, tlk re the Islamic conquest of Egypt by Amalbn Al-As in 641-42 AD (Spat NH 6/26, Styron NC 7/10)
- 15325 JAPAN RJ in EG 0320, tlk on training YL helicopter pilots (Weinrich ND 6/6)
- 15360 NORWAY RNI in NO 0200, trumpet IS, ID, local & world nx, f (Peck NY 6/28)
- 15365 AUSTRALIA AR in EG 0625, local wx rpt, C&W mx sels, exc (Levison PA 6/14)
- 15375 SPAIN REE in FR 2035, international and modern mx (Tucker GA)
- 15460 USSR R Tashkent in EG *1200-1230*, test tone 1150, IS 1200, ID, fqys & sked, nx, Flks, Uzbek & Indian film mx on folk instruments (Jordan PA 6/19, Peck NY 6/29)
- 15570 MADAGASCAR R Nederland relay in EG 1836, "Newslane", "Media Network" (Carson OK)
- 15640 ISRAEL Kol Israel in EG 0007, "Israel Sound", f (Styron NC 7/19)
- 16000 AUSTRALIA VNG Time Stn in EG, time pulses each second, full ID with fqys on half hr, address on hr (Boulden CA, D'Angelo PA, Helms CA) sigs rptd from 0430-0700.
- 17525 VATICAN STATE VR in EG 1345, relig gospel & messages to Afr (Zilmer NM 6/23)
- 17545 ISRAEL Kol Israel in HB 1731, drama re Gulf war?, tlks, p (Peck NY 6/29)
- 175542 PAKISTAN RP in lang 1400, probably Urdu w/tlk sounding like nx (Zilmer NM 6/23)
- 17575 MADAGASCAR R Nederland relay in IN 1248, tlk on Flamenco mx, f-p (Peck NY 7/4)
- 17680 BELGIUM R Une (RTBF) in FR 0503, nx, ID, mx, ad string (D'Angelo PA 6/27)
- 177402 YUGOSLAVIA RY in EG 1210-1230*, mailbag, pop flash, QRM, p (Carson OK 7/6)
- 17760nf SEYCHELLES FEBA in lang *0415-0430*, IS, ID in EG, tlks, mx, g (Jordan PA 7/2)
- 17795 ITALY RAT in AR 0533, nightingale IS, ID, into AR mx, f-p (Carson OK 7/11)
- 17855 UNITED ARAB EMIRATES Abu Dhabi in EG 2230, ezl mx & DJ, nx, f (Flynn OR 6/20)
- 17855 MOROCCO VOA relay in Armenian 1432, polit tlk, severe QRM UAE, p (Peck NY 6/23)
- 17880 TURKEY VOT in EG 0312, tlk, deep fades & QRM, //9445, p (Peck NY 7/4)
- 17885 GREECE VOA relay in Uzbek 1439, tlk on Yemen, "Yankee Doodle" IS, f (Peck 6/23)
- 17895nf? GERMANY R Free Afghanistan in Dari 0325, Afghan folk mx, ID "Injaw Radio Afghanistan-e Azad", g (Peck NY 7/4)
- 21505 SAUDI ARABIA BSKSA in AR 1506, Holy Qu'ran chants, somber tlk, f (Peck 6/23)
- 21605 UNITED ARAB EMIRATES Dubai in EG 1343, "The Holy Prophet", exc (Carson OK 7/6)
- 21660 ASCENSION IS. BBC relay in EG 1608, world nx, tlk on AIDS (Comeau MA 6/16)
- 21740 AUSTRALIA RA in EG 2133-2345, wx, mx, Int'l rpt (Unruh WA, Robertson CA 6/16)
- 25950 ECUADOR HCJB in GM/EG, ID's, nx, tlk on book of Genesis (Spat NY 6/18)

CLANDESTINE STATIONS

- 63999nf R Vencermos Anti-Salvador in SP 0210, ID's, return to SW band (Johnson MD 6/9)
- 6540 Unidentified hrd nitely since 6/6 s/on 0125, in Farsi?, some jamming, //4750 but does not s/on til 0130 resulting in 5 min delay between the two (Johnson 6/6)
- 9942 La Voz del Cid Anti-Castro in SP 0331, ID, //7340 (Weinrich ND 6/25)
- 17950 V of Free Iraq(p) in AR 2242, polit speech, orch mx, nx, recitations 2310, //9570, 15605 (D'Angelo PA 6/6)

PIRATE STATIONS

- 74141 WHO (USA Pirate) in EG 0124, pop mx, ID, Doctor Who theme, p (Peck NY 7/4)
- 7415 WORK (USA Pirate) in EG 0420, rock mx, New York QTH, ID, p (Peck NY 7/4)
- 7412 WAZU (USA Pirate) in EG 0153, tlk by DJ, rock mx, parodies (Comeau MA 6/9)

English Schedules

Tom Sundstrom

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Prepared 7/24/91 at 4:30 PM.

Thanks to John Carson (OK), Will Pickard (IL), Andy Sennitt (WRTH), Chuck Roswell (TWR Bonaire) and the engineering staff at WSHB for material received.

Notes

The changes this month for RFPI, Costa Rica, reflect the latest program bulletin published by the station. The station has changed to a 7-day-per-week six-hour block of programming, repeated 6 and 12 hours later. When I checked out the schedule, looking for *World of Radio* and *Mailbag*, the programming did not match the printed schedule.

Radio Nacional de Espana, Madrid, began a 24-hour Spanish language World Service July 1. Its inception affected the 00-02 UT English to NA. 11880 now carries Spanish-language programming.

At least one of the Georgia releases (20 UT on 11760) can be heard here. Bob heard it on July 22, and both of us heard it on the 23rd. The signal is quite strong, but the audio is badly distorted and it is difficult to understand what is being said. Hopefully the audio quality will improve.

Iceland can be heard on 9265 all evening long, but we did hear the news in English at 0730. The signal was not terribly strong, but it was readable through the atmospheric crashes.

Africa

Bob Brown and I have been have some fun in mid-July chasing around the Africans in the tropical bands. We've encountered some good openings around our sunset and transmitter sunrise. Many regulars and some sunrises were heard. You ought to take a look. We found the Voice of Nigeria in English at 05 on 7255 with a very strong signal, but it seems like the programming was already in progress. While looking for VoN's actual start time, I found the marvelous Botswana barnyard interval signal commencing at 0345 or 0350 prior to the start of programming at 0400. I don't know why these two stations on the same continent operate on the same frequency. Both are strong and are heard on the Panasonic RFB-65 portable with its whip antenna.

Attention NRD-535 Owners!

Three IBM PC-compatible software packages are now ready for immediate shipping. The award-winning *English Language SWBC Schedules* program now loads frequencies into the VFO or receiver memories. Load the memories of the receiver with files you create using the *NRD-535 Memory Manager*. The NRD-535 has a single event clock, but like programming a television VCR set up the PC in the *NRD-535 Event Management* to turn the receiver and tape recorder on and off to capture multiple shows when you can't be around to listen. For a catalog, send a business-size SASE to TRS Consultants, PO Box 2275-NA, Vincentown, NJ 08088-2275 or download TRS_SOFT.ZIP from the Pinelands RBBS or TRS_SOFT.EXE from Genie's Radio BBS.

Changes entered between 06/29/91 and 07/24/91.

ENGLISH LANGUAGE SV BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstrom, W2XG

Start End Time Time (UTC) (UTC) Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000 0330 Costa Rica	R for Peace Int'l	21465	15030	13630	7375					LA/NA	#1&4 USB	07/23/91
0000 0100 Spain	Spanish Foreign Radio	9630								NA		07/07/91
0000 0100 USA	VOA/Am	15205	15120	11695	11580	9775	9455	6130	5995	Caribbean/Americas	alt pgm #1,3,4,5,8	07/03/91
0100 0200 Spain	Spanish Foreign Radio	9630								NA		07/07/91
0100 0200 USA	VOA/Am	15205	15120	11580	9775	9455	6130	5995		Caribbean/Americas	Tu-Sa	07/03/91
0200 0230 USA	VOA/Am	15205	15120	11580	9775	5995				Caribbean/Americas	#1&2 Hal #3 Spain	07/03/91
0300 0400 China	R Beijing	15100	11715	9690						NA/ENA	#3 USB	07/23/91
0300 0600 USA	WRNO	7395								NA/CA	#1 ME	07/23/91
0330 0600 Costa Rica	R for Peace Int'l	15030	13630	7375						LA/NA	Spanish Tu-F 03-04	07/23/91
0400 0430 Switzerland	Swiss R Int'l	13635	12035	9885	6135					ME/NA		07/23/91
0500 0700 Nigeria	V of Nigeria	7255								U AF		07/20/91
0600 1200 Costa Rica	R for Peace Int'l	15030	7375							LA/NA	#2 USB	07/23/91
0700 0830 Ecuador	HCJB	17790	15270	11835						Eu		07/23/91
0730 0755 Iceland	Reykjavik	9265									news/English	07/07/91
0900 1000 China	R Beijing	15440	11755	11710						S Pacific		07/23/91
1000 1100 China	R Beijing	15440	11755	11710						S Pacific		07/23/91
1130 1200 Ecuador	HCJB	11925								NA		07/23/91
1200 1300 China	R Beijing	17855	15450	11660	11600	9530				ENA/S Pac/SE As		07/23/91
1200 1630 Ecuador	HCJB	25950	21455	17890	15115	11925				NA	#1&2 USB #5 -1300	07/23/91
1200 1400 N Mariana Is	KHBI	13625	9425							SE As/Aus/Pap/IG	285/195 deg	07/09/91
1300 1400 China	R Beijing	11855	11660	11600	9530					NA/Pac/SE As		07/23/91
1600 1700 China	R Beijing	15130	15110	11575						EAS Afr	#1&2 v Natl	07/23/91
1630 1730 Ecuador	HCJB	25950	21480	21455	15270					ME	#1&3 USB	07/23/91
1700 1800 China	R Beijing	15225	11575	9570						EAS Afr		07/23/91
1800 0000 Costa Rica	R for Peace Int'l	21465	15030	13630						LA/NA	#1 USB	07/23/91
1800 2000 USA	WCSH	21545								S Afr	105 deg	07/09/91
2000 2200 USA	WCSH	15665								Eu	60 deg	07/09/91
2000 2030 USSR	R Georgia	11760										07/24/91
2110 2210 Syria	R Damascus	15095	12085							NA/Aus/NZ		07/07/91

2200 2300 China
2200 2400 USA

R Beijing
MCSN

11990
15665

Eu
M Afr

V USSR
90 deg

07/23/91
07/09/91

Changes entered between 06/29/91 and 07/24/91.

ENGLISH LANGUAGE DX SHOWS: By Day of Week
Compiled by Thomas R. Sundstrom, W23G

Shortwave DX Program	Show Xman Start Time	Start Time	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Target Area	Notes re DX Show	Record Last Updated
** DAY OF THE WEEK: Sunday														
World of Radio	0730	0600	Costa Rica	R for Peace Int'l	15030	7375						LA/NA		07/23/91
World of Radio	2230	1800	Costa Rica	R for Peace Int'l	21465	15030	13630					LA/NA		07/23/91
** DAY OF THE WEEK: Monday														
World of Radio	0430	0330	Costa Rica	R for Peace Int'l	15030	13630	7375					LA/NA		07/23/91
World of Radio	1030	0600	Costa Rica	R for Peace Int'l	15030	7375						LA/NA		07/23/91
** DAY OF THE WEEK: Tuesday														
World of Radio	2030	1800	Costa Rica	R for Peace Int'l	21465	15030	13630					LA/NA		07/23/91
** DAY OF THE WEEK: Wednesday														
World of Radio	0230	0000	Costa Rica	R for Peace Int'l	21465	15030	13630	7375				LA/NA		07/23/91
World of Radio	0830	0600	Costa Rica	R for Peace Int'l	15030	7375						LA/NA		07/23/91
** DAY OF THE WEEK: Thursday														
Mailbag	0830	0630	New Zealand	R New Zealand Int'l	9700							Pacific	biweekly	07/12/91
** DAY OF THE WEEK: Friday														
Mailbag	1930	1800	New Zealand	R New Zealand Int'l	13785							Pacific	biweekly	07/12/91
World of Radio	2100	1800	Costa Rica	R for Peace Int'l	21465	15030	13630					LA/NA		07/23/91
** DAY OF THE WEEK: Saturday														
World of Radio	0300	0000	Costa Rica	R for Peace Int'l	21465	15030	13630	7375				LA/NA		07/23/91
World of Radio	0900	0600	Costa Rica	R for Peace Int'l	15030	7375						LA/NA		07/23/91

Publisher's Page

Bill Oliver
45 Wildflower Road
Levittown, PA 19057



NO COLLECT CALLS, PLEASE.

FOR SALE: Yaesu FRG-7 with Collins filter installed by Radio West. Also MFJ-1020A active antenna. Make offer. Al Clark, 35 Bull River Bluff Drive, Savannah, GA 31401. Home phone (912) 897-7515; work (912) 233-1271.

WANTED: Old shortwave receivers such as Zenith, Scott, and Hallicrafters in any condition. C. Blatter, 610 West Sunset Drive, Redlands, CA 92373. Phone (714) 792-4184.

WANTED: Contact with anyone who worked for, was associated with in any way, or knows of someone associated with the E. H. Scott Radio Laboratories located at 4450 Ravenswood Avenue, Chicago, IL. I am attempting to preserve the history of the company. John Meredith, 1792 Nemoke Trail, Haslett, MI 48840. Phone (517) 349-4348.

FOR SALE: INFO-TECH M-6000 v5.0 demodulator, Panasonic 9" B&W monitor, \$500.00. Daiwa AF-606K audio filter, \$80.00. Two Palomar Engineers PB-9 baluns (9:1), new, \$15.00 each. 10:1 matching transformers for Beverage antennas, \$17.00 each plus \$2.00 shipping. All other items above prices plus shipping. Steven R. Lare, 824 West 25th Street, Holland, MI 49432. Phone (616) 335-2270.

FOR SALE: McKay Dymek DA100D antenna, \$80.00. Also Palomar preamplifier Model P-308, \$45.00. All in mint condition, Stanley Cabral, 2254 - 62 Avenue, Oakland, CA 94605. Phone (415) 562-2486.

HELP! I have a Realistic DX400 that works fine on all bands except FM. It tunes on FM, but you cannot hear it unless you place the radio up to your ear. External speaker and earphones give the same problem. All other bands work great. I will take collect call or refund your stamps for any ideas or fixes. Thanks. Tom Mooningham, P.O. Box 487, Maugansville, MD 21767-0487. Phone (301) 791-0834 after 5 pm EDT.

FOR SALE: Drake R-7 receiver with 4.0, 2.3, 1.8, 0.5, 0.3 kHz filters. Also includes Drake MS-4 speaker and service manual. Price \$5000.00 plus UPS. **ALSO:** Drake TR-7 transceiver with 6.0, 2.3, 0.5 kHz filters. Includes AUX-7 filters for 10.0-10.5, 18.0-18.5, and 24.5-25.0 MHz bands, MS-4 speaker, service manual, Drake PS-7 25 amp 200w power supply, Drake SP-75 speech processor, and TV-42-4P low pass filter. Price \$650.00 plus UPS. All you need is a microphone and an antenna and you're on the air. Both units purchased at the same time for \$1100.00 plus UPS. Robert R. Zilmer, 210 Colorado Mtn. Road, Rio Rancho, NM 87124. Phone (505) 892-6461.

FOR SALE: Customized Beam Headings (from/to) and Distances (MI/KM) to over 470 WRTH-91 transmitter sites. Useful in selecting alternate transmissions and choosing listening times based on distances. ITU Country Codes included. Send your location/coordinates, \$6.50. Also "Passport to World Band Radio" '89, \$8.95. FRENDX-Journal complete '89 and '90, \$8.95 a year or \$17.00 for both. WRTH '87, \$7.95; '90, \$9.95. All items include shipping. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398.

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