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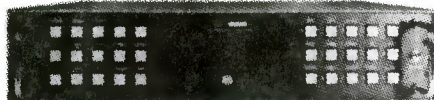
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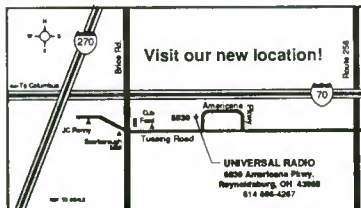
UNIVERSAL DECODERS



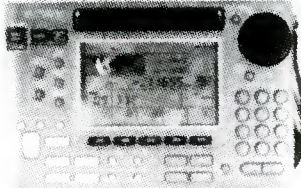
If you are only listening to your shortwave radio you are missing half the fun. With the addition of a Universal decoder and monitor you can see the world. The shortwave spectrum is filled with interesting text messages and photos that you can intercept and display. If this sounds interesting to you, request our two free pamphlets: *Listening to Radioteletype and Receiving FAX on Your Shortwave Radio*. Shown above is the military grade Universal M-8000 which decodes modes not previously available. Contact us today for information on the full line of Universal decoders.

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SONY. ICF-SW55



Sony's newest model, the ICF-SW55, is already receiving rave reviews. The SW55 covers longwave, AM, FM and shortwave with excellent performance. Four tuning methods are available: preset station tuning, direct tuning, manual tuning and scan tuning. It features keypad entry, LSB/USB reception, signal strength display, low battery light, local-DX sensitivity switch, fast/slow/lock tuning, 1 kHz display resolution and station name tuning. The sophisticated alpha-numeric data memory system stores up to 5 frequencies per title (125 max). It has a unique dual display world time clock with alarm, sleep and 5-event timer. External jacks for antenna, earphones, recorder and remote. With AC adapter, AN61 wind-up antenna, stereo earphones, wave handbook, soft radio case, and hard case to carry the complete system. 7.34" x 5" x 1 1/2" (1 Lb 14 oz). Requires four AA cells (not supplied). One year limited warranty.

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NASWA Notes

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



Hello again. Well, it looks like my begging paid off. As you will see in the next few pages I received quite a few Musings. Hopefully this will be the start of some interesting commentary for this column. If you see some interesting comments within these musings, please feel free to keep the dialog going by sending in your musing. Otherwise, check the beginning of the Musing column for next month's theme.

In addition to all the Musings, I received a couple of features, some station profiles, and some letters from members looking for editing guidelines for features and station profiles. Things are looking up, keep 'em coming!

Thanks Ted!

Due to personal reasons, Tech Topics editor Ted Benson is resigning from the NASWA edit-

ing team. Ted has been editing Tech Topics since the July 1988 issue of FRENDEX. On behalf of NASWA I'd like to extend my thanks for all the hours of hard work Ted put into producing Tech Topics. Thanks Ted!

Late Night DXing Aid

Congratulations to Easy Listening editor Richard Cuff and his wife Suzanne on the birth of their first child! Catherine Margaret Cuff was born June 3rd, 1619 UTC and both mother and daughter are doing well. We should start seeing reports of late night and early morning SW programs from Richard real soon.

Because we have so many Musings, I'm going to keep this part of Notes short this month. Have a good month and be sure to write in with any inputs for this column.

73 - Bob

Welcome to the following new NASWA members -

Ahmad Abdallah, Lockport, NY
Mark Anderson, Prescott, MI
David Bendt, Alexandria, IN
Sheldon Bernick, Media, PA
Denny & Cathy Braun, Eden Prairie, MN
Richard Brooke Jr., Jacksonville, FL
Tom C. Brown Jr., Jackson, MS
John C. Clampett, Watertown, CT
Robert A. D'Amato, Bourne, MA
Robert N. A. Degerberg, Gladwyne, PA
John M. Domokos, Moundsville, WV
Jennifer Enright-Ford, Oconomowoc, WI
Shawn S. Fahrer, Howard Beach, NY
Sergio Fernandez, Miami, FL
Mr. James Francis, Brooklyn, NY
Allan Garshowitz, Vancouver, BC
Mr. Sandy Geiger, Roogersville, TN
Mr. Raymond Goldfarb, Laguna Hills, CA
John A. Gutosky, Weatherly, PA
Dennis Honkomp, Florissant, MO
Dr. David R. Hughes, Keswick, ONTARIO
Mark Humenyk, Weston, ONTARIO
Richard E. Jenkins, South Glens Falls, NY
John B. Kinsellagh, Brookline, MA
Michael Luechtefeld, Austin, TX

Tom McKeough, Beaumont, ALBERTA
Bill Miller, Granada Hills, CA
Clyde Nolan Jr., Greensboro, NC
Michael S. Page, Flint, MI
Eddy E. Pollock, Capitola, CA
Antonino J. Providenti, East Syracuse, NY
Charles A. Rathbun Jr., Minden, LA
Daniel C. Ritter, Allentown, PA
Patrick W. Rogers, Westport, CT
Peter Rosenthal, Flagstaff, AZ
Gary Walter Schortje, Raritan, NJ
Hord Shahir, Hibernia, NJ
James Silliman, Paul Smiths, NY
Trevor Stanley, Flagstaff, AZ
William Stout, Harrisburg, IL
James D. Strader, Middleborough, MA
Robert C. Sullenberger, Venice, FL
Lester Swanson, Carrollton, TX
Dave Valko, Dunlo, PA
Ronald C. Waterfall, Hatboro, PA
Charles Watson, Florissant, MO
Frank Wheeler, Pomona, KS
Glenn Wilkerson, Seguin, TX
Ronnie Wilson, Austin, TX
William Wolfreys, Dorchester, MA

Our Motto is - "Unity and Friendship"

Upcoming HamFests

- July 25 Coos County Radio Club, Coos Bay/North Bend, OR, Carl Siminow, WA6JOW
1005 Augustine St., **Coos Bay, OR** 97420
- July 25-26 Western Carolina ARS, Waynesville, NC, Keith Clark, KC4QIE
P O Box 16816, **Asheville, NC** 28816
- July 25-26 Oklahoma State Convention, Oklahoma City, OK, Frank Tassone, AA5GI
902 Royal Way, **Edmond, OK** 73034
- July 26 Ashtabula County ARC, Ashtabula, OH, Darlene Stenback, N8APY
722 Lyndon, **Ashtabula, OH** 44004
- August 1 Voice of Aladdin ARC, Columbus, OH, Jimmy Caines, KB8KME
1056 Erickson Ave., **Columbus, OH** 43227-1241
- August 1-2 Missouri State Convention, Springfield, MO, Linda Baxter, KA0/NXI
2616 W Woodlawn, **Springfield, MO** 65803
- August 2 Skyview Radio Society, New Kensington, PA, Hugh Turnbull, W3ABC
6903 Rhode Island Ave., **College Park, MD** 20740
- August 2 Fox River Radio League, Sugar Grove, IL, Genie Stevenson, KB9COM
1744 S 7th Ave., **St Charles, IL** 60174
- August 2 Shanandoah Valley ARC, Berryville, VA, Guy Black, W4PSJ
1201 Woodside Dr., **Winchester, VA** 22601
- August 2 Portage Amateur Radio Club, Randolph, OH, Joanne Solak, KJ3O
9971 Diagonal Rd., **Mantua, OH** 44255
- August 7-9 Texas State Convention, Austin TX, Joe Makeever, W5EBJ
8609 Tallwood Dr., **Austin, TX** 78759
- August 8 Delta County ARC, Escanaba, MI, L. Les Elder, N8NH D
P O Box 923, **Escanaba, MI** 49829
- August 8 Tri-State ARA, Huntington, WV, Ezra Taylor
4408 West River Rd., **Huntington, WV** 25704-1148
- August 8-9 Central Oregon Radio Amateurs, Bend, OR, Mary Winter, N7RGD
17870 Plainview Rd., **Bend, OR** 97701-9130
- August 9 Hamfesters Radio Club, Inc., Peotone, IL, Robert Truhlar, W9LNQ
1701 W 101 St., **Chicago, IL** 60643
- August 9 Mid-Atlantic ARS, Warrington, PA, Robert Van, WI3S
3332 Hazelwood Ave., **Downington, PA** 19335
- August 14-16 Rocky Mountain Division Conventon, Park City, UT, Richard Fisher, NS7K
1510 Celia Way, **Layton, UT** 84041
- August 15 Ithica ARC, Ithica, NY, Ross Boyer, N2ISU
520 Etna Rd., Apt A, **Ithica, NY** 14850
- August 15-16 Alabama State Convention, Huntsville, AL, Don Tunstill, WB4HOK
1215 Dale Dr., **Huntsville, AL** 35801
- August 16 Western Illinois ARC, Quincy, IL, Jim Funk, N9JF
Rt 1, Box 151 A, **Liberty, IL** 62347
- August 16 Cedar Valley ARC, Cedar Rapids, IA, Dick Isard
2818 Southland Dr., SW, **Cedar Rapids, IA** 52314
- August 15-16 Duke City Hamfest, Albuquerque, NM, Joe Knight, W5PDY
Albuquerque, NM 87112
- August 16 MIT Radio & Electronics Society, Cambridge, MA, Steve Finberg, W1GSL
P O Box 82, **Cambridge, MA** 02139

Musings

This column provides a forum whereas members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months), or use next month's theme as a basis for your discussion. Next month's theme is - "DX and SW Media Programs on SW - The Good, The Not So Good, and Why". The monthly theme is only used as a suggestion for discussion. Any other items of interest to members may be also submitted. Because I edit this column, I'll jump in with responses where appropriate.

Bruce Winkelman

Please reconsider the recent cover change for the JOURNAL. The "old" cover in use during 1991 projected a professional, "clean" image that I find more appropriate. The current covers are probably more expensive to print and give a "gosh-golly-gee-whiz" look to the JOURNAL. Photos, QSLs, schedules etc can be included on inside pages—e.g. "QSL of the Month". A Table of Contents on the front cover would be valuable if a blank cover is undesirable.

Listeners Notebook continues to be the most valuable column to me on a month-to-month basis. KUDOS TO DAN FERGUSON!! NASWA Notes gives valuable general club information as do the Special Events/Hamfest listings and the Musings are a great idea. Personally, the Easy Listening column is the least useful to me as I seldom devote time to program listening but is a great resource for those members that listen to SW programming. African/Asian/Latin American Destinations are a good source for setting up target lists and planning a DX session.

All in all, the JOURNAL is well done and a credit to all that are involved in its publication month after month. I doubt that the general membership appreciates the amount of hard work it takes to get the JOURNAL in the mailboxes of members every month. The amount of valuable DX information I get each month is considerable and a real benefit to me in this great hobby. Thanks to everyone involved! 73.

--I've been asked about a table of contents many times Bruce. Unfortunately, because the final book is assembled about 1 hour prior to going to the printer it is virtually impossible to include a table of contents. The cover is printed about 1 week prior to the editors deadline, which is the last Saturday of the month, and is picked up by Bill about 3 days prior to the deadline. At that time Bill's wife applies all the mailing labels to the covers. I show up at Bill's on Saturday, with all the columns I paste up and we assemble those with the ones that are mailed in from the other editors. The camera ready copy then goes to the printer. Once printed, the insides and labeled covers are collated together, stapled, and prepared for mailing. By the way, the picture covers do not cost any more than the previous cover. We went back to picture covers because of numerous requests from the membership to do so.

Jon Klinedinst, RD #1 Box 160HH, Dover, PA 17315

The main reason I continue to subscribe to the Journal is Tom Sundstrom's English Schedules. With Tom's schedule, all I have to do is key in the frequency of a broadcast station in order to do program listening. Before I was a NASWA member, I would spend 3-4 months of the year compiling my own English schedule, and it was not nearly as complete as Tom's schedule. Tom's schedule is updated every month while my own schedule was updated in June and December only. Tom's schedule tells when a broadcast begins so you don't miss anything while my schedule only told what was heard during a one hour time period.

I also like the NASWA Portraits column. It is nice to read how other SWLs got started in the hobby. It is also interesting to read about what equipment they use and what countries they have verified.

I also read the Musings every month. I find the conversational type writing easy to read and very interesting. Of course, the SWL subject matter is what makes the letters interesting.

I also like the Equipment Review Column when what is being evaluated catches my fancy. I think the listings of your new members adds a nice touch to the Journal. I watch the listings for new members in my area. I also read Listener's Notebook for DX tuning tips.

The only thing I can truly say that I don't like about the Journal is all the abbreviations in some columns. These abbreviations are like a foreign language to me. I will never take the time to learn them. I guess they are necessary to save space and money. I'm sure they are not a barrier to some people, but I'm sure I'm not the only person who doesn't like them.

-- No Jon, you're not the first person to be confused by the abbreviations and they do take some time getting used to. Do you have a listing explaining the abbreviations? If not, one can be obtained from Headquarters. The editors have been asked to adhere to the list so that we can maintain some consistency to the abbreviations. And yes, they are necessary to make maximum use of the space available.

Charlie Gaharan, 504 Thoroughbred, Thibodaux, LA 70301

Just a note to let you know what a great club I think NASWA is. I have been SWLing for about 25 years and a member of several radio clubs (even the old Newark News Radio Club) and have seen sample club bulletins of several others and I think NASWA is the most helpful and professional one of them all. You guys do a great job with today's Journal. I particularly like and find very helpful Listener's Notebook (which I read completely every month) and Sundstrom's English Schedules. I also enjoy Musings and NASWA Portraits (but not those portraits that are so long they are divided into monthly parts). I would like very much to see some type of Question-Answer column started in the Journal. But overall it is great, and I look forward anxiously each month to receiving mine. Keep up the great work.

-- We thought that Listeners Classroom would be the question/answer column but that didn't quite work as planned. I'd like to see something like that also. Any other members have ideas about this?

Allan Garshowitz, #504 - 1350 Broughton St., Vancouver, BC, CANADA V6G 2X3

Your publication seems interesting and I wish to receive it, starting with May, or even April, I suppose, if that's when your biannual "complete schedule" is printed.

I seem to notice very little interest evinced in the listening community of shortwave in the technical and practical side of getting shortwave broadcasters on the air...

This seems extraordinarily odd, to be more concerned with one's own postcard collection than with the countries and stations one is listening to; and most strange, considering the avid exchange of such information one hears on the ham bands.

Surely these are the most interesting shacks, so called, in the world. Is there something dull about antennas and transmitters and generators, about the production of shortwave programming and the obstacles such broadcasters -- particularly the small, low-powered and underfunded services --- face? I don't think so.

A broadcast engineer who would have been engaged in a number of projects worldwide could throw a great deal of light on the problems and various histories, some of stations that are no longer with us.

A fascinating book could be made out of the development of Radio Moscow alone, its vari-

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)

ous installations and equipments, and the strategies of providing global service -- but perhaps I am overestimating the degree of rapture possible...

My own interest in this derives from being at an early stage in the process of investigating the possibilities of setting up such a station on the SW band, the prospect having met with some enthusiasm.

Please, then, consider doing more "inside" articles on the broadcasters; it should be a regular feature.

-- I'd love to Allan. Unfortunately, I can't force the pen to the paper for people. If you or any other member has input on the topic you've outlined, please submit them. I'm sure other members would like to see such articles. We all have to remember that this is a club that relies on member input for it's features. We don't pay for articles. So if something "should" be a regular feature it's only that because someone has volunteered to do it.

Joe Buch N2JB, 2008 Mozart Circle, Virginia Beach, VA 23454

Today (June 1) the news media were cheering the latest news from the inventor's laboratories. A new light bulb, the biggest advance since Edison invented the carbon coated bamboo filament, is being trumpeted as saving up to 75% of the energy required of an incandescent bulb for the same light output. So what, you ask? You normally listen to the radio by the dim glow of the panel lamp! Well, it's not that easy. The noise generators currently being marketed by the lighting industry have contributed to the decline of medium wave AM radio in this country. These new lamps may be the final straw that will cause us all to take up stamp collecting.

Not being satisfied with light dimmers and touch sensitive lamps that create havoc on the SW bands, the lighting industry is now ready to foist a new plague on the radio listener. This new bulb works so efficiently because it contains a radio transmitter which generates an electromagnetic field that interacts with a gas and a phosphor coating to make light. None of the reports I have seen to date have indicated the frequency of the transmitter that will be used, but Murphy will undoubtedly do his best to ensure that if the transmitter is not in the middle of one of our favorite bands, then it will have to be so rich in harmonics that it will clobber us anyway.

What can we do? Who knows. The FCC has been oblivious to the threat that previous lighting developments have posed to the radio listener. They go to great lengths to ensure computers and video monitors don't emit incidental radiation while ignoring the harmonic-rich buzz-saw jammers masquerading as touch control lamps in discount stores. Maybe the National Association of Broadcasters will finally wake up to the insidious threat posed by these devices. They usually wield enough clout with the FCC to get their attention. On the other hand, their past reaction to higher urban noise pollution has simply been to request higher night time power levels. The ostrich would be proud of that kind of approach to a threat.

Stay tuned for more details. Don't take this new development lightly. (Did I say that?)

-- Oh boy...just what we need, more noise. Arggh!

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

In the amount of time that I have been receiving the Journal (less than a year), I have been pleased with it. The articles have been quite informative and entertaining to read; that combination tends to be a rarity in my experience. The latest info on DXing and the schedules always keep me informed on what is happening. I suppose one indication of that is that I will reach for the Journal first and then Passport second when I am confronted with a signal unfamiliar to myself.

While I am admittedly a rookie in serious Shortwave Listening (and therefore have a limited amount of knowledge in past issues of FRENEX and The Journal), I feel that the Journal is an excellent vehicle for examining the electronics of radio. The recent article on filters explained in a couple of pages what took me a week to decipher out of a few engineering texts. With the readership the Journal has, there must be many people who are able to share the technical knowledge gained over many years of constructing various shortwave equipment. Hopefully, this sharing of knowledge would help those who (like me) have a genetic defect known as "tinkeritis".

I have this bizarre desire to construct my own shortwave receiver. This is probably due to a tinker gene that I seem to have inherited from my mother's side of the family, but I think that this desire also has something to do with a dissatisfaction of the price gap between portables and good tabletops. I had thought of building shortwave kits, but their overall lack of performance (as detailed in Passport and others) steered me into starting from scratch. Once that decision was made, I discovered that there is not a great deal of easily accessible info in the way of radio design (much less shortwave design). Secrets of RF Circuit Design by Joseph J. Carr was helpful, but was lacking in advanced design techniques as well as concepts such as PLL and multiple superhet design.

While I would be grateful for advice on my search (believe me, I know that I am not going to come close to the JRCs, ICOMs and Drakes for a long while, if ever), I hope that more technical articles could be written with the tinkerer in mind.

-- Perhaps some members reading this can help Mike

Barry Schwartz, 72-22 153 St., Apt. 2H, Flushing, NY 11367

As a relative novice in this hobby, I have found the Destinations, Tropical Band Loggings and the International Band Loggings columns to be the most helpful. Those columns help me to plan out when to listen.

I really have no dislikes concerning the Journal. I read through each issue - there's always something of interest. It is better than the trade publications as well - the Journal seems to be much more personal and friendly.

I do have a suggestion: Each issue should have a chart of some sort showing when (best time of day) to listen to the Tropical Bands (120,90,75,60 meter bands) and what area one can expect to receive for the time of year or month the chart is published. This would be very helpful to us novices! Yes, I did read the series of articles recently published in the Journal about those bands. However, a chart would be very helpful.

That's about it. Thanks for reading this and I hope the staff will take my suggestion under consideration.

-- I presume you mean something like a seasonality chart. I've been talking with Hans Johnson about that, perhaps we'll see something soon.

Jim Clar, 41 Vick Park A, Rochester, NY 14607

As a new NASWA member I have found the Journal to be an invaluable resource. The "Asian/African/Latin American Destinations", the "QSL Reports", and the "Loggings" columns have been particularly helpful. In fact, the Journal has been so useful to me as a means of formulating a plan of "directed" listening that I truthfully do not know how I got along so long without it! In short, I can only say that I have (so far) found very little that I dislike with regard to the Journal in particular and NASWA in general. Before joining NASWA I sampled a fair number of other club bulletins and found the Journal to be just about the best of the lot -- I am also a member of ODXA and ACE. I would like to say that, in what little contact I have had with fellow NASWAns, I have found members themselves to be friendly, courteous and, beyond that, more than willing to help out answering questions, providing information, etc.

I do, however, have a number of suggestions which I think just might work to make a good thing even better. (Bear in mind that these suggestions are made with only four months under my belt as a NASWA member.)

I. A separate column for Pirate/Clandestine loggings and station info. This is a rich and exciting area of the SW hobby which seems to receive only a minimum of attention in the pages of the Journal. I realize that for a long time Pirate radio activity was looked down upon by the purist but it seems to be a phenomenon that is here to stay. Why not exploit it as a means of generating some interesting

new contributions?

II. A year-end QSL "Survey" or "Index"; that is, a cumulative listing of the stations reported in the pages of the Journal and including relevant information such as type of verification(s) issued, average length of response time, enclosures, verification signers, etc. This would, I believe, be an invaluable tool for the DX'er and QSL collector. It would save having to page through back issue after back issue in order to find the latest verification policy/history of a given station. This would most probably have to be issued as a separate publication. (It may well be that you already do something along these lines. If so, please disregard my comments.)

III. Institute a Letters column or Open Forum of some sort. I think your new direction with the Musings section is a step in the right direction, but feel that there is still a need for something which would promote more interaction among the members themselves within the pages of the Journal. (There are, however, a number of dangers here which the editor of such a column would need to look out for: vacuous correspondence and the griping/bickering which can sometimes crop into lettercols.)

IV. Find an ongoing method of encouraging new members (those who are perhaps long on enthusiasm but short on direction) to contribute material to the Journal. Another problem here is, of course, that many of us who would be willing to offer something for the Journal feel that they perhaps lack the experience or knowledge necessary to produce something that would be of value to more seasoned hobbyists. What you need is an "ice breaker" of sorts to get newer members involved and, at the same time, to help them overcome their initial reluctance. Perhaps this could be accomplished by publishing a list of suggested topics or by sponsoring a contest of some sort(?).

In any case, Bob, I apologize for taking up so much of your time. I do hope that, whatever you think of these ideas, they might perhaps serve to spark a thought or two -- or at least some new angles -- as you continue to grapple with what I bet is an ongoing/nagging problem. In my profession I coordinate the efforts of a number of volunteer groups and thus know just how difficult it is to find people willing to get the job done and to keep them interested over the long haul. Your comment about sleepless nights really hit home for me as I often spend "sack time" tossing and turning, wondering who I will ever find to head up this committee or work on that project, etc. (It does, however, lead to lots of nice DX catches during the wee hours!)

-- *Let's address these one at a time. (1) Since there is already a club dedicated to pirates and clandestines (A.C.E., P.O. Box 11201, Shawnee Mission, KS 66207-0201), I think that any activity we present here should be limited to non-domestic pirates (Euro-pirates) and clandestines. A.C.E. covers the domestic pirate scene very well and because of the multitude of domestic pirates it doesn't make much sense to duplicate the A.C.E. efforts here. (2) Great idea! Now all we need is a volunteer to coordinate this effort. The Ontario DX Association offers an African and Asian QSL Summary. Perhaps we should see about offering them through the NASWA Company Store and coordinating efforts to help the cause for the hobby. (3) I think that we can make that happen with Musings or perhaps a Question/Answer column as stated earlier. Let's see how this goes. (4) I agree that new members feel intimidated and hesitant to jump in. Any other members have any ideas on how to solve this one?*

David L. Thompson, 923 - 18th Street, Golden, CO 80401

I'm an old guy, a semi-retired engineer, but relatively new to the shortwave hobby. Materials from beginners could occasionally be interesting for the Journal. They might expose common errors and give more experienced listeners some good targets for advice and criticism. At any rate, you are free to use or not use this letter as you see fit.

My receiver is a Sony 2010, and my antennas are a long wire and an Eavesdropper, both in the attic. I use a little Realistic speaker switch to go back and forth between the two antennas and to cut a ground wire in and out. The Eavesdropper is usually best for 19 meters and the longwire for everything else, although there are occasional exceptions both ways. Sometimes things are better

with the ground connected, and sometimes not. It's an unusual location, Golden, Colorado being right at the eastern edge of the Rockies.

As a final note on equipment, I find the 2010 to be capable of much better sound quality than is provided by its built-in speaker. I have wired in some external speakers and switch between them according to reception conditions and program content. Most of my "easy listening" is done in the daytime. I like to start with news from the Far East (Australia, Japan and China) early in the morning and then catch France, Moscow, Sweden, Netherlands, Israel, Cuba, Bulgaria, VOA, and the BBC later in the day as time permits. Once in a while I do some DXing at night and have logged about 60 countries, which I know is not a big deal. For reasons of equipment, location, personal incompetence, or all three, I have never had much luck below 49 meters.

I'd like to hear from anybody with advice or anybody who also likes to listen in the daytime.

Jim Feeley, 6046 Courtside Dr, Norcross, GA 30092

Thanks to a tip from Glenn Hauser's World of Radio, I've been listening for the past week, absolutely enthralled, to a nightly weather update broadcast to yachts sailing in the Atlantic, Caribbean and Pacific. It apparently is from an ocean liner, "Southbound II", based in Bermuda. The operator is "Herb" and he maintains a nightly schedule on 12353 USB from about 2300 UTC until 0100 UTC. He also has announced he is on 6224 USB at around 2230 UTC but I have not listened to that. "Herb" establishes contact with individual yachts and gives them the upcoming 24 hour forecast for where they're sailing. I've been amazed at how good reception has been here in Atlanta even with yachts near the Azores and in the Pacific. "Herb" really comes booming in. Last night, one yacht near the Azores reported he was battling a whale while at the same time sailing in 30-40 knot winds! For armchair travelers this is as close as we'll get to being there.

Paul Graveline

Being a member of the Boston Area DXer (The BAD Guys) has its benefits and surprises. Members have learned to stand by their telephones not only for fast breaking DX tips but also for unexpected events. Last September Vasily Strelnikov of Radio Moscow and Jonathan Marks of Radio Netherlands made an unannounced visit to a BAD Guys meeting.

A quick round of phone calls on the weekend of June 6/7 alerted local DXers that once again Jonathan Marks would be visiting Boston for a brief time. So on June 9 a special and hastily called meeting of the BAD Guys was convened with Jonathan as the special guest. He was on his way to New York City to attend the International Radio Festival at which the English service of Radio Netherlands was to be presented with a prestigious award.

During the evening Jonathan stressed that RN is a public service broadcaster and not government run and that the audiences rise in crisis situations like the Soviet Coup or the Gulf War. RN gets 65,000 letters per year.

Here is a run down of some of the points which Jonathan made during the meeting. High power long and medium wave services in Europe will continue despite their great operating expense because in many countries it is the only feasible means of reaching the entire population in an national emergency. Some of the receiver manufacturers get very upset with him when he gives an unfavorable review of a particular set on Media Network. He also mentioned that he writes all the receiver reviews and pamphlets which are available free of charge from RN. Probably the most successful broadcast organization in Europe is CTL organization from Luxembourg because they have been able to penetrate the various countries in the local language. Vasily is setting up an FM station called "Radio Seven" in Moscow where the western 88-108 Mhz. FM band is rapidly being accepted. At one time BBC Monitoring Service had 5-6 people just assigned to recording Soviet frequencies. Now this information is delivered to various organizations on a computer disk from Moscow! France has a tremendous number of pirate stations.

Jonathan discussed the satellite situation relating that SW audiences (especially in South America) were dwindling rapidly and that RN was now going to use a satellite feed to distribute their Spanish and Dutch programs to the Caribbean and South America.

Some personal observations: it struck me that many of the topics which Jonathan discussed that evening were not related to shortwave radio. It is clear that international broadcasting organizations are now beginning to expand their audience numbers by relying less on SW and more on many of the newer technologies which can provide more reliability with a higher quality signal. But it also seems apparent that if Europeans are reluctant to give up the wide coverage provided by long and medium wave stations, many of the big nations will also be reluctant to give up the independence of being able to get their signal across national boundaries which only shortwave provides for the foreseeable future.

My thanks to BAD Guy Paul McDonough for use of his meeting notes in preparing this report.

Calendar Of Events

- Jul 17** - Meeting, Boston Area NASWA Chapter, GTE Labs, Waltham, Mass. For additional information please contact Paul Graveline (508) 470-1971, or via modem on Tom's BBS, (617) 698-8649 (300/1200/2400 baud), (617) 698-8734 (9600).
- Jul 17** - Meeting, Philadelphia Area NASWA Chapter. Kulpville Holiday Inn, Kulpville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Jul 18** - The Miami Valley DX Club (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC Newslite at (614) 471-9973 (24 hrs.) Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Jul 21** - Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. Contact Mike Fanderys (216) 661-2443
- Aug 1** - The First Meeting of the Central Ohio Shortwave Club, 1:30PM at Universal Radio, Conference Room, 6830 Americana Pkwy., Reynoldsburg, OH 43068. Contact John Davis (614) 967-3481 evenings.
- Aug 1** - The next meeting of the DC area NASWA folks will be on Saturday August 1, 2-4 p.m. The meeting place is tentatively scheduled for the Conference Room of the Ballston Partnership, Ballston, VA. (This is next to the Ballston metro train station.) All are welcome. Please call Sally Ward at 703/960-4140 to confirm the meeting location.

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

WANTED: National N.C. 190 receiver. Bill Swiger, Route 1, Box 142A, Bridgeport, WV 26330. Phone (304) 842-4635.

WANTED: Help! I need parts for my Sony ICF-6800 (front foot assembly, light bulbs, etc.) Does anyone have a Sony ICF-6800 in poor condition or broken that he would sell me for a parts radio? Early or late production okay. Some Sony ICF-6700 parts might work. Sony can't help me anymore. Tony Bonanno, 30 Tomahawk Trail, Eastham, MA 02642. Phone (508) 240-1654 (Cape Cod, MA)

DXer's Forum

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

This month Mark Hoersten takes us on a visit to Ecuador and a tour of HCJB. Mark Sieden does a review of the JPS NIR-10 Digital Noise Reducing Audio Filter. Thanks to Hans Johnson for making arrangements with David Sharp of DX South Florida for permission to reprint an interesting article about a Cuban clandestine organization. **Attention NASWA Members!** I need your articles to keep these pages full! Of particular interest are DXing tips and techniques, station profiles, antenna construction articles, and anything else related to DXing the shortwave bands.

A Nostalgic Visit to HCJB

by Mark Hoersten*

During a recent trip to Ecuador I had the opportunity to visit with Rich McVicar, host of the DX Partyline at HCJB. Like many Shortwave Listeners, HCJB was my first station verified outside of North America. It was because of HCJB that I even knew where Ecuador was. So my desire to visit the station was somewhat nostalgic.

I did not make any arrangements with the station prior to my trip to Ecuador. I had my World Radio TV Handbook with me which I used to look up their address. That was not much help since the only address listed is their post office box. But noticing that a Quito telephone number was provided, I decided to give them a call for some help with locating the station and maybe even a tour. I dialed the number and asked the station switchboard operator if I could speak with Rich McVicar and was put right through to his office. The next thing I knew I was talking with the host of the DX Partyline. At first this seemed a little strange. I was used to hearing his voice each week via shortwave, but having him answer back caught me off guard. After explaining that I was a long time listener to HCJB, especially the DX Partyline, we made arrangements for me to stop by the station at 2:00pm the next day.

The following day I caught a cab from the

hotel for the trip to the radio station. I showed the cab driver a piece of paper with the letters HCJB on it along with the name of the street that Rich had given me. Many of the cabs in Quito do not have meters so it was necessary to establish the price with the driver before proceeding. The fare for the 20 minute ride was 3000 Sucre, or about \$2.25.

The driver let me out in front of the main gate of the station complex. Contrary to what I expected the station is not located on some remote mountain top, but is surrounded by the Quito metropolitan area. The streets are busy with taxis and other traffic associated with a city of more than 1.5 million people. There is even a modern shopping center near by. I was later told that the location was not always this urbanized. When the station was first built it was located away from the city, but over the years the urban sprawl of Quito has grown to surround it. The city of Quito is over 9100 feet above sea level, so the station is located in the mountains.

At the guard station I asked to have Rich McVicar called to let him know that I had arrived at the station. Rich walked in a few minutes later, got me my visitor's badge, and we were off on our tour of HCJB.

The tour started with the main control room where all the prerecorded programs are played and fed to the transmitter site that is located 15 miles east of Quito at Pifo. Then we spent

* 8326 Summit Dr.
Chagrin Falls, OH 44022

some time in the English Language section meeting people and touring their studios. Rich took me to Studio 9 where he tapes the DX Partyline each week. After recording the program in the studio he does the final editing on the tape in his office by cutting and splicing to get the program to the proper length.

Another interesting stop on the tour was the English correspondence department. This is where all the letters are opened and read. The



English service receives anywhere from 30 to 100 letters per day. HCJB is famous for their beautiful QSL cards. A new card is issued every two months, and each year the theme of the series changes. Showing me some of the past QSL cards, Rich happened to pull out the Equatorial Monument card from the 1987 series on tourism in Ecuador. Having stood on the equator myself the day before, I decided this card would be a great souvenir of my visit to HCJB and Ecuador. So after returning home I sent in a reception report, requesting it be verified with this card.

We then walked over to some of the other

language services, stopping in at the German, Japanese, Russian, and Spanish sections. Each language service is operated like a small radio station within HCJB. They have their own staff to handle programming and listener correspondence. The one thing they all have in common is a friendly atmosphere. Each area welcomed me warmly and was anxious to show me their operation.

The highlight of the visit was when Rich offered to locate my ANDEX application from back when I joined the station sponsored shortwave club in 1974. Digging through some boxes in the archive closet he was able to quickly find the "H" file. Then after a few seconds of flipping through old application forms, he produced my original 1974 application. It was nice to discover that after 18 years my ties with the station were still intact.

We completed a fascinating afternoon by walking down to the corner store for soft drinks and some DX talk. Then I caught a cab back to the hotel with a copy of my ANDEX application and an HCJB pennant tucked under my arm. Most importantly I left with a stronger interest in shortwave listening and some new friends in Quito.

If you are interested in collecting past QSL cards from HCJB, they have a list of which cards are still available going back to 1976. Some of the past series will be of special interest to shortwave listeners. The 1989 series features Ecuadorian Stamps, 1983 is telecommunications of Ecuador, and the 1981 and 1977 card sets focus on HCJB staff and facilities.

They have recently changed their address in order to have the mail routed through a post office closer to the station so listener's letters will arrive a few days sooner. The new address is:

HCJB
English Service
Casilla 17-17-691
Quito
Ecuador

Hardware Bits

by Alan Johnson

LOWE RECEIVERS - This British line of receivers is finally being distributed in the United States. Both the HF-150 and the HF-225 are being carried by Electronic Equipment Bank and Universal Radio. The approximate base price for the '150 is \$600 and for the '225 is \$750. Outboard tuning keypad is optional at about \$90 additional. These receivers are noted for their compact size and outstanding audio fidelity.

The JPS NIR-10 Digital Noise Reducing Audio Filter

*Reviewed by: Mark Sieden**

There are two types of advances in radio design. One is technological, which relates directly to how the signal is received and processed into audio. Examples of this type of technology are superheterodyne receiver circuitry, the phase lock loop, synchronous detection, passband shift, variable bandwidth control, single sideband circuitry and noise blanking. The second type of advance is ergonomic; that is, devices that make it easier to use the radio. Examples include keypad frequency entry, receiver memory, digital frequency readout and similar "user friendly" features.

Advances in technology comes slowly. Radio has been around for along time and has gone through considerable evolution and development. New ideas in technology are few and far between; while advances in ergonomics continue to arrive at a good pace. Now, there is a new technological feature that is clearly the wave of the future in terms of improving the quality of the received signal. It is called digital signal processing and digital audio processing.

In simple terms, the incoming signal is broken down into a digital format, is processed to remove noise and is then reassembled for your ears, less the noise. Presently, there are no general coverage receivers that either process the incoming signal or outgoing audio digitally. But there is an outboard audio filter - the JPS NIR-10 - that processes audio from your receiver in that fashion. The good news is that it works very well. The bad news is that it's relatively expensive. If you're a serious DXer, once you try it, you won't be happy until you have one.

The NIR-10 is a small black box that connects to the audio output jack of your receiver via a simple cable with RCA connectors available at any Radio Shack store. Another cable connects the NIR-10 to your

external speaker. There is also a headphone jack on the NIR-10. Installation is a snap. If you are "technically proficient" enough to connect an external speaker to your radio, you can hook up the NIR-10.

On the front panel of the NIR-10 is a mode switch that allows you to select the noise reduction mode, the bandpass filter mode or the bypass mode. Next to that is a bandpass switch with wide, medium and narrow settings and then, next to that, a dual purpose knob. The dual purpose knob allows the operator to select the degree of noise reduction in the noise reduction mode, or to place the bandpass shift in a particular segment of the audio output, depending on whether the mode switch is in noise reduction or bandpass position. Finally, there is a volume control that sets the volume for either your speaker or headphones.

In addition to the bandpass shift and noise reduction capabilities of the NIR-10, there is also a dynamite auto notch filter that kills hets (including multiple hets) almost instantaneously, without the "whooshing" present in some other auto notch products. It is operable in both the bypass and noise reduction modes, but not in the band pass shift mode.

To use the NIR-10, dial in a signal on your radio and turn the NIR-10 on in the bypass mode. Turn your receiver's volume up until the red "peak" light on the NIR-10 goes on intermittently during audio peaks. Use the NIR-10's volume control to set the volume for your speaker or headphones. Now, listen to your signal. If there is noise, such as line, atmospheric or ignition noise, turn up the NIR level control until it either disappears or is reduced to an acceptable level. If there is "monkey chatter" coming from an adjacent signal, select the band pass mode and shift the band pass through the audio until it disappears or is reduced. Hets? Simply select the bypass or noise reduction mode and they disappear. The reduction in noise (including atmospheric noise) and monkey chatter is simply amazing. And the het killer is more effective than the

* P.O. Box 112007
Miami, FL 33111-2007

notch filter on any of my receivers.

Sound too good to be true? It almost is. But like any mechanical device, it is not perfect. First of all, there is no "true" bypass position. The auto notch still operates in the bypass mode and does have a small effect on audio quality. When you don't need the unit, the only way to really "bypass" it is to turn it off entirely.

As issued, the bandwidths in the bandpass mode are too narrow. The "narrow" position is 250Hz, the "medium" is 600Hz and the "wide" is 1800Hz. Only the wide is suitable for voice communications and it is fairly narrow. Fortunately, this can be remedied. For \$35 JPS will supply the extra EPROMS programmed to your choice of three bandwidths, all the way up to 3400Hz. My own NIR-10 now sports a 3400Hz width in the "wide" slot, a 2400Hz width in the "medium" and 1800Hz in the "narrow". Much better for voice signal reception. The new EPROMS are simple plug in changes and no technical skill is required to install them.

To reduce noise, JPS programmed its device to be sensitive to the frequency range of human speech. In the noise reduction mode, when the signal is "reassembled", only what is perceived as speech comes through. As a result, music gets clobbered pretty badly and the speech itself has a very computer-like digital quality about it. No problem if you're listening to voice utilities or for a faint ID on a SWBC DX station, but definitely not the ticket for program listening.

Static crashes are reduced somewhat but not entirely. JPS is, however, working on a

device to be user installable in the NIR-10 that will eliminate static crashes. Target price is about \$20 for the upgrade and availability is to be within 4 to 6 months.

Last, the NIR-10 can only be used with one radio and speaker at a time without physically disconnecting it and reconnecting it to another radio and speaker. DX South Florida's electronic genius, Russ Scotka, built a small box for me that allows the NIR-10 to be used by up to three radios and three speakers with a simple flick of a switch. Now I can run the NIR-10 through the 535D, the 515 and the R-71A with no disconnects and reconnects whatsoever, and select which of my three speakers I'd like to hear the audio on just as easily.

The NIR-10 will not pull a signal out of pure noise. It will only work on improving a signal that is a couple of decibels above the noise floor. But it's allowed me to catch IDs I wouldn't have heard without it and has made DXing more pleasant and less tiring. All in all, a highly recommended device.

The cost is \$395, plus \$12 for the power supply unit. Contact JPS Communications, Inc., P.O. Box 97757, Raleigh, NC 27624-7757. Tel. (919) 790-1011.

Russ Scotka will make you up an audio switching device to use your NIR-10 (or other) audio filter with multiple receivers and speakers for less than \$60, plus shipping. If interested, contact him at P.O. Box 112007, Miami, FL 33111-2007.

PROFILE: Federación Mundial de Presos a Político de Cubanos THE ORGANIZATION AND THEIR STATION

By: David Sharp Copyright: 1992

South Florida, called home by many Cuban exile communities, gave birth last year to a new, previously unknown organization, the "Federación Mundial de Ex-Presos a Político de Cubanos" or "Worldwide Federation of Ex-Cuban Political Prisoners".

Like many other exile groups, the Federation operated a clandestine radio station, first heard by DXSF'er Terry Krueger shortly after the Soviet coup attempt last year. Soon, other DXSF'ers, myself included, heard the station, which broadcast (predictably) anti-Castro commentaries.

The station broadcast near 7089.1 kHz, on Mondays-Wednesdays-Fridays at 8:30pm local,

which is almost identical to the old Alpha 66 schedule. Reception in the Tampa area was always at local level.

During the inception of these broadcasts, Terry and I noticed coverage of the Federation's activities on local television, most notably channel 13 (although channel 8 devoted some time also). Even Bob Graham took time from his busy Washington schedule to visit the Federation, which was also covered by local press.

In my desire to acquire more information about the group (and hopefully their station), I called various Hispanic groups and our three Spanish-speaking radio stations. Ironically, they all seemed ignorant of the Federation's activities. I suspect they just didn't want an "Anglo" to be involved with their affairs.

Meanwhile, Terry was investigating press reports and television coverage regarding the Federation, and the commentator of the station was located. While he had more than a passing interest in our reception of his station, he claimed the broadcast, while originating in Tampa, was sent via Telco to Santo Domingo for broadcast. A very interesting morning, with his broken English and my less-than-fluent Spanish!

Strong reception of the station, and studio (not Telco) audio quality indicated the station was not in Santo Domingo -- this was confirmed on November 19, 1991, as that was when the station was closed by the FCC. Terry just happened to be monitoring that night, and knew something was out-of-the-ordinary when the transmitter remained on with open carrier after the program-proper was over. During past broadcasts, the transmitter always went off immediately after the program's conclusion.

Prompted to call the FCC monitoring site in Vero Beach, Terry received confirmation that the Tampa FCC field office closed the Federation down on November 18 local time. The transmitter was in an industrial area called Drew Park, just east of Tampa International Airport.

It's interesting to note that my brother (who now lives in Bogota) used to live in Drew Park, and told me that many years ago "a Cuban group was adapting an old movie theater for radio broadcasting". Whether this is the Federation's transmitter site remains to be seen.

The Federation has since returned to the air, first heard by David Crawford in late January, 1992 on 7417,6 kilohertz. Reliable sources "in the know" have told me that for whatever reason, the FCC has turned a "blind eye" so long as the Federation's station stays clear of the ham bands. There has also been speculation that election year politics played a part in the Federation's return, that the government does not want to alienate the large (mostly Republican) Cuban exile community in Florida.

A contact of mine in the broadcast industry offered his technical expertise to the Federation. Supposedly, they have a studio hidden in the back of a business on a major Tampa thoroughfare, and use simple equipment consisting of a turntable, mixer and possibly a cart machine. This contact will remain anonymous per his request.

The January 14, 1992 Tampa Tribune sheds some light on the Federation. Supposedly, there are nearly 10,000 members in the group; the Federation claims it had conducted "dozens of non-belligerent, intelligence-gathering missions inside Cuba for the last several years." The president of the Federation also said two of the three men recently captured by Cuban authorities shortly after landing in rubber rafts on the north coast of Cuba belonged to their group, although they "had no ties to the mission."

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Easy Listening

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Prodigy NCHT70A

The Best Laid Plans...

Oh, well. Just when I thought I was caught up enough to restore *Easy Listening* to its normal three pages, my wife's doctor decided our baby — our first child — should be born five weeks early. That decision severely disrupted my schedule and relocated my shack during June, but we're now just about back on track.

Thanks for your patience during these past two months. Your patience will be rewarded in the months to come.

The Games of the XXVth Summer Olympiad

Expect many of your favorite stations to alter their program schedules from mid-July to mid-August, as they feature special reports during the games themselves. The July issue of the BBC's program journal, *London Calling*, features an eight-page special section on the Olympics.

The BBC will feature special programming on special frequencies targeted to Africa (15070 kHz), the Middle East (also 15070 kHz), and South Asia (5975 kHz until 1800, then 3915 kHz from 1830 to 2030). The special program, **Barcelona Beat**, will feature news and interviews interspersed with music appropriate for the occasion.

Worldwide, catch up with the day's events - before you see the results on television - on **Olympic Sportsworld**, daily from July 25th through August 9th from 2009 through 2030. Special Sunday editions of **Sportsworld** will air from 1515 to 1600 on July 26th and August 2nd.

Other BBC sports coverage with Olympic content includes **Sports Roundup**, daily at 0315, 0945, 1245, 1745, and 2245. The 1245 broadcast does not air Sundays. **Sportsworld** airs Saturdays from 1400 to 1700. **Sports International**, with interviews and commentaries, airs Wednesdays 2215 with repeats Thursdays at 0230 and 0630.

BBC World Service Highlights

July 5th and weekly thereafter: **Keep to the Path Through Europe** takes a radio ramble through much of the interesting landscape of

Europe. For example, stroll across the Baltic flatlands and scale the Pyrenees. 0445, with repeats Mondays at 1445, Wednesdays at 0815, and Thursdays at 1915 (June 23rd and 30th only).

July 6th and weekly thereafter: **Journey to the Center of the Universe** is a new 13-part series, hosted by Martin Redfern, looking at current theories on the sun, our solar system, and the expanse beyond. The latest theories on the Big Bang will be explored as well. 0415 and 0915, repeated Wednesdays 1515.

July 6th and weekly thereafter: For most of us, tradition and ritual in the USA date back, perhaps, 300 years to Colonial times. Over in Britain, history spans more than 1000 years. Rites and rituals established in pagan times continue today. **Rites of Man** looks at traditions as diverse as the Helston Furry Dance and the Tar-barrel Guisers of Allendale in Northumbria. 0615, with repeats Tuesdays 1445 and Fridays 0415.

July 7th and weekly thereafter: Put on your thinking caps and pull out the stops, as **Back to Square One** utilizes a quiz format in a six-part series to explore the origins of some of the colorful expressions in the English language. I definitely plan to record this series, as I am fascinated by the topic. Mondays at 1715 with repeats Tuesdays at 0030 and Wednesdays at 0830.

The Henry Wood Promenade Concerts return in July, as the BBC will air portions of 27 concerts over the 29-day festival. Overall, the festival features 66 concerts by 37 orchestras, 23 choirs, 128 soloists, and 51 conductors. Here's a sample:

1830 July 17th: Verdi's *Requiem* opens the 98th season, with the combined forces of the BBC Singers, the London Symphony Chorus, and the BBC Symphony Chorus and Orchestra.

1830 July 23rd: Pianist John Lill and the BBC Welsh Symphony Orchestra, with Richard Hickox conducting, perform Beethoven's *Emperor Concerto*.

0815 and 2315 July 28th: Ian Tracey and BBC Philharmonic, under new principal conductor Yan Pascal Tortellier, play Saint-Saens' *Organ Symphony*.

Advance information: Aspiring writers living outside the British Isles are invited to enter original, unpublished plays into the World Service **Playwriting Competition 1992**. Deadline is November 30, 1992, and entries

should be sent to the World Service Drama Playwriting Competition at the usual Bush House address. Rules and regulations apply; if you'd like a copy of the rules, please send me a self-addressed, stamped envelope, and I'll send a copy your way.

Until next month,

73 DE Richard

World Atlas for Windows by Software Toolworks

Reviewed by: Richard O. Wallace

This program is unlike any other program for radio enthusiasts. It doesn't have a scanning feature nor hooks up to the radio. It is an atlas and combined database of each country, plus a user defined area where you can put your own statistics and create bar graphs.

The system hardware requirement for the Windows version is IBM PC/clone with 286 or better CPU, 1 MB of ram or better, 6 MB of hard disk space, VGA graphics card. The software requirements are DOS 3.1 or better and Windows 3.0. I imagine that there other versions of the same program out there, but since I have Windows, that's what I'll write about.

World Atlas is an atlas with a lot of features. The database for each country is fairly recent; there are stats from 1991 on it. The information is from various sources; from FAO to The World Fact Book by the CIA. The left side of the screen has the information icon where you can access this information.

Information is broken up into standard categories such as: Geography, people, education, health, government, crime, economy, agriculture, communications, and travel.

Communications will get you the information in WRTH such as how many FM, AM and SW radio stations are in that country. It will also tell you which satellite it's hooked up to, how many radios and TVs are in the country, and sometimes what future acquisitions might be. There is also data on telephone service. Features like distance finder and time function can readily be applied to the radio hobby. Distance finder works in two ways; it can reference a starting point to any other point in the world; secondly, it can be additive - ie: from NYC to London is x miles (or Kms), from London to Moscow is X miles. The time feature can be set in UTC or EST/EDT or whatever. Whenever you go to a map or a particular city, it displays the time. This can be controlled as well. You have the option of leaving it on or off. You can turn on or off the distance finder the same way.

The maps are what's different about this program. Sure you can get the flat map version, but you also have the option of topo maps. The oceans are also done in topo. The resolution of the maps are to cities of 300k or more, major rivers and tributaries are also shown.

The next option which I use is map marker. These are little icons you can place anywhere inside a map or ocean. The markers are different colors and shapes, so a number of things can be marked. I mark major SW broadcast sites, one color for active, another color or shape for inactive. Maybe one more later for sporadic clandestine or pirates. The list goes on. One of the icon buttons is the notepad. It's a little like clipboard on Windows, in that it can be storage from information icon or your own notes. Each country has a notepad with a capacity of 512k. This is enough to put SW targets, time and frequency. The ham can also use it for tentative QSO's. Graphing is another function of the program. You can graph statistics from information by top 15, bottom 15, or 15 countries of your choice. Questions like who has the most radios per capita in South America can readily be answered.

Last but certainly not least is what I believe to be the best function of the whole program. You can enter your statistics into a category of your choice. This information can then be graphed and ultimately routed to your printer. My first dbase was the number of SW stations in South America. You can name your own topics.

Finally, since this is a Windows product, it can be minimized on your monitor by dragging the mouse along the borders. Why hasn't someone come up with a Windows version of scanning software or logging database? What a great boost to the hobby if both were to run side by side.

Asian Destinations

Mitch Sams
779 Gallilea Court
Blue Springs, MO 64014



A change of pace this issue, as I clean out a few miscellaneous items from the *Asian Destinations* in-basket: what Asian DX was like many years ago; an analysis of Asian DX from eastern north America; plus more. First, nostalgia.....

Shortwave in Asia, a Look Back. Let's go back to the year 1934 and see what was on the air from Asia in those early days of shortwave broadcasting. Reading from an issue of *Shortwave Craft*: The Far East Radio Station, call letters RV15, was heard operating from Khabarovsk, Siberia on 8570 and 4273 kHz. This station appears to have been widely heard at the time. Among a handful of Indonesians active then was PK3AN, Surabaya, Indonesia on 6040 kHz. In 1938 from Macao, Portuguese China, CQN was being heard on 10135 kHz. Some things never change - VLR, Melbourne, Australia was heard on 9580 kHz - a long time Radio Australia frequency still in use today. This report also noted that "The opening and testing record is now *Waltzing Matilda* instead of the *Song of the Lyre Bird*".

Now to 1941 and a glance at war-time DXing through the pages of the RADEX magazine. Well known listener Arthur Cushen of New Zealand reported hearing ZNR, Aden on 12100 kHz, while another familiar DXer, Roger Legge, reported Radio Levant, Beirut, Lebanon on 8030 kHz. It is surprising to note this report in the June, 1941 issue: "JZJ, Japan, on 11800 kHz with their English service to North America and Hawaii". Just a few months before Pearl Harbor!

On to 1961, and Hank Bennett's column, *Short-Wave Report* in the pages of Popular Electronics. Emissora de Goa (Portuguese India) was active on 4850 and

9610 kHz with English and Portuguese programming. From Singapore one could hear Forces Broadcasting Service (British) on 5010 kHz. This transmitter is active today as Radio Singapore, and is still on 5010.

And finally on this jaunt through time, we look through the December, 1971 *NASWA FRENDEX* (in which the editor for Listener's Notebook was Dan Ferguson!). In a loggings column edited by Jerry Berg, the Vietnamese clandestine, Radio Liberation, was reported on 7393v, 9920, 10010, and 14995 kHz. South East Asia Radio Voice, SEARV, in Manila, Philippines was heard on 17705 at 0300. Two Japanese low-powered outlets were reported; Sendai on 3259 and Hiroshima on 6175.

East Coast Asian DX. This title may sound a bit contradictory. I mean, most people consider the eastern portion of North America, especially southward in the US, to be a poor location for tuning stations in Asia. After seeing some surprisingly good evening Asian DX catches made in places like Virginia, Pennsylvania and Ontario, Canada I began to wonder about this more. How was it possible for east-coasters to log such great evening DX from India and Indonesia, while I was having hardly any luck here in the central US with it?

I was not able to rationalize this occurrence by just grayline position data alone. So, I turned to a computer propagation prediction program - *MINIMUF*. I ran the program for receiver locations in western, central and eastern North America that were attempting reception from both western and eastern Asian stations. For this analysis eastern Asia was defined as an average between Jakarta and Beijing, while western Asia

was defined as Baghdad and Karachi. The charts below summarize these computer runs and represent the minimum usable frequency (due to E-layer absorption) for the various scenarios. Both long and short-path propagation was accounted for in this data. The graphs show that for frequencies and dates which fall below the graph line reception will be less likely, while reception cases which fall above the line are much more likely to occur.

In summary: the occurrences of Asian DX in the eastern north American evenings is collaborated by the results of the computer simulation runs. [See the figures below, where E, C, & W represent east, central, & west North American receiver locations].

Eastern North America. Surprisingly, a listener in eastern North America is equally likely to snare a tropical band Indian regional in the evening, as a morning DXer on the west coast is. Indonesia is open from Oct-Feb in the evenings, but mornings are much more difficult.

Central North America. All of Asia is open from mid-Oct to mid-Jan in the mornings. Evenings are open to western Asia from October to February. Indian regionals are better heard in the evenings rather than mornings. Evening Indonesian reception is very unlikely.

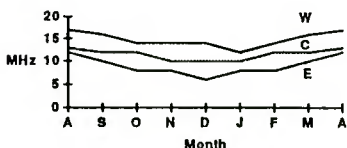
Western North America. Mornings out west are, as expected, the best time and place for DXing eastern Asia. Evenings are not good

for Asia, although India is likely during December.

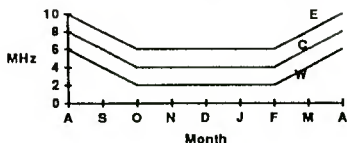
Nepal: Father Moran. I noted with sadness the passing of Father Moran, a well known ham operator (9N1MM) in Nepal. Years ago the Jesuit priest was the radio relay operator for the American expedition to Mt. Everest. A few years ago I came in contact with him through the mail by way of my Radio Nepal QSL request. I had mailed my report to my company's field service representative stationed in Kathmandu and asked if he could help. He had in turn forwarded it to Father Moran. Three months later I found a nice package in the mail with a signed Radio Nepal QSL and a letter and ham QSL from Father Moran. His letter was friendly - the ham card shows the 80-some year old operator at his station with a child by his side. Later, the field service rep wrote me and said that in Kathmandu Father Moran was well respected. Many of Nepal's current leaders were educated at his school.

Czechoslovakia - not Asia, but... The possible, and unfortunate, split of Czechoslovakia would result in an additional new radio country. Three shortwave sites are active: Rimavska Sobota (20.00E/48.23N) & Velke Kostolany (17.44E/48.31N) are both located on the Slovak side, while Litomysl (16.10E/49.48N), is on the Czech side.

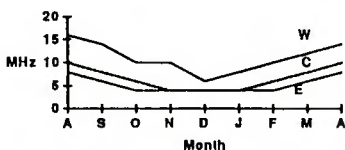
Evening Reception From Eastern Asian Transmitters



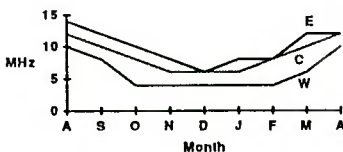
Morning Reception From Eastern Asian Transmitters



Evening Reception From Western Asian Transmitters



Morning Reception From Western Asian Transmitters



Listener's Library

Jerry Ervine
P.O. Box 5204
Hidalgo, TX 78557

Welcome to the Library

I used to get very upset when at school the library was not open before classes would begin in the morning and after classes were over in the afternoon. Also, when the librarian was absent, a substitute was not called in. This was discouraging for both teachers and students who knew the value of a library but could not visit it. This library will always be open and if you cannot find what you need, please let me know and I will do my best to help you. I have been with NASWA for some time now and have noted that its evolution has been an interesting one. My interests go beyond the area of broadcast band listening that the club's format is based on. I know that many of our members have wide and varied interests. Therefore, I am sure that they would appreciate the opportunity of reviewing the literature in their respective area of interest in the hobby.

To provide as complete a library service as possible, I will be reviewing and presenting material from every facet of the radio and TV communications world as possible. A big thank you to the following individuals for helping me to get started: Jerry Berg, John Carson, Jim Feeley, Harry Helms, Michael Murray and Marina Pappas. I appreciate your support and I hope that I can fulfill your needs. It's nice to be back working. Thanks to the guys who hold this great organization together. 73, Jerry

LA DXING

Reviewed by Jerry Berg

One of the drawbacks of Latin American DXing is that, unless you understand Spanish well, stations—at least those within a particular country—can start sounding alike after a while. One way to personalize these stations is to learn something about them—their individual histories, facilities and

circumstances. And the best way to do that is through the recently released 5th edition of "LA DXing," from the Radio Nuevo Mundo (RNM) listeners group in Japan. RNM was established in 1978 as a vehicle for exchanging information on LA stations. Its monthly bulletin is devoted exclusively to LA DXing, and contains monitoring and QSL reports from RNM members, plus LA news reports from other DX publications and occasional special reports.

"LA DXing" is a special publication of RNM. It is 182 pages long, and, like the last edition (published in 1987), its emphasis is on detailed descriptions of the stations themselves. In this edition the focus is on Peru and Ecuador. The heart of the book is "Tormenta DX," a series of informative narratives by RNMer Hirotugu Nabeshima about his visits to 22 Peruvian stations and 16 Ecuadorians, plus two Dominicans (Amanecer and Clarin). Each station profile is two to four pages long, and is accompanied by extensive graphics—station logos, letterheads, program schedules, business cards, pennants, and, best of all, photos of the stations. The photos, along with the author's interesting descriptions of his visits, give you a very realistic feel for the station's operation.

This and the earlier editions of "LADXing" offer a unique window on the Latin American broadcasting scene from a hobby point of view, and provide insight into what the LA shortwave radio scene is really like. If you ever wanted to know about the role shortwave broadcasting plays in the various towns and villages of the area, this is where you can find out.

In addition to the narratives, "LA DXing" contains a 22-page section called "Sintonia DX," which lists all LA stations on the

shortwave bands (including Brazil). The list is in frequency order, with frequencies shown to one decimal point accuracy. And if that isn't enough, another section, "Ventisca DX," contains six articles by well known LADXer Julian Anderson of Argentina on various aspects of DXing Peru, Bolivia, Colombia and Venezuela; AND another section, "Terremoto DX," contains a series of articles by well known LADXers Tetsuya Hirahara, Henrik Klemetz of Sweden and Juan Franco Crespo of Spain on a visit to Radio Casino (Costa Rica), pirate broadcasting in Colombia, radio in the Galapagos Islands, the early days of Venezuelan shortwave broadcasting (with some excellent old YV QSL's provided by—who else?—the Committee to Preserve Radio Verifications), and books and publications for LADXers.

"LA DXing" is an excellent book which I would recommend unreservedly to DXers who want to become more familiar with the world of LA broadcasting. It can be obtained for \$15, cash or international postal money order, from Mr. Tetsuya Hirahara, 5-6-6 Nukui-kita, Koganei-shi, Tokyo 184, Japan, and the price includes airmail postage.

ALL ABOUT HAM RADIO

The recent decision by the FCC to drop a Morse code test for the Technician ham license has resulted in a sharp upsurge of applicants for it. The Technician class is now the most popular entry point into ham radio and the fastest growing license class. If current trends continue, Technician class licenses will be the largest single category of hams before the end of the decade.

However, until now there has been no book available recognizing this major change in ham radio. Existing introductory books still stress learning the Morse code and obtaining a Novice License as a first license. They also assume the reader already has some knowledge of ham radio and is interested in getting a license. There has been no book available that tells - in a readable, accessible way - what ham radio is and what hams do.

Answering this need, **ALL ABOUT HAM RADIO** is an all-new introduction to ham

radio aimed squarely at people who have heard that it's now possible to get a ham license without a code test and want to know more. It assumes no prior knowledge about ham radio or electronics. In over 300 pages, author Harry Helms (operator of ham radio station AA6FW) uses humor and a conversational, friendly writing style to introduce newcomers to ham radio and gently guide them to a Technician license.

Unlike other books on ham radio, **ALL ABOUT HAM RADIO** devotes as much attention to what hams actually do and the culture of ham radio as it does to technical topics. (After all, prospective hams probably get more excited about being able to talk to somebody far away with their own radio than they do about Ohm's Law!) The fun, exciting aspects of ham radio - such as contesting, DXing, and just ragchewing with friends - are stressed more than the "service" aspects such as traffic handling and emergency preparedness (although such topics are covered). An entire chapter is devoted to packet radio to entice serious computer hobbyists into becoming hams. To help newcomers cope with the often bewildering nomenclature of ham radio, there's a series of "Strange Ham Lingo" sidebars throughout the book.

Since it's published independent of any ham radio organization or manufacturer, **ALL ABOUT HAM RADIO** straightforwardly covers topics without equivocation or "doubletalk". It evaluates the pros and cons of the Novice and Technician licenses as entry points into ham radio, and recommends going for the Technician. It discusses the often-controversial roles played by the ARRL and FCC in ham radio, and even reviews currently available ham radio magazines and license study materials. It even tells why some already-licensed hams might be hostile to no-code newcomers.

ALL ABOUT HAM RADIO is the perfect introduction to today's ham radio. It has over 300 pages in a 6x9" softcover format. Each page is professionally typeset and illustrated, with a four-color cover. Its list price is \$19.95 plus \$3.00 shipping and is currently available from the NASWA Company Store.

TUVA OR BUST

Reviewed by Jim Feeley, Norcross, GA

This book, subtitled "Richard Feynman's Last Journey", is an account of the famous physicist's and two friends' attempt to visit what they considered to be the most obscure country in the world.

Their interest was tweaked during an after-dinner game in the summer of 1977, when Dr. Leighton challenged the author to name the country which used to be known to stamp collectors for its triangular and diamond-shaped postage stamps. This is Tannu Tuva, an independent country near Outer Mongolia in the 1930's, but at the time of this narrative was included in the USSR Republic of Tuvinskaya.

The three quickly became curious about Tuva. An eccentric Englishman had erected a monument in the capital, Kyzyl, claiming it to be the geographical center of Asia. Tuvans are noted for their unique "throat singing". A record with examples is included with the book. The author, a high school mathematics and geography teacher who uses shortwave radio as an aid in his classes, attempted unsuccessfully, to obtain a QSL from Radio Tuva.

They decided they had to visit Tuva and embarked upon a decade-long odyssey to obtain permission from Soviet authorities. This included correspondence in fractured "Tuvan" with individuals in Tuva and trips to Europe and the USSR. They even convinced the Los Angeles Natural History Museum to sponsor a Soviet exhibit of Tuvan artifacts with the hope they could travel to Tuva as representatives of the museum. Their tale is humorous but bittersweet as they ultimately lose their race when Dr. Feynman succumbs in his battle with cancer.

The author and his wife eventually received permission and visited Tuva, but, like most quests, found their joy was really more in the effort than in the actual accomplishment. This is a short book that can be read in a few enjoyable evenings. I recommend it highly,

especially to those of us with the same fantasies of wanderlust as Dr. Feynman and his friends.

TUVA OR BUST by Ralph Leighton
Published by W.W. Norton and Company
1991 \$19.95

THE CARTOON GUIDE TO PHYSICS

Reviewed by Jim Feeley

While I was browsing in a bookstore in downtown D.C. the other day, I picked up what has to be the strangest reference book I've ever seen, "The Cartoon Guide to Physics" by Larry Gonick and Art Huffman. All I could think of was, "What a perfect gift for a GM", The authors have broken down the subject into two parts: Mechanics and Electricity and Magnetism. The Electricity and Magnetism features chapters on capacitors, series and parallel circuits, AC and DC inductors and more. This is all presented in an easy to understand style with plenty of cartoon illustrations to make the concepts more memorable. The book is entertaining and informative. It covers more than one might expect.

THE CARTOON GUIDE TO PHYSICS
by Larry Gonick and Art Huffman
Published by HarperPerennial
A reasonable 10 bucks

INTERNATIONAL NEWSLETTER

Reviewed by Jim Feeley

This publication contains a wealth of information for the SWLer. In particular, the monthly list of international holidays and the individual country profiles are of value. The newsletter is available monthly at every Federal Express office and there is no charge.

INTERNATIONAL NEWSLETTER
Published by Federal Express

Equipment Review

Alan Johnson N4LUS
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Bethesda, MD 20817
CompuServe 76665,1756
GEnie A.JOHNSON64

RF SYSTEMS MAGNETIC LONGWIRE BALUN N8KDV 10:1 MATCHING TRANSFORMER

The most common antenna type used by SWLs is probably the end-fed random wire, also known as an inverted-“L”, Marconi or long wire. The term “long wire” is incorrect in most circumstances, as the random wire is usually less than one wavelength long, which is the minimum length required for a true long wire antenna — the mistake is common and I’m guilty of it as well. The textbook definition of the inverted-“L” is a horizontal length of wire suspended as high as possible in the air with a single-conductor wire connected at one end to serve as the lead-in to the receiver. The total length of the antenna wire and lead-in should be $1/4$ wavelength for the lowest frequency of interest ($\text{length in feet} = 234/\text{frequency in megahertz}$). This length turns out to be just about 70 feet for 3.3 MHz. Another part of the definition is a quality ground or counterpoise system at the receiver. This type of antenna system is so popular because it is sensitive to a wide range of frequencies, is omnidirectional in pickup and, most of all, is simple and inexpensive to construct and install.

RANDOM WIRE PROBLEMS

There are several tradeoffs in performance that must be made for this simplicity. One is that the lead-in wire picks up signals just as well as the horizontal portion. Antennas as a general rule should be placed as far as possible from interference sources, but, by necessity, the random wire lead-in has to run right to your home, with its powerlines, TV, computer, etc. — all great sources of interference. Also, the lead-in should be run well away from metal structures such as gutters and window frames. So, why not use a shielded, i.e. coaxial cable, lead-in? This brings up the subject of antenna impedance. Let me forego a definition, and just say that for maximum signal transfer, the impedance of the signal source (the antenna) should match that of its load (the receiver). For frequencies at which the length of the random wire is a quarter wavelength, or an odd multiple of it, the antenna impedance is low, on the order of 60-80 ohms. For even multiples of a quarter wavelength, the impedance can be quite high - 600 to over 1000 ohms. Coaxial cable and the coaxial inputs of most receivers are designed to match a 50 to 75 ohm impedance. Therefore, there will be several points across the SW spectrum where there will be a severe mismatch between the antenna and the coaxial lead-in and the receiver’s input as well. In transmitting applications, any mismatch over about 1.5 to 1 is undesirable. In receiving applications the tolerance is greater, but a less than 2:1 or 3:1 mismatch is preferable for maximum signal transfer. If a single wire lead-in is used, an antenna tuner (Transmatch) can be used to transform the high impedance of the antenna system to match the low input impedance of the receiver’s input. Some receivers have a high impedance input terminal for random wire inputs - but there are still the problems of bringing an unshielded wire into the house. If one uses an antenna tuner at the receiver, but runs coax to the antenna wire, there’s still a mismatch at the point of connection between the antenna wire and the coax, as well the inherent capacitance of the coaxial cable, which adds to the signal loss. So why not do the impedance transformation right at the point where the lead-in connects to the antenna?

ENTER THE BALUN

That’s just what these products do, within limitations. These two products are transformers to reduce the wide swings of the antenna’s impedance to a range that is a practical match for coaxial cable. Balun is a contraction of “balanced-unbalanced”, as this type of transformer was

first used to transform the balanced condition of a dipole to the unbalanced configuration of a coaxial feedline, without any impedance transformation. However, these transformers can also be designed to yield an impedance transformation as well. An additional benefit of such a unit is that it connects the antenna to ground for DC voltages (but not for radio frequency signals), so static charges are bled off the antenna. This bleeding action does not occur with a single-wire lead-in. There are now two products available to the SW hobbyist community for the specific application of transforming the high impedance of a random wire antenna to that required to utilize a coaxial feedline. To be technically correct, they are "un-uns", since both the antenna wire and the feedline are unbalanced systems.

The Magnetic Longwire Balun (MLB) is a product of the Dutch firm RF Systems, Inc. It is distributed in the U.S. by Universal Radio, Inc. and is now available after a long delay following its announcement (production backlog, customs, etc.). It's a plastic cylinder 1 3/4 inches in diameter and 1 1/2 inches long, made from two PVC pipe caps glued together with a binding post at one end and a SO-239 coax connector at the other. It's usable over the frequency range of 100 kHz to 40 MHz. It is priced at \$54.95 (+ \$3 shipping) for the balun alone or \$69.95 (+ \$4 shipping) for an antenna kit with 41 feet of wire, support rope and insulator (but no coaxial feedline).

There is a less expensive alternative, although it has received less publicity. It is a 10:1 broadband matching transformer built and sold by Steven Lare N8KDV. It was originally designed for use with Beverage antennas and required an earth ground at the connection point to the antenna. Steven has now redesigned the transformer so that it requires only that the coax shield be grounded at the receiver, making the transformer suitable for use with random wires. It comes in a 4 x 2 x 1 inch blue plastic box and has two binding posts for antenna/ground connections and a SO-239 coax connector. Its price is \$17.00 plus \$2 for shipping.

IN THE LABORATORY

After four rainy weekends in a row, I was finally able to get out and evaluate these transformers. The test antenna was a 70' length of wire (at least that's how long Radio Shack said it was!) suspended between trees with one end at about 30 feet and the other at about 7 feet. Seventy feet is equal to one wavelength at 13.4 MHz and equals one quarter wavelength at 3.34 MHz. The actual measured 1/4 wavelength point was lower, at about 3.1 MHz, probably due to nearby trees and foliage. I attached either of the transformers or a short wire at the low end of the wire and used a Heathkit antenna noise bridge to measure the antenna impedance directly at the feedpoint. I made measurements at 2 MHz and at the midpoints of each of the international broadcast and amateur bands. I ended up with two sets of curves - the first was just the resistance reading given by the bridge, ignoring the fact that the antenna was non-resonant at many of the data points. The second set was of the calculated feedpoint impedance based on both the resistance and the reactance. I also did A-B comparisons between each transformer, between each transformer and a coaxial feedline and each transformer and a single-wire lead-in connected to the high impedance input of the Kenwood R-1000 used as the test receiver. The receiver's "S" meter was used to compare signal levels.

THE RESULTS

The "resistance" curve for the MLB was pretty well centered on 45 ohms with variation between 40 and 60 ohms throughout the test frequencies except for a dip to 20 ohms at 6 MHz (the 1/2 wavelength point which should be a high impedance point) and a peak to 75 ohms at 11.8 MHz. The N8KDV transformer was closer to 50 ohms at the data points with the same variation except at 6 MHz where the reading was 190 ohms and 11.8 MHz where it was 70 ohms. The 70' wire alone gave readings between 60 and 80 ohms between 2 and 3.75 MHz, rose to 110 ohms at 4 MHz and was unmeasurable (greater than 220 ohms - the limit of my bridge - between 4 and 7.15 MHz). At 7.15 and 9.75 MHz, I got readings of 200 and 190 ohms. There was another off-the-scale reading at 11.8 MHz and above that it varied between 140 and 220 ohms. For the calculated impedance values the curves were similar, but with wider variations in the figures:

the MLB centered about 60 ohms, the N8KDV about 70 ohms, but with more variation than the MLB. The random wire itself varied about a central value of 180 ohms. Remember that these last values also reflect the contributions of a non-resonant antenna length to overall impedance.

A-B testing was very revealing. Comparing either transformer (with coax feeding the 50 ohm receiver input) to a single wire lead-in connected to the high impedance receiver input yielded slightly higher signal levels for the wire but slightly more noise as well. I would expect the noise level to rise in a "real-world" situation, as I was testing out in the yard, away from the usual indoor interference sources. Using the transformers versus coax feeding the random wire alone gave signal strengths about 10 dB higher when the MLB was used and 10-15 dB higher with the N8KDV unit. Comparing the MLB vs. the N8KDV showed that the N8KDV gave signals 1/2 to 1 "S" unit higher than the MLB at most of the test points.

RECOMMENDATION

How essential is a perfect match? For receiving, anything less than a 3:1 match is reasonable, practically speaking. For casual listening, feeding a random wire with 50 ohm coax with no balun will probably work just fine. For those who are sticklers for optimization, I recommend these baluns, although the \$55 (+ \$3 shipping) price for the Magnetic Longwire Balun seems a bit high. Based on price and performance, the N8KDV 10:1 transformer seems to be the best buy. However, I must qualify my recommendation of this unit by pointing out that the quality of the components used might limit its useful lifespan if additional precautions are not taken during installation. All components, including the enclosure, are Radio Shack quality. I doubt that the plastic enclosure is very resistant to sunlight, although I have not done any long term testing. The binding posts and coax connector are plated and will quickly rust if left exposed. Also, the N8KDV balun should not be used as an end insulator for the random wire it is connected to, as I don't think the plastic enclosure will take much strain. All that said, the price (\$17 + \$2 shipping) is certainly right if you don't mind expending a little creative energy in installing the unit. I think I'll install mine suspended from the antenna end insulator and enclosed in a plastic freezer container. The MLB definitely wins in the convenience category.

The Magnetic Longwire Balun is available from Universal Radio, Inc., 6830 Americana Pkwy., Reynoldsburg, OH 43068, Orders 800-431-3939 Info 614-866-4267. The N8KDV 10:1 matching transformer is available from Steven R. Lare, 824 West 25th St., Holland, MI 49423.

THE CENTRAL OHIO SHORTWAVE CLUB

is now forming.



If you are interested in the monitoring hobby you are invited to join the Central Ohio Shortwave Club.

The club will meet the first Saturday of every month from 1:30 to 2:30 PM at Universal Radio, Conference Room, 6830 Americana Pkwy., Reynoldsburg, Ohio 43068. The first meeting will be Saturday August 1st, 1992. Please bring your recent loggings, QSLs or other radio-related material.

● For directions to Universal call:

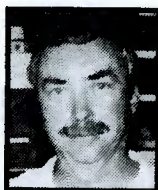
Universal Radio
614 866-4267
800 431-3939

● For club information contact:

John Davis
614 967-3481
evenings.

NASWA Portraits

Jerry Klinck
43 Lein Road
West Seneca, NY 14224



Welcome to another "PORTRAITS" column. As the DX season winds down it seems natural to reflect on what was, albeit abbreviated, a very rewarding year in my shortwave radio history. After putting my much anticipated new shack, complete with an R-8, into operation, I was fortunate enough to log many new stations in several new countries, some of which I never expected to log. QSL's have been coming in nicely, too. I guess the answer to your question is "yes", Vern.

One of the first respondents to my plea for profiles is our guest DXer for this month. He is from my neighbor state to the south, Pennsylvania. So, off we go to the lovely town of Conemaugh for a visit with NASWA's Stephen J. Price. . . .

"It all began in March of 1980. As a young boy of 10 years, I became interested in electronics and radio. I would be given a few old and sometimes broken radios from friends and relatives, to tinker with now and then. For as long as I can remember, my grandmother had an old wooden Philco radio that sat in the corner of her kitchen. I would always beg her to give it to me during every weekend visit because I liked it so much. One weekend she finally said yes."

"I brought the radio home and took it upstairs to my room. There I connected a hunk of wire to the "ANT" screw on the rear of the chassis so I could hear more AM stations. I would always stay up late and DX the AM broadcast band on my small transistor radio during the long winter evenings. My grandmothers' radio always seemed to pull in the AM stations much better than my small transistor radio did. But there was always something strange about my grandmothers old radio that I just could not figure out. The radio had two bands! One, of course, was AM, which I was very familiar with, and the other was a band called SW which I knew nothing about. I could never pick anything up on shortwave at my grandmothers' house because there was nothing connected to the antenna screw for shortwave, just the AM loop inside. Therefore, I did not pay much attention to the shortwave band. That night



in my room, I accidentally flipped the band knob over to "shortwave" and my world of shortwave radio was discovered! I was truly amazed! I could not believe what I was actually hearing! Stations from all over the world, in many different languages were pouring out of the speaker in my radio! I immediately ran down stairs to tell my folks about my discovery. That night I was up listening to such stations as the BBC, Radio Canada, Radio Moscow and many, many more. I was up all night DXing on what I knew was the greatest radio in the world!"

"By the age of eleven, I began to start QSLing and I took a great interest in the shortwave radio hobby. In 1982 I saved up enough money enough money to buy my first new shortwave radio. It was a DX-66 AIR, SW, AM, FM radio from Radio Shack. Over the years I have acquired and used a great many other shortwave radios only to like my new Kenwood R-5000 the best. I also enjoy collecting antique tube-type radios and currently have 155 of them in working order."

I am now 21 years old and a senior at a university, studying to become an elementary teacher. Over the past ten to twelve years I have QSLed 123 stations in 101 different countries and continue to actively QSL. Shortwave has provided me with an incredible education of world geography and a good understanding of world cultures. Most important of all, shortwave radio has given me and continues to give me many hours of excitement and enjoyment."

Many thanks for the interesting profile, Stephen. Till next time 73 & gud DX!

the CPRV page


COMMITTEE TO PRESERVE RADIO VERIFICATIONS

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

...TO SWEDEN, STOCKHOLM


AUGUST 24/81

The Universal Radio DX Club, 2144e Birch Street, Hayward, California, U.S.A. and Radio Sweden take pleasure in confirming your reception report on our DX program dedicated to URDXC. GMT 56 - 11-27-45 S QRG 4420 73 and best DX, David Morgan



David Morgan, K6DDO Arne Skoog, SM5OK

Swedish SWL's have always been among the most active in the world. Even in the early years of radio, Sweden had the largest number of radio licenses to population of any European country. Over the years, Sweden has been able to boast a large number of shortwave hobbyists, many of whom have been among the world's best. Arne Skoog was one of the early names in the SW art in Sweden, eventually becoming the editor of "Sweden Calling DXers" and a household name to DXers of the 50's. He is shown at the right in the top card, which is a QSL issued by the Universal Radio DX Club for a special URDXC program over Radio Sweden in 1956. The URDXC, which was founded in 1933 and lasted into the 60's, itself had a long and interesting history in the SW hobby. +++ The middle card, from 1946, is from Radiotjänst, the Swedish Broadcasting Corp., which operated on shortwave for two hours a day using two 12 kw. xmtrs in Motala. The bottom card is from 1954, by which time the station was calling itself Radio Sweden. +++ If you would like information on the CPRV Registered Collections Program and how you can place stickers on your QSL albums indicating your wish that they be donated to CPRV when the time comes, send a business size SASE to Registered Collections Program Coordinator John C. Herkimer, P.O. Box 54, Caledonia, NY 14423, or to yours truly. 73 --

 **RADIOTJÄNST**
STOCKHOLM

Stockholm March 27 th 1946.

Dear Listener,

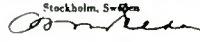
We acknowledge with thanks your report on our transmission July 26 th 1944 on a frequency of 31,46, 25,63, 19,80 and 27,53 m

Please accept this card as our

VERIFICATION OF RECEPTION


We shall be glad to hear from you in the future.

Swedish Broadcasting Corp.
Stockholm, Sweden



Station	Frequency	Wavelength
SDT-1	1846.5	19.13
SDT-2	1311.5	19.20
SDT-3	1176.5	25.52
SDT-4	1078.0	27.82
SDT-5	935.0	32.16
SDT-6	844.3	35.77
SDT-7	802.0	37.40
SDT-8	5712.3	52.35

RADIO SWEDEN
THE INTERNATIONAL SERVICE OF
THE SWEDISH BROADCASTING
CORPORATION
STOCKHOLM SWEDEN



Dear Mr. Nilback,

We confirm that the station you listened to on March 24, 1954, at 11.30 P.M. on 1.000 Mc, or 300 meters, was our station WREY.

Yours sincerely,
R. N. N. N.

SWEDEN HAS THE LARGEST NUMBER OF RADIO RECEIVING SETS PER INHABITANT IN EUROPE

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 GMT (UTC), dates are MM/DD or MM/DD/YY.

ALBANIA - The head *Radio Tirana's* German service visited the German DX club *KWRS*, in Munich, recently & reported that no mail was going out because of a paper shortage. *KWRS* sent a shipment of new QSLs, which have arrived safely in Tirana. (RNMN 6/18)

ALGERIA - *R. Algeria Int'l* heard in Japan from 2000-2059 in EE on 11715 kHz with fair signals. News at start, headlines at end. Announced EE sked was 1700-1800 on 9535 and 17745 kHz, 2000-2100 on 11715 kHz; also Friday 2100-2200. (Nobuaki Takahashi on RJMR 5/24)

ARGENTINA - *RAE*, Buenos Aires, is testing on 26290 kHz between 2255 and 0200. (AC and unnamed Danish friend on RNZI 5/24) [26290? In Southern California that's the Spanish-language CB band.--mf] Three Buenos Aires stations are using military xmtrs near the 11 meter band for relays to Antarctica near 2200. They are *R. El Mundo*, 26099 kHz; *R. del Plata*, 26139 kHz; and *Radio Nacional Argentina*, 26299 kHz. A military xmtr on 15780 kHz also carries sports on weekends; LSB is *R. Continental*, USB is *R. Mitre*. *R. Nacional's* xmtr on 6060 kHz is off the air for good. A recent breakdown of the 30 year old xmtr has proven too costly to repair. (Gabriel Ivan Barrera on RNMN 6/18)

R. Argentina al Exterior has the following Z92 Mon-Fri sked: 1000-0200 on 9690 kHz in PP [as heard]; 0200-0300 in EE and 0300-0400 in FF on 11710 kHz; 1000-1100 in JJ on 11710 kHz; 1100-1200 in PP, 1200-1400 in SS on 15345 kHz; 1800-1900 in AA, 1900-2000 in EE, 2000-2100 in Italian, 2100-2200 in FF, and 2200-2300 in GG on 15345 kHz; 2300-0200 in SS on 11710 kHz. The same xmtrs are used Sat/Sun local time to relay *R. Nacional de Buenos Aires* (870 kHz) home service in SS. (Nobuyoshi Aoi on RJMR 6/7)

ARMENIA - *R. Yerevan* in Armenian & EE to NA is now at *0230 and 0250* on 15580 kHz. (Eric Swedberg-OR and Bruce MacGibbon-OR on RJMR 5/24) [The closing announcement in EE says 17, 19, 25 and 31m.--mf]

BELARUS - *R. Belarus* in Byelorussian to Europe at 1830 on 7420, 2130-2200 on 5960 & 7240. To NA 2330-2400 on 9530, 17605, 17690. (Hans Johnson)

Radio Minsk in German 1830-1900 Wed/Sat on 5960, 6010, 6090, 7420 kHz. (Hans Johnson) The German program *Die Antwort* is aired via *R. Minsk* 1930-2100 Sunday on 5960, 6010, 6090, and 7240 kHz. Address is Box 767, Ch-1701, Frieberg, Switzerland. (Hans Johnson)

Radio Mahileu (ex *R. Mogilev*) *0330 local ID. (Finn Krone in Play DX via DXLD/Hans Johnson)

BELGIUM - From 6/13 *BRTN International* will broadcast to Belgian peacekeeping troops in Croatia at 1700-1755 on 11695 kHz. (*Radio World*, BRTN, via WBI 6/12)

BOLIVIA - *R. Maria Auxiliadora*, Monterio, 4975 kHz, tentative at 0045; ID as "La Voz Catolica del Oriente Boliviano" (the Catholic voice of the Bolivian East), apparently borrowed from *R. Juan XXIII* or *R. Grigota*. *R. Juan XXIII*, San Ignacio de Velasco, 4964 kHz, heard from 2300-2400 in SS with "Encuentro Familiar," pop music, world news. Closed with full ID at 2400. *R. Santa Ana*, Santa Ana de Yacuma, 4648 kHz, heard around 2300 in Buenos Aires. (Daniel Camporini, Radio Panorama, on DXPL 5/24) Reactivated early May after several months of inactivity. (Tony Jones, via NU) Not to be confused with *La Voz del Tropico*, which is 5948.19. (Hans Johnson)

BOSNIA HERZEGOVINA - *R. Bosnia-Herzegovina*, Sarajevo, has added short EE programs at 1900 and 2200 on 612 kHz MW, which is not a clear channel in Europe. (BBCM on RNMN 6/11)

BOTSWANA - Since 6/4 *Radio Botswana* has been heard intermittently during the daytime on 9600 kHz, which appears to be a new frequency for the station. (WBI 6/19)

Current schedule for the VOA Relay at Moepeng Hill is: 6065 0300-0430 EE; 7265 0300-0500 EE; 7280 0300-0500 EE; 9885 0300-0430 EE, 0500-0600 EE; 12080 1830-2030 FF, 2030-2100 Hausa (FF Sa/Su), 2100-2200 FF, 2200-2300 PP; 13675 1600-1800 EE; 13710 1800-2200 EE; 15165 1630-1730 (1700-1730 Sa/Su) Swahili; 15370 2200-2300 PP; 15375 0430-0500 PP, 0500-0530 Hausa, 0530-0700 (Mo-Fr) FF; 15445 1600-1800 EE, 1800-1900 Amharic; 15495 1900-2200 EE; 15600 0500-0700 EE; 15625 1730-1830 PP, 1830-2030 FF; 2030-2100 Hausa (FF Sa/Su), 2100-2200 FF, 2200-2300 PP; 17650 0430-0500 PP, 0500-0530 Hausa, 0530-0700 (Mo-Fr) FF; 17705 1630-1730 (1700-1730 Sa/Su) Swahili, 1730-1830 PP. (VOA Frequency Division BBS)

BOUGAINVILLE - Monitored on 6/19 from 0820-1010, *Radio Free Bougainville* (3880) was heard with frequent IDs as "Republic of Bougainville... Radio Free Bougainville". The signal was very good, peaking S-7 while on DXpedition at a coastal site near Grayland, Washington.

After the "Listeners Choice" music program at 0930, the news in English at 1000 UTC (repeated at 1200) was quite interesting. The announcer quoted a Radio Australia report that humanitarian aid destined for South Bougainville and another area was being blockaded by PNG Security Forces. The prime minister of PNG has confirmed that the shipping of medical supplies from the International Red Cross were approved weeks ago, but the items were diverted in order to service PNG's own Security Forces in occupied areas of Bougainville. The RFB announcer called upon church leaders of Papua New Guinea and the Pacific regions to condemn Papua New Guinea government's continuing operation that will kill more innocent people on Bougainville. "Peace by the barrel of the gun will not solve the current crisis," according to the RFB report. (Guy Atkins, WA)

CHINA - *R. Beijing's* published EE sked to NA starting 5/1 is: to ENA/WNA at 0000-0100 & 0300-0400 on 9770 and 11715, both Mali; 0400-0500 on 11680-Guiana & 11840-Sackville. To ENA only at 1200-1300 on 9665 kHz. To WNA only at 1300-1500 on 11855 kHz. (Bruce MacGibbon-OR on RJMR 5/24)

COLOMBIA - *Caracol*, Bogota, has reactivated its 60m xmtr on 5075 kHz; heard at 1133 with national news. (RMV/QLB/DXPL 5/24)

R. Buenaventura reactivated on 4833.01 at 1000. (Chuck Bolland/DXSF via Hans Johnson) Noted 0215, so evenings, too. (Hans Johnson)

COSTA RICA - *TIAWR*, Alajuela/Cahuita, testing on 5030 kHz in SS *0300-0500. Poor. Nothing like *R. Impacto* in its heyday. 1870 kHz is much stronger, may be 20 kw. 13750 kHz not heard as of 6/18. *R. Caracol* still dominates 6150; no sign of AWR here. AWR's other 49m frequency, 5970 kHz, dominated by Madrid. (RNMN 6/18)

Adventist World Radio, was using two transmitters in parallel in early June. Both 9722.5 and 9725.1 were very strong & causing a het. Definitely not a spur. Heard 6/4 from 2300 in English, 0100 Spanish, on both frequencies. Since 6/6 only 9722.5 from the new Cahuita site, which has replaced the old Alajuela transmitter. Also on // 5030 kHz. (Ernie Behr, Kenora, Ontario)

CROATIA - *R. Zagreb* is being heard widely in Europe on 5085 kHz with a rather weak signal, // 6210, 9830 and 21480 kHz. (Andy Sennitt on RNMN 6/11) *Croatian Radio* heard again on 6210

kHz with much stronger signal 5/31; from 0300 with Croat news & songs; //9830, but no longer on 7240. Sounds like 100 kw now. Per WoR 6/12, transmitters are most likely in Croatia, since there is a transmitter factory in Zagreb. (Ernie Behr)

Hrvatska Radio, Zagreb, now on WHRI, 7315 and 9495 kHz, from 0500-0600 because the Cuban American National Foundation is scheduled in SS 0400-0500; EE news from Zagreb at 0502, occasional EE features after *0520*. The EE news referred to "the President of the so-called Republic of Bosnia-Herzegovina." Ya gotta be careful these days, some countries are real and some are only so-called. (Mike Fern--CA).

CZECHOSLOVAKIA - *R Czechoslovakia International* has replaced 9540 with new 9810 // 7345 in EE to NA at 0400 since 5/5. (Bruce MacGibbon-OR on RJMR 5/24)

A schedule from the Editor-in-Chief, English Language Broadcasting, showing only the name *Radio Czechoslovakia* (no "International"), gives this schedule of English transmissions: 0730-0800 to the Pacific on 17725 & 21705 kHz. To Europe at 0600-0630 & 1000-1057 on 6055, 7345, 9505, 11990; 1700-1725 on 5930, 6055, 7345 & 9605; 1830-1857 on 6055, 7345; 2000-2027 & 2100-2130 on 5930, 6055, 7345, 9605 kHz. To North America at 0000-0027 on 7345, 9580, 11990; 0100-0130 on 5930, 7345, 9580; 0300-0330 on 7345, 9810, 11990; 0400-0430 on 7345, 9810, 11990, 13715, 15355 kHz. Address is Vinohradska 12, 120 99, Prague. (via Kim Andrew Elliott)

ECUADOR - *Ondas Quevedenas*, Quevedo, 3325 KHz, returned in early May; heard well in Quito; try around 1130. One ID is "Ondas Quevedenas, estacion con alcance internacional" (the station with international reach). Modulation a bit low, with some hum. (RMV/QLB/DXPL 5/24)

R.Luz y Vida, Loja, 4851 kHz, heard at 1128 5/21 with religious notice board in SS; normally irregular. (RMV/QLB/DXPL 5/24)

Ecos del Oriente, Lago Agrio, 3270 kHz heard in Quito at 1140 5/22 with good signals but truly awful modulation. (RMV/QLB/DXPL 5/24)

Escuelas Radiofonicas Populares, 5010.3 kHz, operates 0900-0200 (Su from 1800). (Takayuki Inoue Nozaki in Relampago DX)

EQUATORIAL GUINEA - *R. Bata*, 5003 kHz, was heard in NZ at 0500 5/12 during a major geomagnetic storm, with native music, identifying around 0520. (AC on RNZI 6/7) Actually, this was in the *aftermath* of a severe storm. [df]

GEORGIA - *R. Georgia*, Tblisi, 11805.2 kHz., heard at 0600* w/EE ID, TC & sked followed by national anthem. (Roland Schultz, Germany, in Fine Tuning via DXPL 5/24)

HAITI - Lou Josephs vacationed in the U.S. Virgin Islands in late May and was unable to hear any Haitian stations including 4VEH. (RNMN 6/4)

Those wishing to verify the Haitian clandestine *Radio 16th of December* direct, instead of via Radio Miami International, should write to *Patrick Elie, Embassy of Haiti, 2311 Massachusetts Ave., NW, Washington, DC 20008*. Phone number is 202-332-4096. (Jeff White via Hans Johnson)

HAWAII - *World Harvest Radio* plans to build a sw transmitter site on the south end of the Big Island of Hawaii. VOA used to have a 50-kw xmtr, KRHO, on the northern tip of the island of Oahu.

Doug Garlinger, CE, WHR: By adding a transmitting site on the Big Island we will be able to reach a large part of Asia and the Central Pacific and Australia. We are talking with the equipment manufacturers and it looks like the xmtr will be a Harris 100 kw unit like that at WHRI. The antenna will be a TCI slewable curtain. We will point it due west (270 degrees). It will be slewable plus and minus 15 degrees or plus and minus 30 degrees, so it should cover pretty well all the way from Sydney to north of Tokyo.

JM: Programming will be fed from Indiana by satellite. LeSea Broadcasting already owns a TV station in Hawaii. The project is intended to commemorate two anniversaries: Dr. Lester Sumrall's 80th birthday in 1993, and the 60th anniversary of his visit to Asia. Sumrall founded LeSea Broadcasting and World Harvest Radio.

DG: The call letters of the Hawaii station will be KWHR. Our goal is to be on the air by the end of 1993. (RNMN 5/28)

HONG KONG - *Radio TV Hong Kong* heard with a fair signal during relay of Radio Three in English on 17 April. There were occasional bursts of Chinese. It seems like there was a problem with the tapes. No weather reports heard (Leigh Morris in OZ DX No. 71). Loop tape of "Tonight's highlights on Radio Three" in English and Chinese noted on 4/17. (Steve Perkins in OZ DX No. 71, via Rich D'Angelo)

ICELAND - *INBS* noted on new 3242 usb at 2225 & 0725. (Walter Davidson, Ed Cronin, BDXC Communication, via DXLD)

IRAN - *IRIB*, Tehran, carries SS from 0030-0130 on 15315 kHz. Station anmts say EE at 2330-0030 is on 15315, 15260 & 9022 kHz. (Richard Urena, MA, and Andy Sennitt on RNMN 6/11)

IRAQ - Baghdad has moved its 60m xmtr from 4600 to 4750 kHz but did not escape nearby jammers. This freq carries the main AA program // 9725 kHz which is also jammed. Best reception in Sri Lanka is from 1500 to well past 1900. (VG on RNMN 5/21)

Baghdad heard closing at 0400 on 15340 kHz with anmts in AA and EE. (AC on RNZI 5/24)

ITALY - AWR broadcasts from Forli, 0600-0630 EE (Sa/Su), 0630-0700 EE, 0700-0800 Italian, all on 7205 kHz to Europe. 0800-0830 GG, 0830-0900 FF (Sa/Su), 0900-0930 EE (Sa/Su), 0930-1000 EE, 1000-1100 Italian, 1100-1130 GG, 1130-1200 FF (Sa/Su), 1200-1230 SS (Sa/Su), 1230-1300 Swedish (Sa/Su), all on 7230 kHz to Europe. (Rich D'Angelo)

IVORY COAST - Gabon & Ivory Coast signed a protocol allowing *Africa No. 1* to use the Akouedo transmitter (15 km east of Abidjan) to broadcast its shortwave programmes to western African countries. It's a 500 kw transmitter built in 1986. (WBI 6/19)

JAPAN - Moscow apparently dropped its relay on 11735 kHz 5/1 leaving Gabon on 11735 clear for the Media Roundup broadcast at 2330. Heard well enough to record and transcribe easily here 5/17.--mf] Media Roundup will be aired at 2330 Sun UTC via the new UK relays at Skelton on 6025 and 6160 kHz. (RJMR 6/7)

KASHMIR - After replying to an ad in *DX Ontario* I received an excellent quality 60 minute tape of *Voice of Harriat (Free) Kashmir* recorded in Pakistan. Contact Muhammad Munawar Naem, Government Pilot Secondary School, Wahdat Colony, Lahore 54600, Pakistan. Enclose \$5 to cover his costs. (Hans Johnson)

KAZAKHSTAN - *R. Alma Ata* was heard in Japan on 15360 kHz with an international service, signing on at 1830. Programs were in EE until 2000, when Kazakh may have followed. 15385 kHz was parallel and barely audible. Other freqs were announced but unreadable. (Nobuaki Takahashi on RJMR 6/7) The EE service is heard at 1830-1900 on 21490 kHz with fair signals. It is part of the Home Service 2nd program. BBCM says this program is only broadcast Fri/Sat. A later EE program at 2030-2100 is aired daily. This service is carried on 21 [!] SW freqs and 3 MW freqs, including 17605 kHz. (Martin Sauter, Germany, on Fidonet via Andy Sennitt on RNMN 6/11) 15360 and 17605 kHz are heard with fair signals in NZ. (AC on RNZI 6/7)

R. Alma Ata is not on 13620 at 1800-2100 as in June LN and I did not report this. The station is actually R.Kuwait in English at 1800-2100. (Ernie Behr) Sorry, looks like I had an errant piece of text I just plopped down in the wrong place. [df]

KOREA (South) *R. Korea* began relaying the KBS home service on 4/6. Radio One can be heard from 2200-0400 on 9525 kHz. A Radio Korea IS at 2155 precedes the broadcast. The ID given on the hour is that of HLKA, Seoul. (RJMR 5/31)

Radio Korea sked:

5975 ND at 1000 KK, 1100-1200 JJ, 1500 CC, 1600 EE, 1700 KK, 1900 RR, 1945 FF, 2030 KK news, 2100 JJ, 2300-0100 KK.

6135 ND at 1000 KK 1100 JJ, 1300-1400 CC, 1900-2000 EE.

6145 to ENA 1100-1130 KK news.

- 6480 to Eur 1645 Italian, 1615 FF, 1700 KK, 1900 AA, 1945 GG, 2030 It, 2100 PP, 2145 EE 2245 SS, 2330-0015 RR.
- 7275 ND 0030 KK news, 0100 JJ, 0300-0400 KK; 0600 EE, 0700 KK, 0800 JJ, 1000 KK, 1100 KK news, 1130 CC, 1230 RR, 1315 It, 1400 KK news, 1430 CC, 1530 KK news, 1600 RR, 1645 AA, 1730 GG, 1815 FF, 1900 It, 1945 SS, 2015 AA, 2100 KK, 2200 RR, 2245 CC, 2345-0030 Indonesian.
- 7550 to Eur 0600 FF, 0645 GG, 0730 It, 0800-0900 EE; 1545 It, 1615 FF, 1700 KK, 1900 AA, 1945 GG, 2030 It, 2100 FF, 2145-2245 EE, 2245 SS, 2330-0015 RR.
- 9515 1600 RR, 1645 AA, 1730 GG, 1815 FF, 1900 It, 1930-2015 SS.
- 9525 ND 2200-0400 KK.
- 9570 to SA 0900 KK, 0930 PP, 1015-1100 SS. To SEA 1115 Indonesian, 1200 KK, 1400 EE, 1500-1545 Indonesian.
- 9640 2100 KK, 2200 RR, 2245 CC, 2345-0030 Indonesian.
- 9650 to ENA 1100-1130 KK news.
- 9750 to ENA 1215-1315 EE.
- 9870 to ME/Af 1600 EE, 1700 KK, 1730 (? says S - Spanish, but maybe it should be something else, like Swahili?), 1815 FF, 1900 AA, 1945 GG, 2030-2100 KK.
- 11715 To the Americas 1000 SS, 1030-1100 EE.
- 11725 To SA 0930 PP, 1015 SS, 1100-1130 KK.
- 11740 ND 1100 KK, 1130 CC, 1230 RR, 1315 Indonesian, 1400 KK, 1430-1530 CC.
- 11810 to WNA 0600 EE, 0700-0800 KK.
- 13670 to Eur 0600 FF, 0645 GG, 0730 It, 0800-0900 EE, 0900 KK, 0930 PP, 1015 SS, 1100-1145 GG.
- 15170 to WNA 0600 EE, 0700-0800 KK.
- 15575 to NA 0030 EE, 0130 PP, 0215 SS, 0300-0400 KK.
To ME/Af 0600 FF, 0645 GG, 0730-0800 Italian; 0900 KK, 1100-1200 EE.
To Eur 1600 RR, 1645 AA, 1730 GG, 1815 FF, 1900 RR, 1945 GG, 2030 Italian, 2100 PP, 2145 EE, 2245 SS, 2330-0030 PP.

LATVIA - *R. Riga*, 5935 kHz, heard at 0604 with EE, news, sports, music, then Swedish at 0630. (Roland Schultz, Germany, in Fine Tuning on DXPL 5/24)

LESOTHO - *Radio Lesotho* reactivated 4800 kHz in April, but it's irregular. (Vashek Korinek, via Dario Monferini via DXLD, via Hans Johnson)

LITHUANIA - *R. Vilnius*' 2300 xmsn in EE to NA was monitored by BBCM 5/12 on 9710, 11780, 13645, 15580 kHz. and 10334 kHz. USB feeder. (Bruce MacGibbon-OR, quoting Andy Sennitt on SWL Echo on RJMR 5/24) [15580 is the Far East relay replacing 17605 and 17690 kHz. It's not nearly as good, but someone in the CIS is watching the sunspot numbers.--mf]

R. Vilnius ancd 6/8 that its broadcasts on 15485 kHz were on a transmitter in Grigoriopol, Moldova; that the transmitter had been seized by Dniester region separatists, and might cease broadcasting at any time. Suggested listening on 13645 or 15580 if 15485 disappeared. (WBI 6/12)

MADAGASCAR - *RTV Malagasy*, reported on 3232.5 kHz at *0200 by David Sharp in DXSF. Could be punch up error, or replacement for 3288. (Hans Johnson)

MONTSERRAT - *Radio Antilles*, 930 kHz, has begun testing with 100 kw and expects to resume regular broadcasting in late July or early August. It has been off the air for three years since its original 135 kw xmtr was destroyed by Hurricane Hugo. The BBC has helped install a 100 kw Harris xmtr and two phased quarter-wave vertical antennas. Reuben Mead, Montserrat's Chief Minister, says that seven hours a day will be local or regional programming. The rest will be sold to the likes of the BBC, VOA (which provided the new equipment) and DW. No manager had been named in early June. The address is: R. Antilles, P.O. Box 35, Montserrat, W.I. (RNMN 6/4)

MOROCCO - *Rdiff TV Marocaine* on 17595 at 1600 daily in English. (Harry Riddell/DXLD via Hans Johnson)

NETHERLANDS - *Radio Nederland* has signed a contract with the U.S. based AfroSpace Corp. Starting about 1995, it will begin satellite sound broadcasting round the clock to the African continent and the Middle East. The signals will be receivable on radios equipped for digital transmission. The satellite Afrostar will have three antennas on board, serving southern, western and eastern Africa plus the Middle East. Listeners will have to buy a new generation of radios expected to retail at about US\$100. AfroSpace will use the new WARC satellite band at 1.5 GHZ. Most African countries will take up this band in 1993, a year after WARC 92's end. AfroSpace expects to have its satellite operating about 1994. A spare will be launched shortly afterward. Receivers will be manufactured locally. Seven or eight other African countries have expressed serious interest. Kenya TV was the first to sign up. International sw xmtrs will remain in use for years to come. (JM on RNMN 5/28)

The evening broadcast to Asia at 1530-1625 moved to 17610 kHz the week of 6/1 to solve a QRM problem. (JM on RNMN 5/28)

R. Netherlands has moved its xmsns for South Asia from 17605 to 17610 kHz because of Kazakh QRM. (Andy Sennitt and JM on RNMN 6/11)

Radio Netherlands has a free printed report on the Philips DC-777 auto SW receiver by David Rosenthal, N6TST. A second Rosenthal publication, *Radio on the Move*, a guide book to some of the tricks that help minimize interference when installing radios and other sensitive electronic gear in cars, is also free. Available from the well known Box 222, 1200 JG Hilversum. (JM and Rosenthal on RNMN 6/11)

NETHERLANDS ANTILLES - Chuck Roswell said 5/23 that *TWR Bonaire* has been receiving reports of cw interference, particularly to EE on 11815 kHz between 1100-1300 UTC, for two years. (Bonaire Wavelength 5/23) Anyone who hears this interference when Bonaire is using 11815 is urged to record it and send a cassette to the station by air mail so the source can be identified. Bonaire island is so small that attempts to trace co-channel QRM are frustrated by receiver overload.--mf

Listeners who can follow Spanish should try Daniel Camporini's DX program, "Monitor DX", on TWR Bonaire at 0115-0130 Mon UTC on 15375 and 11930 kHz. (RMV/DXPL 5/24)

NEW ZEALAND - The morning transmission of *Radio New Zealand* now closes at 1130, rather than 1210, because of a shortage of water for generating electricity. This saves 65-130 kWh. The morning transmission now starts at 0658, one hour earlier than in the fall. (RNMN 6/18) Morning only if they're really trying hit Europe, which I doubt. Looks like an evening transmission to me. [df]

NORTHERN MARIANA IS - Sked for *KIIBI*, Saipan, is (two hour blocks): 0000 on 17555, 040017780, 0600 17555 & 17780, 0800 15665 & 17555, 1000 on 13625 & 17555, 1200 on 9425 & 13625, 1400 on 9530 & 13625, 1600 on 11580 & 13625, 1800 on 13840 & 15665, 2000 on 9455 & 13840, 2200 on 13840 & 15405 kHz. (via Vernon Hyson)

NORWAY - Norwegian TV reported 6/16 that plans are underway for *Radio Free Burma* to broadcast over one of the 350 kw xmtrs of *R. Norway International* at Kvitsoy. A representative of the Burmese gov't-in-exile said the xmsns could bring heavy protests from the regime in [Rangoon]. A Foreign Office spokesman said "the gov't would be positive" to xmsns by *R. Free Burma* & their struggle to free the country from the military regime. (Bernd ?Erfjord, Norway, on RNMN 6/18)

PALAU - *Voice of Hope*, 9830, still rather weak 6/10 at 1200-1500 fade out, but I heard a report that the power may be around 40 kw now. Only the last address in June LA is correct: P. O. Box 66, Koror, Palau 96940. (Ernie Behr) Widely by European listeners including Olle Alm in Sweden. Engineers on Palau tell RNMN the power is now 40 kw and full power should be achieved before 6/7. (RNMN 5/28) 1991 zip code book shows the U.S. standard two letter postal identifier to be PW. [mf] Moved from 11980 to 11900 kHz at 0300 6/20. *KSDA*, Guam, uses 11980 at other times. *KHBN's* current sked is: 11900 kHz CC 2200-0300, EE 0300-0800; 9830 kHz, CC 1000-1330, Indonesian 1330-1400, CC 1400-1430, Vietnamese 1430-1500. KHBN mail open a Hong Kong mail drop soon. (John Tayloe, High Adventure Ministries, via Mike Fern)

PERU -R. Tacna, Tacna, 9505 kHz, is back on the air; heard in Argentina at 1133 with news and ID; weak signals and QRM. [WRTH 92 says 0900-0100, 250w, good for your low-power HAC.--mf]

R. Andahuaylas, Andahuaylas, 4839 kHz, heard at 2210 with local ads and ID. [WRTH 92 says 1000-0300.--mf] (Daniel Camporini, Radio Panorama, on DXPL 5/24)

Radio Huanta Dos Mil, Huanta, is the station on 4752 kHz; not Hunanca or Huanca as in June LN. R. **Horizontes** on 4509 kHz - location reported elsewhere as Chiclayo or Chachapoyas, not Chachapuya as in June LN. (Ernie Behr)

Radio Villa Rica, OAX5X, Huancavelica; from a QSL, sked is 1000-0400 (Su 1100-0200), 1 kw on nominal 4805 kHz (heard on 4804.5). Address: Apartado Postal 92, Huancavelica, Departamento de Huancavelica. (Takayuki Inoue Nozaki/ Relampago DX)

POLAND - **Electrim**, a Polish company acting on behalf of the state Polish Telecommunications Agency recently signed a contract with the Swiss Asea Brown Boveri Inforcom, Ltd. for delivery & installation of a 250 kW shortwave transmitter. Validity of the contract depends on an agreement between Polish & Swiss governments on financing. (*Polish Radio Warsaw* via WBI 6/12)

Polish Pathfinder Station Rozhgosnia Harcerska, unlisted WRTH-92, noted Sunday 1000-1800. (Wolfgang Bueschel/DSWCI, via DXLD, via Hans Johnson)

PORTUGAL - **Adventist World Radio** broadcasts from Portugal are sked to end June 30 with the three new relays from Russia filling the coverage gap in Europe. (AWR Current, via Rich D'Angelo)

RUSSIA - **Khabarovsk Radio** carries *Radio Rossii* and the first local program at 2000-1900 (23H) on 153 and 216 kHz LW and 621 kHz MW; 4610, and 7210 kHz. The 216 kw xmtr at Birobidjan, capital of the Jewish Autonomous Republic, uses 30 kw and has its own programs in RR, Yiddish and Ukrainian. The first local program is broadcast at 2010-2200 Mo-Fr and Sun, Sat 2100-2400; 2315-2400 Sun, 0200-0300 Su-Fr, 0400-0430 Sat, 0800-1100 Mo-Fr, 0800-1000 Su, 0900-1100 Sa and 1200-1300 Monday. R. *Mayak* from Moscow and the Second Local Program are broadcast on 711, 999, and 1152 kHz MW and 4610 kHz SW. The Second Local Program is broadcast from 0200-0800. (Feodor Brezhnikov, Irkutsk, on DXPL 5/24)

R. *Galaxy*, Moscow, 9880 kHz, is being heard well in NZ from 2100-2400. The mail address for reports is P.O. Box 7, Moscow 117618. (AC on RNZI 5/24) R. *Galaxy* has moved from 9880 to 11880 kHz; still on 1900-2200 with anmts in EE. (Shigenori Aoki and Tetsuya Kondo, Tokyo, via Andy Sennitt on RNMN 6/11) But it's still using the old 31m jingle. (JM on RNMN 6/11)

R. Moscow's own monitoring service was featured in a broadcast or press article picked up by BBCM this spring. 50 employees on one floor of the R. Moscow building listen to 27 international broadcasters on a regular basis. About 50 hours of broadcasts are monitored daily. The service was set up in 1964 by the Central Committee of the Communist Party. Since the takeover by the Russian Federation, the daily digest is sold to banks in Moscow and St. Petersburg, TV channels, and some independent radio stations. (RNMN 6/11)

Adventist World Radio - Three transmitters, each with a power of 200 KW, are now in use to carry AWR programming. The Samara (ex Kuybishev) station will be used for reaching Northern Europe. The Ekaterinburg transmitter will be used to broadcast into Central Europe. The third transmitter is based in Moscow and will be used to reach Southern Europe.

According to Greg Hodgson, a Manager at AWR Europe in Forli, renting the Russian equipment is cheaper and reaches a greater audience than running the existing AWR Europe stations in Italy and Portugal.

The broadcast schedule for the three new AWR sites is:

From Ekaterinburg at 0300-0330 in Russian on 11785; 0330-0400 Croatian (MWF), Serbian (Tu/Th/Sa), Slovene (Su) on 11900; 0400-0430 Romanian on 11900; 1800-1900 Russian, 1900-1930 German, 1930-2000 Polish, all on 7310.

From Moscow at 0230-0300 Arabic on 11785; 0600-0630 Arabic on 11775; 1400-1500 Italian, 1500-1530 Croatian (MWF), Serbian (Tu/Th/Sa), Slovene (Su), all on 9775; 1530-1600 Romanian on 9775.

From Samara at 0430-0500 English on 15125; 0500-0530 German on 15125; 0530-0600 Polish on 12010; 1600-1630 English, 1630-1700 Swedish, 1700-1730 Russian, 1730-1800 Russian all on 15125. (AWR Current, via Rich D'Angelo)

Adventist World Radio, 15125, via Samara site, new name for Kuybishev, heard since 5/24 at *0430 in English, 0500 German, 0530 Polish rel pgm. Polish not on 12010 as reported in recent WoR. (Ernie Behr)

SURINAM - R. *Apinite*, Paramaribo, 5005 kHz, heard in NZ only at rural listening posts when conditions are good, from 0400 to as late as 0500. (AC on RNZI 6/7) QSL form letter says uses 50 watts to 350 watt linear; but since January without the linear. Hopes to have it working again soon. (Richard D'Angelo, in NU)

TAJIKISTAN - *Tajik Radio* First Pgm, from Dushanbe, is 0000-1900 on 4635 kHz. The Second Pgm operates 0100-0500 in Dari & Persian; 0500-1100 in Tajik, 1500-1900 in Dari & Persian, all on 7245 kHz. (WBI 6/19)

THAILAND - R. *Thailand* remained on the air right through the May crisis over the prime minister. Its broadcasts played down the seriousness of the crisis. Home service reception was best on 6070 kHz at 1100-1600. The External service was useless from 0900-1430 because R. Australia moved from 9475 to 9655 kHz. Reception was good after 1430. Thai is carried at 1500-1600, which isn't listed in WRTH 92. Reception on 4830 kHz improved dramatically in recent weeks and provided the only source for EE and other languages. EE is best around 0030-0145*. 11905 kHz was announced but has been buried under heavy jamming for almost a year. (VG on RNMN 5/28)

TURKEY - The *Voice of Turkey* sends the following schedule for English language transmissions effective 3/29-9/6/92: to Europe at 2000-2100 on 9445 (250 kw), 2200-2300 on 11895 (250 kw). To ENA 2200-2300 on 9445 (500 kw); 0300-0400 on 9445 (500 kw). To the Middle East 2200-2300 on 7185 kHz (250 kw). To SW Asia 1230-1300 on 9675 kHz (250 kw).

The Voice of Turkey essay contest features entries from 234 listeners in 27 countries using 14 of the 15 languages in which the station broadcasts. The winners were: Dwight Horan (USA), Barbara Lodge (Britain), Fritz Andorf (Germany), Andre Leonidovich Yermashov (Russia), Nergiz Mehmedova (Azerbaijan), Abdulvahap Jarkas (Syria), and Chou Yuan Yuan (China). The latter could not go on the trip to Istanbul last September.

The Voice of Turkey's German language Department started broadcasts in 1939. At present there are two German transmissions: one at 1630-1730 GMT on 9795 kHz and 1930-2000 GMT on 9445 kHz; both are beamed to Europe. Two regular staff members and eight other persons on special contract are currently working at the German Desk. (TRT Program sked, via Rich D'Angelo)

UKRAINE - R. *Ukraine International* broadcasts to NA in EE at 0000 on 11790, 12040 and 15580 kHz. as of 5/22. (Bruce MacGibbon-OR on RJMR 5/24) Heard on 9870 kHz at 2200 in Ukrainian; severe QRM from ORF Vienna. (AC on RNMN 5/24)

UNITED KINGDOM - *BBC WS* is to begin a soap opera in Russian twice a week in 1993; it is designed to teach the Russians about a free market economy, along the lines of a BBC home service serial, "The Archers", which contained educational material for farmers just after WW2. (ITV Teletext via David Ward, UK, on RNMN 6/11)

BBC's C-Fax reported 6/4 that BBC WS' Arabic language service is being heavily jammed by the Iraqi authorities. Bagdad has resumed the level of jamming it achieved just before the outbreak of the Gulf War. (RNMN 6/11)

As of 7/1, the BBC Relay at Skelton was to come into regular use in the *Radio Japan* General Service, with English at 0500-0600 on 9695 & 0770 kHz, 0700-0800 on 9670 & 9770; 2300-2400 on 6025 & 6160 kHz. The Gabon relay will carry the General Service in EE at 1500-1600 on 15335 kHz & 2100-2200 on 11735 kHz. The EE on 9645 at 1900 & on 11735 at 2300 were to be dropped 7/1. Other frequencies unchanged. (RJMR 6/14)

USA - Updating the *Radio Miami International* information that appeared in June's LN...

Tuesday-Saturday program *Musica, Buzon de Oyentes, DX*, etc. is now called (or replaced by) "*Miami en Vivo*".

The *Radio 16 Decembre* broadcast on 17830 has been moved to 17835 (still at 2100-2300 Monday through Friday). The shift up is to avoid co-channel interference from Deutsche Welle.

Two other changes to note: *Rumbo a la Libertad* is now 0100-0130 (change from 0100-0200); *La Voz del 30 de Noviembre* moves to the 0130-0200 slot (change from 0300-0330).

Latest information in the June *Radio Miami International News* states that "WMRI is expected to be on the air during the second half of 1992."

RMI is also the shortwave media buyer for the Cuban American National Foundation. During the month of May, Cuba began jamming their program "La Voz de la Fundacion" which is aired by WHRI at 0000-0500 Tu-Sa on 9495 kHz. The jamming has occurred intermittently throughout the 5 hour broadcast. The morning transmission on WHRI at 1000-1300 on 9850 kHz has not been jammed. According to RMI, "this is the first time that Cuba has jammed a shortwave transmission from abroad." George Jacobs confirms that as many as two or three Soviet "White Noise" jammers are in use. The FCC has also confirmed the jamming. (Rich D'Angelo)

More on Radio Miami International from a Jeff White "Memorandum" dated 6/5/92: "The FCC construction permit was granted in November of 1991, was received by us during the latter part of December 1991, and is valid until May 1993. During April of 1992, we were authorized to use the call letters "WMRI," and during May we were authorized to use the frequency of 9,955 kHz in the 31 meter band for our tests and initial broadcasts. During the next two weeks, we are planning to register 9,955 kHz for use 24 hours per day during the W92 season, which runs from Sept. 27, 1992 to March 27, 1993."

Jeff also mentions that he met with the CE of WCMQ, an AM station with which WMRI will be sharing transmitter plant. WCMQ's consultant approved the changes made to the corner reflector antenna. Although the antenna will not cause interference to WCMQ, its consultant recommended shifting the location slightly. Some legal technicalities need to be worked out regarding the sublease of the land at the antenna/transmitter site. WCMQ's CE does not expect this to be a problem.

Finally, in closing Jeff says, "The engineers have estimated that it will be approximately three to four months before we can actually have the facility operational." (Rich D'Angelo)

Cuba has been jamming programs aired on WHRI, Noblesville, IN. The evening transmissions of The Voice of the Cuban-American National Foundation from 0000-0500 UTC Tues thru Sun on 9495 kHz. are jammed; the morning transmissions are not. Cuba's fuel shortage may be behind the decision not to jam the morning program.

George Jacobs, WHRI frequency consultant: There is no question that it's jamming. It was clear until 8 o'clock [EDT]. Then one noise jammer came on, very ineffective up here. A second one came on at 8:10. At 8:15 a tremendously high-powered unit just obliterated everything.

JM: Jacobs says he suspects these are HF b.c. xmtrs which have been converted to jamming service. The FCC's monitoring department has confirmed that the B/Cs are jammed. (RNMN 5/28)

Dr. Gene Scott said 5/24 that a third US sw freq will be added shortly, beamed at Los Angeles rather than Europe or the Caribbean. WRMI?? This freq will come on the air before the Anguilla xmtrs. Translations of Dr. Scott's sermons in JJ and FF are being printed regularly as a result of response abroad to the current broadcasts in EE. (Mike Fern--CA)

WCSN, Scotts Corners, Maine, Z-92 sked (2 hour blocks): 0000 on 9850, 0200 on 9350, 0400 & 0600 on 9840, 0800 on 11750; 1400 on 15665, 1600 on 17510, 1800 on 21545, 2000 & 2200 on 15665. The sked for *WSHB*, Cypress Creek, SC: 0000 on 7395 & 13760, 0200 & 0400 on 9455 & 13760, 0600 on 9455 & 9870, 0800 on 9455 & 13615, 1000 on 9455 & 9495, 1200 on 9495 & 13760, 1400 on 13760, 1800 on 17510, 2000 on 17510 & 17555, 2200 on 9465 & 17555 kHz. (via Vernon Hyson)

Voice of America was to conduct tests of a *Variable Carrier Power* modulation system on 6035 & 11835 kHz, from Greenville, at 0300-00430 6/18-7/6/92. The tests alternated periods of normal modulation or audio compression with the *VCI* option. (RNMN 6/18)

VOA, Bethany, had a test of normal AM & compatible SSB on 5745 kHz at 0300 6/18-26. The tests lasted exactly 2 min, 40 seconds, & used 400 & 1000 Hz tones, standard frequencies for audio distortion tests. A company on the East Coast was hired to record & analyze the tests. Reports go to John Vodenik, Upper Sideband Test, VOA Bethany, P. O. Box 227, Mason, OH 45040. (RNMN 6/18)

URUGUAY - *La Voz de Artigas*, Artigas, 6075 kHz, heard very well in Buenos Aires at 2120; also relays R. Integracion Americana, Montevideo, 6045 kHz, at 0100-0200; this program is in SS, PP and EE, lots of economic news. (Daniel Camporini, Radio Panorama, on DXPL 5/24)

VATICAN - *Vatican Radio* broadcasts to Australia/New Zealand in EE at 2245-2305 on 9600, 11830, and 15090 NF kHz. (AC on RNMN 5/24)

VIETNAM - *R. Yenbai* has moved to new 6370, ex 6461 kHz. Heard in Japan with fair signals 1130-1215. 1100-1200 is local languages, 1200-1215 is Vietnamese. (Isao Ugusa on RJMR 5/31)

In a recent issue of NU, David Foster has some interesting observations: *Son La B.S.*, 4631 & 6343 kHz, noted 1205. *Ha Giang B.S.*, ex Ha Tuyen B.S., at 1208 on 4817, up from Beijing on 4815 kHz & undermodulated. *Lao Cai B.S.*, ex Hoang Lien Son B.S., noted at 1216*. *Lai Chai B.S.* at 1207 w/instrumentals. *Cao Bang B.S.*, *1200 w/IDs, spurs +/- 17 kHz. *Bac Thai B.S.* *1153 w/pre s/on mx, 1200 IDs. Also unids on 5061 at *1044-1059* in Vietnamese, and 6387 at *1130-1230* in Viet. (David Foster, in NU)

CLANDESTINE - **KASHMIR** - *The Voice of Independent Kashmir* has moved to 6300 from 6285 kHz. Best reception in Sri Lanka is 1630-1730. A second xmtr on 4080 kHz also heard 1630-1730. Both xmtrs carry the same program but there is a noticeable delay of 10 to 60 seconds between them. This indicates the xmtrs are separate and may have their own studios. (VG on RNMN 5/28)

SRI LANKA - The Indian [sic] government's split with the Sri Lankan Liberation Tigers of Tamil Eelam has brought the Tigers back on SW. The Tigers were banned because they want to add the Indian province of Tamil Nadu to their would-be nation. The LTT has begun tests on 7030 kHz around 0200 on weekends and irregularly during the week, sometimes on SSB. *The Voice of the Tiger* normally operates out of Jaffna on 94.7 MHz. FM. (VG on RNMN 5/28)

CHINA - *The Voice of Democracy*, 8057 kHz, based on Taiwan, reappeared in May & June. The June broadcasts were 26 minutes long & concerned with Tienanmen Square 6/4/89. They were aired at 1300, 1600 & 1800 6/2; 1400, 1800, 2200 6/3; 1200, 1800 & 2200 6/4; and 1200, 1400 & 2200 6/5. (Atsushi Suzuki, ABI, on RJMR 6/14)

MISCELLANEOUS -- DX Programs: Friend or Foe?

Programs on shortwave targeted at the DX hobbyist have certainly come a long way over the years. But I sometimes wonder whether they now contribute to the general DXing malaise which sees people drift in and out of the hobby. Topical programs, such as Media Network, are now very quick to pick up on items of interest relating to new stations. But I'm starting to get the feeling that occasionally we might be better off without this data. The thrill of discovering something new has always been the big attraction for me, but these days most 'new' things are common knowledge hours after they occur, or even weeks in advance. A lot of people now get their kicks dialing up the frequencies quoted on DX and shortwave listener programs without needing to use the traditional DXing skills. (Craig Seeger in ADXN, undated, on RNMN 5/28)

JM: I never thought of this show as designed to take the fun out of the international radio business. True, we often broadcast some home truths that all is not well in parts of the industry. Mind you, there are plenty of challenges left that we can only touch on in a 30-min show like this. If you want to discover everything on your own, then lock the receiver on the tropical bands and rip the phone out of the wall. My frustration is that a lot of people go to a lot of trouble to research material on our behalf, and I can't squeeze all of it in, or the program becomes incomprehensible. We do assume that people have a bit of background knowledge before they find this show in the first place. But no one wants half an hour of abbreviations and insiders' jargon either. (RNMN 5/28)

A letter from Ron Cline, president of World Radio Missionary Fellowship, says, "Final approval is pending for an international radio station in east Africa." HCJB & other missions and church groups are working on the project, which will start as a "local station", and be built "into a shortwave facility." Say another African nation has granted a permit & this, too, "would begin as a small local station." HCJB has permission to start a local Christian station outside Prague. Also working with the Evangelical Alliance of Romania & the Romanian Missionary Society on building a network of Christian stations there. The Ecuadorian government has asked WRMF to start a network of stations in the country's eastern jungle provinces. The letter doesn't state whether the stations in Czechoslovakia, Romania and Ecuador will be "local stations" or shortwave stations, or whether they will start as "local stations" and be developed into "international stations" later. New address for HCJB in USA is World Radio Missionary Fellowship, Inc., P. O. Box 39800, Colorado Springs, CO 80949-9800. (Marlin A. Field, MD)

The following territories of the former U.S.S.R. have claimed that they are not part of any republic recognized by the west in late April and early May:

Checheniya -- Former Chechen-Ingush ASSR. Also called Chechen-Ingushetia. Did not sign treaty creating Russian Federation, so is technically independent. (Moscow Interfax in EE 4/16 in FBIS-SOV-92-080 4/24) The Chechens are the guys who sent supposedly elite Soviet airborne troops home to Russia by bus. Lat 43 N Long 45:30 E. Capital and BC center, Groznyy. No listed SW xmters in WRTH 92. (Mike Fern--CA) [The FBIS Daily Report is titled Central Eurasia but the old FBIS-SOV tag is still used, probably to simplify computerized data-base creation and searching.--mf]

Ingushetiya -- has broken away from Chechen republic, but as of 5/5 had not gained independence from Russia; ad hoc government by local emergency committees. (ITAR-TASS in EE 5/5 in FBIS-SOV-92-088 5/6, via MF) No know SWBC facilities in WRTH 92. [mf]

Tatarstan -- Former Tatar ASSR. Did not sign treaty creating Russian Federation because it believed super-oil-rich Bashkortostan (ex-Bashkir ASSR, capital and BC center Ufa, SW relay on 4485 kHz. 0100-0000) got a sweetheart deal under the treaty. President Shaimiyev said "Tatarstan is an independent state which is associated with Russia on the basis of agreement." (Moscow ITAR-TASS in EE 4/23) Set up own diplomatic service by presidential decree to serve CIS republics and abroad. (Radio Moscow WS in EE 4/22) Created own republican radio-TV company to be paid for with merely oil-rich Tatarstan's own money, ending Russian subsidies. Programming to remain about half Russian, half Tatar. (Moscow Mayak in RR 4/23) Lat 55:45 N, Long 49:15 E. Capital and BC center and humongous RMWS SW xmt site, Kazan; home service SW at Kazan, 6120 kHz, 0400-2000 per WRTH 92. (All items in FBIS-SOV-92-080 4/24 via Mike Fern--CA)

Trans-Dniestria -- That part of Moldova east of the Dneister river, mainly Russian-speaking. Also called Dniester Republic. Lat 46:40 N Long 29:30 E. Capital pro tem, Tiraspol. Moldova wants to leave CIS and rejoin Romania which it was a part of before 1946. Trans-Dniestria lost access to Moscow and Ukraine TV by one-sided Moldovan decision 1/1/92. Set up own TV corporation with Russian help. Began relaying Russian TV by cable about 6/1, hopes to have UHF/VHF xmters on by August with cable or microwave relays. Will add Ostankino TV 1 if Moldova drops that. May add Ukraine TV later. (Radio Rossii in RR 5/2 in FBIS-SOV-92-086 5/4) Seized the Moldovan MW xmt site in the village of Mayak in Grigoriopolskiy district about 5/6. (Chisinau Radio in RR 5/8 in FBIS-SOV-92-091, via mf) Began broadcasting 2 hrs daily in RR, Romanian & Ukrainian on 594, 999, 1467 or 1548 kHz [each 300+ kw] (Moscow Radio 1 in RR 5/13 in FBIS-SOV-92-094 5/14, via mf)

WRTH 92 lists five MW xmters and a big RMWS SW xmt site, all at Grigoriopol, Lat 47:17 N Long 29:24 E, on the east bank of the Dneister, 40 km NW of Tiraspol. (Mike Fern--CA)

Following are subjects of disputes between two of the present recognized republics:

Crimea -- Krym or Crimea Oblast. Originally part of Russian Federation, transferred to Ukraine about 1954. Large RR population, home of ex-USSR Black Sea Fleet. Wants back into Russia, declared independence from Ukraine 5/5, voted to hold referendum later this year. Actions denounced as unconstitutional by Ukrainian parliament. (Paris AFP in EE 5/6) Russian Radio 1 replaced unilaterally by Ukrainian program 5/5. (Moscow Ostankino TV 1 in RR 5/5, both items in FBIS-SOV-92-088 5/6, via fm) Capital, BC center, big RMWS xmt site at Simferopol. [mf]

South Ossetia -- Part of Georgia, wants to rejoin North Ossetia, which is part of Russia. Intermittent fighting with Georgian forces. (RMWS EE 0100 6/15) Russian Parliament told South Ossetia wants to enter Russian Federation directly. (RMWS EE 0000 6/17) Regional AM xmtr at Tshkinvali, 30 kw on 1323 kHz, per WRTH 92. North Ossetia's capital & BC center is Vladikavkaz, formerly Ordzhonikidze; no sw facilities listed in WRTH 92. (Mike Fern, CA)

FUTURE OF SHORTWAVE RADIO -- Is Shortwave Radio Dead, or Just Snoozing?

JM: RNMN received a letter from David Wong of Singapore who asked if international radio isn't doomed now that international satellite TV is busy with big expensive campaigns. Dr. Graham Mytton heads the BBC's International Broadcasting Audience Research Department.

GM: The problem is that international TV is only one among many things that can influence audiences to international radio broadcasting, and it's difficult to separate one out from the other. All other things being equal, if TV arrives in a particular country, international or domestic TV, it does have an impact on radio listening, at least initially.

But the biggest single impact on international radio listening is what's happening in the domestic media scene. Last year we did a survey in Zambia, just before the election. During the election the national broadcaster was being very much used as a party political broadcast for the ruling party, and people were tuning in very large numbers to foreign radio stations, particularly Radio South Africa and the BBC. The BBC audience was four or five times as large as it was at the time when it was previously measured in 1986. And that was almost certainly because the BBC was providing a service of news independently during that election period. I'm sure the audience has fallen somewhat since. I have no doubt those listeners will come back as and when they require something alternative to their own domestic media.

Another point to make, though, is that in all countries throughout the world you find large audiences for international radio broadcasts only when there is government monopoly or a very severe restriction on the number of radio stations broadcasting inside the country. As soon as there is deregulation, audiences to direct SW international radio fall.

JM: Do they fall so low, for example, in Eastern Europe at the moment, I understand some of the figures are dropping quite dramatically, that it makes international broadcasting via shortwave a waste of time.

GM: No, it's not, because although it falls, two things happen: First of all, the major western international broadcasters are available via local rebroadcasts of one kind or another: RFE/RL, BBC, VOA, DW. Most of them are available locally in various ways. But they're not available everywhere, and so they're still getting audiences on shortwave. And besides, they're not always available locally when people want to listen to them. But audiences have undoubtedly fallen. They've fallen somewhat more in some countries than in others, and that again depends on local media circumstances.

JM: Does that mean to say that some of the international broadcasters will have to rethink their programming? Or is it more a question that they have to rethink their distribution?

GM: A bit of both. They've already re-thought their programming. If you look at the output of most of the western broadcasters to East and Central Europe, there has been a re-thinking of the program output, and there has been rescheduling of services and times and so on. And also, of course, there's been more thought given to make programs more attractive as they go out on local stations. A major factor of the Russian services is that they are no longer jammed, they don't need to repeat things as often as they did. The whole thing has changed enormously over the past three years. [pause for truly awful pun with musical background]

People in wireless, or radio, like you and me, Jonathan, get worried about the impact of TV. They think it's going to take audience away. It all depends on how you look at it. It may reduce the amount of time people spend listening to the radio. After all, there's only 24 hours in the day, and you've got to sleep some of the time, so therefore, if there's more media to watch or to consume, the amount of time spent with any one of those media may be reduced. That's certainly true when TV comes along. It reduces the amount of time that some people spend listening to the radio. But the actual reach of radio may not change at all. In fact, in some ways, it may even increase. Consider the number of people who listen to the radio at least once a week: it may not necessarily change. They may listen to it for shorter periods.

JM: Mind you, there are some places in the Americas where shortwave listening has got to a point where some stations are even thinking about shutting off, certainly the Portuguese to Brazil, off altogether.

GM: It's very patchy in Latin America. There are some countries in Latin America where there is still a lot of shortwave listening. Paraguay is one example. There are other countries like the Argentine and Chile where shortwave listening has fallen. Mexico is even smaller, it's very small indeed. So the picture is very mixed, and because it's so mixed, it's still worth broadcasting to those countries where there is still a significant amount of shortwave listening. In Brazil, it's true, shortwave listening has fallen considerably. I think it falls to a low level and then stays at that low level, and you get certain kinds of people because they have a particular interest in the kind of material they get on international broadcasting: world news, particular kinds of programs, like maybe science, or medical, or other specialist programs. Those numbers of people will always be fairly small or just enthusiasts like you and me.

JM: TV is terribly expensive. So foreign-language international TV will be a very difficult challenge, even for the giants.

GM: World Service TV is still only in English. There is talk of some developments in the direction of providing foreign-language versions, especially in Chinese and a few other languages. But this is still a very early date. It's still a service in English, and so therefore you cut out everybody who can't understand English, and most of the world doesn't understand English. And most of our listening is not in English. Most of our listening to the BBC WS is in languages other than English. So those people aren't going to be much affected. And even on the English side, I think you could argue that BBC WS TV enhances radio, inasmuch as it increases awareness and prominence of the BBC worldwide, and people may want to hear more, learn more about something, and they can tune to BBC WS radio and find out. There's a much bigger range of subject material on radio, and things can be done in greater depth on radio than on TV, very often.

JM: And no adverts for hotels, I'm glad to say. (RNMN 5/28)

The Australian pirate *Radio G'day* scheduled a two-day broadcast 6/7 and 6/8 as a non-serious attempt at breaking Australia's overseas broadcasting monopoly with 2 kw. The planned sked was: 1100-1500 and 1800-2000 6/7 on 11400 kHz; 0000-0200 on 6/8 on 15040 kHz; and 0600-0900 on 11400 kHz. (RNMN 6/4)

WARC - WORLD ADMINISTRATIVE RADIO CONFERENCE

More than 1300 delegates from 120 countries attended the WARC in Torremolinos, Spain which will affect broadcast and other radio-based services for years to come.

Shortwave broadcasters were allocated some extra space but serious congestion in the SWBC bands may mean that some broadcasters may move to a more expensive transmitting technology. It is feared that this [may result in the loss of] millions of listeners in developing countries who will not be able to afford new high-tech radios. The problem of sw congestion has become worse since the proliferation of smaller stations in Eastern Europe and Russia. Alternatives suggested include sticking to sw but using the spectrum more efficiently through use of SSB. However, new receivers will cost money. The use of SSB is not supported by big international broadcasters like the BBC and VOA. These organizations say the plan would render most of their listeners' radios obsolete.

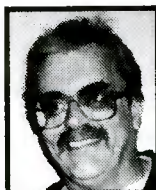
Broadcasters will receive 790 kHz of spectrum but only 200 kHz below 10 MHz. Only 50 MHz is allocated to the 7 MHz band. Broadcasters were seeking 200 MHz in that band. The new extensions will be transferred to broadcasters in the year 2007. They are for SSB only and a future WARC will determine the planning for these bands. It is expected that many broadcasters will commence using the new spectrum space well before 2007. (Michael Stamford, Max White, Paul Youngs, Mike Barraclough in World DX Club's CONTACT bulletin in May).

Thanks to all for info supplied for use here. Submissions may be on paper or MS-DOS diskette, or by EMail to: CompuServe - 76702,771; Prodigy - JDBM33A; even GENIE - D.FERGUSON14. Don't expect a reply on the latter - the offline software's too much of a pain!

Back next month. ... Oh, yes - opinions are still mine, not VOA's! Dan

QSL Reports

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PLEASE NOTE: I guess I should put this in at the start of the QSL Column. It may get hidden if I put it anywhere else. Jim Young wrote to me to correct what I said on page 38 of the last bulletin. The Arkhangelsk site is not in the Karelo-Finnish Rep. Of course not. I had a good long talk with my partial index finger and it told me that it had made some boo-boo's at the keys. Hi! Thanks for keeping me awake Jim...Sam.

AHU DHABI: UAE Radio 13605 p/d brochure cd. in 5 wks. (Howard-CA). 11965 f/d ltr. in 53 ds. w/ schedule. (Martin-CA). Capital Radio 13605 via UAE Radio f/d cd. in 23 ds. (Kusalik-ALB).

ADMIRALTY ISLANDS: Radio Manus 3315 p/d ltr. in 29 ds. for \$1.00. v/s Eliun Sereman, Station Manager. (Durden-CA).

ALGERIA: Radio Algerienne 17745 n/d cd. in 59 ds. for 1 IRC. (No-Name)....please list at the end of each submission....Sam.

ANGOLA: Radio Nacional de Angola 11955 f/d cd. w/ personal ltr. and schedule in 89 ds. for a PT rpt. QSL was rcvd. via registered mail. v/s Luzia Fancony, A Chefe do Gabinete. (Yamada-JPN)

ANTIGUA: BBC 15220 f/d ltr. in 2 mo. for 1 IRC. v/s Roy Fleet. (Pappas-SD).

ASCENSION ISLAND: BBC Atlantic Relay Station 9600 f/d ltr. w/ station info. sheet in 10 wks. for \$1.00. v/s Andrew Marsden. (Moore-KY). 17790 same in 5 mo. for 1 IRC and \$1.00. (Friend).

ASIATIC RUSSIA: AWR-Novosibirsk 11855 f/d cd. w/ site and schedule in 6 wks. v/s Linda Lega, Secretary. (Lobdell-MA). same in 28 ds. via a rpt. to AWR-Europe. (Rigas-IL). Radio Moscow 11900 via Irkutsk f/d cd. in 3½ mo. for ms. (Wallace-CT).

WONDERFUL FREE RADIO LONDON

W.F.R.L.

Worldwide

To: STEPHEN A. DANZAK

This is to confirm your reception report of 1807-1117 UTC of 7E Sat. 1991 on 6135MHz ASM.

AUSTRIA: Radio Austria International 6015 f/d "Curling" ltr. in 53 ds. (Poston). 21490 f/d ltr.- cd., w/ schedule and sticker in 40 ds. for 1 IRC. (Pappas-SD).

BAHRAIN: Radio Bahrain 9746 p/d "Map" cd. in 144 ds. (Yamada-JPN). p/d cd. in 128 ds. My 230th country QSLed. (Kusalik-ALB). p/d "Map" cd. in 108 ds. for \$1.00. (Palm-ersheim-WA).

BELGIUM: BRIV 9925 p/d "Godschiuizen Hospice" cd. in 59 ds. w/ schedule. (Martin-CA). 21819 f/d cd. in 63 ds. w/ schedule. (Poston).

BELOARUS REPUBLIC: Radio Minsk 7140 and 5945 2 cds. in 112 ds. Schedule was rcvd. QSL * was for the Grodno site Home Service (Kusalik-ALB). Radio Moscow 7200 f/d cd. in 3½ mo. for ms. (Wallace-CT).

BOLIVIA: Radio Libertad CP48 5004.8 f/d prepared cd. w/ p/d ltr. in 43 ds. for a SP * rpt. and \$1.00. This was after a f/up rpt. Also rcvd. pennant and sticker. v/s Jaime Rivero Patino, Director. (Palmerseim-WA). Radio Santa Cruz 6135 f/d

ltr. in 4 wks. for a SP rpt. and \$1.00. Pennant rcvd. v/s Victor Blajot S.I., Director General. (Kohlbrener-PA).

BONAIRE: Trans World Radio 15345 f/d cd. in 17 ds. (Gaharan). 11815 and 15345 f/d "Columbus" cd. w/ pennant and schedule in 35 ds. (Pappas-SD).

ERT S.A.

ΕΛΛΗΝΙΚΗ ΠΑΡΕΜΦΟΡΑ ΤΗΛΕΟΡΑΣΗΣ
ΕΛΛΗΝΙΚΗ ΡΑΔΙΟΦΩΝΙΑ ΤΗΛΕΟΡΑΣΗΣ
HELLENIC RADIO TELEVISION

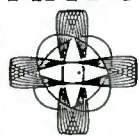


Η ΦΩΝΗ ΤΗΣ ΕΛΛΑΔΟΣ
THE VOICE OF GREECE.

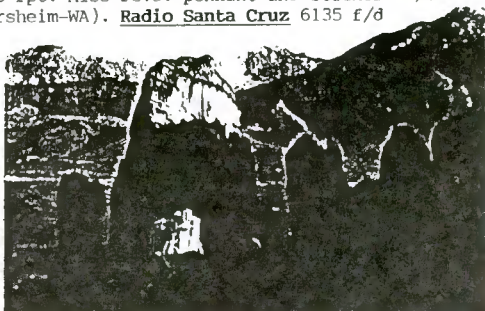
Η ΠΡΩΤΗ ΚΑΙ ΜΟΝΗ ΕΛΛΗΝΙΚΗ
ΕΡΑΔΙΟΦΩΝΙΑ

LA VOZ
EVANGELICA

HRVC



1280 MHz 4.82 MHz 103.5 MHz
via Mich Terrence
Apartment 15-C
TEUCALIFIA, HONGKONG, CA.



NOTES: Nick Grace stated that after several months he was very pleased to receive a QSL from one of those medium-rare stations...BSKSA. Glad your pleased with the QSL and keep reporting...Sam. Brian Boulden says that without the fantastic assistance from Dan Ferguson he would not of gotten his 12 VOA sites QSLed. Brian just added an MFJ-956 tuner to his radio - not sure if it helps but its not hurting!Marie Lamb in Brewerton, NY sent in a new batch of QSLs after a months dry spell. Not too unusual..Sam. Rev. Ed Poston of P.O. Box 286, Ventura, IA 50482 sent in his first report to the QSL Column. Hope to keep hearing from you. We have a few other members of the cloth in this organization. I listed your address in case they may be inclined to write...Sam.

BOTSWANA: VOA 11940 via Selebi-Phikwe f/d cd. w/ site in 7 ds. after a f/up rpt. to Ed Vodenik at the Bethany site.(Rigas-IL)...The VOA in DC did not respond to my original rpt. 15445 f/d cd. in 44 ds. v/s Dan Ferguson.(Kusalik-ALB).

BRASIL: Radio Educacao Rural 5037 p/d cd. w/ personal ltr. in 4 wks. for a PT rpt. and * a taped rpt. Sent along \$2.00. Station will accept EG rpts. v/s Fr. Joseph Henry Stenger C. Ss.R.(Klinck-NY).

BULGARIA: Radio Sofia 11720 f/d cd. in 2½ mo. for 2 IRCs.(Hoersten-OH).

CANADA: Radio Japan 5960 via Sackville f/d "Cherry Blossoms in Fukuoka" cd. in 72 ds. v/s K. Hishikawa.(Schwartz-NY). same cd. w/ site, schedule and sticker in 7 wks. for 1 IRC.(Romeo-NY). CFRX 6070 f/d "ODXA Certificate" QSL in 3 mo.(Kusalik-ALB). f/d "CFRB Plane" cd. in 18 ds. for ms. v/s Stephen Cannery.(Pappas-SD). CFVP 6030 n/d info. sheet in 25 ds. w/ stickers.(Fanderys-OH). CIC 9625 p/d ltr. w/ schedule and sticker in 1 mo. for 1 IRC. v/s Nathalie Chamberland.(Pappas-SD).

CANADA (Pirate): CSTC 7413 f/d ltr. in 4 mo.(Smith-OH). f/d info. sheet in 39 ds. for 3 IRCs.(D'Angelo-PA). CRTC 7413 f/d ltr. in 6 wks.(Terrence-NY).

CHINA, PEOPLES REP. OF: Radio France International 15285 via Beijing f/d cd. w/ site in * 23 ds.(Rigas-IL). Sichuan PBS 6061.3 via Xichang f/d "Horse Drawing" cd. w/ site in 22 ds. after a f/up rpt.(Kusalik-ALB). Hubei PBS 3940 via Wuhan f/d "Kunming Lake / Summer Palace" cd. w/ site via Beijing in 22 ds. Rcvd. issues of China Today and used CH stamps.(Kusalik-ALB). Jilin PBS 3310 via Changchun f/d "Velvet Ornament" cd. w/ site in 22 ds.(Kusalik-ALB). Fujian PBS 4975 via Fuzhou f/d "Mother and Baby in Emperor's Court" cd. in 47 ds. for \$2.00.(Murray). Xinjiang PBS 5060 via Changji cd. w/ site in 1 mo. Postcards and prints were rcvd.(Kusalik-ALB). Zhejiang PBS 2474.8 via Hangzhou f/d "Tai Ho Hall" cd. w/ site in 22 ds.(Kusalik-ALB). 2415 via Wenzhou f/d cd. in 22 ds. w/ site.(Kusalik-ALB). Radio Beijing 7405 f/d "Silk Figurine" cd. in 25 ds.(Kusalik-ALB).

CIS: Radio Moscow 21785 f/d cd. w/o any site in 44 ds.(Gaharan)...I still haven't figured out how to handle the USSR situation. I may still list a few under the USSR heading..Sam.

MALAWI BROADCASTING CORPORATION

CHICHIRI HOUSE, BLANTYRE, (MALAWI).

TELEGRAPHIC ADDRESS: RADHOMALW
TELEPHONE: 471 333

P.O. Box 30133
CHICHIRI
BLANTYRE 1



16th April, 1992

Mr Frank F. Orcutt
4 Teresa Place
Buffalo, New York 14210
UNITED STATES OF AMERICA

Dear Sir

RECEPTION REPORT

With regard to the above subject, we write to thank you for your letter of 18th March, 1992.

We are glad to confirm that your report is correct and that you were listening to the opening segment of our radio station which involves opening drums, station identification, short announcement and then news Headlines.

We appreciate your interest in our broadcasting service and we hope you will continue doing so for a long time to come.

Yours faithfully

T.J. Sineta
FOR GENERAL MANAGER

CLANDESTINE: Radio Free Bougainville

* 3880 f/d cd. w/ ltr. and a form ltr. in 25 ds. for \$5.00.(Yamada-JPN)...I thought \$1.00 was a lot!!...Sam. La Voz de la Federacion Mundial de Ex-Presos de Cubanos 7417 f/d prepared cd. in 3 wks. (OSL #007). OSL says "Transmitiendo desde Tampa, FL" (Zeller-OH).

COSTA RICA: Radio For Peace International 7375 (USB) f/d cd. w/ schedule in 2 mo. for 1 IRC. v/s James Latham.(Pappas-SD).

CYPRUS: BBC East Mediterranean Relay Station 6195 f/d cd. w/ sticker in 47 ds. for \$1.00. (Moore-KY). 15310 f/d "Antenna Array" cd. w/ sticker in 45 ds. (Schwartz-NY).

CZECHOSLOVAKIA: Radio Praha International 11990 and 7345 f/d "Ty1 Theatre" cd. in 51 ds. w/ calendar and sticker.(Poston). 7345 same f/d cd. in 29 ds.(Schwartz). **ECUADOR:** HCJB 11925 f/d "Child" cd. in 6 wks.(Boulden-CA). 15155 f/d "Special Leaping Lamas" cd. in 50 ds.(Kusalik-ALB).

WE LOVE INTERVAL SIGNALS

This verifies your reception of WJLS on 7411 kilohertz on
 March 22 1992 at 0212 UTC.

You have received QSL # 137
 via Lodbell

73s and 86s to Ian McFarland

Charles Poltz Chief Verification Signer



- VERIFICATION SIGNERS:** Radio Riga 5935 Miss Lena Brjantseva, Secretary. Radio Pakistan 17900 Syed Abrar Hussain. Radio Nacional Paraguay 9735 Filemon G. Arguello M. Radio Eastern Highlands 3395 Kiri Nige. Radio Sandaun 3205 Gabriel Deck Walen, Manager. Radio Cora 4915 J.M. Lazo. Radio Sentinela da Amazonia 3285 Miss Maristella Hanoy, Secretaria. La Voz de Sahara Libre 9640 Mohamed Ramin Abdesalam. Addr: B.P. 10, El Mouradia, Alger. Voice of Mojahed 6225 A. Hossein. Addr: M.I.S.S. B.M. Box 9720, London, WC1N 3XX, U.K. Radio Amanecer Internacional 6024 Miss Rosa Alcantara, Secretaria. Escuelas Radiofonicas Populares 5012 Juan Perez Sarmiento, Director. Bayerischer Rundfunk Dr. Gualtiero Guidi. RRI Manado 3215 C.H. Gultony. RRI Ujung Pandang 4753 Kamaruddin Alkaf Yasin, Head of the Broadcasting Department, RRI Yogyakarta 5047 Phoenix Sudomo Sunaryo.....via PLAY/DX.....Sam.
- FRENCH GUIANA:** Radio Japan 9675 f/d "Azaleas on River at Nikko" cd. in 70 ds. for 1 IRC. **GABON:** Africa No. One 17630 and 15475 f/d "Logo" cd. in 100 ds. (Pappas-SD). (Schwartz). Swiss Radio International 12035 via Moyabi f/d cd. w/ site in 30 ds. (Rigas-IL). Radio Japan 11735 via Moyabi f/d "Cherry Blossoms" cd. in 66 ds. (Schwartz). f/d "Fireworks over KanMon Bridge" cd. in 70 ds. for 1 IRC. v/s K. Hishikawa. (Pappas).
- GERMANY (west):** RFE/RL 7220 f/d "Map" cd. in 2 wks. (Gold-MI). Bayerischer Rundfunk 6085 p/d cd. w/ schedule and stickers in 3 wks. for ms. (Klinck). f/d "Observatory" cd. in 18 ds. (Schwartz-NY). Sudwestfunk 7265 via Rohrdorf p/d cd. in 5 wks. for \$1.00 (returned) Also rcvd. 4 different stickers. (Kohlbreuner). VOA 15195 via Munich f/d cd. in 16 ds. w/ VOA Europe schedule and stickers. (Schwartz). 5995 via Wertachtal f/d cd. in 16 ds. (Schwartz-NY). Radio Canada International 15215 via Wertachtal f/d cd. in 23 ds. w/ pennant and sticker. (Millard-TX).
- GUAM:** KSDA 11980 f/d cd. w/ rpt. form in 1 mo. for 3 IRCs. (Pappas-SD). KIWR 11650 f/d "Old Spanish Bridge" cd. w/ personal note, schedule and tourist info. in 28 ds. for \$1.00. v/s Karen Zeck. (Gold-MI).
- GUATEMALA:** Radio Buenas Nuevas 4800 p/d cd. w/ pennant and station info. in 5 wks. for a SP rpt. and \$1.00. (Kohlbreuner-PA). La Voz de Atitlan 2390 p/d ltr. in 137 ds. for a SP rpt. after a f/up rpt. for \$1.00. v/s Juan Ajtzip Alvarado, Director. The ltr. said I heard their program in the Tzutuhil language. (Durdan-GA).
- HONDURAS:** HRC Radio Luz y Vida 3250 f/d cd. in 2 yrs. after a f/up rpt. which was hand-carried by a missionary friend to the station. v/s Paul Easley, Station Manager. Very happy w/ this one! (Smith-OH). f/d personal ltr. in 5 wks. for a SP rpt. w/ tape. and \$2.00. v/s Ubaldo Zaldivar Lopez. (Klinck-NY).
- HUNGARY:** Radio Budapest 9835 f/d "Scenes in Szekesfehervar" cd. w/ schedule in 22 ds. * (Schwartz). 11910 f/d cd. in 2 mo. for 2 IRCs. (Hoersten-OH). Radio France International 15460 via Diosd f/d cd. w/ site in 25 ds. (Rigas-IL).
- INDIA:** All India Radio 9910 via Khampur and 11620 via Bangalore f/d cd. w/ schedule and * rpt. forms in 93 ds. (D'Angelo-PA).
- INTERNATIONAL WATERS:** Radio Caroline 6215 p/d cd. in 38 ds. after 4 f/up rpt. Sent ms. * Addr: CAROLINE, VIA P.O. Box 1514, London W72LL. (Hardester-VA).
- IRAN:** Voice of the Islamic Revolution 9022 p/d cd. w/ schedule and rel. magazine in 13 wks. for a taped rpt. (Klinck). same in 30 ds. for \$1.00. (Millard-TX).



EMISORAS ESPERANZA

Temuco: 106.9 - FM Stereo

Temuco: Banda Internacional 6.090
49 Metros, Onda Corta

Ancud: 98.5 - FM Stereo
CHILE

IRAN: VOIRI 9022 p/d "Aya-tollah Khamenei" cd. in 109 ds. (Moore-KY).

IRELAND: DLR-106 6220.8
* f/d "Logo Sheet" in 21 ds. for a rpt. to the Dublin addr. v/s Paul Davis. (Zeller-OH).

ISRAEL: IBA 9435 f/d cd. in 69 ds. (Gaharan).

ITALY: European Christian Radio 6210 f/d cd. w/ station info. in 47 ds.

for \$1.00. My cd. was QSL # 808 from this station. (Kusalik-ALB).

JAPAN: Radio Japan 17825 via Yamata f/d cd. w/ site in 3½ mo. for 2 IRCs. (Hoersten-OH). 11875 f/d "Japanese Room" cd. w/ schedule and rpt. forms in 70 ds. for 3 IRCs. v/s K. Hishikawa. (Pappas-SD).

KIRIBATI: Radio Kiribati 14917.7 f/d cd. in 26 ds. for \$1.00. (Howard-CA). f/d "Sunset" cd. in 51 ds. for \$1.00. v/s Miss Maile Kiritome, Engineer-in-Charge. (Yamada-JPN).

KOREA, DEMOCRATIC PEOPLES REP: Radio Pyongyang 9977 f/d cd. w/ pennant, calendar and books in 63 ds. for 3 IRCs. (Pappas-SD).

NOTES: Jason Moore checks in as a new member with his first report to the Column. He hope to contribute more in the future. I hope you do...Sam. I must thank **Jerry Klinck** for the very beautiful shack photo and the calendar. Just one question. Who is the ugly dude in the chair?..Sam. **Mike Hardester** says that the QSLs are starting to trickle in. Nothing too great but he is very pleased with the recent addition of Radio Caroline. **Don Hosmer** recently passed his no-code Tech exam and got an Icom 25RA transceiver. Now I have to wait for my call letters before transmitting. Why wait Don...no one else does. Hi!...Sam. **Richard Wallace** finally got his exterior longwire erected. It sure makes a big difference.

KOREA, REPUBLIC OF: Radio Korea 9750 f/d cd. in 49 ds. (Gaharan).

LATVIA: Radio Riga International 5935 f/d "Panorama of Old Riga" cd. w/ schedule in 58 ds. (Yamada-JPN).

LEBANON: Wings of Hope 11530 n/d ltr. in 45 ds. v/s Pete Reilly. (Rigas-IL).

LESSER SUNDA ISLANDS: RRI Kupang 3385 f/d prepared cd. in 15 mo. after a f/up rpt. in * IN for SASE. v/s Alfonsus Soetarno. (Lare-MI).

LESOTHO: BBC 3255 f/d cd. from **LNBS** (Flag style) in 2 mo. after a f/up rpt. to the station. (Smith-OH)...Did you report the BHC reception to the BBC or after a f/up to the LNBS?...Sam.

LITHUANIA: Radio Centras 9710 cd. w/ ltr. in 185 ds. for 2 IRCs. (D'Angelo-PA). **Radio Vilnius** 17690 f/d cd. in 7 wks. for 1 IRC. (Romeo-NY). 11790 f/d cd. in 30 ds. after a f/up rpt. to the station. My QSL stated that the transmission was from an unidentified

site in the USSR. (Rigas-IL).

LUXEMBOURG: Radio Luxembourg 15350 f/d cd. in 5 wks. for 1 IRC. (Gold-MI). same w/ sticker in 17 ds. for 1 IRC. (Pappas-SD). f/d cd. in 23 ds. (Martin-CA).

MALI: Radio Beijing 11715 f/d "Kunming Lake" cd. in 61 ds. (Yamada-JPN). **Radio-diffusion du Mali** 11960 f/d cd. in 24 ds. for a FR rpt. and 2 IRCs. (Durden-GA).

MOLDOVA: Radio Moscow 12070 via * **Kishinyov** f/d :Moskva River near Kremlin" cd. in 45 ds. (Schwartz)

MONACO: Trans World Radio 9480 f/d cd. w/ schedule in 40 ds. for 1 IRC. (Pappas-SD).

NEW BRITAIN: Radio North Solomons 3325 f/d fancy ltr. in 61 ds. v/s A.L. Rumina. (Grace-MA).

DLR 106 FM YOUR LOCAL RADIO STATION

INTERNATIONAL RECEPTION VERIFICATION

RECEIVED BY: **Chris Lobdell**

TRANSMISSION DATE: **8-3-92**

TIME: **08:05 - 05:56 and 07:01 - 07:24**

PROGRAM: **Doing Today (Country Music Show)**

V.H.F. CTE 250w (1000kHz)

SW 120w (6220)

DUR LAUGHARE LOCAL RADIO is a voluntary community based radio station with a large variety of programming, including country and western, live bands programs, reggae, classical and even an Elvis special.

The station commenced broadcasting on 17th Feb '91 on 106FM and on 29th Feb '92 on 6220kHz.

Thank you for sending us your reception report, and we hope you will hear from us again.

NOTES: Jerry Klinck says that he has photo copied and enlarged copies of the QSL Column for easier reference. Sounds like a good idea...Sam...Want another good idea to assist you in obtaining QSL? If you are trying for a QSL from a station that one of our members has just reported to the Column, xerox that particular page of the QSL Column and send it along with your report. Stations like to read about themselves. It works especially well if I have featured a copy of their verification. Try it! **Steve Martin** of P.O. Box 525, Garden Valley, CA 95633 is a "new member" after a 20 year absence from the hobby. Things sure have improved since the DX-160. This hobby is like hemorrhoids. You can forget about it for many years but it always seems to come back to haunt you...Sam. **Dave Turnick** says that his last two reports to this Column were returned marked "Forwarding address unavailable"????? I haven't gone anywhere and I believe the address at the back of the bulletin is still valid. Is anyone else having this problem?...Sam.

NEW GUINEA TERRITORY: Radio Sandaun 3205 p/d form ltr. in 35 ds. for \$1.00. v/s Gabriel Deckwalen, Station Manager. (Durden-GA).

NEW IRELAND: Radio New Ireland 3905 p/d ltr. in 22 ds. for ms. v/s Otto A. Malatana, Station Manager. (Kohlbrenner-PA).

NEW ZEALAND: Radio New Zealand International 9700 p/d cd. w/ schedule and t-shirt in 6 wks. (Klinck-NY). 17770 p/d "Queenstown" cd. in 6 wks. for 3 IRCs. (Kohlbrenner-PA).

PAPUA NEW GUINEA: Radio Northern 3345 p/d ltr. in 2 mo. for \$1.00. v/s Misael Pendaia, Station Manager. Have now QSLed all PNG stations: (Lare-MI). p/d ltr. in 6 wks. for ms. (Kohlbrenner-PA). **Radio Southern Highlands** 3275 2 page p/d ltr. in 34 ds. for 2 IRCs. v/s Andrew Meles, Station Manager. (Durden-GA).

PERU: Ondas del Rio Mayo 6803 f/d prepared cd. w/ personal ltr. in 2 mo. for a SP rpt. * and ms. (used). Also rcvd. a very nice red felt pennant and a photo of Nuevo Cajamarca. v/s Ediberto Poralta Lonada, Gerente General. (Orcutt-NY). p/d ltr. w/ hand stenciled pennant and a tape of music in 92 ds. via registered mail. Addr: Jr. Huallaga 348, Nueva Cajamarca. Dpto. de San Martin. Very happy w/ this reply since I sent my rpt. to the wrong Dpto: (Grace-MA)...The next day I went to church!

PHILIPPINES: VOA Poro/Tinang 17725 f/d cd. in 69 ds. after a f/up rpt. Also rcvd. VOA stickers and complete schedule. (Kusalik-ALB).

POLAND: Polish Radio Warsaw 7270 f/d "Lubien" cd. w/ personal ltr. and schedule in 110 ds. (Moore-KY).

PORTUGAL: VOA 9690 via **Gloria** f/d "Crosley Transmitter" cd. in 47 ds. (Palmerheim-WA).

RHODES: VOA f/d "White House" cd. in 16 ds. (Schwartz-NY).

SAIPAN: KHBI 15665 f/d "Dipole Antenna Array" cd. in 1 mo. for ms. (Galgano-NY).

SENEGAL: ORIS 4890 f/d cd. w/ personal ltr. and station sticker in 1 mo. for a FR rpt. and \$1.00. v/s Namadu L. Sanb. (Kohlbrenner-PA) f/d cd. in 31 ds. for \$1.00. Sticker was rcvd. (Millard-TX).

SINGAPORE: Singapore Broadcasting Corporation 5052 f/d cd. w/ personal ltr. in 27 ds. for 1 IRC. v/s Lee Wai Meng. (Murray).

SOLOMONS: SIBC 9545 f/d cd. in 80 ds. after a f/up rpt. for 3 IRCs via registered mail. (Christen-)

SWEDEN: Radio Sweden International 21500 sen). f/d cd. in 53 ds. w/ schedule and sticker. (Poston-)

f/d "Stockholm" cd. in 9 wks. for 2 IRCs. (Pappas-SD). 9695 f/d cd. in 44 ds. w/ sticker and schedule. (Martin-CA).

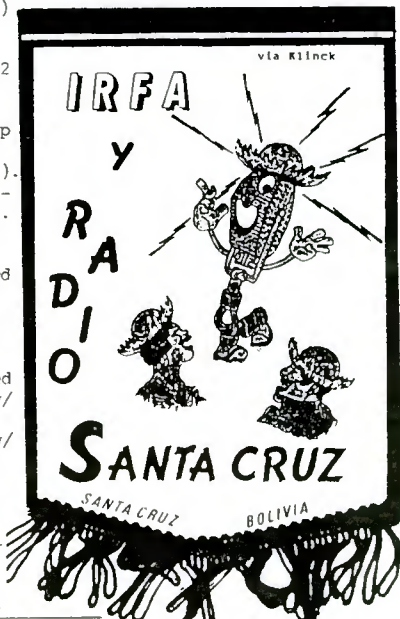
SWITZERLAND: Swiss Radio International 6135 f/d cd in 40 ds. (Barto-CT). **Red Cross Broadcasting Service** 6135 f/d "Logo" cd. w/ schedule and sticker in 71 ds. (Schwartz). 21695 f/d cd. in 23 ds. for 1 IRC. (Poston).

SYRIA: Radio Damascus 15095 f/d cd. via registered mail in 48 ds. for 1 IRC. Also rcvd. sticker w/ "Syrian Times" newspaper. (Martin-CA).

TAIWAN: Voice of Free China 11745 f/d "Art" cd. w/ schedule and sticker in 33 ds. for 3 IRCs. (Pappas-SD).

TURKEY: Voice of Turkey 9445 f/d cd. w/ schedule and stickers in 24 ds. for 1 IRC. (Romeo-NY).

UKRAINE: Radio Kiev 15180 f/d cd. in 150 ds. (Poston-). 17690 f/d cd. in 5 mo. for 1 IRC. (Boulden-CA). **Radio Moscow** 11745 via **Vinnitsa** f/d "Railway Terminus" cd. in 69 ds. (Schwartz-NY).



UKRAINE: Radio Rossiya 11840 via **Vinnitsa** f/d prepared cd. in RS in 5½ mo. (Kusalik-ALB).
* **RAINE Moscow** 7105 via **Simferopol** f/d cd. w/ personal ltr. and station pin in 13 wks.
v/s Mrs. Elena Osipova. (Klinck-NY).

USA: WIRI 7315 f/d cd. w/ schedules and rpt. forms in 41 ds. (Schwartz-NY). 9465 f/d cd. in 57 ds. for ms. v/s foren Holycross. (Pappas-SD). 13760 f/d cd. in 111 ds. (Schwartz-NY). **WJCR** 7490 f/d "Globes and Cross" cd. w/ sticker and ltr. in 10 ds. (Millard-TX). same in 14 ds. w/ info. packet. (Kusalik-ALB). f/d cd. in 1 mo. v/s Geri Powell (Boulden-CA). f/d cd. w/ sticker in 2 wks. for ms. (Pappas-SD). same in 10 ds. for ms. (Palmerheim-WA). **WINB** 15295 f/d cd. w/ schedule in 40 ds. for ms. (Pappas-SD). **KVOH** 9785 f/d cd. in 5 mo. for \$1.00. (Boulden-CA). 17775 f/d "World Map" cd. w/ schedule and sticker for ms. in 1 mo. v/s Patrick C. Kowalic. (Pappas-SD). **WRNO** 7355 f/d certificate QSL in 6 mo. after a f/up rpt. v/s Joseph M. Costello III. (Boulden). **WYFR** 7355 f/d cd. in 3 wks. for ms. (Pappas-SD). **VOA Delano** 9465 f/d cd. in 8 mo. after a f/up rpt. (Boulden-CA). 17800 via **Dethany** f/d "50th Anniversary" cd. in 2 wks. for a * rpt. direct to the site. (Palmerheim-WA). **Radio Miami International** 7395 via **WRNO** 7395 f/d blue "Caribbean" cd. in 55 ds. for \$1.00 after a f/up rpt. v/s Jeff White.

USA (Pirates): WSKY 7415 f/d w/ station info. sheets in 41 ds. for ms. (Palmerheim-WA). (Romeo-NY). **WYMN** 7414.2 f/d "Evolutionary Woman" ltr. in 9 mo. for ms. Notice the 9 mo. answering period - very clever! (Palmerheim-WA). **WVOL Voice of The Loon** 7420 f/d cd. in 3 wks. v/s Captain Willy and J.J. Loon. (Smith-OH). **Radio OHM** 7417.5 f/d QSL #4 in 5 wks. Addr: P.O. Box 40554, Washington DC 40554. (Smith-OH)(?) **WBNY** 7425 **Voice of the Rodent Revolution** f/d QSL sheet in 1 mo. Same addr as above. (Smith-OH). **Voice of Stench** 7415 via **WSKY** f/d "Save our Queen" cd. w/ ltr. in 2½ mo. (Smith-OH). 7416 cd. w/ short personal ltr. in 79 ds. for 3 ms. (D'Angelo-PA). **Voice of Shakerag** 7415 via **R.B.G.N.** f/d cd. in 12 ds. w/ info. ltr. for \$1.00 (returned). (Kusalik-ALB).

Radio USA 7420.6 f/d "Joe King Mic" ltr. in 3 mo. for 3 ms. v/s Mr. Blue Sky. He sure blue now! (Smith-OH).



NOTES: Ernest Lawrence in Perry, NY hasn't done too much DXing lately but he says the mailman has treated him fairly. Thats all we ask...Sam. **Ross Comeau** has sent along some good contrast reproductions for use in the QSL Column. We'll get them in soon...Sam. I also want to thank **John Sgrulletta** for a nice letter. Good to hear from you...Sam. **Jim Solvano** in Seneca Falls, NY says his new Drake RB is a vast improvement over the Grundig SAT500. Jim says Radio Tirana sounds like it is in the same room with him. I couldn't think of anything more horrible...Sam. Thanks for your comments guys.

WLIS 7413 f/d cd. in 65 ds. for 3 ms. v/s Charles Poltz (Moore-KY). f/d "Ian McFarland" cd. in 38 ds. for 3 ms. (D'Angelo-PA). same cd. w/ form ltr. in 6 wks. from the BRS addr. (Lobdell).

RFM 12055 f/d cd. w/ ltr. in 3 wks. (Smith-OH). **Voice of Laryngitis** 13800 f/d cd. in 10 wks. from the Wellsville addr. Card is a photo print of an OM w/ lips taped shut w/ masking tape, with the name of the station written on the tape. Full data on the back. Also sent along a letter called "The Laryngitis Silence Monitor" personalized with my name. Very Imaginative! Next to the Radio Blandex "DX Condom" this is my favorite pirate QSL! (Lobdell-MA). (Martin-CA).

VATICAN CITY: Radio Vatican 15090 f/d "1931 Microphone" cd. in 43 ds. w/ schedule.

VENEZUELA: Radio Nacional de Venezuela 9540 green "Logo" cd. w/ ltr. and info. sheet in 7 wks. v/s Martin G. Delfin, EG News Director. He has been a DXer since 1976 with lots of QSLs. (Berg-MA). **Ecos del Torbes** 4980 f/d cd. in 18 wks. for a SP rpt. and \$1.00. v/s G. Gonzalez Lovera. (Lawrence-NY).

WEST BERLIN: RIAS 6005 p/d "RIAS Building" cd. in 13 ds. w/ stickers. (Schwartz-NY).

WEST IRIAN: RRI FakFak 4789.7 f/d prepared cd. in 15 mo. after a f/up rpt in IN for SASE. v/s Aloys Ngotra. (Iare-MI).

Hope everyone enjoyed this QSL Column. Until next time....73s Sam.

Sam

Contributors' Page

Vernon Hyson
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Charlotte, NC 28215
CompuServe 76516,1531



LOGGINGS CONTRIBUTORS - JULY 1992 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA NRD525 various Longwires
Guy ATKINS, Bonner Lake, WA R390A R8 T2FD 380' Mini Beverage
Jerry BERG, Lexington, MA R8 HQ180A R390A 150' Longwire
BOSTON AREA DXERS, Boston, MA
John BRYANT, Orcas Island, WA NRD525
John CARSON, Norman, OK NRD525 Sony2010 ATS803A SPR4 NC183D
AD Sloper Beverag
Jim CLAR, Rochester, NY FRG8800 ATS803A Eavesdropper
David CLARK, Newmarket, ONT R7 (2) HQ180C Collins 51S-1 Antenna Farm
Mary Jane COLE, Jasper, TX Sony 2010 20' Random
Patrick CRUMHORN, Austin, TX NRD525 Random Wire
Richard D'ANGELO, Wyomissing, PA R70 AD Sloper
Adie DURDEN, Albany, GA NRD515 SE3 Inverted V
William FLYNN, Cave Junction, OR R2000 TUN3 Sony 2010 R7A 140' LW 85' Dipole
Harold FRODGE, Midland, MI R71A AP4 DX302 Sony 2002 Trap Dipole 185'
Random Wire
Nick GRACE, Harvard, MA TS440S 800' LW
Richard HANKISON, Prairie Falls, KS R5000 AD Sloper
Chris JACKSON, St. Louis, MO R5000
Hans JOHNSON, Columbia, MD R8 AD Sloper 50' LW
Rufus JORDAN, Pittsburgh, PA DX302 Transoceanic
W. KARCHESKI, Holden, MA R5000 AD Sloper
Jerry KLINCK, West Seneca, NY R8 R5000 HQ180A Sony 2010 350' Mini Bev 2
60mDipole
Marie LAMB, Brewerton, NY R600 20m Longwire 400' Beverage
Harold LEVISON, Philadelphia, PA R70 D2999
Kevin MURRAY, West Linn, OR R8 Eavesdropper
Sheryl PASZKIEWICZ, Manitowoc, WI NRD515 NRD525 Eavesdropper Random Wire
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Robert TUCKER, Savannah, GA ATS803A
Dan UNRUH, Ellensburg, WA R71A S107 Random Wire
Juichi YAMADA, Nara, JAPAN NRD525 50m Dipole

Welcome back some familiar names and welcome to our new reporters! And thanks to all who reported the past year and made the Loggings Sections so enriching for our hobby! We are enjoying one of the benefits of a local group of DXERS & SWLs with some of the loggings from the Boston Area DXers.

Ah, the summer static!! A good time for antenna maintenance and preparation for the DX season we know is coming. Be careful tho...ladders, lightning and wires are sometimes not compatible.

Enjoyable listening & good DX -

FOR SALE; ICOM R-71A. Customized by Gilfer. Has 4.0 kHz filter and Pre-amp effective into AM band. A-1 shape. \$625.00 including shipping. Also Customized Beam Headings (from/to) and Distances (MI/KM) to over 475 WRTH-92 transmitter sites including new Russian Republics. ITU Country Codes included. Send your location or coordinates. \$6.95. WRTH-91, \$10.95. Complete "Passport to World Band Radio" '89, \$6.95. All items include shipping. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398, not collect.

Tropical Band Loggings

2000-5900 kHz

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



- 2410t NEW GUINEA R Enga 5/30, 1133-1219 choral singing, humming, drum 13, ment Melbourne R. No ID-my 50th try at this (Murray)
- 3220 NEW GUINEA R Morobe 5/9, 1222-1300* variety mx pgm incl Simon & Garfunkel, 1256 Kundu ID, NA (Murray-OR)
- 3259.7 SUNDAS RRI Kupang 5/10, 1603-1701 Jak nx, EZL mx, 1659 IS, 1700 Jak nx, SIO=242 (Yamada-JAPAN)
- 3275 PAPUA R Southern Highlands 5/24 1202-1301* choral singing, "This is Muruk," jazz, "Karai bilong Muruk" C&W, EG ID (Murray)
- 3280 CHINA Vo Fujiang 5/4 1155-1240 CH class mx, 1229 Fujiang ID, W read nx to 1240 f/o, lots of CW QRH (Murray-OR)
- 3316 SIERRA LEONE SLBS 5/29 2302-2330 sev EG IDs, "This is Freetown," poor sig (BAD) = Boston Area DXers
- 3320 SOUTH AFRICA R Orion 6/1 0010 Moody Blues, ID, anmts in EG & AK, very strong sig (Durden-GA) 5/9 0237 ex 4810 I presume for their winter, pop mx, EG/AK anmts (Johnson-MD)
- 3325 GUATEMALA R Maya 5/23 1030-1115 s/on anmts in SP, then Indian lang (Danjovan?) Bible reading, greet, Christian mx (Durden-GA)
- 3335 NEW GUINEA R East Sepik 5/1 1055 PD tlk, Christopher Cross mx ID 1059, provincial nx, weak & fading (Durden-GA) 5/23 1229-1304* choral singing, "Sepik R." IDs, many ment PNG, oldies, chorals, no NA (Murray-OR)
- 3355 NEW GUINEA R Simbu 5/7 1010 island mx, ID 1012, ute not a problem in LSB (Johnson-MD)
- 3376.7 ANGOLA RN 5/10 0050-0154 PT tlk, lite instls, ID 0100, nx, Afr. & PT/US pops incl. Anita Baker //4950.8 (Alexander-PA) 5/10 2344 nice sig //4950.8 (Johnson-MD)
- 3377.5 JAPAN NHK Osaka 5/6 1253-1300* JF/?? lang lesson, strong for 500 w! 3+1 TP 1300, S5, some splash from PNG 3375 (Flynn-OR)
- 3385 NEW BRITAIN RENN 5/30 1236-1300* choral sing, PD tlks, 1239 "Tavuvur" ID, C&W, chanting, EG ID 1258 (Murray-OR)
- 3395 NEW GUINEA R Eastern Highlands, 4/30 1100-1125 ID, prov. nx ment candidates in upcoming election (Durden-GA)
- 3500 COLOMBIA LV Guainia 5/21 0941-1015 campesino mx, anncr explaining how to obtain citizenship card, ID (Durden-GA)
- 3905 NEW IRELAND R New Ireland 5/9, 1155-1216 C&W mx, 1301 ID, ment PNG, Kavieng, "Earth Angel" oldies, C&W (Murray-OR)
- 3955 KAZAKHSTAN R Alma Ata 6/2, 1835-1859 EG nx, local mx, cmtry, closing anmt, 1847 "You are listening to R Alma Ata" (Yamada)
- 3980 GERMANY VOA Relay, 6/7, *0329 CZ IS, ID, nx (Lamb-NY)
- 3995 GERMANY DW 6/4 0243 GM class mx, tlk abt orch, IS, ID, nx (Lamb-NY)
- 4050U ASIATIC RUSSIA unid feeder, 5/6 1312-1331 RS tlk, EG rock mx, S5-? (Flynn-OR)
- 4405 USA WWCR 5/9 0400-0430 spur from 7435. 7435-5920=1515; 7435-(2x1515)=4405 (Alexander-PA)
- 4409.2 BOLIVIA R Eco, 5/25, 0145-0200 SP ballads, ID (Alexander-PA)
- 4449.9 BOLIVIA R Frontera, 5/23, 0053-0058* echo anmts, ballads, ID at s/off, harp or guitar fanfare & off (Alexander-PA)
- 4509.3 PERU R Las Palmas 5/10, 0233 Andean mx, TC & ID, much QRH SIO=222 (Grace-MA)
- 4600 BOLIVIA R Perla del Acre, 5/23, 0205-0240 ballads, DJ chatter, ID (Alexander-PA)
- 4679 ECUADOR RN Espejo, 6/10 0125-0215, real tops n pops format, 2 big IDs, promo, ad strings w/echo, skit (Jordan-PA)
- 4765 CONGO R Congo (name change?) 5/30 2324-2359* FR hilife, 2356 ID, sked, NA, SIO=454 (D'Angelo-PA)
- 4770 NIGERIA R. Nigeria 6/7 0456 Commodores, George Benson mx, drums, ID, TC, Brian Muhammad w/"Nx Nationwide" (Lamb-NY)

- 4795t CAMEROON RTVC Douala 6/7, *0449 NA, Sunday church svc, Afr. choral mx in FR (Lamb-NY)
- 4795 ECUADOR LV de los Caras, 5/9, 0416-0453 "musica romantica" pgm, long tlks, occasional IDs, SIO=444 (D'Angelo-PA)
5/9 0550-0611* on late w/ballads, tlks, ID, abruptly pulled plug in mid-song (Alexander-PA)
- 4804.5 PERU R ? Huancavelica 5/2, 0236 huaynos w/ID 0238 as Radio (1 or 2 words indistinct) Huancavelica, tnx Valko (Johnson)
- 4805 BRAZIL Rdf. Amazonas, 6/1 0930 ID, anmts, 1cl mx (Klinck-NY)
- 4809.9 BOLIVIA Rdf. Libertad, 5/8 0953 s/on anmts, ID, anthem 0955 (Johnson-MD)
- 4840 PERU R Andahuaylas 5/22, 0037-0050 sev. IDs, "la emisora mas potente de la region," anmts, messages (Durden-GA)
- 4845 BOLIVIA R Fides, 5/22 0113-0305 speeches from pres. candidate convention, ID 0200, nx, CP mx (Durden-GA)
- 4865 COLOMBIA LV del Cinaruco, 5/26 0859 ID, sev ment Caracol, brief tlk, 1cl mx (Klinck-NY)
- 4871.2 ECUADOR R Centinela del Sur, 5/8 mx to 0405* anncd 1210 MW & 4890 SW, addr as in WRTH, gave s/on as 0600 local (Berg-MA)
- 4875 BOLIVIA La Cruz del Sur, 5/20 0005 call-in pgm to priest, short segments of CP mx, ID, much QRN (Durden-GA)
- 4875 CHINA Vo Jinling, 5/2, 1335-1410 CH songs, 1400 5+0 TP, Jinling ID, nx, ment Shanghai, instls (Murray-OR)
- 4881.2 IRIAN JAYA R Saura Kasih Agung, 5/2, 1137-1200* EZL mx, 1158 ID, closing anmt w/mx, SIO=333 (Yamada-JAPAN)
- 4890 GABON RFI, 6/7, 0407 world nx, IDs, Afr. nx, FR pops (Lamb-NY)
- 4890 PAPUA NBC 5/17, 0919 EG discussion of political situation in PNG, ID 0930, very good sig (Klinck-NY)
- 4890.3 PERU R Chota, 5/25, 0240-0300 tlc w/ID, LA pops (Alexander)
- 4914.9 BRAZIL R Anhanguera, 5/19, 0019-0035 anmts, pops/ballads, ads, jingles, IDs //6080, 11830 (Alexander-PA) 5/11 0215-0232 long tlks, mx, clear ID w/freq, S7 but 2 hets & much static (Flynn-OR)
- 4915 PERU R Cora 6/7, 0350 non-stop tangos, OM anncr, ID drop in during song (Lamb-NY) 5/9, 1035 ID, nx-"Radioperiodico de Cora," denouncing in-country terrorism (Durden-GA)
- 4930 CIS Mayak site? 5/8, 0057 instls, Mayak IS, 6 TP 0100, ID by W, site could be Tbilisi or Ashkhabad (Johnson-MD)
- 4934 KENYA KBC 4/20, 0250-0345 EG ID, "This is KBC, Nairobi," nx, rock mx (BAD)
- 4945 SOUTH AFRICA R. RSA 5/20, *0357 IS, IDs in EG/PT, NA, nx, Afr. mx (Lamb-NY)
- 4950 CHINA Xilinqol PBS, Xilinhot, 6/2, 1223-1333 CH opera, no anmts till 1319, 1333 ID, QRM from Pujiang (Murray-OR)
- 4955 PERU R Cultural Amauta, 5/9, 1025 tlc in lang, ID 1030 ment Huanta, into OA mx, weak (Durden-GA)
- 4960 INDIA AIR 5/25, *0023-0030 IS, subcont mx, tlks, too weak to ID lang (Alexander-PA)
- 4960.7 ECUADOR R Federacion, 5/19, 0035-0059* tlc in Indian lang, rustic mx, pops, ballads, marching band tune (Alexander-PA)
- 4965 BRAZIL R Alvorada, 5/9, 0920-0945 Bras. pops, ID 0938 "Alvorada 1380 AM," full ID w/QTH 0945 (Durden-GA)
- *4970 SABAH, RTM Kota Kinabalu 5/22, 1228-1315 Malaysian, Muslim tlc, ment Islam, Malaysia, 1241 ID, instls, anmt, prayer, chants past 1310 (Murray-OR)
- 4970 VENEZUELA R Rumbos, 5/30, 0151-0235 sports, tone before & after ID, ad strings, spot IDs, jingles (Jordan-PA)
- 4980 VENEZUELA Ecos del Torbes, 5/20 0342 1cl mx pgm, clear IDs, best ever reception! (Klinck-NY)
- 4985 BRAZIL R Brasil Central, 5/5, 2343-0024 sertaneja mx, ID & "Aqui Quem Manda e O Povo," nx, wx 0000 (Durden-GA)
- 4990 CHINA Hunan PBS 1250-1331 CH opera, instls, drums, anmts, ment Hunan, Changsha (Murray-OR) 5/11, 1340 CH/EG lesson, too weak to copy so presumed, ionospheric storm (Flynn-OR)

- 4990 INDIA AIR Madras, 5/24 *2358-0045* IS, Tamil anmts, subcont mx, tlks, //9950 (Alexander-PA)
- 5003.5 RIO MUNI RN 6/9, 0519 SP w/hilife mx, ID as R. Bata, under ute & WVW but strong (Grace-MA)
- 5005 BOLIVIA R Libertad decent on 5/5, 0156 all pop SP vcls w/ occas. IDs, nx 0200, 0230, usual JRM absent (Berg-MA) tent on 5/3, 2349-0002* rustic vcls to s/off routine, no NA, SP tlk but no chance for ID, SIO=252 (D'Angelo-PA)
- 5015 BRAZIL R Copacabana, 5/21, 0742 lcl mx, clear IDs, many ment Brazil (Klinck-NY)
- 5020 COLOMBIA Ecos del Atrato, 5/25, 0225-0239* anmts, ballads, Caracol promo, quick ID, abruptly pulled plug (Alexander-PA)
- 5020 ECUADOR LV del Upano, 5/13, 0255-0306* rel tlk, 0302 organ mx, ID, s/off anmt, no anthem, "R. Difusora Catolica Cultural" SIO=353 (D'Angelo-PA)
- 5020 NIGER LV du Sahel, 6/7 0511 FR w/reggae & Afr. pops, ID 0514 (Lamb-NY)
- 5025 CUBA R Rebelde, 6/7 0340 salsa mx, ID, promos, nx (Lamb-NY)
- 5030nf COSTA RICA TIAWR 5/30 0028-0100 EG IDs, Bible story, rel pgms, rel mx, bad RTTY QRM //9725, into SP 0100, ancd only 9725, 11870. Later hrd all 3, closing anmts & NA to 0501* Tnx Hauser (Alexander-PA) 6/7, 0334 ID, echo anmts, rel tlk over instls (Lamb-NY)
- 5034 CENT. AFR. REP. R Centafricaine, 4/20 *0428 IS, NA (BAD)
- 5040 ECUADOR LV del Upano, 5/20 0240-0315* ads, ID, freq, NA, marginally fair sig (Jordan-PA)
- 5040p GEORGIA R. Georgia 6/3, 2233 guitar mx, tacky RS-like mx, tent ID, het & QSB (Grace-MA)
- 5041.3 ANGOLA EP de Benguela, 5/10, 0510-0545 echo anmts, hilife mx, ID 0533 //6154 (Alexander-PA)
- 5047v TOGO Rdf. Togolaise, 4/20, 2220-2330 FR tlks, Allman Bros, George Harrison (BAD)
- 5050.1 TANZANIA RT Natl Svc 5/8, 0248 hilife & gospel mx, SH IDs 0300 & more mx, no other tlk (Johnson-ID) 5/24, 0355-0420 Afr. folk mx, TP, IDs, fade out by 0420 (Alexander-PA)
- 5055 SWAZILAND TWR 5/19, 0401 GM/EG choral mx, rel mx, IS, EG 0432 w/"Our Daily Bread." (Lamb-NY)
- 5062 ECUADOR RN Progreso, 5/20 0230-0305* ballads, loud s/off w/ID string, NA (Jordan-PA) 5/30 0300-0320* HC mx, s/off anmts, ID, NA, good (Alexander-PA) 5/13, 0307-0321* vcls, ID 0316, choral NA (D'Angelo-PA) 5/1, 1050 ID, H answering letters (Burdan-GA)
- 5070 CLAND Vo Seda-y-Mojahed, 3/23, 0040-0105 Koran, AR mx 7/6530 (BAD)
- 5075 COLOMBIA Caracol, 6/4, 0418-0457 OM tlk abt R. Patria Libre, nx 0425, IDs, ads, jingles, interview, nx (Jordan-PA) 5/31, 0425-0446 net mx, jingles, IDs //6150, ads, mx pgm, SIO=454 (D'Angelo-PA) 6/7 0502 Caracol promos, nx, YL in FR w/call ltrs & promo, jazz, big band mx (Lamb-NY) 5/31, 0709 nx, Latin mx, ID 0714, fair (Robertson-CA)
- 5085nf CROATIA Croatian R, 5/30, 0320-0340 lite vcls, instls, Abba, lded thru //6210, very weak, tnx Hauser (Alexander-PA)
- 5097 PERU R Eco, 5/24, 0030 romantic mx, sev IDs, ads for Cerveza Cristal & Campeonato Musical de los Barrios (Durdan-GA)
- 5156.2t BOLIVIA R Galaxia 5/9, 0157 tlks, YL vcls, weak & drifting down, pulled plug 0226 w/o NA (Johnson-ID)
- 5256p SUMATRA RRI Sibolga 5/1, 1335-1350 IN YL anncr, subcont/ Muslim vcls, gamelan mx, peaked S9 (Flynn-OR)
- 5260 UNID 6/3, 2319 guitar mx & OM but deteriorating sig made ID or speculation impossible (Grace-MA)
- 5670 BOINAIRE R. Nederland, 5/24, 0100-0125* EG spur. 11835-6165=5670. 5670 off when 11835 signs off (Alexander-PA)
- 5700 PERU R Frecuencia San Ignacio 5/2, 0228 huaynos, TC, ID 0230 & later. Tnx Dave Valko (Johnson-MD)
- 5729.9 UNID CLAND 6/2 0144-0210 AR? OM & march mx, bubble jammer, ID incl "Irana" so maybe Holy Medina or to Iran? Switched freq often (Grace-MA)

- 5850 CLAND R Patria Libre, 5/30, *0025-0103* s/on w/LA mx, flks, brief mx breaks, IDs, couldn't find the 15 MHz freq. ex-15049? (Alexander-FA) 5/22, 0030 ID, salsa mx (Durden-GA)
- 5882 VATICAN Vatican R, 4/23, 0000-0040 EZL mx, multilingual IDs (BAD)
- 5882 UNID 6/3, 2245-0045 quite regular here, solid class mx, ON & YL in lang. Clandestine? (Grace-IA) See above--sp.

JOHN BRYANT supplies us with this month's special feature. Here are some bandscans while he was DXing at Orcas Island, Washington State. Thanks to DAVE CLARK for forwarding these:

PNG Bandscan May 28 and 30 w/NRD-525:

All 120 & 90mb stations noted with exception of following:

3245 R. Gulf missing both AIs; 3290 R. Central hrd w/terrible sig quality & poor level on 28th, missing on 30th; 3325 R. North Solomons (via Rabaul) missing 1200-1300 on 28th, same 0930-1130 on 30th so presume off the air.

3905 R. New Ireland good at S7 both AIs; the recently reactivated 3925 Port Moresby was off both AIs.

3880 R. Free Bougainville presumed at 0937-1000 w/pop/rock records & male DJ. Quite weak w/long, deep fades & left the air or faded out at 1000. Strength: All stations on North Coast or Outer Islands running S9+ with exc. signal quality. Highland stations & those on South Coast running about S7, again with excellent quality.

Other Notes: 3305 R. Western relatively stronger on 3306; 3345 R. Northern at about equal strength with RRI Ternate; 3355 R. Simbu noted at S7 but LSB only due to normal ute on high side; 3365 R. Milne Bay was tough copy under ute QRM on 28th, undetectable thru even worse QRM on 30th; 3385 R. East New Britain dominant but with muddy quality over fairly strong RRI Kupang.

INDO Observations May 28 and 30:

3224.8 RRI Tanjung Pinang presumed here at 1214 w/Jakarta nx at 1214 on 28th. This one hrd by Dave Clark longpath in NAM evenings this past winter.

3934.8 possibly first NAM logging in several years of RRI Semarang noted with het & some audio on 28th.

3959.8 RRI Palu hrd at 1030 with lagu pops & lcl pgm (ments of Palu) on 30th.

3975.9 RRI Surabaya fair at 1300 w/Jakarta nx on 28th

3987.1 RRI Manokwari presumed with lagu pops & male announcer both AIs.

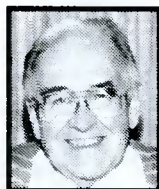
The following also noted in passing on 28th: 4000.2 RRI Kendari; 4003.3 RRI Padang; 3325 RRI Palangkaraya; 3214.8 RRI Manado; 3264.6 RRI Gorontalo.

I really appreciate everyone's loggings and other news this month. KEVIN MURRAY says he's been focusing on PNG and Chinese regionals and hopes to get into Indonesians too. Thanks for the kind comments about the column. In case anyone's wondering, the comment "thanks Hauser" refers to tips heard on Glenn Hauser's World of Radio program. You can catch this program on WOCR 7435 kHz Sunday 0305 UTC before Signals. If you catch the 0030 bx of DX Party Line (HCJB), you have 3 DX programs on Saturday nights!--sp.

International Band Loggings

5901-30000 kHz

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



- 5935 LATVIA R Riga Int in LAT? 0324, lcl mx, ID, nx? on half hr (Klinck NY 5/20)
5950 CHINA Heilongjiang PBS in CH 0845, pop mx, ID's, cmntry, IS, f-p (Clar NY 5/13)
5975 COLOMBIA R Macarena in SP 1025, ID's, ads, local nx (Durden GA 5/8)
5995 AUSTRALIA RA in EG 0815-1054, pops, ID's, nx, stocks, TC (Lamb NY 6/3, Clar NY)
5995 PERU R Melodia in SP 0507, L Am & reggae mx, anncts, ID's, f (Lamb NY 5/11)
6010 MEXICO R Mil in SP 0256, interview, ID, ads, promo, rock, g (Flynn OR 5/15)
6020 AUSTRALIA RA in EG 0737, cmntry, ID, promo, mx, sked (Lamb NY, Robertson CA 6/1)
6025 NIGERIA Fed Radio Corp in EG/Vern 2130, pop mx, pips, EG nx (Alexander PA 5/9)
60297 CHILE R Santa Maria in SP 0018, tlk, ID 0030, into mx pgm, g (Johnson MD 5/11)
60499 NIGERIA R Nigeria in EG/Vern 2308*, EG nx, ID, AF pops/folk mx (Alexander 5/9)
6070 CANADA CFRX Toronto in EG 0610, Wayne McLain Show, cmntry (Boulden CA 5/20)
6085 GERMANY Bayer Rundfunk in GM 2315, lite GM & CW mx, ID's (Clar NY 5/5, BADX)
6085 CANADA Deut Welle relay in GM 0538, varied mx, operetta excerpts (Robertson CA)
60886 CHILE R Esperanza in SP 2349, ID, mx, tlk, heavy QRM (Johnson MD 5/10)
61149 MEXICO R Universidad Hermosillo in SP 0510, L Am mx, ID, g (Robertson CA 5/31)
6130 CANADA CHNX Halifax in EG 2236, relay CHNS, oldies, ID's, ads, wx (Clar NY 5/26)
6135 BOLIVIA R Santa Cruz in SP 0938, folk mx, L Am pops, ID's, ads, f (Lamb NY 5/16)
6135 BRAZIL R Aparecida in PT 2345, L Am pops, IS, //5035, 11854, 9630 (Alexander PA)
6165 SWITZERLAND SRI in EG/FR 0426, "Switzerland in Focus", ID (Carson OK 4/17)
61724nf PHILIPPINES Phil Best Svce in lang 1002, non-stop mx, tlk, ID (Yamada JP 5/10)
6210nf CROATIA Croatian R Zagreb in CR? 0036, non-stop pop mx, TC, nx headlines, ID?
// 6210, 9830 (Clar NY 5/17, Alexander PA 5/16)
62816 PERU R Huancabamba in SP 0033, US pop mx, ID's (Johnson MD 5/9)
6300 EL SALVADOR R Venceremos in SP 0317*, LA mx, ID, slogans (D'Angelo PA, Clar NY)
63296 PERU Estacion C in SP 0041, tlk re futbol assn, ID? (Johnson MD) Only 800 watts!
67243 PERU R Satellite in SP 0336*, ancncts, ballads, ID, NA (Alexander PA 5/23)
69401 CHINA Yunnan PBS Kunming in CH/EG 1140, tlk, ID's, instl mx, p (Murray OR 6/5)
7110 CHINA Xizang PBS Ihasa in CH/TB 1156*, lang lessons, ID, f (Murray OR 6/5)
7160 SARAWAK RIM Kuching in CH 2307, nx?, anmts, chimes, ID, p (Clar NY)
71899 YEMEN Yemen R in AR *0300, NA, tlk, Koran, AR mx, p w/QRM (Alexander PA 5/25)
71903v EQUATORIAL GUINEA R Africa in EG 2301*, ID, relig pgm, ad, g (Alexander 5/23)
in EG 2212, Bible study, mx, ID, fqy/skcd, US addresses, f/CWQRM (Clar NY 5/19)
7205 CYPRUS CBCC in GK *2215-2245*, GK mx, weekends only, //9770 (Alexander 5/24)
7215 UNKNOWN hrd in EG 0430-0500, African Bible College, ID as TWR? (Westdal CA 5/20)
7255 NIGERIA VoN in EG 0500+, "Morning Flight", ID, sports, lcl nx, political cmntry,
news magazine pgm (Carson OK 6/1, Tucker GA 5/20, Radtke WA 5/18, BADX 4/18)
7260nf? GERMANY Sudwestfunk in GM 0122, ezl mx, ham QRM complaining re mx (Frodge MI)
7265 BOTSWANA VOA relay in EG *0300-0500*, IS, ID, nx, polit tlks (Jordan PA 5/24)
7270 SOUTH AFRICA RSA in EG *0156, IS, ID, NA, rooster crow, nx, f (Lamb NY 5/14)
7345 CZECHOSLOVAKIA RC in EG 0320, ID, rock mx, nx (Carson OK 5/2, Cole TX 5/25)
7365 ALASKA KNLS in EG 0852, pops, ID, slogan/promo, relig tlk, fqy, p (Clar NY 5/29)
7370 RUSSIA R Ala in RS 2329, guitar IS, ID's, tlk, folk nx (Clar NY 5/24)
9022 IRAN VOIRI in EG 0005, Islam history, lcl mx, ID, mailbag, nx, muffled audio,
//15260, 15315 (Jordan PA 6/8, Tucker GA 5/20, Alexander PA 5/16)
9345 NO KOREA R Pyongyang in EG 1300, nx, ID, //9325, 9640, 9740 (Radtke WA 5/17)
9420 GREECE VoG in GK 0306, dramatic reading, nice mx, //9395, 11645 (Flynn OR 5/15)
9425nf? NO MARIANAS KHBI Saipan in EG 1300, ID, Monitor nx, exc (Hankison KS 5/17)
9480 MONACO TWR Monte Carlo in EG 0632, IS, s/on into "Wake Up", g (Carson OK 6/2)
9505 BRAZIL R Record in PT 2310, soccer play-by-play, ID's, ads, f (Clar NY 5/11)
9540 VENEZUELA R Nacional in EG 0334, ID, fqy, nx, LBX, address, IS, f (Lamb NY 5/14)
9540 BRAZIL R Educadora da Bahia in PT 0925, sambas, ID, lcl anmts, f (Durden GA 6/3)
9545 SOLOMON IS SIBC in EG/Pdgn 0705-0900, island mx, Pacific nx, commodities rpts,
features, TC's, pop mx, sports, lcl messages (Lamb NY 5/14, Clar NY 5/29)
9560 JORDAN RJ in AR 2150-2230, AR mx, prayers, ID, nx, chorals, p (Jordan PA 5/28)
9565nf? SO AFRICA RSA in EG 1640, live show, list of pen pals, p (Park HI 5/21)
9580 AUSTRALIA RA in EG 0800-1700, features, ID (Carson OK, Robertson CA, Radtke WA)
9580 ALBANIA R Tirana in EG 0230-0357*, nx, ID's, tlks (Lamb NY, Cole TX, Unruh WA)
9590 USA BBC relay Delano in EG 0140, tlk re single families, f-g (Jackson MO 6/17)

9605 VATICAN STATE VR in SP 0144, IS, relig pgm (Carson OK) in EG 0230 (Radtke WA)
 9615 BRAZIL R Cultura in PT 2334, tlk, ID's, slogan, pop mx, f-p (Clar NY 5/11)
 9620 CUBA RHC in EG 2200, ID, "Close Up" on world problems, g (Radtke WA 5/22)
 9625 CANADA RCI Quebec Svc in EG 0204, CBC nx/sports (Carson OK) 1305 (Hankison KS)
 9630 BRAZIL R Aparecida in PT 2340, rosary recitation, ID, fgy, mx, tlk (Clar 5/11)
 9650nf? GERMANY Deutschlandfunk via Deut Welle in CZ *0430-0500*, ID, IS, nx, fqys, f
 //11905 (Jordan PA 6/1) Ref G. Hauser's DXLD #16, p. 7)
 9655nf? AUSTRALIA RA in EG 0925, variety mx, ID, fqys on half hr (Klinck NY 6/1)
 9660 AUSTRALIA ABC Brisbane in EG 0912, pops, tlk, promos, ID, TC (Clar NY 5/13)
 9665 CHINA R Beijing in EG 1216, pgm on May Day activities in China (Tucker GA 5/1)
 9670 ANTIGUA Deut Welle relay in EG 0535, Larry Wayne's Diary, exc (Carson OK 6/1)
 9690 ROMANIA RRI in EG 1934, "Youth Club" pgm, ID's, disco, rock, f-p (Lamb NY 5/19)
 9690 SPAIN R Beijing relay in EG 0326, "Current Affairs", ID, contest, g (Lamb 5/13)
 9695 SOUTH AFRICA RSA in EG 0457, Henry Mancini mx, ID, nx, f w/QRM (Lamb 5/10)
 9700 GERMANY D Welle in EG 0300, "Nickelodeon", mail, mx, ID (Tucker GA, Radtke WA)
 9705 PORTUGAL RPI in EG 0259*, ID, nx, sports rpt, wx, travel into, f (Lamb NY 5/26)
 9710 AUSTRALIA RA in EG *0757, IS, ID, nx, mx, features (Tucker GA 5/29, Lamb NY 6/3)
 9725 COSTA RICA AWR in EG 2343, childrens' relig pgm, story hour, g (Carson OK 5/9)
 9750 SO KOREA RK in EG 1211, IS, ID, fqys, sked, nx, cmntry, g (Murray OR 5/12)
 9760 PHILIPPINES VOA relay in EG 1335, nx, ID, jazz mx, pgm re past presidents, fqys
 (Lamb NY 5/30, Robertson CA 5/14, Hankison KS 5/17)
 9770 MALI R Beijing relay in EG 0002, nx, cmntry on sports for aged (Levison PA 5/11)
 9779? YEMEN RYR Sana in AR *0301, NA, tlk, Koran 0305, AR mx, g (Alexander PA 5/25)
 9830nf PALAU VoHope Asia in EG/CH 1050-1415, continuous relig vocals, ID in EG, request
 for letters, messages to listeners in Asia, f-p (D'Angelo PA 5/26, Flynn OR 5/4)
 9877? DOMINICAN REPUBLIC R Santiago in SP *2333-0356*, ID in EG, vocals non-stop, tlk
 SP pops/ballads, NA at s/off (Alexander PA 5/16, Flynn OR 5/15, Jordan PA 6/11)
 9885 SWITZERLAND SRI in EG 0159, IS, ID, nx, "Sunday Supplement" (Tucker GA 5/18)
 9890 MADAGASCAR R Nederl'd relay in EG 1530, nx, features, ID (Park HI, Robertson CA)
 9905 BELGIUM BRT in EG 0857, mx, ID, fqys, "Brussels Calling", f (Lamb NY 6/4)
 9930 BELGIUM BRT in EG 2330-2355*, nx, wx, press review, ID (Cole TX, Tucker GA)
 9977 NO KOREA R Pyongyang in EG 1715, martial mx, chorus, //9640, p (Unruh WA 5/7)
 10059 VIETNAM VoV in VT 1340, oriental songs, tent w/no clear ID (Hankison KS 5/17)
 11520nf UKRAINE R Ukraine in EG 0021, "Ukraine Diary", ID's, fqys, IS, cmntry, martial
 mx, nx (Lamb NY 5/13, Frodge MI 5/2, Levison PA 5/5)
 11530 LEBANON King of Hope in EG 0000*, s/off anncts then Leban NA (D'Angelo PA 5/1)
 11588 ISRAEL Kol Israel in EG 0400, world nx, J Carson's farewell perf, f (Radtke WA)
 11645 GREECE VoGreece in EG 0150, GK mx, //9420 (Boulden CA 5/18, Unruh WA 5/18)
 11650 GUAM KTWR in EG 1500, "The Resurrection", relig songs, ID, g (Radtke WA 5/18)
 11650 NO MARIANAS KFBS in RS 1350, pgm of RS folk mx, //11665 (Hankison KS 5/17)
 11675nf RUSSIA R Moscow WS in EG *2000, IS, ID, world nx, cmntry, mx (Jordan PA 5/17)
 11690 PHILIPPINES FEBC in EG 0938, world nx, ID, slogan/promo, TC, f-p (Clar NY 5/22)
 11705 SWEDEN RS in EG 0202, tlk on SW neutrality, rpt on EEC/Denmark (Unruh WA 5/27)
 11710 ARGENTINA RAE in EG *0200, IS, multi-lang ID, fqys, folk mx, nx (Lamb NY 5/19)
 11715 CANADA R Korea relay in EG 1037, "History of Korea", p (Park HI 6/4)
 11735 GABON R Japan relay in EG 2344, cmntry, JP pops, ID (Robertson CA, Clar NY)
 11735nf? NEW ZEALAND RNZ in EG 1930, ID, TC, mailbag, local & Cook Is mx (Park HI 5/29)
 11745 BRAZIL Radiobras in EG 1202, ID's, fqys, "Sunday Special", pops (Clar NY 5/10)
 11755 FINLAND RF in EG 0139, "Northern Report", wx, ID, IS, press rpts (Lamb NY 5/14)
 11760 AUSTRALIA RA in EG 2320, sports rpts, ID's, skeds, f w/QRM (Clar NY 5/6)
 11780 LITHUANIA R Vilnius in EG 2315, "The Way We Live" (Clar NY 5/17, Carson OK 6/6)
 11795 NORWAY R Denmark relay in EG/DN 2320, ID, nx, feature story, g (Cole TX 5/2)
 11805 GUAM KTWR in EG 0946, "Insight for Living", Bible study, ID's, IS (Clar NY 5/2)
 11830 ROMANIA RRI in EG *0158, IS, ID, nx, harp mx, rpts, //6155, 9570 (Lamb NY 5/26)
 11835 SRI LANKA SLBC in EG 1045, nx, ID 1055, QRM from WYFR (BADX MA 4/22)
 11850nf? MOROCCO VOA relay in EG 0507, nx, "VOA Saturday Morning", //9885 (Lamb 5/30)
 11855 CHINA R Beijing in EG 1300, regulation of prescription drugs, ID (Radtke 5/26)
 11875 JAPAN RJ Tokyo in JP 0830, coverage of Sumo wrestling tournament (Park HI 5/17)
 11910 HUNGARY R Budapest in EG 0200, nx, ID (Carson OK, Unruh WA, Cole TX, Radtke WA)
 11920 SINGAPORE BBC relay in IN 1300, Big Ben, ID, nx (Durden GA 5/8)
 11930 NETHERLAND ANTILLES TWR Bonaire in SP 0120-0230*, relig tlks, nx, ID (Jordan PA)
 11940 ROMANIA RRI in EG 2157*, sports rpts, mx, fgy/sked, IS, f (Clar NY 5/18)
 11955 OMAN BBC relay in EG 0140, "South Asia Survey", folk mx (Tucker GA 5/5)
 11970 CUBA R Havana in EG 0135, "DX'ers Unlimited", cmntry on riots in LA, mx, ID,
 (Carson OK 5/17, Unruh WA 5/1, Jackson MO 6/7)
 11980 GUAM KSDA in EG 1650, cmntry, mx, "Christ is Risen", exc (Unruh WA 5/21)z

12000 UKRAINE R Ukraine in EG 0040, rpt re Ukran economy, ID, sked, f (Clar NY 5/6)
 12015 MONGOLIA R Ulan Bator in EG/lang? 1200, IS, mx, nx?, ID in EG (Murray OR 6/1)
 12095 UNITED KINGDOM BBCWS in EG 0610, "Letter from America", nx, p (Park HI 5/31)
 13610 GERMANY D Welle in EG 0433, mx, rpt on Sierra Leone coup, g (Tucker GA 5/1)
 13666nf ITALY VoEurope in EG 0020-0150, nonstop pops, ID, f (Alexander PA, Clar NY 5/17)
 13855 ICELAND INBS in IC 1400-1441*, IS, ID, choral, nx, //15770 (Jordan PA 6/4)
 15095 SYRIA R Damascus in EG 2110-2207*, nx, ME mx, NA (Unruh WA 5/8, Radtke WA 5/25)
 15125nf RUSSIA AWR Kuybishev in SW/EG/RS 1657, chorus, ID in EG, f (D'Angelo PA 5/25)
 15125 OMAN BBC relay in IN 1310, world nx, ID (Durden GA 5/16)
 15170 CHINA R Beijing in EG 2200, ID, nx (Durden 5/16) ED: Who knows xmsn site?
 15210nf IRAQ RII in EG/lang *1801-1952*, NA, Koran, EG pgmg til 1929 then into lang?
 (Alexander PA) in AR 2100+, vocals, chorus, AR mx, nx, ID (Jordan PA, Tucker GA)
 15210nf CHINA R Beijing in EG 1215-1255*, CH anthology, CH mx, mail, g (Jordan PA 5/24)
 15220 SOUTH AFRICA RSA in EG 0558, ID, reggae, nx, g (Boulden CA 5/25, Lamb NY 5/8)
 15250 PORTUGAL RFI in EG 2007, nx, wx, ID, fqys/sked, feature, f-p (Clar NY 5/15)
 15265 BRAZIL Radiobras in EG *1759, IS, ID, tlk re Earth Summit, lcl mx (Lamb NY 5/31)
 15300 FRANCE RFI in FR 0505, int'l nx, ID, into mx 0517, f (Robertson CA 5/25)
 15340nf IRAQ RII in AR/EG *0100-0353*, NA, ancnts, lcl mx, pgmg in EG 0243-0256, cmntry,
 nx, chants, ID's, muffled audio & weak jam'ng (Alexander PA 5/17, Jordan PA 6/1)
 15350 ECUADOR RN del Ecuador via HCJB in SP 1800*, vocals, ID, tlks (D'Angelo PA 5/25)
 15355nf UKRAINE R Ukraine in EG 0012, nx, ethnic mx, ID (Lamb NY 6/1, Levison PA 5/26)
 15420 SEYCHELLES BBC relay in EG 0400, ID, nx, nice signal (Tucker GA 5/1)
 15425 SRI LANKA SLBC in EG *2326, drums IS, subcont mx, ID, p (Alexander PA 5/25)
 15445nf BRAZIL Radiobras in EG *1159, IS, ID, "Sunday Special" (Lamb NY, Jordan PA 6/9)
 15450 PHILIPPINES FEBC in EG 2359, IS, ID's, mx, proms, adrs, p (Clar NY 5/14)
 15475 GABON Africa #1 in FR 1551, Afr instrmls, ID, sports pgm, g (D'Angelo PA 5/31)
 15560 RUSSIA D Welle relay Novosibirsk in GM *1200, nx, cmntry, mx (Jordan PA 6/1)
 15585nf ISRAEL Kol Israel in EG 2135-2200*, polit tlk, Top 40 mx, nx, f (Jordan PA 5/17)
 15600nf BOTSWANA VOA relay in EG 0533, Billy Joel mx, "VOA Saturday Morning" (Lamb 5/30)
 15770 ICELAND INBS in IC 1209-1245*, tlks, ID, nx, xmsn to Europe, g (Jordan PA 6/4)
 17605 NETHERLANDS RN in EG 1555, "Media Network" w/tlk on Volga R, p (Carson OK 5/14)
 17650nf CHINA R France relay in EG 1430, ID, "Report on Asia", f-p (Lamb NY 5/30)
 17705 GREECE VOA relay in AR 0351, B.B. King mx, ID, nx, f (Lamb 5/18)
 17715 AUSTRALIA RA in EG 0652, interview, ID, tlk on solar flares, nx (Lamb 5/14)
 17730 BRAZIL Swiss R relay in EG 0200, nx, "Dateline" (Unruh WA 5/1, Flynn OR 5/9)
 17730nf MOZAMBIQUE Emisao Nacional in EG/PT 2358, IS, nx, ID, fqys (Robertson CA 5/12)
 17740nf IRAQ RII in AR/EG *2306-0147*, tlk, lcl mx, ID, EG pgmg 0042-0056, nx, cmntry
 re Arab nationalism, //15150, NA at s/off (Alexander PA 5/16, Lamb NY 5/27)
 17740 YUGOSLAVIA RY in EG 1140, ID, cmntry re UN sanctions, exc (Durden GA 6/2)
 17746v ALGERIA R Algiers in EG 1744-1758*, tlk on environm't, ID, IS, p (Jordan 5/19)
 17760 SAUDI ARABIA BSKSA in SH(p) 0504, Qu'ran, Islamic relig tlk, ID's (Lamb NY 5/17)
 17770 NEW ZEALAND RNZI in EG 0130, story hr, "Travel Pacific" (Flynn OR, Unruh WA)
 17810 SRI LANKA D Welle relay in EG *1857, IS, site ID, fqys, nx, cmntry (Lamb 5/23)
 17815 BRASIL R Cultura de Sao Paulo in PT 2355, ID, nx, wx, sambas (Durden GA 5/13)
 17820 SRI LANKA D Welle relay in EG 0907, nx, ID, guitar mx, feature, p (Lamb 5/16)
 17855nf UNITED ARAB EMIRATES Abu Dhabi in EG *2200, ID, sked, Koran, skit (Jordan 5/17)
 17890nf UNITED ARAB EMIRATES Dubai in AR/EG *0213, IS, IDs, chants, nx, vg (Lamb 5/24)
 21455usb ECUADOR HCJB in EG 1750, relig pgm, ID, fqys, mx (Robertson CA, Levison PA)
 21775 AUSTRALIA RA in EG 0630, sports event - Melbourne v. Collingswood (Boulden CA)
 26299 ARGENTINA RN Buenos Aires in SP 1917-2330+, futbol match to 2245, ID's, promo,
 skeds, time pips (Alexander PA 5/24, Jordan PA 5/24) ED: Special 1 day channel?

CLANDESTINE STATIONS

7100 A Voz de Resistencia do Galo Negro in PT 2215-2316*, mix of Afr folk/pop mx,
 FR ballads, USA lite mx, NA, strong w/Ham QRM (Alexander PA 5/9)
 71517 EP do Lobito - Angola in PT 0510, lite mx, Afr hi-life mx, wk sig wiped out
 by BBC s/on 0558 on 7150 (Alexander PA 5/10) Tentative since no ID heard.
 15040v R Patria Libre de Colombia in SP 0030-0104*, tlks, ID's, mx breaks, Mother's Day
 poem (Alexander PA 5/22, Frodge MI 5/7, BADX 4/24)

Some good stuff this month. Thanks to all of you who contributed logging material for this
 issue. What with the fine weather, vacation and all, I've only managed 5 loggings during
 June. Shame on me! I hope you all do better than that. 73's

English Schedules

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Genie T.SUNDSTROM



Prepared 6/27/92 at 7:35 AM.

passes along rumors: the Baptist and

Thanks to John Carson (OK), Arnie Coro (RHC), Ed Evans (CSM), Bob German (EWTN), Tetsuya Kondo (Japan) and Adam Lock (WWCR).

Notes

Radio for Peace Intl.'s *Mailbag* aired June 2 yields information that the 30-kw transmitter will be ready in August. All transmitters are

now in the AM mode, and the interference on 7375 has been "beaten back." Adam Lock tells me WWCR's third transmitter should be in place by year-end. Radio Nacional de Brasil is on a new frequency of 15445 with English to NA at 1200-1320 UT. It is the first time since 1990 that I can actually listen to a good signal from this station (Glenn Hauser). A new mailing address (compared to the 1992 WRTI) is announced: PO Box 08840, Brasilia, Federal District. Radio Havana's 20 UT CIS relay to Africa on new 17815 does quite well here. If all went as planned, RHIC's *Worldwide SSB Service* began June 27. The schedule is Sa-Su 00-02 UT on 13660 kHz, using a refurbished 30-kw Siemens transmitter. Jeff White of Radio Miami Intl. was assigned WRMI and upcoming 3Q tests will be on 9955 kHz. EWTN's Bob German says the call is WEWN. Construction is running on a very tight schedule with a target date of first quarter 1993 and on-air tests possibly as early as November 1992. Bob



With all these US stations coming on the air, do you think there is a chance for this one?

Methodists are thinking about doing something similar to Birmingham.

Also, CNN-Turner is a possibility for a US SW station. Tetsuya Kondo posted on the Pinelands RBBS the June test schedule of R Japan to Europe via the UK and the complete new schedule effective July 1.

I listened to a few of the evening test broadcasts, and reception (not surprisingly) was not very good. R Japan did not add *Media Roundup* to the 01 UT Canadian relay. Effective July 1 at 23 UT 11735 via Gabon will be dropped in favor of the UK 49m relays. Ed Evans tells us that until further notice Radio New Zealand Intl. will be closing at 1130 (rather than 1206) UT to conserve electricity. New Zealand is in the midst of a seven-month drought, and is dependent upon hydroelectric power. WJCR should have a second 50-kw transmitter on the air soon. 7460 kHz will be beamed to SA. Ken MacHarg of HCJB recently paid a visit to the station, located on a farm 9 miles east of Upton, KY (DXPL June 20).

We Get Calls...

Chris Hembly from outside Melbourne called to say he likes the column, and shared the May Journal with Arthur Cushen. Good to talk with you, Chris.

Tired of cutting and pasting the schedules in this column? Want to look up a schedule by country or by frequency? Have an IBM PC compatible computer with a fixed disk and a modem? The **English Language SWBC Schedules** program retrieves data by country or transmission start time, and loads frequencies into JRC or Kenwood receivers. A subscription to the data files through a telephone BBS keeps you updated, or you can keep up the data files yourself. A catalog is available for an business-size SASE to **TRS Consultants, PO Box 2275-NA, Vincentown, NJ 08088-2275**, or download the catalog from the **Pinelands RBBS** at 609-859-1910.

English Language Schedules
 By Start Time, Changes Entered Between
 5/28/92 and 6/25/92
 Compiled by Thomas R. Sundstrom, W2XQ

Start Time (UTC)	End Time (UTC)	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #4	Freq. #5	Freq. #6	Freq. #7	Freq. #8	Target Area	Notes	Record Last Updated
0000	0200	Cuba	R Havana	13660	11970							e&cNA	#1 SSB SaSu eff 6-27	6/20/92
0000	0100	Ukraine	R Ukraine Int'l	15580	15570	15355	12060	12040	12000	11790	9770	NA/Eu	11520 prob mix prod	6/1/92
0200	0250	Germany	R Deutsche Welle	17620	15235	11965	11945	9690	9615	7285		sAs		6/5/92
0330	0400	United Arab Emirates	R Dubai	17890	15400	13675	11945					NA		6/21/92
0500	0600	Japan	R Japan	21610	17860	17825	17810	17765	15230	9770	9695	GOS/As/Oc/NA/Eu/ME	#7&8 v UK	6/21/92
0600	0630	Latvia	R Riga	5930										6/6/92
0700	0800	Japan	R Japan	21575	17860	17810	17765	15250	9770	9670		GOS/As/Oc/Eu/ME	#1 v Gabon #5&6 v UK	6/21/92
0700	1130	New Zealand	R New Zealand Int'l	9700								Pacific		6/18/92
0840	0848	Greece	V of Greece	15650								Aus	News/Eng	6/20/92
0900	1000	Japan	R Japan	21610	17860	17810	15270	11840	11815			GOS/As/Oc/Eu		6/21/92
1030	1125	Iran	V of Islamic Rep of Iran	11930	11910	11790	11715	9525				eAs/ME		5/31/92
1040	1048	Greece	V of Greece	17525	15630							Japan	News/Eng	6/20/92
1200	1320	Brazil	R Nacional de Brasil	15445								NA/CA		6/6/92
1200	1255	Poland	Polish Radio Warsaw	11815	9525	7145	6135					Eu		6/1/92
1200	1225	Uzbekistan	R Tashkent	17815	15460	9750	7325					As		6/13/92
1300	1325	Israel	Kol Israel	17590	17575	15650	15640	11605	11587			wEu/eEu/NA	Su-Th	6/14/92
1330	1425	Netherlands	R Netherlands	21655	17610							sAs		5/29/92
1330	1355	Uzbekistan	R Tashkent	17815	15460	9750	7325					As		6/13/92
1430	1525	Netherlands	R Netherlands	21665	17610	15150	9890					sAs	#3&4 v Madagascar	5/29/92
1500	1600	Japan	R Japan	15355	11865							GOS/Eu/ME/At/NA	#1 v Gabon	6/21/92
1500	1550	North Korea	R Pyongyang	13740	9977	9640	9325					Eu/ME/At		5/31/92
1500	1555	Poland	Polish Radio Warsaw	11840	9525	7285						Eu		6/1/92
1530	1625	Netherlands	R Netherlands	21665	17610	15150	9890					sAs	#3&4 v Madagascar	5/29/92
1600	1630	Pakistan	R Pakistan	17555	15550	13665	11570					ME/e&sAf	Slow-speed news 1615	5/29/92
1700	1750	North Korea	R Pyongyang	13740	9977	9640	9345					Eu/ME/At		5/31/92
1700	1755	Poland	Polish Radio Warsaw	9525	7270							Eu		6/1/92
1730	1800	Latvia	R Riga	5935									Su	6/6/92
1800	2000	N Mariana Is	KHBI	17725	15665							ME/NZ	325/165 deg	6/6/92
1840	1848	Greece	V of Greece	17525	15630							c&sAf	News/Eng ex Su	6/6/92
1930	2025	Poland	Polish Radio Warsaw	9525	7270	7145	6135	6095				Eu		6/1/92
2000	2100	Cuba	R Havana	17815	17705							Eu/At/ME	#1 v Russia	6/6/92
2030	2035	Latvia	R Riga	5935									M-Sa	6/6/92

2100	2200	Japan	R Japan	17890 17840 17810 15430 11815 11735	GOS/Oc/As/Eu/ME/AF	#6 v Gabon	6/21/92
2130	2200	Kazakhstan	R Alma Ata	5035			6/6/92
2140	0700	New Zealand	R New Zealand Int'l	17770	Pacific		6/18/92
2300	2400	Japan	R Japan	17810 15430 15195 11815 6160 6025	GOS/As/Eu/ME/AF	#5&6 v UK	6/21/92

English Language DX Shows

By Day of Week

Changes Entered between 5/29/92 and 6/25/92

Compiled by Thomas R. Sundstrom, W2XQ

Day	Program	Xmsn Start Time	Show Start Time	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #4	Freq. #5	Freq. #6	Freq. #7	Freq. #8	Freq. #9	Freq. #10	Program Notes	Record Last Updated
Sunday	World of Radio	2300	0200	USA	WRNO	7355											6/21/92
Sunday	World of Radio	0000	0200	Costa Rica	R for Peace Int'l	21465	15030	13630	7375								6/21/92
Sunday	Signals	1000	2135	USA	WWCR/1	15690										add'l temp time slot	6/21/92
Tuesday	DX Program	1200	1235	Poland	Polish Radio Warsaw	11815	9525	7145	6135							if not hrd, chk Wed	6/1/92
Tuesday	DX Program	1500	1505	Poland	Polish Radio Warsaw	11840	9525	7285								if not hrd, chk Wed	6/7/92
Tuesday	DX Program	1700	1730	Poland	Polish Radio Warsaw	9525	7270									if not hrd, chk Wed	6/1/92
Tuesday	Mailbag	0000	1930	Costa Rica	R for Peace Int'l	21465	15030	13630	7375								6/2/92
Tuesday	DX Program	1930	1935	Poland	Polish Radio Warsaw	9525	7270	7145	6135	6095						if not hrd, chk Wed	6/1/92
Saturday	World of Radio	0000	1800	Costa Rica	R for Peace Int'l	21465	15030	13630	7375								6/21/92
Saturday	World of Radio	1400	2200	USA	WRNO	15420											6/21/92

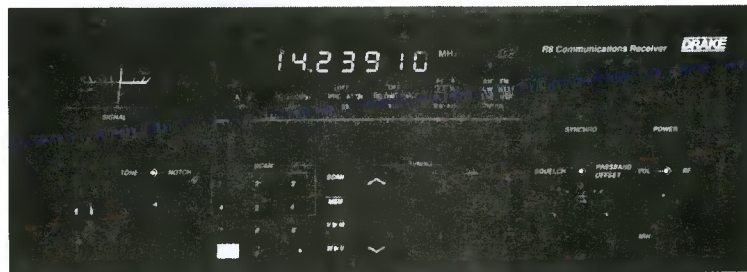
FOR SALE: Mint condition Drake R-8, matching MS-8 speaker, and Yaesu YN-77 headset. New in 1/92 and used less than ten hours. Box and manual included. I paid \$1060.00, you pay \$850.00 plus shipping. Also have a Sony AN-1 active antenna. I paid \$90.00, you pay \$55.00. Greg L. Limeberry, P.O. Box 123, Paoli, IN 47454. Phone (812) 723-4919 day, night, or weekends and ask for Greg.

FOR SALE: Azimuth "World Radio Sphere" 12-inch see through acrylic world globe with ham call prefixes, zones, latitude, longitude, etc. Advertised at \$119.00. Price \$75.00 including UPS shipping. G. L. Dexter, RR 4, Box 110, Lake Geneva, WI 53147. Phone (414) 248-4845.

WANTED: Drake SSR-1 general coverage receiver. Rick Sitz, 5210 14th Street, Bradenton, FL 34207. Send "asking info."

FOR TRADE: Grove Minituner Plus Tun-4 w/ps in mint condition for a Grove Minituner Tun-3 in mint condition only. Stanley Cabral, 2254 62 Avenue, Oakland, CA 94605. Phone (510) 562-2486.

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