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PROCEEDINGS 1988

Proceedings 1988 grew out of Fine Tuning's Subscriber's Survey done in mid-1987. That survey indicated a real need for in-depth articles written by and for senior DXers. Luckily, that same Survey revealed a number of very well-qualified volunteer authors. In January 1988, these volunteers were contacted and writing and editing began.

What makes this publication unique in our hobby:

A) Although every attempt has been made to write clearly and explain fully, this publication IS NOT a primer for the uninitiated.

B) Every article has been rigorously reviewed by a Review Panel made up of some of the most respected figures in our hobby. After the Review, authors made appropriate modifications and expansions to their text before submitting final drafts for publication.

C) Every article has been very rigorously edited for clarity by Senior Editor Fritz Mellberg, a senior DXer with extensive experience as a journalist.

We believe that this publication is a MUST purchase for anyone wishing to improve either their enjoyment or their proficiency as SWBC DXers.

Highlights of **Proceedings 1988** include a Receiver section with reviews of most of the recent "favorite DX machines" now affordable on the used market... From a nostalgic look at the HQ-150 to the definitive users review of the NRD 515. The Antenna section offers virtually every DXer ways to make significant improvements to their antenna systems. The feature article on Delta Loops offers suburban DX'ers many of the advantages of a Beverage antenna right in their own backyard! Other antenna articles also should add strength to those ultra-weak signals next Fall.

There is also a section on Peripheral Equipment. Articles review tuners, audio filters, spectrum analyzers and tape recorders. **Proceedings 1988** also offers two articles on the computer as an adjunct to serious SWBC DXing. One article reviews two important pieces of DX related software (MINIPROP 2 and LOW BAND DX) and the other article offers a detailed explanation of how to use the newest commercial word processing programs to take the work out of reception report writing.

Finally, there are several feature articles. One is, we believe, the definitive article on DXing Papua New Guinea and Irian Jaya. Another is a bibliography of medium wave DXing articles which are currently available as reprints...180 or so are discussed as those of most relevance to SWBC DXing. There is also an extensively illustrated update report from the ANARC Committee to Preserve Radio Verifications.

The following DX'ers have contributed articles for **Proceedings 1988**:

Kirk Allen, Chuck Bolland, Jerry Berg, John Bryant, David Clark, Dr. Harold Cones, Nick Hall-Patch, Fritz Mellberg, Chuck Rippel, Mitch Sams, Dan Sheedy, Jerry Strawman and John Tow. Mark Connelly, Carl Hufferaker and Steve Bohac were also involved in the Review Panel process.

Proceedings 1988 is over 200 pages, single space typed, and is loose leaf bound with a plastic spiral.

Proceedings is available in North America for \$15.00 plus \$2.00 postal costs. Postal costs outside North America are \$3.00 surface book rate or \$15.00 for small packet airmail. All funds US funds on a US bank, please.

CHECK/MONEY ORDER (US funds) TO:

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RR#5, Box 14
Stillwater, OK, USA 74074

NASWA

NORTH AMERICAN SHORT WAVE ASSOCIATION

NEW NASWA EXECUTIVE DIRECTOR NAMED

With the consent of the NASWA Executive Council, I have appointed R. Charles "Chuck" Rippel the New Executive Director of NASWA. I have held this position and that of publisher since 1981 when Mac Leonhardt became too ill to continue, and I have realized for some time that I do not have enough time to prepare, print and mail FRENDX and also to properly take care of the many other details involved in the operation of NASWA. Chuck has the enthusiasm and skill for the job and I am looking forward to working with him.

Please remember that I will still handle the "business" end of NASWA/Frendx. All subscriptions, renewals, address changes, etc. will go to 45 Wildflower Road, Levittown, PA 19057. Other correspondence pertaining to NASWA and the SW hobby should be sent to Chuck at 1272 Parkside Place, Virginia Beach, VA 23454.

73.
Bill

OTHER CHANGES

Sheryl Paszkiewicz has taken over as editor of Log Report "B" replacing Jerry Berg. We would like to welcome Sheryl to the staff and to thank Jerry for the fine work he has done for FRENDX.

John Kapinos will continue as Distributing Editor for the Log Reports. John Henault has not sufficiently recovered to return to the post and "Kap" has kindly offered to continue with both the distributing job and the Awards Program. We are sorry to see John leave and we wish him a speedy and complete recovery.

"BLANDX" IS BACK!

As Don Moore puts it, "Just when you thought it was safe to turn on your receiver again, BLANDX returns!" Don is the "editor" of this fine parody, and he'd like to send you a copy for \$2.00. For overseas mailing, it's \$3.00 by surface mail, \$4.00 by airmail. The first issue of BLANDX was done by the Three Mile Island DX Club which, I believe, is now defunct, and while the government stated that no ill effects arose from the near-tragedy at Three Mile Island, well, send Don \$2.00 and make up your own mind. His address is 2½ Columbia Avenue, Athens, OH 45701.

September

1988



Greetings and salutations, and welcome to September. We in the northeast have had a most welcome reprieve from the hot weather of the last few months. I, for one, have spent more time at the R-71 and have enjoyed more, too. Hope the weather is better where you are. If not, I hope that relief is in sight.

Lots of letters this month. As I expected them to, my remarks about the proliferation of popular music on SW elicited some remark. Honestly—I didn't make my remarks merely to elicit letters from the FRENDX readership: I really am a little puzzled. But let's plunge into the discussion of that and other things as well. We start with a letter from a neighbor of mine: *Hank Michalenka* (P. O. Box 6027, Providence, Rhode Island 02940).

Like the new masthead: makes me a little dizzy looking at it, but anyone in DX has to be a little dizzy anyway! Does the leaning signify sunrise/sunset patterns, or too much use of tuning oil by the printer? [The former, sort of—sgm]

I typed a huge letter last month to you, and then had the program lock up on me just before printing (of course, without saving it first!). Was so perturbed that I didn't retype it. One of the big problems with FRENDX now is that I received this issue on the 8th, and now have only a few days to get something off to columns for the next issue. It seems every year the deadlines get earlier and earlier; can the editors not use Express Mail or the like?

Two comments to your query on why broadcasters use so much popular music. One, "popular" music is not American culture, but Western culture (remember the Beatles, Dave Clark Five, etc.). Even today, "artists" are from Ireland, Australia, Sweden and other countries. Japanese people love the stuff (hence KYOI program content in the old days). I could not agree more; the last thing I want to hear is pop music from Sierra Leone, but there is probably not a lot of recorded local music from Third World countries available to them. Most records arrive at stations free! Since there is a lot bigger market for pop music, this is what the producers promote by giving away the records/tapes.

I would like to hear more local music, but I would prefer more local news and features even more. These cost money; nothing is cheaper to produce than a DJ spinning disks.

I notice the lack of contributors to FRENDX again this month in the logging section. I believe this is due to the regional DX clubs springing up, splinter groups, and flood of information in publications like Hauser's DXLD. Here's a question you might want to ask the members... Is there any need to contribute loggings to FRENDX any more? In the old days, it was not unusual to see the log section run 16 pages per month, all done by one editor in the pre-computer days. Now we have so many people in electronic bulletin boards, and in regional clubs that loggings from people halfway across the country may be deemed to be irrelevant to them. If I lived in Minnesota, I would be more interested in what someone else in Minnesota was hearing than someone in Guam.

It has been reported that membership in the larger clubs is going down at the expense of the regionals; are we sinking under our own weight? It seems we never see FRENDX contributions from some of the favorites. Don't get me

wrong, either; I think it is great that we have progressed to the point where people can make part of a living from the SWBC hobby. Unfortunately, presented with a choice of paid work or charity work, I know which one I would choose, too! Perhaps it is time to seriously change the direction of FRENEX to more of a magazine format than a rapid information exchange, which I believe that we have been left behind by technology. If I want faster breaking DX news, I can go many other places than FRENEX to get it. I have been a member since 1967 and do not wish to see NASWA go downhill. As a former column editor and publicity director many years ago, I think it is time we took an introspective look at our strengths and weaknesses and moved forward from there.

I don't believe in hounding members to contribute; to me, that is like a priest/minister/rabbi getting up in front of the congregation chastising people for not attending services. You have already missed the audience!

Finally, my wife and I are going to Hawaii in mid-October for our tenth anniversary. I would appreciate it if anyone who has had any experience DX'ing in Hawaii would drop me a line with a few short comments on what to expect. My main targets are the Pacific and Southeast Asian rarities! Show this to your wife, Dr. DX! Only my wife would let me take along a Sony and golf clubs on our second honeymoon.

There is much in what you say about the future of SWL/DX organizations. We are in a funny time: there really aren't enough people with computers to warrant the abandonment of the paper medium altogether—indeed, complaints begin to surface in large numbers if we over-emphasize computer matters. On the other hand, so much information is becoming available so quickly as to render paper-and-ink virtually useless in conveying it. This will have—and has had—an impact on all the SWL organizations. The ANARC computer bulletin board, for instance, is very much more than a mere message center and SW-schedule/DX-listing: it is a forum and workplace where people can meet, work, share information and ideas—SWL columnists, for instance, can use the ANARC board to prepare and send columns. Interesting. Any comments?

It was with a warm glow of memory that I received the following letter from *Tom Ross* (Lyons, Illinois). Tom sent one of the very first letters I used in CONTACT. He also has something to say about the music issue (as will I, never fear), and also has some interesting profiles of family SWLs:

It looks as if your August column was a mite on the thin side, so I figured that I would drop you a line. I wrote to you after your first column in FRENEX, and my letter was one of the first that you had published in your next column!

Shortwave seems to run in my family, too! My father (who is now deceased) listened to two different Zenith radios (Trans-Oceanic), and I followed in his footsteps. Now my son (named Tom also) is an avid listener, and has my dad's D1000 Zenith and a RS DX-400! He recently joined the U. S. Air Force, and has been assigned to Intelligence school. One of the first he saw at Goodfellow AFB in Texas, where he is now assigned, was an ICOM R-71A and an ICOM IC-R7000! I have both these rigs in my shack, and my son is familiar with them, so he was all excited about using them. He also mentioned several Rascal radios costing over \$30,000 apiece! I think he's havin' fun so far!

I was surprised the other day to receive the UHN (USSR High Frequency Broadcast Newsletter) from Roger Legge (issue #63). I thought that I had seen the last of that one, but Roger's back. He said that he will be able to "occasionally" get the newsletter out, so I hope that means more often than in the past. I, for one, chase Radio Moscow transmitter sites, and that newsletter is sure helpful!

Speaking of family, my sister-in-law, Donna Robinson, who is also a NASWA member, is now well entrenched in shortwave, and has now more countries heard than myself. It appears that with YLs like Sheryl Paszkiewicz, who's heading up Log-B column from Jerry Berg, and Gayle Van Horn, and Donna, that men alone are not the only "big guns" in the hobby. I predict that more ladies will be joining this hobby, and contributing greatly to shortwave in the future! I personally think that it's about time. This hobby needs new blood! What is your opinion on this matter?

In regards to your comments about popular music on short wave radio, I

think it is probably due to the fact that a very large portion of the world's population is under 30, and we have a new generation of listeners and broadcasters! Plus, I think it's sort of flattering to think that a good portion of the world is American influenced! Lately, the U. S. has had its share of bad publicity, so it's good to see there's something that the rest of the world likes about us Americans!

Well, now that I've written, you'll probably receive 1000 other letters this month, so I'll keep it short and sweet. Best DX and good listening on that R-71A! Your column is thought provoking!

First off, thanks for the kind words about the column—I try my best. Now, let's tie Hank's and Tom's letters together with respect to the music issue. Let me state clearly for the record that it makes absolutely no difference to me what sort of music people want to listen to, and, for the most part, what sort of music broadcasters want to broadcast. It merely seems odd to me that international shortwave broadcasting—which is supposed to reflect the culture of the broadcasting country—should broadcast so much American culture. In this, I take issue with Hank's point about popular music being a "western" cultural phenomenon—that is, I distinguish between the cultural origins of an art form as opposed to the export of that art form: when pop singers from the world over sing in English, for instance, they almost invariably do so in an American accent, and, moreover, a southern one at that. Still, I accept the economic reasons for the DJ format. Tom's suggestion that the *youth* of the broadcasters and the audience has something to do with the broadcast content is also interesting. If this is true, then the inference must be that international broadcasters are attempting to go after a new and younger audience for their programs—in which case Tom's desire for new blood in the hobby is already being addressed. But I wonder how effectively? And finally, of course, I guess I have to agree that any good press America gets (through music, or whatever) is in itself a good thing. Well, have you any thing to say about all this?

I am always on the lookout (and want you to be the same on my behalf) for information about SWBC in the press. It is really heartening to see what I perceive to be a real increase in interest in shortwave in the popular press. The most recent example is sent to me by R. C. Watts (Louisville, Kentucky) and it comes from the Louisville *Courier-Journal* of 13 August 1988. It is written by Ric Manning and the following is a substantial excerpt. K.C. accompanied the newspaper extract with a nice note:

Thought you would be interested in the enclosed article by the local "Gizmo Editor." HCJB aside, Rev. MacHarg is quite well known and respected here. Radio Shack has sold out of DX-440s.

With an overseas airmail report, 1 IRC enclosed, costing about \$1.50, I very likely will become a SWL after almost 30 years as an off-and-on DXer. Plus, QSL cards seem less and less important as one gets older. Not *too* old—still like to listen to KUSW's Faith Martin, who is a nice sounding Radio Lady.

I am hearing more and more irritation at rising costs of the QSL hobby, although I don't seem to detect any lessening of interest. Well, on to the newspaper clipping:

The sun was just easing down into Pamlico Sound when I put aside the Russians in my Tom Clancy novel and checked to find out what the real russians were up to.

Even on the little battery-powered Emerson radio I got from one of those DAK catalogs, Radio Moscow came booming in as clear as Surf 103, the FM rock station just a few miles away.

I got the Russkies' taking on the Democratic National Convention, then went globe-hopping down the shortwave bands.

West Germany's Deutsche Welle had a nice feature on a Polish-German jazz duet. There was French rock 'n' roll further down the dial, Latin music from Radio Havana, a passel of Spanish-language stations from Latin America and reports on Australian football clubs from Melbourne.

The Armed Forces Radio and Television Service had rebroadcasts of news and public-affairs programs from ABC, CBS, NPR and other domestic networks, as well as some great jazz in between.

And the English newscast from Radio Dubai in the United Arab Emirates came in strong and clear. It was up-to-the-minute on the Iran-Iraq war, but a little slow on American politics. At one point the announcer referred to former

Democratic candidate "Jackie Jackson."

Touring the international airwaves was particularly pleasant on North Carolina's Outer Banks because reception was so good. "That's because you were on the ocean," said shortwave buff Kenneth D. MacHarg of Jeffersonville. "Water is a great conductor for radio signals."

But even here in the heartland, MacHarg says, the conditions for short-wave listening are improving. For one thing, we're nearing the end of an 11-year sunspot cycle that has played havoc with shortwave transmissions.

And many foreign stations are increasing the power and coverage area in North America.

Radio Japan, for instance, now has a relay transmitter in Canada. China's Radio Beijing has one in southern Africa; Radio France International reaches the United States through a transmitter in French Guiana; and Taiwan's radio service has a relay station in Florida.

"All of those stations are heard much better now," said MacHarg.

MacHarg is a Christian minister and director of the Kentuckiana Interfaith Community. He's also the host of a weekly program broadcast on HCJB, a religious station in Quito, Ecuador.

MacHarg's program features the letters he receives from listeners around the world. "We've heard from 1,500 people in 60 countries," he said.

MacHarg also is the author of several books and articles about shortwave listening. His latest is a 32-page guide called "Introducing International Radio." It costs \$4.95 and is available from Global Village Press, Box 1345, Jeffersonville, Indiana 47131.

The guide includes brief descriptions of many major shortwave stations and a frequency guide that lists more than 200 English-language programs, their times and their locations on the short-wave dial.

New shortwave radios also make finding the stations a lot easier. Radio Shack's new \$199 DX-440, for example, has digital tuning and a keypad that lets you key in a specific frequency.

"A person doesn't have to have any technical knowledge," said MacHarg. "All you have to know is that HCJB is on at 9p.m. at 6205 and you punch that in, just like dialing a telephone."

Shortwave radio has always been popular in other countries, especially those that don't have many domestic radio stations. MacHarg thinks it's also catching on in the United States, where about 5 million people tune in regularly.

"There's more of a need for international communication," he said. "Look at the growth of Japanese industries in this country. That makes people here want to know what's going on in Japan."

That's probably true, but it's also nice to hear some variety on the radio. There's only so much Surf 103 a person can take, even at the beach.

Well, that seems to be all I have for this month. Hope you have enjoyed it and have a little something to think about. WRITE! Let's hear from you. Many thanks to all who took the time to write. Until October—many best 73s, and may your listening be interesting





Easy Listening

Editor: Alex Batman, 300 Hill St., Apt. 6, Boone, NC 28607

SUNDAY

- 1415-1425 Preparing for the Future (Radio RSA). A program focused on training programs and related activities for South Africans. Past programs have featured the training programs at an electric utility company, an agricultural workers training center, and a school for deaf children. (21.590/21.535).
- 0135-0200 Sunday Concert (Radio Prague). Selections of classical music usually tied together by some thematic chord, such as pieces played by the Slovak Chamber Music Orchestra, pieces played at a Czechoslovakian music festival, or works by Czech composers or performers. (5.930/73.45/9.740/11.990. Repeated at 0335 on the same frequencies).

MONDAY

- 2030-2045 Conversations (WCSN). Interviews with interesting people in one or another walks of life. Past programs have featured interviews with a Guatemalan doctor, a British author who was born in India, and the head of a school for interior design. (15.390. Repeated at 2230 on 15.300 and at 0030 on 9.850 and other world service times and frequencies, always during the second half hour of the two hour broadcast). Monday-Wednesday-Friday.
- 0215-0225 RBI DX Club (Radio Berlin International). A run-down of items of interest primarily but not exclusively to fairly recent SWL's. Past programs have featured an analysis of what QRN means (a rather exhaustive distinction between atmospheric or cosmic noise and man-made interference), an analysis of the SINPO code, and a feature on pulsars and cosmic DX-ing. Every other week is a repeat of the previous week, so that the program is essentially bi-weekly though aired on a weekly basis. (9.620/9.730/11.785. Repeated at 0415 on 9.620/11.785).

TUESDAY

- 2030-2045 Young Ideas (WCSN). A program devoted to "the young and young at heart". Past programs have featured a National Estuary Reserve in Massachusetts, reports of a dinosaur-like creature in central Africa, interviews with three exchange students from South Africa, and interview with one-man showman, star of "Head Theater". The first Tuesday of each month features the "scrambled word" game (example: SHROWDWORT for a 19th century British poet). (15.390. repeated at 2230 on 15.300 and 0030 on 9.850 and other world service times and frequencies, always at the beginning of the second half hour of the two hour transmission). Tuesdays-Thursdays.
- 0215-0230 Journey Into Chinese Culture (Voice of Free China). The program has recently adopted a new format in which an American visitor to China asks questions of his Chinese friend and gets information about Chinese culture. This dramatized format is new and continuance of the program depends on listener response, so they are eager of letters and comments. (5.985/9.680. Repeated at 0715 on 5.985).

WEDNESDAY

- 0240-0250 Let's Talk it Over (Radio Bucharest). Answers listeners' questions in some detail, usually two per program. Past programs have featured the electronics industry in Romania, health care in the country, and the nation's most popular spas. (6.155/9.510/9.570/11.830/11.940).

- 0345-0355 Our Musical Page (Radio Tirana). Features works by Albanian composers or singers or musicians, and often folk tunes as well. Not surprising most of the more modern tunes have a patriotic theme. (7.065/7.500).

THURSDAY

- 1115-1140 Current Affairs (Radio Beijing). This is Radio Beijing's newest program and within a few weeks of its inception, it was expanded from fifteen to twenty-five minutes. Looks at the current news stories in China, such as new censorship guidelines for the film industry, reforms in the civil service system, China's current hear wave, or a translation of The Last Emperor into Chinese. (15.455. Repeated at 1215 on 15.455 and at 0015 and 0315 on 9.770/11.715). Monday through Friday.

- 0130-0145 In Business (Radio Japan). Program begins with "Economic Headlines", brief items about the most recent economic news, and is followed by "Economic Update" which takes a more extensive look at some current economic topics, such as the release of financial statements at the end of the fiscal year by Japan's major corporations, the Japanese fast food industry, and the very popular dry-beer in Japan. (5.960).

FRIDAY

- 1300-1305 Science Notes (Radio France International). This program appears regularly but not always on Radio France's new English service to North America. Brief items of scientific interest, such as the exploration of the sea bed in a two man sub, advances in cardiology, or a satellite which will be able to measure more accurately the distances between stars. (15.365/17.720/21.645/11.670. Repeated at 0330 on 9.800).

- 0250-0325 The Rembrandt Express (Radio Netherlands). This metaphorical train ride stopping at a series of unrelated features has replaced "The Friday Report" which aired for six or seven years previously. Past features have included an interview with Margaret Thatcher's Dutch Biographer, a family of Dutch clockmakers who hid Jews during World War II, and the International Esperanto Society. Each week includes the feature: "Learning Dutch the Lazy Way: One Word at a Time," which naturally explains and translates (as close as possible sometimes) a common Dutch word. (6.020/6.165/9.590/9.895. Repeated at 0550 on 6.165/9.715).

SATURDAY

- 2240-2250 Viewpoint Studio (Radio Sofia). Items of topical/political interest, including a feature on the Human Rights organization in Geneva, an interview with a man who is walking around the world for nuclear disarmament, a feature on the proliferation treaty nuclear arms, and the distortions of the Western media (9.700/11.950. Repeated at 0010 on 9.700/11.950 and at 0310 on 11.750).

- 0215-0225 Weekend Miscellanea (Radio Bucharest). This program used to be a regular feature on Saturday nights, but in recent weeks it is showing up more and more rarely though still there at times. It is, as the names suggests, a collection of unrelated features. Past programs have featured work at a car factory in Romanian, the Romanian contributions to oceanography, hospital care in Romania, and Romanian aeronautic contributions. (6.155/9.510/9.570/11.830/11.940. Repeated at 0415 on the same frequencies.)

* * *

DX'ers Forum

Dedicated to Furthering the
Art, Science and Enjoyment
of DX'ing

Conducted by Rowland Archer, 5524 Hawthorne Park, Raleigh, NC 27613 September, 1988



I was very pleasantly surprised to receive issue #63 of Roger Legge's UHN (USSR High Frequency Broadcast Newsletter) out of the blue after almost two years of inactivity. I had just about given up on ever seeing another issue of UHN, but Roger says that after 2 years of personal, family and financial crises he is once again able to publish it. UHN is a brief (usually 2 pages double-sided) but excellent publication that covers the Soviet shortwave broadcast scene, including regional and international services. The format is simply a listing by service of frequencies, likely transmitter sites, and times of broadcasts. Transmitter site information is derived from a combination of sources including QSL's, the IFRB Tentative Schedule, and monitoring.

If you are trying to log and verify some of the tougher Soviet sites or republics, UHN is a big help. For example, the newest issue has likely times and frequencies for Alma Ata, Baku, Chita, Dushanbe, Frunze, Irkutsk, Kalatch, Klingisep, and Kursk, among others.

As we've noted here before, Radio Moscow is often inconsistent and a unreliable when it comes to putting transmitter sites on QSL's, and UHN can't do anything about that problem. However, speaking from experience, trying to verify a number of Soviet sites is a time-consuming and hit-or-miss activity, and the information in UHN, coupled with keeping a sharp eye on the QSL columns, at least improves your chances of success.

Although it sounds like UHN's publishing schedule will continue to be irregular, its bargain price of \$3 for 8 issues makes subscribing an easy decision for anyone who wants to

keep tabs on the Soviet shortwave scene. You can order UHN from this address:

Roger Legge
Box 214A
Etlan, VA 22719

After a number of frustrating attempts to QSL something other than Tula and Vinnitsa, I seem to have hit on a few "good ones"

Republic	Site	Freq	Time
Armenian SSR	Yerevan	17875	1100
Georgian SSR	Tbilisi	15500	1900
Georgian SSR	Tbilisi	17570	1100
Turkmen SSR	Ashkhabad	17740	1100

Recent veries of Soviet Sites for May '88 loggings

recently. In case you are chasing Soviet Republics (most of which count as separate NASWA countries), I have listed the times and frequencies of some May loggings that Radio Moscow recently verified as shown. If you're tired of getting Radio Moscow QSL's for the "same old sites," give these a try.

A hot DX item this month is FIJI, back on shortwave after years of inactivity. The University of the South Pacific in Suva is reportedly using shortwave due to a satellite problem. The first report I saw was in *Fine Tuning #482*, in which Jack Jones reported via Don Jensen that he logged them on August 3 on 9070 kHz from 0500-0512. It seems to be on irregularly, with most reports

Fiji

coming on UTC Mon-Wed. Check this month's *Listeners Notebook* for more details. It's not yet clear to me if this is to be considered a broadcast or utility station. The format sounds like Suva calling various other universities. If the intention is for at least some students to pick up the broadcasts

directly, it would count as a valid SWBC station by NASWA country counting rules. If it is intended only for point-to-point transmission between universities, who in turn will re-broadcast it to their own students, alas, it is considered to be a utility station. While still a good catch, it would not be considered SWBC, and thus would not qualify as "hearing SWBC from Fiji" under NASWA rules. Hopefully some clarification on this will appear soon, perhaps even elsewhere in this *FRENDX*.

One of the rarer catches I enjoyed this past DX season was Radio TV Hong Kong's bien-

According to a report via Glenn Hauser on SWL Digest August 20, you may have a chance to log this station more than once every two years! Bob Padula in Australia reported to Glenn that Craig Seager has heard Radio TV Hong Kong testing in English and Chinese on 9685 from 0700-1600, best from 0800-1300, with a BBC news relay in English at 1300.

FRENDX Editorial Board member John Bryant, in one of his "other jobs" (and John seems to have boundless energy to devote to the hobby, to all our benefit) as Special Publications editor for Fine Tuning, has directed

DX Panel Sessions

In the months to come, DX'ers Forum will be running several "panel session" columns, in which you will have an opportunity to pose questions to a group of senior DX'ers. This idea was inspired by Bob Brown KW3F's live panel sessions held at the Willow Grove *Mid-Winter SWL Fest* last February. If you would like to pose a question to other DX'ers, send it to me on a postcard. The deadline for the first session's questions is October 15, but you can send in questions for later panels at any time.

nial weather report on 3940 for the yacht races in the China Sea. I've been trying to hear this station for a long time without any luck, but this year I finally logged them during a geomagnetic disturbance. Interestingly enough, although one would think that reception of this station would be better on the West Coast of North America, it seems that historically East Coast DX'ers have had a higher percentage of success than their West Coast counterparts. Bill Sparks, author of the very popular DX'ers Forum article on DX'ing Indonesia, is a San Franciscan who has noticed this phenomenon.

Normally RTV Hong Kong is a good QSL'er, but I've only seen one report so far this year of a QSL for the 1988 broadcasts. I sent a report to the address given in the WRTH and received no reply. I noticed a different address in Harold Sellers' *DX Focus* column (thanks Harold!) in the May 1988 issue of *DX Ontario* and sent a followup which was quickly QSL'd. In case you are also waiting for a reply, try a followup to:

Tony Baynes, Head Radio 3
Radio TV Hong Kong

Queensway Government Offices, 47th Floor
Queensway Road, HONG KONG

a massive effort to produce fine tuning's *Proceedings 1988*. This 15mm thick volume includes reviewed and edited articles written by senior DX'ers for senior DX'ers. There are 20 articles grouped in categories that include Propagation, Receivers, Antennas, Peripheral Equipment, and Computers. There are four "feature articles" including an expanded version of the article that Chuck Rippel and Harold Cones wrote for *DX'ers Forum* on DX'ing Papua New Guinea. More detailed information including "how to buy it" should appear elsewhere in this month's *FRENDX*.

I'd like to join all of NASWA's membership in thanking departing LR-B Log Editor Jerry Berg for eight(!) years of service to the club in that role. I don't know what the record is for being a log editor but you sure are out there on the time-in-position curve, Jerry! Jerry's work on the Committee for Preservation of Radio Verifications has created an archive of absolutely outstanding QSL's already, and the CPRV is still young. One of the major challenges facing the CPRV is innovative ways to facilitate public access to these treasures, and some interesting ideas are already being tossed around. All involve work of course, so Jerry's departure from LR-B will help free up some much-needed time. To balance Jerry's leaving, we extend a warm

About Your Editor

After four months of procrastination, a brief introduction seems appropriate, so here goes. I'm 35, married with two young daughters (2 1/2 and 10 months), and work for Data General as a software development manager (database management system software). I have been DX'ing on and off since the mid-sixties. I was an electronics hobbyist from a tender age and I discovered the joy of shortwave radio one day while fooling around with an old Atwater Kent tube set that my father gave me. I hooked up a length of wire to the antenna input and lo and behold, the bands were filled with amazing things! The BBC, Radio Nederland (as Radio Netherlands was then called), HCJB, Deutsche Welle, and on and on. Through Hank Bennett's and Glenn Hauser's columns in *Popular Electronics*, and C.M. Stanbury II's work in *Electronics Illustrated*, I started to learn about the mysteries of this medium that was so dynamic and intriguing compared to the "radio listening" I knew, of local AM and FM stations.

I learned about QSL'ing, upgraded to a "modern communications receiver," a Heathkit GR-54 tube set. The Heathkit opened another world beyond the Atwater Kent, and despite its very roughly calibrated analog dial (about 1 MHz per inch, with markings every 500 kHz!) and mediocre selectivity, I verified about 90 countries before drifting away from the hobby in my mid-teens. After a long period of only light involvement with radio, in 1980 I noticed the DX-300 at a local Radio Shack and became fascinated by a radio that let me just "dial up" the frequency! Digital readouts were certainly not invented on the DX-300, but they were beyond my means during my first tour through SW DX'ing. The DX-300 and the end of graduate school were jointly responsible for catapulting me back into the hobby. I spent 1981-1983 making up for the long period away from the hobby, getting back to speed (and re-QSL'ing the 90 countries whose QSL's had disappeared in the dry years, groan!). In 1984 I purchased a JRC NRD-515 modified by Radio West to include 1.8, 2.4, and 3.8 kHz Collins mechanical filters, and this serves as my main rig to this day. During the last year I've enjoyed the radio hobby more than ever before, as much as anything due to the personal friendships I've established with other hobbyists.

The DX-300 is now gone, and my secondary rig is a Sony ICF-2001D which I purchased on a business trip to Japan. Incidentally, despite images I had of buying consumer electronics goods cheaply "at the source," (nurtured by an article about the *Akihabara* consumer electronics district in *Popular Electronics* many years ago), the 2001D cost about the same in Tokyo as it did in the U.S., and this was before the value of the yen soared. My antenna farm at the moment includes a shared feed 60/90 meter twin inverted V, and two random wires, one 90' and one 210'. I use an MFJ passive antenna tuner, and munge audio through a Datong FL-3 audio filter and a Radio Shack \$30 (on sale) graphics equalizer. A dual cassette deck (great for dubbing ID's and interval signals) rounds out the shack.

welcome to Sheryl Paszkiewicz, an outstanding DX'er who will be taking over the editorship of the very important LR-B log report column. Let's keep Sheryl busy with a bundle of high quality logs every month!

The upcoming DX season is looking VERY promising already. Ontarians Dave Clark and John Fisher tipped me off that the Papua New Guinea stations were coming in well already, along with a number of Indonesians. Skeptical, I tuned up on 90 meters last Monday morning and lo and behold, there they were. Radio New Ireland on 3905 has been

putting in especially good signals this year, and they were back with quite decent copy. I also noted RRI Serui on 4607.3, presumed since I heard no ID but did hear the distinctive SCI ("Song of the Coconut Islands") interval signal at 1059 UTC. If you live on the East Coast of North America and have assumed that you couldn't hear the Radio Republik Indonesia regional stations because of your location, give them a try this Fall. Start with RRI Ujung Pandang, which jumps between 4719a and 4753a kHz. Note that these stations, like the PNG's, may only be audible for a 5 to 20 minute stint each day,

usually peaking around the time of your local sunrise. You may also have a window of opportunity around your local sunset. If you tune in SSB or CW mode and hear a carrier on an Indo or PNG frequency, hang in there and see what develops.

The 1989 Passport to World Band Radio should be available within a week of the time you receive this *FRENDX*. The current schedule is for it to be out by mid-September. This publication is an excellent reference to keep by your radio. It contains feature articles and equipment reviews, but the part you'll use every day is the presentation of station schedules by frequency.

The format used is extremely useful for band scanning. Each page is a grid, with frequencies running down the page and hours running across the page. For each frequency, scheduled transmissions are ordered by country. Each transmission is represented by a horizontal bar starting at the sign-on time

and ending at the sign-off time (or fade-out time in North America if sign-off time is not known). The symbol used to draw the bar represents the language in use for that transmission. Text above the bar indicates schedule if not daily, transmitter power, target region, and any other notes of interest. Text at the left of the page aligned with the bar gives the country, station name, and transmitter site if known.

PWBR complements the old standby WRTH very nicely, emphasizing a presentation of stations ordered by frequency, whereas WRTH's emphasis is on a listing by region and country. You can order PWBR from most of the suppliers serving the shortwave listening community.

* * *

Next month: Part 1 of a comprehensive series on DX'ing CHINA by John Bryant.

How to Write for DX'ers Forum

The goal of DX'ers Forum is to provide information that makes you a better DX'er. Although I try to keep the editorial pipeline filled with commissioned articles, I am just as interested in receiving voluntary contributions as well. If you would like to write a full-length feature article, I recommend (but don't require) that you drop me a postcard first, giving the title and subject matter of your work before you get too far with it. This way, I can advise you if your chosen topic is already being covered by someone else.

Short contributions can probably be used even if they overlap with other articles somewhat, do don't get bogged down by the process if you just want to share an insight, idea, or experience with other DX'ers. A single page letter or even a postcard will do.

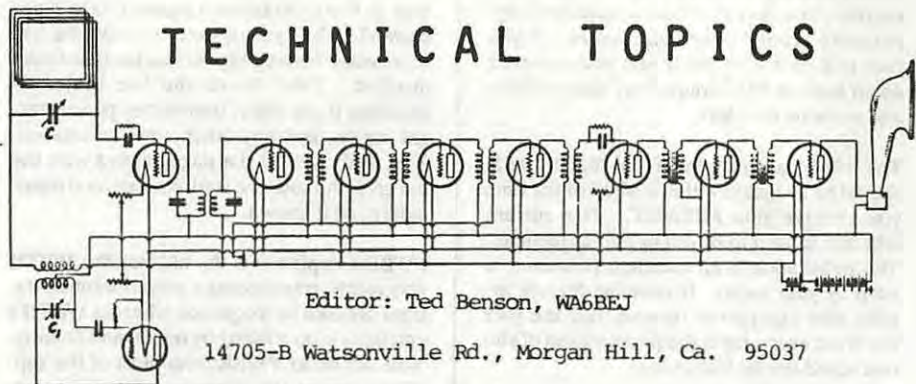
What kinds of things should you write up for the Forum? If you're interested enough to read this column, you have had DX'ing experiences and know DX'ing or QSL'ing techniques that are worth sharing with your fellow club members. If "writing an article" seems too imposing, consider sending a postcard with a tip or technique you enjoy; or share an anecdote related to DX'ing or QSL'ing.

Having trouble getting started? Here are some topics you might write about:

- How you finally logged and/or verified <Station X>
- How to hear and identify new or reactivated stations
- DX'ing <Region X>
- Your approach to DX'ing; how do you organize to reach your goals?
- Getting ID's
- Record keeping and reporting

Every DX'er can relate to at least one of these topics. Send in your ideas and let's make the Forum a real DX'ing information exchange.

TECHNICAL TOPICS



Editor: Ted Benson, WA6BEJ

14705-B Watsonville Rd., Morgan Hill, Ca. 95037

Last month we examined the basics underlying the wire antenna in its simplest forms. It was a good start, but for the average SWL an antenna which operates best on only one band is not very useful, unless it is a special addition held in reserve for a favorite station. What is available for multi-band use? Read on...

If you re-examine the formulas we derived last month for antenna lengths, you might notice that there are some curious relationships present: what constitutes a quarter wavelength antenna on one band *also* serves as a half wavelength antenna on a higher band (twice as high) and even a full wavelength antenna on a band four times as high as the original frequency. Clearly, we have the beginnings of a simple, multiband antenna. Amateur radio operators (those who actually still *build* things) often use a quarter wavelength antenna on 80 Meters, and at the same time use the antenna as a half wavelength antenna on 40 Meters and a full wavelength antenna on 20 Meters. There is only one catch with this arrangement - at least if you are transmitting into the antenna - a tuner is needed to match the feedline impedance to that of your radio. But more about this later...

TRAPPED ANTENNAS

What if we could design an antenna that automatically "switched-in" the correct lengths of wire for different bands? We can! I mentioned briefly last month the name of Tesla, in my estimation a genius who never really got his due. Among other things we can thank him for is our A.C. electricity (no, Edison did not invent A.C.) and the resonant circuit. Basically, a capacitor and an inductor in parallel will act as an open circuit at a particular frequency, and a closed circuit, or short, at all others. If you construct a dipole antenna, and insert these tuned circuits at strategic points (see figure 1) these little circuits will open or close themselves automatically, connecting or disconnecting the correct amount of antenna for the frequency you are using. Thank you, Nikola Tesla...

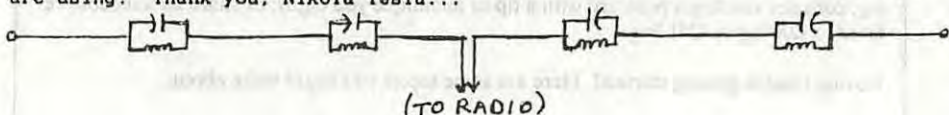


FIGURE 1
TRAPPED DIPOLE
GANGED ANTENNAS

There is another type of antenna I avoided last month, because it is rather special, and I didn't want to tip my hand all at once! The so-called "inverted V" antenna is actually a dipole whose legs have been allowed to droop almost to the ground. The result, seen in figure 2, is an upside-down, or inverted V. The angle between legs, or θ , should be between 90° and 120° for best operation, and due to the fact that the legs are close to the ground, a thing called end effect requires that the antenna be shortened a bit. That's fine, but it still only gives us one band. Or does it? Two nifty things can be done with inverted Vee's, one requires a lot of wire; the other a little electronics. Vee's can be erected next to each other and arranged in a circle.

one for each band (see figure 3), and connected in parallel. The antenna which is closest to resonance on the frequency of interest will predominate in capturing signals, while the others sit by. Those who read my first column will recall that this arrangement is what got me into trouble with the retired Navy guy next door. So for those of you with unsympathetic neighbors, there is plan B.

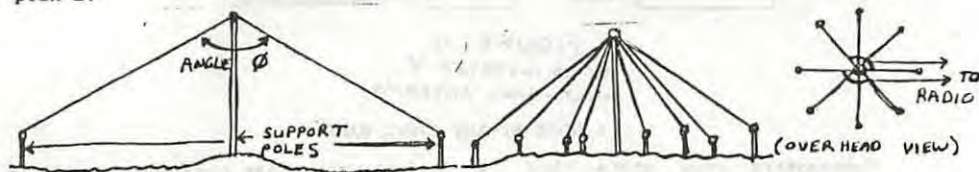


FIGURE 2
INVERTED V

FIGURE 3
"GANDED" INVERTED V'S

ELECTRONICS TO THE RESCUE

By using one inverted V, cut for the lowest frequency you plan to receive, and a tuner, you can essentially listen to any frequency from the lowest up! You will also need a special kind of transmission line called "ladder line." No fear, this is nothing more than T.V. twin-lead for those of us who don't plan to transmit with the antenna. It is simply easier for your tuner to match the 300 ohm impedance of this feedline, combined with the many complex impedances that your antenna will exhibit over a broad frequency range, than if you used 52 or 75 ohm coaxial cable. Plus, the twinlead is a balanced line - the currents flowing in each side are equal and less signal is lost than in coax, where more current flows in the outside shield than in the center conductor. Figure 4 shows the basic hookup for an inverted V and tuner, but what does the tuner do? The radio receiver likes to see a particular impedance at its antenna terminals. In fact, of the signal captured by the antenna, more is passed-on to the receiver when the antenna and feedline impedance matches the receiver's input impedance than at any other time. Trouble is that the antenna's impedance, and therefore the impedance at your end of the feedline, changes wildly with frequency. Enter the tuner, or "transmatch" as the hams call it. The antenna tuner is not the same as a preselector, which I will discuss later. Rather, it actually tunes the antenna and feedline to resonance. How? By providing a means of switching-in different values of capacitance or inductance. At many frequencies the antenna will behave normally, and resonate just swimmingly. But at other frequencies the antenna will exhibit A.C. resistance, or reactance. It can be capacitive or inductive, but the end result is that your receiver won't like what it sees. The name of the game in SWL'ing is to get as much of that all-valuable signal as possible. And if you can't get it into your receiver you have lost before you start. Remember what I said about antenna, feedline, and receiver impedances being the same? The closer they are the better things sound. Well, there isn't much you can do about the antenna matching its feedline. The value chosen in the best compromise. But you can do something about the receiver-feedline interface. If the feedline shows a capacitive reactance, you switch-in an equal amount of inductive reactance to cancel it. And, it follows, that inductive reactance can be cancelled by adding capacitive reactance. A tuner does just that. Most are equipped with two variable capacitors and a variable or tapped inductor. You simply adjust for the best signal while watching your S meter. By way, you not only get more signal than without the tuner, but often you eliminate intermod and other types of phantom signals, because the tuner makes your system sensitive to one, and only one, frequency at a time. Many types of tuners are available commercially, though most are made for transmitting, with resulting bulkier and more expensive components. In a future column, we will not only examine the many tuners offered, but also see plans for building our own.

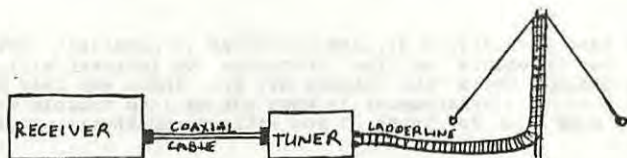


FIGURE 4
TUNED INVERTED V
MULTI-BAND ANTENNA

A ROSE BY ANY OTHER NAME

Shakespeare once wrote that "A rose by any other name would smell as sweet..." When it comes to tuners and preselectors, this is not the case. More confusion arises here than in most other aspects of your receiving system. A tuner, as previously explained, matches impedances. A preselector, on the other hand, plays no part in matching anything. Rather, it is a tuneable filter of sorts. It, too, has tuneable capacitors and inductors, but arranged differently. In a preselector, the capacitor and inductor are connected in parallel to form a tuneable resonant circuit. By using the preselector, you allow only a narrow band of frequencies to pass to your receiver, while stopping strong, adjacent frequency signals from getting by. This can be a blessing if you live near a broadcast transmitter, or wish to receive a weak station in the shadow of a strong one.

REBUTTAL

I have read, with amazement, many articles geared toward the SWL, which state that matching the antenna and feeding to the receiver, or using a tuner, is a waste of time unless you are transmitting... **NONSENSE!** We are out there to capture as much signal as possible, and the better our components match each other the greater our chances of doing so. Anyone who doubts the wisdom of this should do the following: take a long, random length of wire and connect it to their receiver. Then insert a tuner (designed for a long-wire) and watch the signal climb - several S units in some cases. At some frequency, of course, no change will be noticed - this is the natural resonant frequency of the wire. But at all others the improvement will be dramatic.

AND NOW FOR SOMETHING COMPLETELY DIFFERENT...

I hope to take some space in each column to answer questions readers have posed which might be of interest to all.

Several readers have written about problems with keypads wearing-out on their programmable receivers. Most modern receivers use one of two types of switches - the membrane or bubble type, and the p.c. switch. In the membrane switch two conductive strips are separated by a thin sheet of rubber with a small hole in its center. A small plastic "bubble" covers this arrangement. When you press hard enough, the bubble collapses, and allows one conductive surface to bulge through the hole in the rubber to touch the other strip. When you let go, rubber recovers, and once again insulates the conductive strips from each other. These switches most often fail because the rubber sheet wears out, or the bubble covering the switch stays collapsed. There is, unfortunately, no remedy short of replacement. Have heart, though. Most quality receivers nowadays use a p.c. grid switch. In this arrangement, a set of fingers are etched onto the circuit board holding the switches. A set of conductive rubber buttons are held above the p.c. board by a mutual rubber sheet. Pressing the button causes the conductive material in it to short the p.c. fingers, completing the circuit. In this type of switch repairs are possible. Simply separate the buttons from the p.c. board, and using an ink eraser burnish the p.c. fingers. Then clean the underside of the rubber buttons with rubbing alcohol. This should do the trick.

Jay Golden of New York writes with news of an interesting antenna he saw mentioned in the 1988 WRTH (your editor is poor, and plans to buy one in October, when they go on sale). Jay writes about a "terminated tilted folded dipole." This sounds fascinating, but unfortunately details were left for the WRTH newsletter, which neither Jay nor I have. Jay asks that any reader with a copy send him a photocopy of the article, for which he will pay copying and postage. That goes for me, too. Please send a copy to Jay at:

396 Yarmouth Rd.
Rochester, N.Y. 14610

Milorad Jakich of Milwaukee is interested in broadcast schedules for Serbo-Croatian services of the BBC and Radio France Int. Please send any information to Milorad at:

629 Elm Ave.
S. Milwaukee, WI. 53172

By the way, Milorad, an active antenna might suffice for your reception of these services, as they are rather powerful, but I fear that most of their Serbo-Croat broadcasts are beamed toward Europe. Regardless of whether you use an active or outdoor antenna, a preselector, as mentioned above, will help in separating stations in a crowd - unless they are literally on top of each other.

-73's

Ted

FOR SALE: Customized beam headings (from/to) and distances (MI/KM) to over 435 WRTH-88 transmitter sites. Useful in selecting alternate transmissions and choosing listening times based on distances. ITU Country Codes included. Send your location/coordinates, \$5.95. WRTH-87, \$9.25. FRENDX-87 complete, \$7.25. Gilfer "Confidential Frequency List" and "Guide to RTTY Frequencies #6," \$5.25. All items include shipping. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398.

FOR SALE: Drake R7, DR7, Gilfer modified with 1.8, 2.3, 3.0, 4.0, and 6.0 filters in mint condition with manual and original carton. Used very little and no scratches or scars. Price \$1,090.00. W. C. Alder, 6663 Crown Ridge Drive, San Antonio, TX 78239. Phone (512) 653-6935.

FOR SALE: Datong multi-mode audio filter, Model FL-3, with automatic notch filter. Like new, \$90.00. Dymek DA-100D all-wave receiving antenna. New in box, \$85.00. NVA-88 speaker for the NRD-525 receiver. New, \$35.00. Stan F. Cabral, 2254 62nd Avenue, Oakland, CA 94605. Phone (415) 562-2486.

FOR SALE: Hallicrafters Model SX-28 shortwave receiver. As far as I know, it still works, but it's been in mothballs for more than a year now. This is a collectors item (circa 1940-43) and according to info received, is a 15-tube, 6-band (.54 to 43 MHz) receiver called the Super Skywriter. Looking for best offer or will consider trade for photography equipment. Neal J. Weissman, P.O. Box 290202, Brooklyn, NY 11229-0004. Phone (718) 743-6693.

NO COLLECT CALLS ON THESE ADS, PLEASE

NASWA Awards Program

Awards Chairman: John M. Kupinas, 86 S. Quinsigamond Ave., Shrewsbury, MA 01545

Greetings and welcome to the September 1988 NASWA Awards page. The following folks have recently earned NASWA Awards:

Kirk ALLEN, Newkirk, OK: Asian Continental DXPert; European Continental DXPert, Antarctic DXer, 2 station endorsement; Master Papua New Guinea DXer; Senior Indonesian DXer; Master Indonesian DXer; Senior DX Centurian, 160 and 170 country endorsements; Senior Nigerian DXer

Rowland ARCHER, Raleigh, NC: Ecclesiastic DXer

Dustin BRANN, Kansas City, MO: DXer de Pacifica

Rev. John C. ECKERT, Collegeville, PA: Asian Continental DXer; All Continent QRP DXer (50 kw); Ecclesiastic DXer

Kris W. FIELD, Ambler, PA: Antarctic DXer

R. Bruce HALE, Goffstown, NH: Antarctic DXer

Sheryl PASZKIEWICZ, Manitowoc, WI: Master Australian DXer

**** kap's comments ****

Sadly, scheduling conflicts preclude us from attending the Virigla Beach SWL Conference in a few weeks, but if you can possibly make it do so. Meeting Dr. Demento (whoops, Dr DX) in person will make the trip worthwhile in itself.

A BIG tip of kap's kap to John Bryant and the rest of his fine crew for their exceptional work in preparing "Proceedings-1988". For information, drop John an SASE to John at RRT #5 Box 14, Stillwater, OK 74074. This is a most valuable and interesting book that should be a part of any serious DXer's library.

On a lighter note, BLANDX-88 has made its appearance. For a gunuinely amusing spoof of our hobby, this one can't be beat. Cost is \$2.00 in North America, \$3.00 (or 8 IRC) elsewhere. Orders should be sent to Don Moore, 2 1/2 Columbia Ave., Athens, OH 45701.

It is with genuine pleasure that we report receipt of the August 1988 UHN Newsletter, perhaps the best single source in tracking Radio Moscow transmitter sites. Mr. Roger Legge, the publisher, advises that some serious personal considerations had prohibited him from publishing for the past couple of years. All previously paid for subscriptions will be honored.

Folks ask and we answer: The address for Pierce Communications, the outfit that Radio Africa, Bata, Equitorial Guinea, QSLs are sometimes available from, is: 10201 Torre Ave., Suite 320, Cupertino, CA 95014. An alternative address is Radio Africa, PO Box 851, Malabo, Equitorial Guinea.

Another question: "I lived on the West Coast and QSLd 107 countries, I then moved to the East Coast and QSLd 43 different ones. How many can I count towards NASWA Awards?" The answer is simple, 150 countries. Unlike some other organizations, primarily in the Medium Wave area, we are not purists. A country QSLd is a country QSLd, even if you took your vacation on Kirabati to get them via ground wave.

We also subscribe to the "once a country always a country" theory. Thus, 1988 QSLs from FRC-Enugu count as Biafra, even though the country ceased to exist many years ago. We have no "deleted" countries as such. In the Ham World, ARRL has had to reactivate some deleted countries over the years, much to their chagrin.

And a note of legalese, the comments of the NASWA Awards Manager (that's me), unless otherwise noted, are his alone and do not necessarily (but often do) echo the sentiments of NASWA as an organization. Permission is hereby granted to any other hobby organization to quote freely from this column, attribution will be appreciated. Contrary to my mallman's feelings, we do not get every DX publication in the world and tearsheets of those quoting us would be welcome.

Till next month

Bert, Kap 8/2/88

COMPUTER CORNER

Tom McElvy, Editor
P.O. Box 9645
Norfolk, VA 23505
(804) 497-5151

The Heat is ON!

Welcome to July, folks! Hope that it is hot enough to keep you all happy...or at least, the shareholders of the electric company! Lots of stuff happening, so let's get right down to business...

East Coast SWL Conferencel

OK, so you HAVE heard about it! Why am I mentioning it here in the Computer Corner? Well, the ECSWLC is **more** than just another hamfest or SWL conference. **There will be computer goodies galore!** Last year, I counted over 45 different suppliers of computer equipment and accessories, not to mention various suppliers of public domain and shareware on disks! If you want a bargain, this will be the place to get it! If you are interested, send a SASE to me at the above address, or give me a phone call **before 0230 UTC!**

NEW ANARC CIC Chairman!

Robert Horvitz, Executive Secretary of ANARC, has announced the appointment of **David Snyder** to the post of Chairman of the ANARC Computer Information Committee. Dave has been active in the hobby for over 15 years, and is a computer programmer (some people!). I am sure you will want to join me in welcoming David to the position, and wish him the best, for his duties are not easy ones. Any ideas, suggestions or questions about

computers, and their use in our wonderful SWL hobby, feel free to contact David at 127 Joseph Avenue, Staten Island, NY 10314.

New Version of dBase III+ Clone Now Available!

By now, I am sure that most of you MS-DOS users have heard of dBase III+, and like what it does, but had a small cardiac arrest when you saw the retail price. Well, my friends, there is a wonderful clone of dBase III+ called **WAMPUM**. The program is very user friendly, and versatile, but best of all, the program is available on many BBS's around the country. The latest version is 3.2; the shareware version uses Clipper indices, and the registered version is a whopping \$35. Real expensive, eh? Check it out, on any local BBS, or from me for the usual \$5 copy fee.

COMPUTERS & SHORTWAVE:

THEN and NOW

the conclusion
By Bill Krause

From the earliest days of the radio computer connection there has always been a great interest in hardware links between the computer and the radio. A variety of peripherals have been developed to link the computer and the radio. The earliest efforts were in the area of CW and RTTY translation. These

devices were much less expensive than dedicated units for the same purposes. As a result they achieved a great deal of popularity. They have enabled people to copy both CW and RTTY that would not have otherwise been able to do so. The latest trend has been the addition of FAX capabilities. Now, you can print out satellite weather photographs on your printer!

A somewhat recent trend has been the mating of computer databases with computer control of the radio receiver. Your computer can now optimally tune your receiver to your favorite station at the touch of a button. No more looking up schedules then hunching over the radio trying to get the last drop of perfection from the receiver; now this can all be done automatically, thanks to the computer.

A problem that has always plagued direct radio computer links has been the RF interference that all computers and their peripherals generate. As a result, for instance, computer CW/RTTY readers have generally been inferior to dedicated units performing the same functions. It has also been a problem for direct control of receivers by computer. Great strides have been made in solving this problem and in the near future it will be completely eliminated as a factor in the computer-radio connection.

The final area I want to deal with is Desk Top Publishing (DTP). Since the earliest days of the computer radio connection, programs have been developed to rapidly sort listener logs. This, of course, was a real benefit to the editors. Now, Desk Top Publishing is going way beyond this. Whole club bulletins are being published on computers. It is MUCH faster, much

cheaper, and produces higher quality bulletins, particularly in regards to illustrations and graphics. In the future, it is hard to imagine that any radio bulletin won't be published on computers. (Ed note: In looking at last month's FRENEX, you can see 5 columns done in DTP, as well as DX'tral)

The growth of the radio computer connection is much like the growth of a child. It is an evolutionary process in which the end product slowly grows and matures. With the case of radios and computers, the growth has been rapid rather than slow, but the process has still been evolutionary with the result being a steady increase in the level of maturity and sophistication. I do not look for any dramatic revolutionary changes in the nature of the beast in coming years; rather a steady refinement of that which already exists. However, the crucial thing to remember is that ten years ago, almost none of us even imagined any connection between computers and radio...Look at us now!

General Stuff:

Nothing much happening here at the homestead, been busy doing some dBase programming, and getting ready for the SWL Conference. I trust everyone has send their regards to John Henault, as he is still in the hospital with the injuries suffered in the line of duty. Hopefully, he will be fully recovered soon, and be able to join us again.

About it for this month, take care and hope to hear from you soon!

731

Tom

=====

DR. DX TAKES UP GARDENING

=====

Dr. DX is sure excited about his new summer hobby. Mrs. Dr. DX told Dr. DX to get off his donkey (Mrs. Dr. DX must think that Dr. DX has a bunch of livestock--she all the time tells him to get his ass in gear or that some turkey wants to see him or mumbles something about some part of a horse) and do something outside where the temperature is about a million degrees and the humidity is too. This did not seem too neat to Dr. DX until he talked to his ham friend . Dr. DX's ham friend told Dr. DX that what he needed to improve his shortwave was an antenna farm. Now Dr. DX saw this as a jim-dandy way to improve radioing as well as getting outside like Mrs. Dr. DX was telling him to do with fire in her eyes. Mrs. Dr. DX was real happy to see Dr. DX outside working on his antenna farm where it was a million degrees and the humidity was too. Mrs. Dr. DX watched him from the air conditioned house so she could answer the phone in case any of Dr. DX's shortwave buddies called. Dr. DX thinks that sure was thoughtful of Mrs. Dr. DX. Dr. DX first tilled up all his ground that faced toward the Pacific. Then Dr. DX carefully planted three wire nuts in each of the hills he made. Since this time Dr. DX needed to grow dipole antennas on his antenna farm, he put two poles in each hill next to the wire nuts. Dr. DX then watered each hill with radio fertilizer (RF). Nothing much has happened on the Dr. DX antenna farm so far because Dr. DX thinks it is so dry and the temperature is a million degrees and the humidity is too. Dr. DX does not know how they get antennas to grow on dry sand in hot and dry places like Dubai. But Dr. DX now thinks he knows why the HCJB antennas are so big, growing in the mountains where it is wet all the time. If Dr. DX's antenna farm does not get some rain pretty soon, Dr. DX is afraid his antennas will all be small and only work on itty-bitty frequencies. Dr. DX thinks he might have to water with radio tuning oil to help things grow, but Dr. DX only has one six-pack left and wants to save that. Dr. DX is real excited though about growing different kinds of antennas on his antenna farm and then doing some cross breeding. Dr. DX would like to breed a half-wave antenna with a center-fed antenna and get a half-fed for African DXing. Dr. DX also hopes that his new hobby will help him fix his car radio. Whenever Dr. DX goes through the big underwater tunnel near his house, his radio stops working, but it seems to work fine if he is playing a tape in the radio. Dr. DX hopes he can grow an antenna on his antenna farm that will solve that. Mrs. Dr. DX is making livestock noises again, so Dr. DX has to go. Dr. DX will work on all these problems and let you know how the Dr. DX antenna farm is doing another time.

CLANDESTINE RADIO BROADCASTING

- Book Review by John H. Demmitt

One of the most difficult subjects to write about is clandestine radio broadcasting because by their very nature, these stations are illegal and the penalty is often death. Stations operating in neighboring friendly countries risk severe prison sentences for operating unlicensed radio transmitters. To avoid detection, the stations will often put out disinformation to confuse the authorities. Many of the stations operating, enjoy the protection of intelligence agencies of various governments thus finding anything out about the stations is often fruitless.

Finally a comprehensive book has been published providing interesting factual data with information often taken from the files of the CIA, FBI, FCC, IFRB, etc. The FBIS, wire services and hobby publications are freely used to fill in the gaps to provide an exciting, thrilling adventure that is complete and smooth flowing. Notes and references are logged at the back of the book to provide readers with additional research. Until now, there has never been a more complete reference when it comes to clandestine radio broadcasting.

Clandestine Radio Broadcasting - A Study of Revolutionary and Counterrevolutionary Electronic Communication by Lawrence C. Soley and John S. Nichols (ISBN: 0-275-92259-6) is a 398 page hard cover book that is packed with information covering pirates, military & political covert transmissions and involvement by the governments and some well known people including private companies that often assisted intelligence groups with a cover.

Names such as Ellis Rubin, the attorney who represented Alpha 66 & later the Cuban contingent in the Watergate affair, E. Howard Hunt, former CIA propagandist & Watergate conspirator, Jorge Mas, former Radio Swan broadcaster and later head of the presidential advisory board for Radio Marti, John Foster Dulles, Secretary of State under Eisenhower... and many others are keys in unlocking the many mysteries involved with clandestine radio broadcasting.

The book is a must for anyone interested in clandestine, pirate, military, political or intelligence activity. It is available from Praeger Publishers, 83 Post Road West, Box 5007, Westport, CT 06881 for the sum of \$47.95.



Listeners Notebook

GLENN HAUSER, Box 1684, Enid, OK 73702

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AFGHANISTAN Monitoring 31-7 to 3/8: On 31/7, relay of R Afgh DS in Pashto & Dari obs on 4760 //regular fqs incl 4740 3965 1107, from 1900 until 1930*. On 1/8 xmtr on 4760 hrd w/R Afgh svcs in minority langs as well as bcs for neighbouring countries 09-17 //6085, and relay of R Afgh main DS 17-1930. 4760 seems ex-4450 which was not traced either day and probly used 0130-1930 (WBI 5/8)

A U S T R A L I A RA Communicator reported 14/8: 9/8, Comms Minister revealed plans to expand FM svcs, establish separate ABC parliamentary net, and dramatically boost svc offered by R for the Print Handicapped. FM fqs -- Melbourne to have two -- will be auxioned and proceeds used to fund parl & hcap bcs. Vacated in-band AM fqs would be turned over to RPH, presently above 1600 (WWBI 19/8)

A U S T R I A Monitoring 24-26/7: R Austria Intl obs since 24/7 on 13730 // other fqs 07-20 (WBI 29/7)

BRAZIL RN Amazonia reported 19/8: Radiobras has sold R Nacional FM of Manaus to the owners of the private Amazonas radio stn for 107 megacruzados. RNA reported 20/7: RB sold natl TV stn of Porto Velho, R Nacional FM PV to Brasil Norte TV net, based in Manaus. TV stn sold for 95 MC, radio for 55 MC. RNA reported 21/7: Radiobras has sold FM R Nacional of Boa Vista for 31.581 MC. RNB reported 22/7: today RB sold Macapá FM radio stn in Amapá terr for equivalent of 10,440 Natl Treasury Bonds to R Tropical (WBI 29/7)

RNB reportd 2/8: BOD of RBras has been installed; 19 radio and TV stns already privatised, planning to sell 20 pieces of unused property. RB BOD is 3 persons functioning like the nine of former Braz radio beingco, and nx agcy EBN: Antonio Martins, Pres; Geraldo Magela, Tech & Financial Dir; Ana Maria Carneiro de Matos, Pgms & Journalism Dir (WBI 12/8)

BULGARIA The 24h Khorizont pgm from Sofia in BG DS is on 11765 at 0830-19, 7670 at 04-22. During summer time all pgms will be hrd one hour earlier than shown (WBI 5/8) By "pgms" do you mean the sked of nx, etc, which follows, or do you also mean the transmission times for the SW simulcast??? (gh) Besides the usual EEU FM band of 66-73 MHz, Khorizont is also on some fqs 100-104 MHz (ibid)

CANADA RCI reported 4/8: Canada will spend a megabuck during next year to set up a strategy to counter S Africa's censorship and propaganda inside the country & abroad. Anmt made in Toronto by Canada's Extl Affs Min Joe Clark at end of 2-day meet of 8-nation Commonwealth Committee on S Africa. Canadian Action Plan will aid legal advisory fund for SAF journalists; also money to Can Embassy in Prætoría for more pubaffs pgms to reach SAFs w/intl nx, info. Canada will also contribute toward Cw journalism award. Other suggestions incl mailing intl nx-papers into SAF, setting up more SW radio pgming to reach SAFs w/uncensored nx, and developing new sources of nx w/in country...

RA Communicator reported 7/8: One of discussions topics tabled by Cans is proposal for SW svc targeted on SAF. Not new idea; UN tabled [considered] in past. But given increasing pressure on SAF to dismantle apartheid, this time it just may happen. Toronto correspondent for The Age, Melbourne, Peter Benish explains what R Free Africa proposal entails: à la post-WWII RFE set up by Ams, beam hi-power radio sigs into southern Af and provide black plus white people w/what Canada hopes will be uncensored nx. Pgmng whence? Logically Canadian and Australian bcers, and Brit too if they want to participate. Can govt working on it secretly for some time; nothing known about it until 4 days ago. So I think the proposal for a R Free S Africa will in fact be approved. There's vy little doubt it would be approved; question is, with what fervour degree (WBI 12/8)

CHINA Dallas-based Satellite Music Network reached agmt w/R Shanghai to air US pop mx to 35 megaChinese. From 5/9, SM will supply R Shanghai w/4 mx formats --Pure Gold, Rock 'N Hits, Country Coast-to-Coast, Star-Station. Half the pgmng will be done in Dallas; mx same product sold to AM & FM stns across Am. Initially, daily in local noon hour on one FM stereo fq 103.7. SM hopes to sell US advertisers time, esply those already in China, e.g. Coke, Jeep. Pgmng wil altrnate by days: Mon adult contemp, Tue C&W etc (Joe Simmacher, Dallas Morning News 5/8 via Alan Laves)

Shanghai PBS reported 28/7: Proposal for radio-TV tower, one of major urban landmarx in Shanghai, to be built at Lujiazui in Pudong, W side of Pudong park. 450m hi, that is 240m higher than the TV tower on Qinghai Road, will be highest in Asia, covering area of 27,000 m². Currently there are 4 TV channels, 3 FM stns in Shanghai. Plan for 9 TV, 10 FM. Investment on project totals US\$50 mega, including US\$40M invested by Canadian govt; rest raised by municipal company (WBI 12/8) Must be another self-supporting, concrete monolith, perhaps inspired by the CN Tower in Toronto. Lcads of US guyed TV towers much higher, in 600+ m range but they can't hold so many antennas; aside from that, wonder why in US the CN-style broadcasting tower is unknown (gh) more, LMI

COLUMBIA 4755.0 RF, Caracol Bogotá, hrd again in Tokyo after a dekayear absence. Used to hear AN pgms 0730-11 in fall 1978 when IDed as Emisoras Nuevo Mundo. Reactivity first hrd 9/7 0755-0958; w/micro-nx at 09, then habitual ag pgm Caracol en la Tierra, sked Mon-Sat 0905-11 w/cattle prices etc.

4865.1, LV del Cinaruco, Arauca, 2/7 09-0920 w/Sunday pgm El Vallenato, Sólo Vallenato, from Caracol for all the madrugadors (Takayuki Inoue Nozaki, Tokyo)

CORSICA France Inter, Paris reported 10/8: Studios of R Corse Intle in Bastia were invaded late this aftn by four activists claiming to belong to the outlawed FNLC [Corsican NLF]. Three masked men, woman tied up journalists, threatened them w/weapons. Then bc msg in Corsican calling on island people to take part in discussions betw state, nationalists. Almost identical to leaflets handed out 4/8 on Calvi-Bastia train (WBI 19/8)

CCSTA RICA R for Peace International revised sked effective 1/9: Mon-Fri 18-24 on 21555, 01-10 on 13660 Tue-Sat, w/repetitions of 3-hour pgm cycle mostly in EG, including WORLD OF RADIO Mon 18, Tue 23, Wed 03, 06, 09, 20, Fri 21, Sat 01, 04, 07, but times vary widely and electrical storms, etc., may disrupt xmsns. Also has new schools bc for CAm 14-17 on 7375. Later in year 7375 may be resumed at night (RFPI mailbag, which follows WOR on Fri/Sat/Mon, 19/8)

CHILE Hoy, Stgo reported 11-17 July: New AM radio stn, R Gigante at 910 Condeill St, Stgo, has begun bcng. Mario Kreuzberger and Javier Miranda own stn on 600 kHz. Gerardo Ayala, press officer, says stn has no linx w/any political party or relig group (WBI 29/7)

ETHIOPIA Monitoring 24-25 /7: ES of VOE obs 24/7 w/test xmsn of mx, anmts in EG at 18-19 on 7315. 25/7 hrd at same time on 9660. Says tests for EEU 18-1830, WEu 1830-19 on 9660 Mon-Thu, 7315 Fri-Sun (WBI 29/7) Such scheduling seems to show basic ignorance of the SW medium (gh)

FRANCE 24 & 25/7, RFI in AR hrd 14-15 not 11-12; on 21490, 11845, and for Paris on 738 (WBI 29/7) See also CORSICA above

GERMANY EAST V of the GDR, Berlin, all pgms one hour earlier than shown during DST. 6115 at 23-0530. All other DS on AM & FM only (WBI 12/8)

GREECE Monitoring 4/8: The 4/8 issue of Nicosia i Simerini reports that as a result of more liberal bc policy of Greek govt, GK-Cypriot stn has begun in

Athens on 96.2 MHz FM. Aim is to promote even further the relations between Greeks and Cypriots. Is non-partisan, wants voice of all Cyps living in Grc to become stronger and more positive (WBI 12/8)

Greek R 5th Pgm, V of Greece: 00-0150 Am 11645 9420 7430. 02-0350 Am 9420 9395 7430. 04-0450 ME 11595 9905 9425. 05-0615 Cyp/Turk/ME 9905 9425 7430. 0630-0730 Eu 9425 7430. 08-0850 Au 17565 15625. 09-0950 Azores 11645 9905. 10-1050 As 15630 11645. 11-1120 TK 11645 9905. 1130-1150 AR ME 11645 9905. 12-1250 Am 15630 11645 9905. 13-1350 Af same. 14-1450 ME 11645 9425=XTu. 14-1450 Tashkent 9905. 15-1550 Am 15630=XTu 11645 9425=XTu. 16-17 Bal-kans 9395 7430=XTu incl 1603 AB, 1615 SC, 1630 BG, 1645 RM. 1715 USSR 15630 11645=XTu. 18-1850 Af 15630=XTu 11645=XTu. 19-1950 Eu 9425 9395 7430 incl 1920 EG, 1930 FR, 1940 GM. 20-2050 Balkan 9425 9395 7430 incl 2003 AB, 2015 SC, 2025 BG, 2035 RM. 21-2150 Au 9425 9395 7430. 22-2250 Au 9425. 22-2350 Am 11645 9395 incl 2305 PT, 2320 SP, 2335 EG. 23-2350 Panama 11595 incl 2340 SP. All in GK uos above, plus these addl lang nx: 0130 daily EG, 0340 daily EG, 0600 TK, 0840 exc Sun EG. 1040 exc Sun EG. 1235 daily EG. 1445 AR. 1435 RS. 1540 exc Sun EG. 1730-1745 RS. 1840 EG. (WBI 5/8) xTu = except Tuesday

HAITI R Nationale reported 11/8: PVS, which is (Polycarp) Video Studio, a film company, is planning to expand its sphere of activities and set up a TV stn here, called PVS Antenne 16. Will be on air 21 hpd, seven of which will be local pgms. All day and all night on Sats. Mainly cultural pgms, rest educational and recreational (WBI 19/8) Ergo on UHF channel A16?? HONG KONG

HUNGARY Hungarian R "Kossuth" 1st pgm is on 6025 at 05-21 (WBI 29/7) IMI

INDIA AIR reported 20/7: AIR net will become largest domestic bcng svc in world w/completion of 7th plan schemes. Will have 200+ stns, 300+ xmtrs covering 97% of population, 91% of area, says Minister for Info & BCing, Mr H K L Bhagat. Said 19 new FM stns ready by next March; installation of 56 new local stns will commence during 1989-90, most completed by March 1990. Said AIR getting more autonomy, enjoys credibility, not partisan, opposition parties getting due coverage in nx (WBI 29/7)

First phase of AIR's ambitious expansion pgm already off ground, after 10 yrs of struggle, fighting to sidetrack Doordarshan [AIR TV] which is always on the priority list. A whopping Rs. 10.74 crore sunk in to commission a 1000 kW MW xmt-r at Nagpur which will directly broadcast to 215 districts. Natl channel is now 7h at 13-20 UTC on 1566 kHz. Lion share Hindi w/fairly good EG mx 1745-1830. A R Shinde, Dir Gen boasts no country in world has a channel of this magnitude reaching out to entire populace in every nook, corner. Quantitywise--interesting; qualitywise--disgusting! Second phase is more complex. By 1990 AIR plans to commission 73 FM xmtrs for local ch and another 130 FM by 1992 all linked to natl ch. DirGen is over-optimistic that this scheme will give more time to regional pgm. As of now, pgms in local dialects have to be sandwiched between natl nxcasts. Today AIR has 7000 pgm hours in 18 main langs and 126 dialects. This expansion scheme will be another AIR capfeather. Media critic Anita Malik is right. Said she: It is a good sign that govt is thinking of radio instead of the idiot box! Nevertheless, expansion will ensure only AIR's infra-structural needs. What about the msg? Rajiv Gandhi certainly cannot be the msg, said an expert in Third World Media. Even former dir of Indian Institute of Mass Comms, N L Chowla, opines natl ch will serve purpose only [if] given autonomy. But it is learnt that a move is on to gear the 'Rajiv Darshan' to xmit pgms 18 hpd and make AIR bc pgms 24h. Said a senior Doordarshan producer "both AIR and DDS are going to be working in tandem practically all the time to provide a facelift to the ruling party for the elections." Another R Moscow in the making--any takers? Every damn thing is politicised in this country--and AIR is no exception. Result: popular 6-yr-old pgm in Hindi on AIR Bhopal is going to be axed because of past diffs between present MP Chief Ministr and Min for Info & BCing. An eminent jurist used to quote this story for our poor economic state: Once all other countries in the world approached the Almighty and complained that they got a less share of resources than India. Replied the Almighty: Do not worry--to compensate for that I have given India government. Yes, we have ambitious plans for expansion, an astronomical Rs. 700 crore allocation in VII plan--but remember, we also have the STINKING Indian govt!

Tailpiece; Shri M L Gaur, a senior ancr in Vividh Mharathi of AIR Bombay committed suicide 'cause he was transferred to Jagdalpur while Vadirel Ravanam, a newreader of AIR Tiruchirpalli was arrested in connexion w/bombblast at Kodaikanal TV Centre; Ravanam said to be associatd w/Tamil Libn Army, extremist org founded by Tamilvasan who was stoned to death when he attempted to rob a bank! (K Ravi Prasad, VU2RVU, Bombay, based on May press reports, in IDXCI Asian DX Review)

Aligarh Relay of All India Radio Overseas Services



situated in the outskirts of Aligarh, about 150 kms South East of New Delhi is the "High Power Transmitting Station" of AIR Overseas Services. It was built in 1971 on 823 acres of land and initially had two 250 kW Brown Boveri transmitters. Subsequently two more 250 kW transmitters were added in 1984 and today it is the most important AIR SW relay. Construction at this site was taken up in an effort to decentralise overseas transmissions from New Delhi so as to minimise programme disruption due to erratic power supply and atmospheric disturbance. Today even though there are 11 transmitters at New Delhi, all of them are of 100 kW or 50 kW only. This gives Aligarh the distinction of "High Power Transmitting Station".

The Aligarh site was selected because it was close to New Delhi, land was available, and electricity was ensured from adjacent Haridwar Thermal Power Station of Uttar Pradesh State Electricity Board. Construction of the station was done by Civil Engineering Dept. of All India Radio.

Transmitter Building

As one approaches the station, the imposing antenna masts appear in view. The transmitter building appears as match box in the horizon as one drives from the entrance to the station. The compound has few other buildings scattered to house the security guards, antenna feeding systems, warehouses and the electricity substation. Security is visibly active in the

complex with a picket at the entrance to the station as well as an armed guard at the door of the transmitter building. In front of the building is a TVRO dish antenna which receives programmes from Akashvani Bhawan studios at New Delhi, via INSAT 1B. One channel in this satellite is used by AIR which is mainly used to feed AIR programmes to the remote AIR stations such as in the North East or in the Andaman Islands. During spare time this channel is used by this station. The other link is via microwave link to Agra, by coaxial cable to Aligarh city and then by telephone cable.

ALL INDIA RADIO
EXTERNAL SERVICES DIVISION
Post Box 900 NEW DELHI INDIA



Dear Sir/Madam,

We gratefully acknowledge your Reception Report and confirm your listening to our service. On 7-3-75

at 11810 KHZ

on 1415 - 1445 GMT

Yours faithfully

[Signature]
Assistant Research Officer
for Director External Services

To
TRIPATI RANJAN BARI
RAHARA - 743106
74 - PURGANA
W. BENGAL

On entering the transmitter building visitors are greeted by an azimuthal map showing the antenna beams. The building has two wings housing two transmitters on each side. Situated opposite to the entrance and between the two wings is the antenna hall which feeds transmitter output to any 4 of the 39 antennas and antenna feeders go out of this hall in various directions. The offices occupy the front row of the two wings. There are 40 technical personnel working here of whom there are 25 engineers. Each wing has an air conditioning unit and there is a small workshop too. There are no announcers of programming staff but there is a small studio which can be used by artists and announcers brought from New Delhi in case there is a major breakdown in studio link.

Indigenous antenna

The four main antenna beams are 80° , 65° , 102° , and 132° . All the antennas are dipole arrays giving a gain of around 23 dB. The beam of the antennas are reversed by changing the connection of the driven element and the reflectors. At present this is being done manually but a remote controlled unit is being tried out by the engineers. Along each antenna beam direction there are several antennas for different meter bands, bringing the total number to 39. Station engineer Mr. Bajaj was very enthusiastic in pointing out that the design and erection of the antenna were done by AIR engineers. A significant modification has been in using Aluminium instead of Copper for the antenna and feeders. There is about 24 kms of feeder wire alone, with which Copper has the problem of pilferage. Each limb of the feeder consist of two parallel Aluminium conductors in order to match the electrical & RF properties of Copper. All the insulators are of stellite and this too is indigenously manufactured. For its manufacture furnaces with high temperature but accurate control are required. This is available only at Bangalore. A successful trial of a multiband antenna which can function in two adjacent band has been carried out here.

Inside the transmitter

The right hand wing of the building houses the older transmitters marked A-I and A-II. They are of 1965 design and were commissioned in 1971, hence outdated by present standards. Inside the transmitter hall the instrument panels line one side and in the spacious hall the operators sit in two tables in the middle. Two large drawing room type speakers act as monitors. While I was taken round the transmitters, it was Maintenance time and I saw panels being opened. My guide was Mr. Kumar, an engineer who been in the centre for 17 years since its inception and who was to proceed in 7 days time to AIR Rampur as Station Engineer. I was explained in detail each section and Mr. Kumar appeared very satisfied with the BBC transmitters. To enter the compartment housing with the main power valve there are elaborate safety precautions: one has to switch off the power with a key, and open the door with it, while another switch goes off on opening the door and finally the tube is grounded. I promptly touched the tube like the pilgrim taking the holy touch! The newer transmitters marked A-III & A-IV which are housed in the left hand wing have a lot more solid state component, being of 1980 design are thus half the size of the former. The engineers are continually trying to indigenise the spare parts such as the cooler tube of the power valves are made by Borosil and a Calcutta firm fits the metal collar. This costs Rs. 400/- in place of Rs. 4000/- for the original. The transmitters are off for maintenance from 0500-0800 UTC and during this time the transmitters are occasionally tested with pure tone audio. "Trapezoidal" pattern modulation is used and during the speech portion of the broadcast e.g. during news, more or audio power is put in which introduces 3 - 4 per cent distortion. According to Mr. Kumar the human ear can not detect distortion less than 7 per cent but I felt that this could account for the "rough" audio tone of AIR broadcasts during news.

In the dark

Monitoring of external service broadcasts in foreign countries is done from the Indian Embassies by its radio operators. There is a monitoring station at New Delhi, which comments on the transmission quality of this from time to time, much to the displeasure of the officials here who justifiably argue that most of what you can receive at Delhi is the back lobe radiation only. The engineers are also frustrated over the fact that they do not have any access to the reception reports sent to Delhi by listeners, as well as from the Embassies. However, official moves are underway to change this practice.

Break in transmission

While I was visiting the station, it was in the grip of a power crisis. One of the transformers of UPSEB had burnt out and the station was being supplied at 28 KVA instead of required 33 KVA. As a result some of the transmitters could not run and those which did were running at 150 kW instead of 250 kW. The airconditioning unit could not be run and with the summer heat soaring to 44° + there were frequent tripping of transmitter the moment the slightest sparking took place. Didn't they have a stand by generator? Their power requirement is 3 mVA and for that a "Power House" will be required and with this power one could light up a whole city. Incidentally, AIR is the largest consumer of electricity in whole of Aligarh district and their monthly power bill runs up to Rs. 7 lacs. It was to avoid this type of situation that the AIR relays were being decentralised. Same morning Swahili to East Africa could not be aired from here and only a 100 kW transmitter from Delhi was carrying it. For transmitter shutdown with prior information, alternative frequencies from other sites are activated but for unexpected breaks of this type, one frequency has to be sacrificed. The engineers were busy writing message to inform Delhi about their predicament. They were to go by telegram because the phone lines were dead too. Why doesn't the station have its own radio link with New Delhi for emergencies of this type? "The Post & Telegraph department is responsible for that" was the reply. This is bureaucracy - the most important of all the AIR relays, depending on unreliable phone lines for talking to New Delhi. But I realise that the Government did view this type of power crisis seriously because one week later in Press conference the Secretary of Information and Broadcasting was asking respective State Governments to ensure power supply to AIR and Doordarshan installations.

For the short breaks in studio links, the station has music "fillers". Besides, it has sets of prerecorded programmes in each language covering each segments. In

case of major breaks in studio link these alternative programmes are aired. In case you hear two different AIR programmes on two different frequencies, you can be assured that the studio link has given away for one of the transmitters.

Weather plays its own part in disrupting programmes by playing havoc with the antennas. A dust storm ("Aandhi") a week ago had wrecked the weight supports and next day transmitters had to be aired via makeshift antennas. Even at such large dimensions, the antenna measurements are critical and the slightest sagging will trip the antenna.

Wild life

Transmitters antennas, guards & that quite doesn't account for all the occupants of the complex. Herds of Nilgais (short horned Indian antelopes) roam fearlessly amongst the stubby bushes dotting the antenna fields. It's a peaceful coexistence except when a male charges at the antenna technician or the unfortunate one runs into the live antenna feeder and trips the transmitter. For the listeners at the other end it is just another "BREAK IN TRANSMISSION". Little is he aware of the charging Nilgai, transformer burmouts or dust storms thousands of kilometers away.

- Supratik Sanatani/ 18th May 1988

P.S. I would like to specially thank Mr. Y. Bajaj, Station Engineer, and Mr. Kumar, Engineer for their enthusiastic 5 hour demonstration and Mr. U. C. Ghosh, Agriculture Officer, Canara Bank for arranging the visit.

Revised timings of AIR National Channel 1566 MW, 100 kW: 1325-2100; change because evening reception was poor in far flung areas (Supratik Sanatani, ADXR 100) AIR will become 24h business within 3 months per Mr S Krishnakumar, Minister of State for Info & BCing (ibid.)

Info & BCing Min Mr H K L Bhagat said in Lok Sabha that a 50 kW SW xmttr would be installed at Trivandrum to provide quality svc to entire Kerala state. Said 99% of popl, 98% of area in state would then be covered. (Hindu 6/4 via B Srinivasa Rao, ADXR 100). Xmttr power of Vijayawada will incr from 20 to 100 kW, and SW xmttr of Hyderabad will incr from 10 to 50 kW. By end of Seventh plan there will be 205 AIR stns in India, covering 91.1% of area, 97.5% of popl (Eenadu 10/4 via Rao, ADXR)

INDONESIA RRI Jakarta, Programa Nasional now on 11865, fq which QRT'd abt 2 yr ago. Sked is *0958-1710*, //9680, 11770, first noted mid-Apr. RRI Biak now gone from 5500 since mid-Apr; also not hrd on 5451, 5982 or 7211 (Hiroyuki Ishii, Tokyo, Japan, July Indonsian DX Review)

RRI Serui, 4607, partial data prsonal ltr in 67 days. Did not return my ppd cd. V/s Agus Raunsai, Kepala Seksi Siaran who said my rpt was "ternyata benar". Finally got this on 4th try! Addr: Jalan Patimura, Serui 98201. Says 500W on 65.14m (=4605) and is a Regional II stn (Steven Reinstein, FL, July IDXR)

RRI Malang, Java, 3380, ltr and PPC in 49d airmail for SASE. Addr as Jalan Cerme 16, Malang. v/s Slamet Soeratno, Kepala Seksi Teknik. 1 kW on 3380. RRI Purwokerto, Jawa Tengah, 2470: PPC in 55d for airmail, SASE. Lists power as 1 kW from Gates xmttr into a T ant on 2370, 02-05, 08-19, 17-22 UTC. Addr is Jln Jenderal Soedirman 427, Purwokerto. V/s illegible; 40th Indo QSLed. RRI Semarang, 3935, ppc in 16d airmail for SASE. Listed fqs 3935, 2450, 1770(!). V/s Mardamom, Kepala Teknik, addr as Jln A Jani 144-146 (or P O Box 74) Semarang. RRI Cirebon, Java, 2390, ltr and PPC in 45d air for SASE. v/s Mohamad Alibasyah, Kepala Seksi Siaran. 2390 is 1 kW TCA xmttr into 30m halfwave Delta match. RRI Samarinda, 6135, ltr in 34d air for SASE. Gates 1 kW xmttr into Delta match. v/s Drs Supo Sunardi. Indo #52 QSLed, RRI #42 (Gordon M Darling, PNG, July IDXR)

INTERNATIONAL VACUUM RNMN reported 4/8: R Moscow has decided to hire regular airtime for few hours a day from a Calif comms co, as from this autumn. During Wash summit, RM offered some of its EG pgming to any stn in US capable of taking sig off Satcom-1. Tho audio quality not much better than phone line, some stns did use extracts in nx. RM pleased w/results. Cost for satl from Moscow to US system works out at \$625/hr, certainly less than running several SW xmttr in parallel. RM intends to adapt some of pgms currently bc on SW for the spl satl xmsn in NAM (WBI 12/8) Why adapt? Aren't SW pgms for the same US radio listening audience? (gh)

INTERNATIONAL WATERS/ISRAEL 1/8 ed of Jerusalem Post reported that Meir Indor of ultra-orthodox Gush Emunim group is having difficulty raising money needed

to implement his plan, and 7 weeks ago, to establish a radio stn aboard a ship anchored off Isr coast. Indor negotiating for purchase of ship from which Abie Nathan runs his V of Peace stn, and ads soliciting donations for stn call on contributors to 'help fight the leftists' radio stn'. Because of the financial problems, the stn when it eventually gets afloat, would rely solely on volunteers. Indor refused to commit himself to precise deadline for first bc, tho he has pledged to be on air before Knesset elections 1/11 (WBI 5/8)

JAPAN I went to Yamata xmtg stn in May, and 1/8 w/my DX friend Toru Yamashita. It radiates RJapan but isn't NHK facility; belong to KDD = Kokusai Denshin Denwa kabushikigaisha (Intl Telegram & Telephone Co Ltd) like your country's ATT. On 1/8 we visited stn and looked at xmtrs, control table. Supt explained system & answered our questions. At 0925:00 tuned to RFI pgm fq in front of the radiating antenna. We are convinced this is the first catch of RFI via Japan. Even tho others were tuned to this fq at same time, we received the pgm 0.000000X sec earlier, hi (Tetsuya Kondo, Yokohama, 16/8) more, LMI

JORDAN Monitoring 19/7 to 9/8: R Jordan DS not obs to carry weekly pgm for Palestinian listeners "Occupied Homeland: news & views" since 19/7. Wx rpts for occupied W Bank area, previously carried at end of regular nx bulls on Jord R & TV also uncarried since 28/7 (WBI 12/8)

LEBANON AFP reported 9/8 from Sidon: 6 people injured, 2 others missing today in Israeli air raid on a PLO radio stn in S Leb, hospital offls & Pal sources said. Missing were two techs of V of Palestine, bcing to Isr-occupied terrs. 6 injured also incl 2 radio techs. Raid lasting 2h silenced stn, located in a street site betw the Ayn al-Hulwah and Miyah wa Miyah Pal refugee camps E of this port city, police said. But a Pal source told AFP: stn is intact; we only need to replace two ants which were destroyed in raid and 'll resume bcs (WBI 12/8)

LIBERIA ELWA reported 1/8: Govt says it has closed down and imposed \$10K fine on TV transceiver [sic] stn of Firestone Plantations Co for gross violation of regs. P&T Ministry says the Firestone granted approval for 5W stn in May 1987, company instead imported and installed and opd 50 watt stn, in flagrant disregard of regs; Firestone also did not submit eqp to inspexion. An example to all companies (WBI 5/8) Well, EXCUUSE THEM! (gh)

MEXICO El Nacional reported 19/7: Mex has increased fq spectrum for radio bcing by extending its AM band by adding 87 new bcing channels [sic--either they are spaced only 1.15 kHz apart, or they really mean 87 new stns, not fqs]. DirGen of SCT says axion results form full exercise of natl sovereignty. Results from plans made at ITU RARC recently in Rio de Janeiro, Brasil, presided over by Mex. Once the 1605-1705 kHz AM band goes into effect, will be able to further broaden natl radio bcing infrastructure. W/in next 2 yrs, new radio stns will be installed and operating in towns currently lacking svc, esply border areas. (WBI 29/7) Or does 87 total include further inroads into once clear channels? There's a new outlet on 770 at nite, La Regionmontana, obviously in Monterrey NL which already has plenty stns; dominating here in the hole between WABC and KKOB (gh)

MOROCCO RNMN reported 4/8: Dr Robert Frese, Dir of Eng at VOA and yesterday: US GAO decided to confirm largest bcing xmtg contract ever, going to Marconi, after a challenge from Continental. \$57 million to be spent on ten 500 kW SW xmtrs for VOA Morocco, ready by 1992. Contract includes more 500 kW for Thailand by 1996; further VOA relay projex in SL & Botswana on hold until finances sorted out (WBI 12/8) Morocco not that wet, but site is a lake which must be drained

NETHERLANDS RNMN reported 12/8: Trying to get at pirate stns by prosecuting advertisers on them, 5 kiloguilder fine (WBI 19/8)

NETHERLANDS ANTILLES TWR Bonaire: 00-0030 PT, 0030-0045 SP on 15255. 0045-0215 SP 15385. 01-0155 SP 6180. 03-04 EG 9535. 04-0530 Sun/Mon EG 9535. 0430-0530 Mon-Sat SP 9535 [sic, there would be a conflict on Mondays]. 0655-0930 Mon PT 6145, 0725-0930 Tue-Sun PT 6145. 0925-10 daily PT 9535. 0930-11 SP 9665. 10-1030 GM 9535. 1115-1255(Sun 1330, Sat 1405) 15345 11815 EG Am. 2255-24 PT 15385, 00-0030 PT 15385 15355. 2330-24 GM 15355. On 800 kHz also EG 0215-03, and // SW at all above times exc 01-0155, 0925-1030, 2330-24. But addl bcs may be carried on 800 at certain times (WBI 29/7)

NICARAGUA V of Nicaragua ES on 6100: 23-02 SP, 02-03 EG, 03-05 SP, 05-06 EG all exc Sun+UTC Mon. Nicaragua Today at 0201-0215, 0245-0259 & 3 h later. Also ancns 6015 but not hrd recently there (WBI 5/8)

NIGERIA R Nigeria reported 13/8: The BCing Organisations of Nigeria, BON has been resuscitated. Decision in Abuja at meet of chief execs of fedl & state-owned radio & TV establishments. C'qué at end of meet said chmship of body will be rotated on 2-yearly basis betw Nig TV Authority = NTA, and FRCN (WBI 19/8) But, ¿what is the significance of this? (gh)

PAPUA NEW GUINEA RA Communicator reported 31/7 from Gordon Darling in Port Moresby: Kundu svc, prov net, named for native drums used for comms, on SW has new fq plan. NBC acquired 11 new Japanese xmtrs as a result of aid; 10 kW NECs. Attempt to achieve minimum 15 kHz channel separation, not enough space w/in 90 mb where most are currently. So old and new fqs respectively are: Kimbe 3235 2435. Kundiawa 3355 2490. Mount Hagen 3375 2450. Kieta 3325 3320. Rabaul 3385 3380. Lorengau 3315 2465. Stns going from 2 to 10 kW are Kimbe, Kundiawa, Mt Hagen, Vanimo, Lae, Medang [sic], Mendi, Port Moresby, Lorengau. Proposed change date 5/9, but may not be able to meet that date for all (WBI 5/8)

PERU 4821.5, R Atahualpa, Cajamarca, 09-0920 2/7, usual Raíces Folklóricas pgm w/msgs, IDs like: Atahualpa, la radio uno. Únicamente siempre con los éxitos. Atahualpa Radio, 1380 y 4820 kHz...la radio de doble frecuencias.

4990.8, R Ancash, Huaraz, *0928-0935 2/7. At s/on had new opening ment 1190 & 4990, "...inicia sus transmisiones correspondientes a hoy. Esperando que cada uno de sus programas sean de vuestro completo agrado..." [the same phrases are used virtually word for word by a great many SS stns -gh], claims to be strongest stn in N Peru, then pgm Cushi Cushum, sub-ID as LV de los Andes; into huaynos.

5015.7, Estación Tarapoto, after 2 f/ups, finally got reply from Sr Luis Humberto Hidalgo Sánchez, Gerente General. Says in new location, Martínez de Compagnón No. 442, 2do piso A, Tarapoto. When I visited them they were at Jr Alegría Arias de Morey 334. SW svc is still expl, not daily dual MW & FM.

9949.8, R del Pacífico, Lima, 1150-1230 F-G 19/7, hrd tnx to tip from Yoshinori Sano, on this strange fq. Morn pgms were: -1155 A Través de la Biblia, then 5 mins of crib commercials; 1200 Impacto, 1214 Cruzada. ID every 15 mins w/TC. Some DXers have reported this fq is harmonic of 4975. But Rdp previously had not xmtd morn pgm on 60m; offl sked is *11-23* on OAZ4L 9675, *23-0430* on OCX4H 4975. Not able to hear it on 9675 in July, only on 9949.8. May not have been on nom fq for several weeks (Takayuki Inoue Nozaki, Tokio, Relámpago DX) So they have only one SW xmtr, and obviously generate 9950 by doubling 4975 even if it is ex-9675 during this time period (gh)

PHILIPPINES On 2377 kHz, DZXO, Cabanatuan, 1501* in Filipino/BG. pops pgm, 1459 ID, s/off anmt, NA; says 21-15, 1 kW; 19/5. Closing anmt always had to copy due to low-tone voice of M ancr, SIO 332; harmonic ((Hiroshi Fujita, Osaka, IDXR)

FEBC reported 27/7: Commie rebels burned down xmtr of popularadio stn in Negros prov, raided militia outpost 27/7. Mily & radio rpts said Ramón de la Luna, mgr of DYHP in Bacolod, said about 20 youthful New People's Army guerrillas, incl 19 men [actually, he said incl one woman...] entered bldg housing xmtr, doused eqp w/gasoline, set on fire. In phone iv aired by parentstn in Manila DZXL, De Luna said incident happened 2 weeks after he & 3 other journalist from TV in Bacolod rcvd death threats from rebels. Stn security guard and tech, only people in xmtr bldg when raided, said rebels armed w/.45 calibre pistols, M-16 rifles, but did not fire. Told rebels their xmtr useless, so they went to burn it.

Mountain Prov BCing Co, Baguio City rptd 29/7: Mily yesterday ordered close watch on all rdio & TV stns nationwide following NPA attax on two stns in Bacolod City. Rpts reaching Camp Aguinaldo said around 7:30 the other night, some 20 NPA rebels simultaneously raided DYHP and DYEZ, burned xmtrs to ground. DYHB damage estimated at six megapesos, DYEZ unk (WBI 5/8)

R Veritas rptd 3/8 from Naga City: Natl Democratic Front, propaganda arm of Phil Commie Party. ancd their own radio stn soon bc in this area. Local nypaper says NDF pgm aired by R (¿Bicolod [not Bacolod?]) on 106.5 MHz FM, allegedly at 11-13 gmt, but no definite date set; apparently to be called "New Revolutionary Truth". (WBI 12/8)

R Veritas rptd 10/8: NDF-NPA yesterday issued statement claiming responsibility for burning 2 xmtrs in Bacolod City, acts of war, DYEZ & DYHB R Agong 27/7; DYHB was off air for about a week (WBI 19/8)

PORTUGAL RDP Antena-1 reported 3/8: 1988 will be crucial year for RDP, big year for tech renovation, new installations, e.g. increasing FM power in N near Spanish border, Azores, Madeira, nationwide net. Soon to install expl radio data system for drivers like elsewhere in Eu. Af also a concern: 250 kW SW xmtr ordered this month; by Jan finish ant net for Af, total cost 500 megapescudos (WBI)

Perú: Radio Universo, Pandalle: Cuando realizaba la tercera estancia en Lima, capital de la República del Perú, en 1987, informé un reporte de la sintonía de Radio Universo de Pandalle, a 2350-0100 g/f el 2/15. En ese día no pude localizar su QTH, porque esta emisora no mencionaba a que distrito ni provincia perteneció, únicamente pude copiar algunas identificaciones como: "Radio Universo OAXIK en los 6815KHz banda de 40 metros, presentó servicio comunicativo a nivel nacional e internacional. Este servicio es difundido los días miércoles y domingos en horario de 6 de la tarde y 7:30 de la noche. Hasta la próxima y muchas gracias." - "Transmite OAXIK Radio Universo en onda corta, banda internacional de 40 metros, en 6815KHz desde los estudios ubicados en el progresista caserío de Pangalle(?), Calle Leoncio Prado sin número, Cajamarca, Perú." Lamentablemente ATLAS "Básico-Universal y del Perú" (Ediciones Bruño) no indica una lista completa de los caseríos para todos los departamentos del Perú, por lo tanto no menciona el caserío que se llama "Pangalle" en el Departamento de Cajamarca. Pero cuando visité el Distrito de Nueva Cajamarca en la Provincia de Rioja, el día 21 de Febrero de 1987, hice una visita al estudio de Radio Nuevo Cajamarca (5800.5kHz), Sr. José Elar Hernández Rengán, locutor, me habló una circunstancia interesante sobre las emisoras cajamarquinas. Como él es de la Provincia de San Miguel, sabe bastante las emisoras de ahí, explicándome varias informaciones de radioemisoras. Y una de estas informaciones fué de Radio Universo. Dijo que su localidad de Radio Universo no fué ni Pacae, Pasaje, Pandachi ni Pangalle, sino Pandalle! Según su informe, Pandalle está situado en el Distrito de Pimpincos, el que pertenece a la Provincia de Cutervo, Departamento de Cajamarca. Gracias a esta nueva información, envié un reporte de sintonía a esta emisora de la localidad que se llama Pandalle. Y luego recibí dos respuestas de Sr. Gerardo Miguel Lozano Tantaleán, Director General de Radio Universo, con fecha: 25 de Julio de 1987 & 16 de Octubre de 1987. El me informó los siguientes datos radiales: Radio Universo se fundó en la localidad de Pandalle, el día 17 de Febrero de 1985, con la finalidad de contribuir al desarrollo, tanto económico como comunicativo de esta parte del Perú, porque Pandalle no cuenta con caminos carreteros, no tiene ni línea telefónica ni televisión, lo quiere decir que es una comunidad sin apoyo por parte de las instituciones del Estado. Sres. Jesús, Víctor, Américo y Miguel Lozano Tantaleán, los cuatro hermanos, tenían una inquietud por los medios de comunicación radial en la comunidad de Pandalle, en ese entonces ellos iniciaban por manipular las piezas de los radios. Es así que en 1983 lograron construir una emisora completamente "local" (construida de un transmisor de la marca "NIVICO"). La emisora local se llamaba como "Radio Ideal Pandalle", porque fué el resultado de las ideas de los cuatro hermanos quienes la fundaron. Con esta primera radioemisora "Radio Ideal Pandalle" han divertido al público desde 1983 hasta 1985. En 1984 tuvieron contacto con el Ingeniero Electrónico Luis Fernando Aliaga Villar, residente en Lima. Gracias a sus consejos y a su apoyo ellos lograron obtener los equipos que en la actualidad funcionan. Para obtener tan valioso artefacto vendieron sus pertenencias, ya que se originó un costo de 15,000 Intis. Por fin Radio Universo nuevamente salió al aire en la frecuencia de los 6815KHz en onda corta, el día 17 de Febrero de 1985. Esta emisora cuenta con un sólo transmisor de la marca "HEATHKIT", modelo DX-100B, con 100W de potencia, el que es de fabricación de EE.UU. y que no figura el año de fabricación, cabe destacar que es muy antiguo. Tiene una antena de tipo dipolo de 1/2 onda de longitud y polarización horizontal (ancho es de 20.90m & altura es 12m). Y me dijo que este transmisor no se relacionó nada con Radio Nuevo Edén de Celendín (6814.6kHz), cuyo transmisor tiene solamente 15W de potencia. El horario de transmisión es: 5 de la tarde hasta las 10 de la noche en hora peruana, lo que corresponde a 2200-0300 UTC, solamente los días domingos. Las programaciones son las siguientes: 2200-2230 "Lozania Musical", 2230-2240 mensajes comerciales, 2240-2300 1ra parte del programa "Dedicatorias Musicales", 2300-2330 "Comunicados", 2330-2340 mensajes comerciales, 2340-2400 2da parte del programa "Dedicatorias Musicales", 0000-0030 "Comunicados", 0030-0100 3ra parte del programa "Dedicatorias Musicales", 0100-0110 mensajes comerciales y finalmente 0110-0300 4ta parte de "Dedicatorias Musicales". La tarifa comercial es: un comunicado 5 Intis; una grabación musical 5 Intis; un mensaje comercial cada vez cuesta 5 Intis (Octubre/1987). El programa "Lozania Musical" tiene como finalidad de difundir la música tropical del Perú (que se llama "Chicha" ed). Se puso ese nombre por la coincidencia del apellido LOZANO, y porque significa: en las personas y animales es viveza y gallardía; en las plantas es frondosidad y belleza del verdor. El programa "Dedicatorias Musicales" tiene como finalidad de hacer homenajes a los jóvenes, señores, hermanos y familias que se encuentran cumpliendo años o recordando algún acontecimiento especial. El plan para el futuro es: instalar un nuevo transmisor de 300W de potencia, e implementarlo para ponerlo al servicio de los pueblos vecinos, contribuyendo de esa manera al desarrollo de esta zona. Por eso en nombre de hermanos Lozano, les solicitan a los radioescuchas exteriores, sus apoyos económicos para adquirir los nuevos equipos. Los reportes deben ser enviados a la siguiente dirección: Jr. 22 de Octubre No.1009, Cutervo, Departamento de Cajamarca, Perú.



ROMANIA R Bucharest in EG: 02-03 Am 11940 11830 9570 9510 6155 5990. 04-0430 same. 0645-0715 Au 21665 17805 17790 15335 15250 11940. 0530-06 Af 17790 17720 15380 15340 11940 11840. 12-1230 As 17720 15380. 13-14 Eu 15365 15270 11940 9690. 15-1530 As 17745 17720 15335 15250 11940 11775. 1730-18 Af 15340 15270 11940 11790. 1930-2030 Eu 11940 9690 9750 7145. 21-2130 Eu 11940 9750 9690 7145. Total output is 167.15 hpw, led by EG 45.30; SP 31.30; FR 17.30; RM 16.45; AR 14... (WBI 12/8)

SOUTH AFRICA R RSA ancd 9/8 1500: EEU listeners, at 1550 tomorrow, short bc in Russian on background, latest developments in 4-nation talks on Angola, SWA-Namibia. R RSA did carry short comtry in RS at 1546 10/8 w/in EG bc, 2nd such (WBI 19/8) See also CANADA

Capital R, Umtata, Transkei, comml svc is on 3927.4 at 0229-04, 1525-23; 7150 at 04-1525. Has nx on the hour 04 thru 16; also on half hour M-F 0430, 0530, 0630, 1530; also on 603 and VHF/FM (WBI 19/8)

SPAIN RNE Radio 1 reported 20/7: Council of Ministers approved royal decree on merger of RNE and R Cadena Española (RCE). Following merger of the two companies belonging to RTVE public body, joint co will become largest net in natl bc-ing, w/3500+ people working for public radio, and boosting of local autonomous FM stns will be fact. Resultantly, RNE will have capital stock of 1.875 gigapsetas (WBI 29/7)

RNE Radio 1 reported 6/8: From now on there will be ads on some of the channels of the new RNE. Today RNE & RCE begin a process for merging into a single net with RNE absorbing RCE. Also financed by general state budget subsidies, instead out of TVE advertising. The two RCE channels, now called R 4 on FM, R 5 on MW, have carried ads up to now. Merger effective w/in 6 mos. RNE incld SW svc for abroad; R 1 on MW nationwide; R 2 and 3 on FM for whole of Spain; R 4 on FM of local, regional nature; R 5 on MW, w/territorial opt-out.

RNE Radio 1 reported 4/8: Catalan TV testing on second channel w/out authorisation. Test card and stereo sound on UHF ch 47, autonomous Catalan TV3. Central govt not in agmt about doing this.

RNE reported 4/8: Controversy in Basque Country abt apparent illegal use of MW fq for R Euskadi. Basque Radio & TV started up MW w/out prior notification and necessary authorisation. Monitoring 2-9 Aug: since 2/8, R Euskadi, which IDs in Basque as Euskadi Irratia [exactly the same IDs used by the SW cland from outside Spain], obs on 1296 kHz; not in EBU fq plan. Sig strength in UK indicates xmtr of several kW. Sometimes // listed 2 kW at Vitoria on 1602 (WBI 12/8)

SUDAN R Cairo reported 9/8: Fraternal Sudan suffering tragic catastrophe represented by torrential rainfall that has demolished more than 10 kilohouses, left more than a megacitizen homeless. Floods totally paralysed all public utes in Sud capital. Total darkness reigns in Khartoum at night as result of elec supply failure. Omdurman radio stn has stopped bc-ing... Monitoring 31/7 to 9/8: R Omdurman main AR pgm, normally hrd only on 1296, not traced since 0430 2/8. National Unity R, which bcs from Omdurman on 9435 & 7100 at 13-15 unhrd since 6/8 and xmsns from Sudan nx agcy Suna untraced since 3/8. Cland stns R V of Ethiopian Unity, V or Oromo Libn, believed to op from facilities in Sudan, not hrd since 7/8 (WBI 12/8)

Suna ancd 10/8: apologies to all recipients for halt in xmsn since monthbegin due rains & floods in Khartoum, and'll resume normal xmsn as of today, God willing. Monitoring 10-16 Aug: The agcy seems resumed partial svc, R Omdurman & Natl Unity R, RVEU & Oromo clans remain untraced (WBI 19/8) Is the nx agcy on HF RTTY? BBCMS never gives such fqs tho has a separate nx agcy sexion (gh)

SWEDEN RNMN reported 28/7: at ANARCON, George Wood says R Sweden actively talking abt using NPR satellite for transcription svc stead mailing tapes to stns; cheaper but hard to determine actual usage. If we can get one pgm on one NPR stn in a medium-sized American city, more people are going to hear that pgm from Sweden than hear any of our SW pgms, maybe in a whole year. Also have phone system, every day telephoning 20+ stns in Lam at our expense w/Swedish govt forn aid grant. Give them one or two spots in Spanish which they may or may not use. Also thinking of doing this in EG; tested w/Zimbabwe, Botswana, now seeking funds for permanent twice a week svc to 4 or 5 Af stns.

SCDX reported 2/8: Community radio stn City 103, Gothenburg, opd by Sw Employers Fedn is now relaying VOA at night. But Olle Palmberg, head of Swedish C.R. Board, says such continuous relaying of forn stn agains regs; Board may decide to warn City 103, even withdraw bc permission. No one has questioned right of R Stockholm to relay BBC World nx twice daily for yearcouple (WBI 5/8)

THAILAND R Thailand ES all on 11905 9655 927 97.0; also relayed on 107 MHz & in part on 95.5 for local listeners, targets for all langs the same too: Eu/As /Au/Am/Dom: 23-0430 EG incl 23-2315 pgm pvw [for 15 minutes??], 2320-2330 nx headlines & News in Perspective, 00-0030 ditto; nx at 01-0120, 02-0215, 03-0315, 04-0415. 0430-05 FR w/nx 0435-0445. 05-06 EG w/nx 05-0515, nx & News in Perspective 0530-06. 06-08 Sat & Sun Music. 0915-10 Laotian w/nx 0920-0935. 10-1030 Std CH w/nx 10-1010. 1030-11 Thai w/nx 1035-1045. 11-1130 Viet w/nx 11-1115. 1130-1230 EG incl 1130-1135 pgm pvw, 1135-1145 nx, 1155-12 Business nx, 12-1230 nx & News in perspective. 1230-1310 Cambodian w/nx 1235-1255. 1310-14 Malay w/nx 1315-1325. 14-1430 JP w/nx 1405-1415. 1430-15 w/nx 1430-1440.

V of Free Asia on 1575 kHz also relays certain VOA bcs to S&SEAs; VOFA is controlled by the Thai For Ministry: Mon-Fri: 1030-11 Thai, 1230-13 Laotian, 13-1330 Cambodian, 1330-14 Vietnamese, 15-1530 EG.

R Thailand First Pgm, DS: 2230-07 7115 6070 4830, 07-10 7115 6070, 10-16 on 7115 6070 4830; also on 891 & FM. Nx generally on the hour of varying lengths; other pgms: 2230-2235 Pgm pvw. 00-0030 Nx--national relay. 01-0130 exc Sun nx & govt anmts. 0330-04 exc Sun Pgm for farmers. 0530-06 Nx natl relay. 06-0620 sports nx. 0658-07 pgm pvw. 10-1030 nx & govt anmts. 11-1115 For the Motherland natl relay. 1115-1145 talk on intl issues. 1145-12 Topics of the day. 12-1230 nx natl relay, 13-1330 ditto. 14-1420 Sat & Sun Review of week's nx. 1415-1430 sports. 1430-15 For the Motherland. 15-1545 Sun National Assembly nx. 1545-1550 nx review (WBI 29/7)

TURKEY Verie from Turkish State Meteorological stns says power on 6900 up from 2.5 to 5 kW (JADX via IDXCX ADXR 100)

Re previous reports that TRT DS has EG nx segments at certain times: this is on TRT Radio-3 net, FM only, not the TK hrd on SW. Nx in TK/EG/FR/GM sked at 07-0712, 10-1012, 15-1512=exc Sun, 17-1712, 20-2012. During summer time one hour earlier (WBI 5/8)

U S S R R Moscow Intl in FR ancd 31/7: at about 2120 18/8 we'll bc spl pgm in Basque w/mx & nx. First Euskera bc in history of intl SW radio bc. W/in RM SP svc on 15550 11630 11960 9480 9580 9710. RM SP to Eu 31/7 had iv w/(¿Gorka Palacios) and (¿Garaikoitz Etxabe) who are in SU studying RS and will be presenting pgms in Basq. RM bcs in 67 langs, but not easy to bc in some others; most important needs specialists in respective langs. Hope this is launching pad of mvmt which will last long time and future pgms will continue. Duration one hour; 2 pgms. Will be at 2130, not a regular pgm because the two will return to Euskadi.

BBCMS ed note: Despite RM claim on being of Basque, REE, the Spanish ES has bc in that lang on SW since 4/2/85. Too, R Euzkadi, the Basq cland, bc on SW until closure 30/4/77 (WBI 5/8) And in latespring, early summer 1947, BBC ES carried out expl bcs in regional langs of Spain, incl Basque (WBI 12/8)

Letter to editor of Izvestia, 22/6: I've listned to various radio stns for a long time. When jammed, I listened nevertheless. Like many others, I worked on the principle that if stn is jammed, must be saying something interesting. The time of glasnost' and democracy has come. Jamming of some stns halted. And many people have lost interest. Virtually everything is now discussed in the press. But some bcs still jammed. Really worth it? We are witnesses to how the limits of glasnost' are rapidly expanding. Shows trust in people's political maturity. Strengthens our self-respect and our patriotism. So is it really necessary to spend money on jamming radio stns, thereby perplexing people? Surely we can decide for ourselves what is truth and what is false (World Press Briefing in Insight, weekly nxmag of Moonie Washington Times, 25/7 via Paul Buer, Miami FL)

URUGUAY 6045.1, R Libertad Sport, Montevideo, 1042-1105 9/7, F; LAm folksong pgm until 1059, Alborada, thru 915872 [phone number?], back tomorrow at 6:30, then micro-nx Informe en Libertad (Takayuki Inoue Nozaki, Tokyo, Relámpago DX) I've seen this reported as R Libertad de Sport--that doesn't make sense in SP

VIETNAM VOV reported 20/7: at present five of the nine wired radio stns in various districts and cities of Don Thap prov are not operating at full capacity. Meanwhile, 60% of wired radio net in villages, city wards, coops have broken down, causing a waste of work and materials. Reorg of wired rdio net at grass-roots level in Dong Thap should be carried out under close guidance of the prov authorities (WBI 29/7)

ZANZIBAR V of Tanzania, Zanzibar, reported 6/8: Chinese ambassador Liu Qingyou says his country agreed to initiate two new projects in Zanz. Disclosed in meet-

ing w/Chief Minister Dr Umar Ali Juma for an hour of discussions. Intended projects are low-cost houses and construction of studios for R Tanzania, Zanzibar (WBI 12/8) [sorry, following should've been under TANZANIA proper]

R Tanz reported 10/8: Govt intends to fully involve the CCM (Chama Cha Mapinuzi -- the ruling party) in improving quality of RT pgm Commentary after the News. Responding to question in parliament, minister of state in the office of the PM and the first VP, Ndugu Anna Makinda, said such a move'd help RT to provide educ nx talk that was topical, esp in economic, political fields. She said at present the pgm was being compiled by various patriots, incl journalists, teachers and politicians and the involvement of the CCM'd assist in improving quality and svc of pgm (WBI 19/8)

LAST MINUTE INFO [More CHINA, HONG KONG next page]

EAST ASIAN DX NEWS

ASIAN BROADCASTING INSTITUTE

Aug. 14, 1988

compiled and translated by Tetsuya Kondo, Japan

CHINA (PEOPLE'S REPUBLIC)

Monitoring observations for Guangxi PBS states that its 3rd Program is on the air except Sat on 5920kHz. 2155-0030, 0925-1200 in Std CH, however "Zhuang language radio school course" in Zhuang is broadcast at 2200-2230, 1125-1155. (Tatsuo Gima)

Sichuan PBS has discontinued operating 5900kHz (2nd Program frq). First noted on July 11. (Satoru Suga)

Alashan PBS often broadcasts on SW, 6025kHz. It is heard at 1300-1330 or until 1350 and 2120-2230. Recently observed in Std CH. Pgm are monitored as 1200-1230 EG course, 2130-2200 relay CPBS "News and Press Summary", 2200-2220 relay Nei Menggu PBS "Nei Menggu News". 2220-2230 "Alashan News". Cf. last LN Page 26. (Tatsuo Gima)

Hunan Province Meteorological BS has returned to the former 7950kHz. Confirmed on July 5. A parallel frq is 10945kHz. (Satoru Suga)

Guangxi BS is recently heard at 1000-1600 on 5050 kHz. The local morning transmission signs on at 2300. All programs in VT including relay of R. Beijing VT at 1300-1400.

This stn was started to broadcast to Vietnam on Dec. 1, 1984. It is independent organization of Guangxi PBS, according to broadcasting materials published in China. Its ID is as "Day la dai phat thanh Quan Tay". (Tatsuo Gima)

JAPAN

RFI decided change of its bc frqs via R. Japan Yamata transmitting stn in mid-July.

A correct RFI schedule is as 0930-1130 Fr 15215 (to Asian Cont.), 1000-1100 Fr 17705 (to S.E. Asia), 2300-0030 Fr 17710 (to S. E. Asia). All 300kW. Confirmed first day bc on Aug. 1 with good reception.

R. Japan has published a new schedule effective from Sep. 4. The following is a new EG pgm schedule:

General service:

0100-0200 17845 17810 15195 5960(C), 0300-0400 17810 15195 11840 7125 (to 0330, G), 0500-0600 17810 15270 11870 11840 9505, 0700-0800 21695(G) 17810 15325 15270, 0900-1000 17810 11840, 1100-1200 11815 6120(C), 1400-1500 11815 11780 9695, 1500-1600 21700(G) 15230 11815 9695 9505, 1700-1800 11815 11705 9505, 1900-1930 11705 9640 9505, 2100-2130 11850 9695 9675 9640, 2300-2400 17810 15230 15195 11815 11800(G).

Regional service:

0100-0130 American Continent 11905, 0300-0330 American Continent 21610 17825 11870, 0900-1000 Oceania 15270 11885. Via (C): RCI, Sackville, Canada, (G): Africa No.1, Moyabi, Gabon. (Toru Yamashita)

CHINA WBI item in last LN-LMI has many mistakes, I think. At a glance: the following fq are all inactive; Beihei PBS 8677. Nei Minggu PBS 9750 and recent off; 6045 3970 6974 4525. Liaoning PBS 4830. Sichuan PBS recent off 5900. Yunan PBS 6937. Name of Jinlin PBS is wrong; it's Voice of Jinling. Qinghai PBS 7260 maybe typo for 6260 [that one was my error -gh]. And several bc skeds at least are different from our monitoring (Tetsuya Kondo, ABI 14/8)

HONG KONG RTVHK testing on SW, 9685, same xmtr as 3940 occly active. Sked varies, arnd *07-16* w/pgming from RTHK3 in EG; assessing SW coverage, and to discourage Vietboat people w/VT anmts, before they arrive. Best here arnd 08-13, BBC WS nx at 13. First hrd by Craig Seager; info by phone from Tony Beard at stn (Bob Padula, ADXN)

CLANDESTINE CRANNY V of Unity Pashto & Dari bc, 0130-0230 on 15685 12230; 12-13 & 1515-1615 17540 15685 12230. G strength but jammed by Russians (Tetsuya Kondo, Yokohama, Japan, 14/8)

Iran's Flag of Freedom (Kaviyani Banner) Radio Monitoring 16-29/7: in Persian 1630-1820 hrd 16-22/7 on 11315; 23/7 back to 7080; but since 24/7 on 11315 and not hrd on either 7080 or 15555 (WBI 5/8) Monitoring 10-12/8: since 10/8 obs 1630-1830 on 15560 & 11610; 0330-0530 still hrd on 15555 & 9045 (WBI 19/8)

In Persian & Azeri; 1630-1830 on new 15560 11610 12/8; both G: 0330-0530 hrd on 15555 (Tetsuya Kondo, Yokohama, Japan, 14/8)

Radio Iran Persian from Egypt like VOU, IFOFR. 0230-0330 on 15650, 1830-1930 9400 7075 (Tetsuya Kondo, Yokohama, Japan, 14/8)

V of the Communist Party of Iran, latest monitored fqs in Aug: 17-19 in Persian on 4430 & 3840 (WBI 12/8)

R Iran Toilers (Radio-ye Zahmatkeshan-e Iran) first monitored by BBCMS 7/7/84. But hrd by a Japanese listener as early as 23/5/84. Ops from xmtrs in Afghanistan, some of which also carry R Afgh svcs. Ancs addr P O Box 49034, 10028 Stockholm 49, Sweden--same as used by R Iran Courier (Radio-ye Peyk-e Iran) which closed down 30/11/75. Now in Persian to ME 1530-1630, repeated at 1630-1730 & 0230-0330, all on 10870 6230 4775. Of Iranian Tudeh Party (WBI 19/8)

V of the Crusader Monitoring 8-15/8: VOC (Mojahed), currently hrd on 4258 & 3543 at 1230-1515, has pgm in Surani Kurdish 14-1515. This bc, IDed as V of the Kurdish Fighters (Kurdish: Kurdi Dangi Mujahid), consisting of talx & comment attacking govt of Iran, praising Kurdish fighters. At other times VOC is in Persian (WBI 19/8)

V of Iraqi Kurdistan, obs 15/8 in progress at 1612 on 5510; after comtry in AR against Iraqi govt, s/off 1615 w/Kurdish NA (WBI 19/8)

Al-Quds Radio ancd 24/7: We're on FM 105.4, 96.7. Today beginning new expl xmsns on SW in addn to MW 702 & 630. 7460 06-11, 13-16; 4320 at 16-18. Monitoring research 24-25/7: hrd on 7460 07-11, 13-16 since 24/7; 4320 unconfirmed. Is on 700 & 630 07-11 & 13-18 (WBI 29/7) The next week in the skeds sexion, WBI gave same info but did not specify 4320 as unconfirmed; plus these comments; AQR, which describes self as Pal Arab radio on path of liberating land & man (AR: Al-Quds, al-idha'ah al-Arabiyyah al-Filastiniyyah ala Tariq Tahrir al-Ard waal-Insan) first hrd w/test anmts in AR, HB, EG 1/1/88 tho mx only on 702 since at least 24/9/87. Publicizes PFLP-GC and leader Ahmad Jibril, and activities in Syria, Libya. Xmtrs believed in Syria. Most in AR, but also msgs in HB, EG, occl other langs. During winter time in Isr & occupied terrs, bcs one hour later (WBI 12/8)

AQR ancd 16/8 PO addr for ltrs from listeners to criticise stn, send msgs to kinfolk etc: al-Chubayrah, P O Box 25-74, Beirut, Lebanon; P O Box 1397 and 6170, Aden, S Yemen; P O Box 5092, Damascus, Syria; P O Box 10412, Tripoli, Libyan Jamahiriyah (WBI 19/8) V Oromo Liberation & R V of Ethiopian Unity see SUDAN

V of the Tigre Revolution Monitoring obs of TPLF radio 30-31/7: obs in Amharic 04-0445, Tigrigna 0445-0530. Ancs daily then plus Amh 15-1545 & 19-1945, Tigrigna 1545-1630, 1945-2030 in 49, 43?, 41, 31mbs. So far only 9343, 7830 confirmed. VOTR ancs bcs from "liberated areas of Tigre" supporting Tigre People's Libn Front. Hostile to Ethiopian govt. Stn of same name first observed 1/81 via V of Broad Masses of Eritrea facilities, but these xmsns believed discontinued mid-1980s after deterioration in rels betw EPLF and TPLF. Nx release from TPLF of- fice in Mogadishu says present bcs, possibly from TPLF's own xmtrs, began 15/7/ 86 [sic] (WBI 5/8) Isn't there a Tigre lang diff from Tigrigna? (gh)

R Truth Zimbabwe News, offl pub of sole legal party, Zimb Af Natl Union - Patriotic Front, has denounced as a "CIA opn" cland EG-lang stn R Truth, which claims to bc out of Harare, the capital. Self-styled anti-Marxist stn has been on air w/personal attax on sanity of Zimb strongman PM Robert Mugabe, strong denunciations of nation's Marxism and charges of extensive corruption in Mugabe govt & ruling party. R Truth bc denial of ties to CIA. Most regional diplomats say they believe that on this point at least, the stn is living up to its name. Its direxion comes from Pretoria, not Washington (Insight, weekly news mag of Moonie Washington Times, 11/7 via Paul Buer, Miami FL)

V of the Resistance of the Cockerel Monitoring 15-24/7: Since 15/7, R Nacional de Angola hrd w/DS in PT on 9700, fq previously used by this UNITA stn. Latter obs since 19/7 at 06-0730 on 9710 (WBI 29/7) PT: A Voz da Resistência do Galo Negro, on behalf of Jonas Savimbi's UNITA mvmt. Stn on 4975 (originally 4950) first hrd 4/1/79, believed from S Africa. Test xmsns on other chs began 7/86. Ancs it bcs from Jamba in Angola over ch A and ch B. Pgms in PT and local langs incl Umbundo and Kwanyama. Sundays & Mondays A pgm also carries items in EG (nx 06 & 13) and FR. Channel A: 05-09 9710 7130, 11-15 11820 9650, 18-22 7145 and 7130. Channel B: 0330-06 4975, 08-1030 15170 9600, 12-1430 same, 1730-20 4975 (WBI 5/8) Insert "Black" before Cockerel in heading, sry

TV Marti R Rebelde, Havana reported 28/7: US Senate has approved by majority vote a \$7.5M budget to establish the new svc directed against the island of freedom. This channel, part of USIA will have same objectives as subversive radio stn R Marti, established acc to so-called radio being law signed by Pres Reagan in 1983. Senate approved decision despite opposition of US [National] Association of Broadcasters (WBI 5/8)

P U B L I C A T I O N S REVIEW OF INTERNATIONAL BROADCASTING Issue 126 was mailed to subscribers August 25. This edition includes program previews and other information from many countries, such as ORF's complete program schedule. Full details on BBC in September. Regular columns by Loren Cox, Radio Equipment Forum and Satellite Watch; remembering the late Axis Sally. Samples are \$2 in North America, US\$3 elsewhere by airmail. 10-issue subscriptions \$21 in North America, US\$27, 29 or 31 overseas airmail depending on the zone. Some copies of Issue 124 may also be available, but not 125. Available only from your editor, gh, Box 1684, Enid OK 73702. Remittances from outside US must be in US\$ on US bank with standard US magnetic banking code imprints; international postal money order in US\$, or cash at sender's risk, registered mail suggested.

DX LISTENING DIGEST complements RIB (and LN) with country-by-country DX news both schedules and loggings, mostly SWBC but not limited to that, from a great many original, published and broadcast sources. Issue 22 was expected to be published August 31. Exactly same rates as RIB above, or both for \$2 less than the sum, e.g. \$40 in North America. Most issues also include Enjoying Radio, conducted by David Newkirk, where radio may be approached from just about any angle. A few copies may remain of Issues 20 and/or 21; from gh's address.

WORLD OF RADIO, gh's broadcast 'publication', now scheduled on WRNO New Orleans: Thu 2300 on 13760, UTC Fri 0030 on 7355, UTC Sat 0300 on 6185, Sat 2330 on 13760, Sun 2030 on 15420. Catch the earliest airings to be safe, as later ones may be pre-empted for football or other problems. Those who find the interruption of this and other programs for frequency changes even when shows are running late, are invited to politely protest this practice to WRNO Worldwide. See COSTA RICA

WORLD BROADCASTING INFORMATION Published weekly by the BBC Monitoring Service, WEI gives up to date news on developments in world broadcasting including: details of the different programme and frequency schedules. Broadcasting behaviour and technical developments. Activities of clandestine and unofficial broadcasters. For more information, write to: Subscriptions Office, BBC Monitoring Service, Caversham Park, Reading, RG4 8TZ, Berkshire, England (BBCMS) Cost is 350 pounds per annum, plus overseas postage Until the next LN, 73, Glenn

QSL REPORT

- ARU DHABI:** Voice of the United Arab Emirates 11865 QSL folder cd. in 3½ mo. for \$1.00. v/s Ahmed A, Shouly, Director. (Sams). 9640 same cd. in 45 ds. (Eckman-CA).
- ALASKA:** KNLS 11930 f/d cd. in 9 ds. v/s Susan Ledger. Schedule rcvd. (Michalenska-RI).
- ALBANIA:** Radio Tirana 7065 p/d "Museum of National History" cd. in 4 mo. (Foell-LA).
- ANGOLA:** Radio Nacional de Angola 11955 ltr. w/ white cd. in 49 ds. via registered mail for a SP rpt. and ms. v/s Carlos Ferreira. (Eckman-CA).
- ANTARCTICA:** LRA36 Radio Nacional 15474 p/d cd. in 150 ds. for a SP rpt. and ms. (Rugg-QUE).
- ANTIGUA:** BBC Antigua Relay Station 9640 cd. in 59 ds. (Darling-PNG).
- ARGENTINA:** LRA1 Radio Nacional 6060 f/d "Logo" cd. w/ personal ltr. in 19 ds. for a SP rpt. and \$1.00. v/s Gabriel Ivan Barrera. Pennant rcvd. (D'Angelo-PA).

ASIATIC RUSSIA: Radio Moscow 9610 via Khabarovsk f/d cd. in 52 ds. (Eckman). 17850 f/d cd. in 37 ds. (Eckman). 12050, 13605, 15425 and 15455 via Petropavlovsk-Kamchatsky f/d "Railway" cd. in 52 ds. (Eckman-CA). 17880 via Irkutsk f/d cd. in 37 ds. (Eckman). 17860 via Chita f/d cd. in 37 ds. (Eckman-CA). 17865 via Vladivostok f/d cd. in 37 ds. (Eckman).

AUSTRALIA: Radio Australia 17795 via Shepparton f/d "Koala Bears" cd. in 1 mo. (Davisson-OH). same cd. in 1 mo. w/ sticker. (Levison-PA).

BELGIUM: RTBF 11660 f/d cd. in 21 ds. (Paszkievicz-WI). BRT 9925 and 21810 f/d cd. of the "Interior View of Tassel House" in 66 ds. Schedule rcvd. (Levison-PA).

BRASIL: Radio Bras 11745 f/d "Copacabana" cd. w/ schedule in 3 mo. (Foell-LA).

CAMEROUN: Radiodiffusion de Douala 4795 f/d prepared cd. for a 1983 reception in 1 mo. for a FR rpt. v/s Antoine Marie Nisma, Chef. (Kusalik-ALB).

CANADA: Radio Canada International 11940 "Human Rights" cd. in 25 ds.

(Levison). CHU 3330 f/d "Sir Sanford Fleming" cd. in 101 ds. (Eckman-CA).

CENTRAL AFRICAN REPUBLIC: Radio Centrafrique 5034 p/d "African Map" cd. in 6 mo. for a FR rpt. and 2 IRCs. Cassette sent to station. (Eckert-PA). 5034.4 p/d "Map" cd. in 6 wks. for a FR rpt. ms. and \$1.00. v/s Michel Bata. (Palmerheim-MN).

CLANDESTINE: La Voix du Sahara Libre

* 15215 f/d prepared cd. in 24 ds. for \$1.00 v/s Marabih Ahmed Haiba. Stickers rcvd. (D'Angelo-PA). f/d prepared cd. w/ transmitter site as Bouchaouri in 25 ds. for a FR rpt. and \$1.00. Rcvd. freedom decal and information about the Polisario Movement. (Kusalik-ALB). Voice of Unity 11490 p/d "Map" cd. in 2½ years: for \$1.00 and after 5 f/up rpts. (Palmerheim-MN).

COMOROS: Radio Comoros 3331 personal ltr. in 6 wks.

* after 5 f/up rpts. in FR over a 5 year period. This was for receptions in 83,84 and 85. v/s Antufi Mohamed Bacar, Le Directeur de Programme who states that his job is to answer all correspondence



QSL

Certificado de Sintona

Emisora Radio Monte Carlo

A Sr. Roberto Alvarez

Muchas gracias por su informe de recepcion. Tenemos el

gusto de confirmar su control de nuestra emisora en

9595 Mc. de fecha 7 de febrero de 1988

a las 10:30 horas de 11:30 con

varias de potencia.

Radio Monte Carlo

Antonia

firma y sello oficial

that the station receives. (Sams)....Sounds Good!

COSTA RICA: Radio For Peace International 21555 f/d blue and white "Logo" cd. and a f/d ltr. in 76 ds. v/s James Latham, Station Manager. (Stephens-AL).

CUBA: Radio Habana Cuba 6090 f/d "Horseback Riding in Lenin Park" cd. in 15 wks. (Foell-LA).

Radio Rebelde 5025 personal ltr. w/ card and pennant in 221 ds. for 2 IRCs. v/s Jorge Luis Mas Zabala, Relaciones Publicas y Gerencia Comercial. Addr: Apartado 6277, La Habana, Cuba. (Darling-PNG).

CZECHOSLOVAKIA: Radio Praha 11990 f/d cd. in 1 mo. (Levison). f/d "Rarlstejn Castle" cd. in 37 ds. (Eckman-CA).

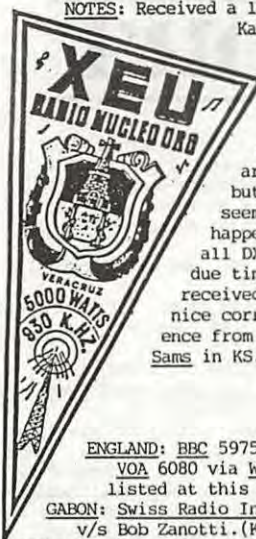
ECUADOR: HCBJ 17790 f/d cd. in 39 ds. (Davisson). Radio Antena Libre 3239.6 f/d prepared cd.

* in 1 mo. for a SP rpt. and ms. v/s Luis E. Velasco Leon, Gerente. (Palmerheim-MN).

Radio Iris 3381 p/d ltr. in 84 ds. for a SP rpt. and ms. v/s Pilly Naranjo de Villagomez. (Paszkievicz).



NOTES: Received a letter from Harold Cones in VA. He was very thrilled about the Kamuchea verification and especially the station pennant. I believe we did run one a few months ago in the QSL Column; however, not too many DXers have received this beautiful pennant. Jacob Kacir reports that he was one of the lucky DXers to receive and confirm the special message broadcast by Mr. Frank Carlucci, U.S. Secretary of Defense on Armed Forces Day, May 22, 1988. Congratulations Jake! Kirk Allen write that the QSLs are a bit slow in



arriving but this seems to happen to all DXers in due time. Also received very nice correspondence from Mitch Sams in KS...Sam.



ENGLAND: BBC 5975 n/d "Bush House" cd. in 15 wks. w/ schedule. (Foell).
VOA 6080 via Wofferton f/d cd. in 8 ds. after a f/up rpt. Rhodes is listed at this frequency in RDI. (Eckman-CA).

GABON: Swiss Radio International 11925 f/d "Two Bob's" cd. in 6 mo. for 2 IRCs.
v/s Bob Zanotti. (Kusalik-ALB).

GERMAN DEMOCRATIC REPUBLIC: Radio Berlin International 9560 f/d cd. in 10 wks. (Foell)
Sender Stimme der DDR 6115 f/d cd. w/ ltr. in 32 ds. after a f/up rpt. Schedule and decal rcvd. v/s Gunter Haller. Also verified the 177 khz longwave frequency. (Kusalik)

GUATEMALA: Radio Buenas Nuevas 4800 f/d prepared cd. in 3 wks. for a SP rpt. and ms. Also received a station fact sheet under separate cover. (Lobdell-MA).

HONDURAS: HRXK La Voz Evangelica de la Mosquitia 4911 f/d prepared cd. w/ paper pennant in 42 ds. for a SP rpt. and \$1.00. v/s Pastor Jose Roldan Brown. (Kusalik-ALB).

HUNGARY: Radio Budapest 9520 via Jaszbereny f/d "Popular Costumes" cd. in 2 mo. (Mayer-PA).
6025 cd. in 3 mo. (Mayer-PA). 11910 f/d "Shortwave Club" cd. in 32 ds. (Davisson).

ICELAND: Iceland State Broadcasting Service 11731.1, 11740 and 9978 f/d "Autumn Landscape at Thingvellir" cd. w/ new schedule in 3 mo. (Barto-CT).

IRAQ: Radio Baghdad 11705 p/d large folder cd. in 2 mo. after 7 f/up rpts. since 1982. for 1 IRC. (Allen).

IRELAND: Radio Dublin 6915 f/d cd. w/ * form ltr. and sticker in 88 ds. for \$1.00. v/s Eamon Cooke, Director of the Shortwave service. (Rugg-QUE).

JAPAN: Radio Canada International * 15385 via Yamata f/d do-it-yourself "40th Anniversary Human Rights" cd. in 22 ds. (Buer-FL).

JAVA: RRI Mataram 3223 personal ltr. from Idris Zamzam in 1 mo. in an oversized envelope that was covered w/ 6350 rupiah in stamps. I rcvd. business cd., studio photo of Idris, sticker, postcards, etc. Tnx to John for the v/s and Kirk for the telephone call. (Sams).

RRI Surakarta 4899 p/d cd. in 5 wks. for an IN rpt., ms. and an 83 rpt. v/s Ton Martono, Head of Programming Section. (Palmerheim-MN).

* RKFDT2 Banyuwangi 3504 personal 2 page ltr. in 3 wks. for an IN rpt. and ms. This was for a 1980 reception after 1 f/up rpt. v/s Titik Hadi. (Sams).

KAMPUCHEA: Voice of the People of Kam-puchea 11940 f/d ltr. w/ stamps and pennant in 320 ds. (Cones-VA).

LEBANON: King of Hope 6280 f/d cd. in 4 mo. w/ sticker for a reception while I was in Israel. (Eckert-PA).

DEPARTEMEN PENERANGAN RI.
RADIO REPUBLIK INDONESIA
STASIUN PADANG

Telp : 21030

Padang, 25 Juni 1988.

Kepada :
Yth. Tuan Rowland Archer
5524 Hawthorne Park
Raleigh, NC 27612
UNITED STATES OF AMERICA

Saya telah menerima surat Saudara hari ini tanggal 25 Juni 1988. Saya sebagai Kepala Stasiun RRI Padang (Station Manager) sangat ber-gembira menerima surat Saudara, utamanya laporan Saudara tentang siaran-RRI Padang tanggal 30 Mei 1988 dari pukul 17.34 - 18.00 WIB (Waktu In-donesia Bagian Barat) .

Setelah kami teliti laporan Saudara, dan kami cocokkan dengan program-siaran kami , maka siaran yang anda tangkap adalah benar - benar siaran -kami dari RRI Padang, pada gelombang SW 75 meter (4.002 KHz) yang ber-kekuatan 10 KW.

Kami gabung gelombang pendek (SW) dengan 10 KW dapat menjangkau sasaran-demikian jauh. Sekali lagi, terima kasih atas hasil observasi Saudara -atas siaran Radio kami dari Sumatera Barat - Indonesia.

Salam kami melalui esoboyan RRI : " SIKALY BIJUDARA TETAP BIJUDARA "



VERIFICATION SIGNERS: Radio Western Highlands 3375 Paul K. Ray, Acting Station Manager. Radio Montecarlo 9595 Ana Ferreira Bonino, Secretaria. La Voix du Zaïre 16245 Iman Ayimpam Mwan-A-Ngo, Directeur des Programmes de la Radio. Radio El Mundo 6015 Freddy Banegas Carrasco, Gerente Administrativo. Radio Clube de Marília 3235 Jose Marques Beate, Gerente. ERPE 5015 Luis Ramos T., Director Ejecutivo Encargado.....via PLAY-DX.

RADIO ULANBATOR MONGOLIA



MEXICO: Radio Educacion 6185 f/d form ltr. w/ personal note in 31 ds. for a SP rpt. and ms. Studio photo rcvd, via registered mail from * v/s Ing. Gustavo Carreño L. (D'Angelo-PA). La O XEQQ 9680 personal ltr. in 4 mo. for a SP rpt. w/ cassette tape. She stated that the station has undergone a period of transition and regreted the delay in answering my report. Slogan is "La Super Q, La estacion de Los Grandes". v/s Griselda Sanchez Lopez. (Lobdell-MA).

MONACO: Trans World Radio 12025 f/d "Map" cd. in 3 mo. for a taped rpt. Station pennant and schedule was rcvd. (Eckert-PA).

NEW BRITAIN: Radio East New Britain 3385 f/d cd. in 1 mo. for 2 IRCs. (Robinson-IL).

NORWAY: Radio Norway International 15310 f/d "Fish Farming" cd. in 56 ds. (Davisson) 15310 via Fredrikstad f/d "Medieval Stave Church" cd. w/ schedule and stickers in 30 ds. v/s Euling Thokle. (Mayer-PA).

OMAN: Radio Oman 9735 f/d beautiful "Dates" cd. in 140 ds. for 2 IRCs. (Rugg-QUE).

PAKISTAN: Radio Pakistan 9475 cd. w/ ltr. in 44 ds. for ms. (Eckman-CA).

PAPUA NEW GUINEA: Radio Central 3289.9 f/d "Map" cd. in 6 wks. for 2 IRCs v/s Timothy Dickson. (Palmerheim-MN).

PERU: Radio Ancash 4990 personal message on postcard in 3 mo. for a SP rpt. and ms. v/s Armando Moreno Romero, Gerente General. (Lobdell-MA). Radio del Pacifico 9949 prepared f/d cd. w/ ltr. and decal in 55 ds. for a SP rpt. and a cassette tape. v/s J. Petronio Allauca, Depto. Relaciones. (Kusalik-ALB). 9950 ltr. w/ schedule in 40 ds. for a SP rpt. and ms. (Eckman-CA). Radio Tropical 4935 form ltr. in 28 ds. for a SP rpt. v/s Luis F. Mori Reategui, Gerente. (D'Angelo-PA).

POLAND: Radio Polonia 9525 and 7270 f/d cd. w/ sticker in 70 ds. (Levison-PA).

QATAR: Qatar Broadcasting Service 11820 f/d "Map" cd. in 5 mo. for 2 IRCs and a taped rpt. Schedule rcvd. (Eckert). same in 149 ds. for 1 IRC. (Rugg). 9585 cd. w/ station information booklet in 3 mo. for \$1.00. (Sams).

SAIPAN: KYOI 11900 f/d cd. printed on a WCSN cd. after 2 f/up rpts. to Boston. No v/s but received a note attached from * the "Public Affairs Office" apologizing for not having KYOI response cards and hoping this (WCSN) card will suffice. Sure does! (Michalenka).

SARAWAK: Radio Television Malaysia 4950 f/d "Broadcasting House" cd. in 90 ds. for ms. (Eckman-CA).

SINGAPORE: BBC 9740 via Kranji n/d cd. w/ photo of site in 24 ds. v/s D.J. Corbett and John Harding. (Kusalik-ALB).

SOUTH AFRICA: Capital Radio 7150 ltr. w/ schedule in 1 mo. (Eckman).

SPAIN: Radio Exterior de Espana 9630 f/d "Queen Isabel" cd. in 7 wks.

SULAWESI: RRI Manado 3215 ltr. in 1 mo. for an IN rpt. and ms. via registered mail. Photo rcvd. v/s Daniel Narande. (Sams).

SUMATRA: RRI Banda Aceh 4955 f/d prepared cd. w/ personal ltr. in 22 ds. for an IN rpt. and ms. This was for an 86 reception. v/s Rosakim, S.H. (Allen-OK). 3905 two prepared cds. were rcvd. along with a verie ltr. in only 12 ds. (!) for an IN rpt. and ms. (Kusalik).

SWEDEN: Radio Sweden 15390 cd. in 42 ds.

(Darling-PNG). 11705 f/d "Stockholm in May" cd. w/ schedule in only 9 ds! v/s A. Sjolom. (Mayer-PA). 17840 (USB) same cd. in 1 mo. (Davisson).

SWITZERLAND: Swiss Radio International 15570 f/d cd. in 20 ds. (Davisson). 9725 f/d "Chur" cd. w/ schedule in 6 wks. (Foell).

* Schweizer Radio und Fernsehgesellschaft 3985 via Lenk and SRI p/d plain white cd. in 1 mo. for a GM rpt. and 1 IRC. v/s Sylvia Frey, Sekretarin Deutschsprachiges Programm. (Mayer-PA).

TRADITIONAL HOUSES, PALEMBANG

Palembang is the capital of the Province of South Sumatra, the old city, the main commercial centre in Southern Sumatra, Indonesia. The city was the capital of the old, famous Kingdom of Sriwijaya.

Picture shows the panoramic view of a village in the lower parts of the city, most of the houses are built on piles.

via Kirk Allen

Remarks :
Thank you for your report.

QSL CARD

This is to verify your report on

station : RRI Palembang.
frequency : 4056 KHZ or 10 Kwatt.
date : 4 April 1988
time : 19.12 - 19.52 WIB.

Station Manager.

(Drs. Abdul Rochim,
NIP. 050006886.)

3RPH

3RPH, "Radio for the Print Handicapped" commenced transmissions on 7th April 1981 and is one of four RPH stations currently broadcasting through Australia.

The object of the station is to serve and appeal to anyone who cannot read, handle or comprehend the printed word, including the blind and visually handicapped, those with physical disabilities which make handling a book painful or impracticable and those who, through circumstances, have simply never learned to read.

In the daily broadcasts from 7AM to 11PM, interesting articles, items, letters, stories, broadcast and TV guides, and notices from agencies, short lessons to some of the entertainment available in the metropolitan area.

A great deal of the work at the radio station is done by volunteers to professional broadcasting standards.

via Gordon Darling

We gratefully acknowledge the donations of services to the library for the production of the card

Design & Art: Anne Hill, Sydney, Box 26, Mountview, N.S.W.
Printing: Sydney Printers, 11 Macquarie St, Macquarie, N.S.W.
Printing: Major Print, 28 Smith St, Sydney, N.S.W.

TANGIER: Radio TV Morocco 11920 f/d "Map" cd. in 75 ds. for a FR rpt. and 2 IRCs. (Van Horn-FL). 17815 f/d cd. in 44 ds. (D'Angelo).
TURKEY: Voice of Turkey 9445 f/d "Ankara" cd. w/ sticker and schedule in 1 mo. (Rubin-NY). f/d "Santa Claus" cd. w/ pennant in 7 wks. (Foell). same in 43 ds. (Eckman). f/d cd. w/ pennant and sticker in 35 ds. (Mayer-PA).
TURKMAN SSR: Radio Moscow 17740 via Ashkhabad f/d "Railway" cd. in 52 ds. (Archer-NC).
TUNISIA: RTVT 12005 via Sfax p/d ltr. in 2 mo. for a FR rpt. (Barto-CT).
UKRAINIAN SSR: Radio Kiev 7400 f/d cd. in 41 ds. (Hazzard-PA). 7165 f/d cd. in 62 ds. (Top-

oleski-PA). Radio Moscow 9735 via Simferopol f/d "Bolshoi Theatre" cd. w/ schedule in 71 ds. (Mayer). 15585 and 13790 f/d cd. in 66 ds. (D'Angelo-PA). 21630 via Starobelsk f/d "Lenin Library" cd. in 34 ds. (Archer-NC). 15410 via Kiev f/d cd. in 52 ds. (Paszkiwicz). 9610 via Lvov f/d cd. in 49 ds. (Paszkiwicz-WI). 17820 via Kiev f/d cd. in 34 ds. (Archer-NC).

URUGUAY: Radio El Espectador 11835 f/d cd. w/ sticker in 2 mo. for a SP rpt. and 2 IRCs. (Robinson-IL).

USA: VOA Greenville 5975, 6160 and 9590 cds. in 1 mo. (Darling-PNG). 11715 f/d cd. in 1 mo. (Darling). 5975 and 6160 cds. in 22 ds. (Darling). 9590 cd. in 20 ds. (Darling). 11715 cd. in 26 ds. (Darling). 5985 via Delano f/d cd. in 26 ds. (Darling). Voice of Free China 5985 via WYFR f/d cd. w/ stickers and a pennant in 156 ds. (Levison). same in 19 ds. w/ sticker. (Levison). KUSW 11695 p/d "Logo" cd. w/ sticker in 3 wks. v/s Faith Martin. (Wallace-MA). 15580 p/d cd. in 28 ds. for ms. (Stephens-AL). WINB 15145 f/d cd. w/ schedule in 57 ds. v/s John H. Norris, Vice President. (Mayer-PA).

USA (Pirate): Voice of Free Long Island 7415 f/d ltr. in 10 ds. for ms. (Stephens-AL). Radio Garbanzo 7415 f/d "Know Your Bean" ltr. in 42 ds. for ms. (Allen).

WEST IRIAN: RRI Biak 5451 f/d personal ltr. in 5 wks. for an IN rpt. and ms. v/s Mughtar Yushaputera BA, Chief of Broadcasting. (Palmerheim-MN). 7211 ltr. in EG * in 3 wks. for an IN rpt. and ms. (Sams). RRI Nabire 5055 ltr. in 3 wks. for an IN * rpt. and ms. Photo received of v/s and his wife. v/s Ismail S. (Sams). RRI Wamena 4871 ltr. in 1 mo. for an IN rpt. and ms. Enclosed a photo of v/s leaning up against the transmitter. v/s Yoswa Kumurawak. * (Sams). RRI Serui 4607 ltr. in 3 wks. for an IN rpt. and ms. v/s Jasran Abubakara, Kepala Stasiun. Thanks for the note Mitch... Sam.

VENEZUELA: Ecos del Torbes 4980 p/d ltr. in 247 ds. for a SP rpt. and ms. v/s G. Gonzalez Lovera, Presidente. (D'Angelo-PA).

Radio Rumbos 4970 f/d cd. in 244 ds. for a SP rpt. and ms. (D'Angelo). Radio Valera 4840 f/d cd. in 336 ds. for a SP rpt. and 1 IRC. v/s Jose Silinio Perez. (Schmitz-FRG).

VIETNAM (South): Nchia Binh Radio 4797 f/d cd. in 2½ mo. via Hanoi for an EG rpt. and * 2 IRCs. (Sams).

ZAIRE: La Voix du Zaire 15245 f/d ltr. in 304 ds. after a f/up rpt. in FR for a 1982 reception. and \$1.00 v/s Ayipam Mwan-a-Ngo. (Buer-FL). f/d ltr. in 414 ds. for a FR rpt. and \$1.00. (Stephens-AL). f/d ltr. in 28 mo. for a FR rpt. and ms. (Allen-OK). f/d ltr. in 697 ds. for a FR rpt. and \$1.00. (D'Angelo-PA).

This ends yet another QSL Column. Kind of on the short side this month but next month already promises to be a great Column.

Till next time....

Sam



Information Radio 3RPH
STUDIO: 454 Glenelvie Rd, Kooyong, 3144 Australia
Frequency 1629 kHz Power: 500 watts
Antenna: 1/4 wavelength
We have pleasure in verifying your report of reception of Information Radio 3RPH on 16/11/88 at 6:40 AM - PRE EAST

3RPH
via Gordon Darling
Georgy Kaye
Station Manager



JERRY A. LINEBACK, Editor
 3959 Castle St.
 Douglasville, GA 30134

September 1988

We welcome you to another issue of the NASWA Scoreboard. This time the Spotlight is on South America. Remember that C/H = countries heard and C/V = countries verified. Country counts are by the official NASWA Radio Country List that is available from Headquarters.

If your name is missing this month, remember that you must update your totals at least once a year to remain listed on the Scoreboard. When you update, please update all totals. We thank all those who participated on the Scoreboard this month. The next deadline will be 15 November for the December FRENDX. The Spotlight will be on Africa for the next Scoreboard.

Name, State	Total		S Am		Best S Am QSL
	C/H	C/V	C/H	C/V	
James Young, CA	237	223	14	13	Galapagos
John Tuchscherer, WI	234		15		Qollasuyo
Gordon Darling, PNG	232	225	15	15	Falklands
William Flynn, CA	224	204	15	14	R Apintie 50W
Marlin Field, MI	223	221	15	15	Apintie
Jerry Berg, MA	223	221	15	15	R Teleco, Par.
Gerry Bishop, FL	223	209	15	14	Falklands
Nobuaki Takahashi, Japan	220	187	15	10	Rd PresPrudente
Tom Gavaras, MN	218	214	15	15	Galapagos
Roland Schulze, FRG	217	201	15	14	Galapagos IS.
Mitch Sams, KS	217	145			
C. Brian Hamilton, FL	216	188			
Al Miller, OH	214	207	15	15	Galapagos
Bill Harms, FRG	214	145	15	10	FIBS
Terry Palmersheim, MN	212	189	15	15	R Antena Libre
John Sgrulletta, NY	210	210	15	15	Falklands
Harold Cones, VA	209	195	15	15	Falkl/Galapagos
Paul Buer, FL	208	197	14	14	Apintie 50W
Richard Davis, NM	207	194	15	15	Falklands
Ron Howard, CA	207	189	14	14	R Santa Maria
Larry Abraham, MI	206	193	15	15	Falklands
C. Vernon Hyson, NC	204	187	15	14	Espectador
Steven Lare, MI	204	163	15	10	Falklands
Jim Uerlings, OR	203	65	15	3	GBC Guyana
Kirk Allen, OK	202	180	15	14	R Juan XXIII
Del Fye, FL	201	183	15	15	Madre de Dios
David Swaringen, NC	201	179	15	15	Galapagos Is.
Jerry Lineback, GA	201	106	14	11	Maranhao
Rick Krzemien, CA	200	178	15	12	Galapagos
John Bryant, OK	199	176	15	14	FIBS&Apintie

Name, State	Total C/H	S Am C/V	Best S Am C/H	Best S Am C/V	QSL
Mike Hardester, PA	197	183	15	14	Falklands
Rowland Archer, Jr., NC	194	176	15	15	Falklands
Christos Rigas, IL	192	172	15	15	Falklands
Sheryl Paszkiewicz, WI	191	169	15	15	Falklands
Stephen Leite, MA	191	163	15	15	Falklands
Michael Schmitz, FRG	191	157			El Sol de Andes
Don Hosmer, MI	190	139	15	9	
John R. Tow, AL	188	163	15	13	HCJB 100W
Gayle Van Horn, FL	188	160	15	14	Falkland Is.
John Meyer, WI	186	152	14	10	Falklands
Andy Leskowitz, MA	185	106	14	8	Apintie 350 W
Charlie Hoffman, PA	183	149	15	14	Ondas deHullaga
Hadley Cress, VA	181	8			
Kent Willis, KY	180	135			
Tom Daly, NY	178	32	12	1	Ecuador
Bryan Price, KY	173	98			
Morley Kirkland, Ont.	172	158			
Tom Laskowski, IN	167	130	14	10	HCJB 26020
Ichiro Maruo, Japan	158	90	6	4	R. El Mundo
Kevin Klein, WI	155	67	13	5	RN Brazil
John Mosman, KS	151	114	14	8	Paraguay
Andy Rugg, Que.	146	121	11	8	R Rural Bras.
Rev. John Eckert, PA	145	121	10	9	RN Chile
Carl Mann, IA	144	124	15	10	Falklands 3958
Steve Forst, PA	144	99	14	7	Guyana BC
Carl Radtke, CA	143	143			
Keiichi Kondo, Japan	143	100			
Dustin Brann, MO	143	73	12	5	R Capital
Peter Dillon, Greece	142	91	11	8	R Turismo
Jim Renfrew, NY	136	94	12	6	Paraguay
Kenneth Hill, MA	135	85	11	7	Guyana BC
Thomas Ross, IL	133	111	9	7	HCJB 100W
Jackie Cole, CO	128	91	10	5	R Nac Chile
Donna Robinson, IL	122	79			
David Morby, NY	113	22	12	3	Radiobras
Harold Levison, PA	104	85			
Jerry Ervine, TX	103	80			
Jim Shaver, OR	92	67	10	6	
Ronald Purdue, MN	82	43			

Thanks again to all our participants. Don't forget the next deadline is 15 November when the Spotlight will be on Africa.

73's to all. *day*

NO COLLECT CALLS ON THESE ADS, PLEASE

FOR SALE: Info-Tech M-6000 decoder in mint condition. Bought new 1/88. Manual and boxes included. Price \$698.00 plus UPS. Jim Uerlings, 1437 Pacific Terrace, Klamath Falls, OR 97601. Phone (503) 884-7659 after 0100 GMT.

WANTED: An unmodified SX-190 with speaker in very good to mint condition. Will pay current prevailing price or \$100 to \$200 depending on condition. Solomom Wilson, 8048 Rodney Street, Philadelphia, PA 19150. Phone (215) 224-5382 after 6:30 pm.

FOR SALE: ICOM IC-R70 DX power kit, \$7.00. Price includes shipping. My receiver was stolen so I can't use this any longer. David Swaringen, P.O. Box 786, Huntersville, NC 28078. Phone (704) 875-1514.



FRENDX LOG REPORTERS

Greetings and welcome to the September, 1988 Contributors' Page. The following folks helped make this issue of FRENDX possible:

John ANYWODI, Lexington, VA

Paul BUER, Miami, FL: Drake SPR-4/FS-4

John BOONE, Houston, TX: Radio Shack DX-440

Richard D'ANGELO, Wyomissing, PA

Peter DILLON, serving America in Greece: Radio Shack DX-400

Richard ECKMAN, San Jose, CA: Panasonic RF-4900; Sony ICF 2010

Chris FOELL, New Orleans, LA: Toshiba RP-F11

Rufus JORDAN, Pittsburgh, PA: Radio Shack DX-302

Tom LASKOWSKI, South Bend, IN

Alan LAVES, Dallas, TX: Collins R-390A

Harold LEVISON, Philadelphia, PA: Icom R-70

Roland SCHULZE, Stuttgart, WEST GERMANY: Drake R-4C; Kenwood R-5000

Ron TROTTO, St. Cloud, FL

John TUCHSCHERER, Neenah, WI: Icom R-70; Yaesu FRG-7700

Dr. Richard WOOD, Hilo, HI: Kenwood R-1000; Drake SPR-4

Phillip WOROB, Austin, TX

and me, John M. Kapinos, Shrewsbury, MA: Panasonic RF-B10 and a 24 count case of 16 ounce Miller Lite tuning oil.

I am deeply saddened to report that John Henault's recuperation and recovery is not coming along as well as hoped and that John has chosen to step down as regular Distributing Editor rather than keep the membership in suspense each month. NASWA Publisher Bill Oliver, Executive Director Chuck Rippel and Chairman of the Editorial Committee Harlold (Dr. DX) Cones have asked me to take over on a permanent basis and I have agreed to do so.


Our deadline for the October FRENDX here at kap's clearing house will be Monday, September 12th, with all submissions being mailed to the Editors the following day.

And a BIG HELLO to Sheryl Paszkiewicz, our new LERB Editor. Sheryl has been a participant in our NASWA Awards Program for several years now and has the experience, knowledge and enthusiasm to do a super job. I'm sure that I echo the thoughts of many folks in welcoming her to our editorial staff.

A big tip of kap's kap to Jerry Berg who has served so ably as LERB Editor for many years. Our loss is the ANARC Committee to Preserve Radio Verifications' gain.

With autumn rapidly approaching (it was 34 degrees and snowing on Mount Washington, New Hampshire yesterday afternoon) and the new Papua New Guinea broadcasting scheme about ready to go the DX is out there, go get em.

Till next month

Best,  8/22/88



LOG REPORT

section A

2000 to 4899 kHz

Editor: Mike Harris,

A rather light month last go-around. Let's see how this month turns out O.K.!!

- 2340 CHINA. Fujian. 1550. CH. Talk. not //2490. (6/7 Wood-HI)
 3250 HONDURAS. Luz y Vida. 0250-0310. Rel. pgm. (5/8 Boone-TX)
 3255 LESOTHO. BBC Relay. 1545. EE. World Svc. (6/7 Wood-HI)
 3260 NIGER. LV de Sahel. 2010-2100. FF/VN //5020. ID and Afro folk music. (2/6 Schulze-FRG)
 3300 GUATEMALA. TGNA. 0320-0340. Religious pgm. (4/8 Boone-TX)
 3356 BOTSWANA. RB. 1826-1845. Setswana. Music and talk by OM in Vern. w/ song's. (11/7 Dillon-GREECE)
 3360 GUATEMALA. LV de Nahuala. 0245-0310. Non-stop marimba mx, into rustic vocals @ 0300 w/missed ID on the hour. (1/8 Boone-TX)
 3375 INDIA. AIR Gauhati. 1545. EE. Comment on the Islamization of Bangladesh. (14/6 Wood-HI)
 3935 INDONESIA. RRI Semarang. 1528. ID and talk. (7/7 Wood-HI)
 3955 SOUTH AFRICA. SABC. 0300. Talk & Music. (26/7 Laskowski-IN)
 3958 FALKLAND ISLANDS. FIBS. 1006. EE. Shipping info, weather report and "Good Morning Jingle", TC. (23/6 Wood-HI)
 3985 SWITZERLAND. SRI Home Sve. 1802-1819. Italian. Wld. news by OM and into current affairs pgm. (11/7 Dillon-GREECE)
 4418n PERU. R. Frecuencia Lider. 0236-0310. OM w/ talk then LA songs, weak and noisy. (14/7 Tuchscherer-WI)
 4421 BOLIVIA. R. Reyes. 0110-0120. LA music, OM talk w/ very weak signal and strong het. (25/6 Schulze-FRG)
 4740 USSR. R. Kabul Relay. 1840-1930. Pushto. Music variety, into news, more music. (9/7 Dillon-GREECE)
 4750 TIBET. Xixang PBS, Lhaaa. 2220-2301. CH. Full ID and into oldies and "La Cuca Racha" music!! (20/7 Schulze-FRG)
 4755 COLOMBIA. CARACOL. 0236-0244. Carrying the Democratic Nat'l Conv. (22/7 Tuchscherer); @ 0436-0505 w/ news by 2 OM's running // 4945 w/ many ID's. (9/7 D'Angelo-PA); @ 0105-0150 w/ lively sports play by play. (3/8 Jordan-PA); @ 1057 w/ "Esta es CARACOL, primera cadena colombiana" ID. (7/7 Wood-HI); @ 0145-0205 w/ noticias and some music. (1/8 Boone-TX)
 4760 SWAZILAND. TWR. 0355. EE. ID and IS. (1/8 Laskowski-IN)
 4770 NIGERIA. Kaduna. 0340-0400. YL w/ EE song. (4/8 Boone-TX)
 4775 PAKISTAN. RP. 1540. Farsi or Dari. News, ID. (4/7 Wood-HI)
 4780 VENEZUELA. LV de Carabobo. 0310-0320. ID and slow mx. (5/8 Boone-TX)
 4783 MALI. RTVM. FF. 2359. Ethnic music w/ NA. (22/7 Anywodi-VA)
 4795 BOLIVIA. R. Nueva America. 0350. Music and ID. (30/7 Worob-TX)
 4800 LESOTHO. RL. 0445. EE news. (23/7 Laskowski-IN)
 4820 HONDURAS. LV Evangelica. 0320-0330. Long talks by OM. (5/8 Boone-TX)
 4821 PERU. R. Atahualpa. 0853. Very primitive rustic local music. Rooster at 0857, then full ID w/QTH. (31/7 Laves-TX)
 4825 PERU. LV de la Selva. 0957. OA anthem, full ID. (7/7 Wood-HI)
 4830 GABON. AF#1. 0500. FF. S/on w/full ID. (5/7 Wood-HI); @ 0525 w/ YL talk w/OM. (12/7 Trotto-FL)

- VENEZUELA. R. Tachira. SS group vocals, ID's. (5/8 Boone-TX)
 4850 VENEZUELA. R. Capital. 0220-0236. LA vocals to 0229, 0M talk, and ID w/jingle. (19/7 D'Angelo-PA)
 4865 COLOMBIA. LV del Cinaruco. 0350-0407. Latin pops, ID. (5/8 Boone-TX); @ 0400-0425 w/ ID's and excited talk. (30/7 Worob-TX)
 4879 BANGLADESH. RB. 1550. BG. Speech by Foreign Minister. (14/6 Wood-HI)
 4880 SOUTH AFRICA. SABC. 0407-0420. Pop music pgm in EE. (5/8 Boone-TX)
 4890 PAPUA NEW GUINEA. NBC. 1021. Discussion of political topics, @ 1035 w/ financial news. (11/7 Anywodi-VA)
 SENEGAL. RTS. 0555. ID. Anthem. (5/7 Wood-HI)
 4895 COLOMBIA. LV del Rio Arauca. 0342-0407. ID, promo, canned jingles, talk. (27/7 Jordan).

It has come to my attention that there has been some confusion over the date of reception in the log reports. In this column, the international standard is used---(DAY/MONTH) followed by name of reporter and QTH if listed on the log report. Until next month, '73's and keep the reports coming. Special thanks to Dr. Richard Wood in Hilo, Hawaii and to Mr. John Boone of Houston, Texas for their reports this month. Welcome back John!!

mbe

TO ALL MEMBERS OF THE NORTH AMERICAN SHORTWAVE ASSOCIATION :

TO EACH AND EVERY MEMBER OF NASWA, THE CONTRIBUTORS TO FRENDX AND ALL OF THE FELLOW SHORTWAVE LISTENING ENTHUSIASTS WHO TOOK THE TIME AND TROUBLE TO TRY AND COMFORT AND CONSOLE ME IN MY TIME OF NEED AFTER AN UNFORTUNATE ACCIDENT ON MAY 7th, 1988, I WOULD LIKE TO TAKE THIS TIME TO EXPRESS MY MOST HEARFELT THANKS TO EACH AND EVERYONE OF YOUR WHO TOOK THE TIME TO SEND ME LETTERS, CARDS, FLOWERS AND PHONE CALLS WISHING ME A SPEEDY AND COMPLETE RECOVERY.

WERE IT POSSIBLE TO THANK YOU ALL PERSONALLY IN THE FORM OF INDIVIDUAL THANK YOU CARDS, I WOULD READILY DO SO, HOWEVER THAT IS NOT POSSIBLE FOR ME NOW OR IN THE FORESEEABLE FUTURE, THEREFORE I MUST TAKE THIS TIME TO COLLECTIVELY THANK YOU ONE AND ALL FOR YOUR GENEROSITY AND THOUGHTFULNESS.


I MUST ALSO SADLY INFORM ALL THE MEMBERS AND MOST ESPECIALLY THOSE WHO CONSISTANTLY AND FAITHFULLY SUBMITTED THEIR LOGGINGS TO ME AS THEY WERE ABLE. THAT I MUST SADLY RESIGN MY EDITORS POSITION WITH FRENDX DUE REASONS OF PERSONAL HEALTH. I WILL SURELY MISS MOST OF ALL THE NOTES AND LETTERS THAT SOME ENCLOSED WITH THEIR MONTHLY LOGGINGS. SOME WERE SIMPLE LETTERS OR NOTES OF APPRECIATION FOR THE JOB I WAS DOING AND OTHERS WERE SINCERE SHORTWAVE LISTENERS SEEKING ADVISE ON VARIOUS MATTERS CONCERNING THE SHORTWAVE LISTENING HOBBY SUCH AS ANTENNA SUGGESTIONS, RECEIVER RECOMMENDATIONS AND THE LIKE. I HOPE THAT I WAS ABLE TO ASSIST ALL THOSE WHO SO OPENLY CAME TO ME WITH QUESTIONS AND CONTINUE TO HOPE THAT THESE SAME FOLKS WILL CONTINUE TO HELP NASWA AND THE ENTIRE SHORTWAVE HOBBY CONTINUE TO GROW AS TIME GOES ON.

MY MOST SINCERE HOPE FOR THE FUTURE IS THAT YOU WILL ALL CONTINUE TO SUPPORT WHOMEVER IS DESTINED TO BECOME MY REPLACEMENT. I HAVE HAD THE PLEASURE OF SERVING YOU FOR MANY YEARS NOW AND AM GREATLY SADDENED BY BEING FORCED TO RESIGN UNDER CIRCUMSTANCES OVER WHICH I HAVE NO CONTROL.

PLEASE REMEMBER THAT NASWA AND FRENDX ARE ONLY AS GOOD AS THE GOOD SUPPORT THAT EACH AND EVERY ONE OF YOU HELPS IT TO BE. SO CONTINUE TO BE PROUD OF YOUR CLUB AND SUPPORT IT AND EACH OF THE FRENDX EDITORS EACH AND EVERY MONTH IN THE YEARS TO COME.

ONCE AGAIN, MY MOST SINCERE AND HEARFELT THANKS TO ONE AND ALL.

John
 JOHN F. HENAULT



LOG REPORTS

section B

4900 to 6199 kHz

Editor: Sheryl Paszkiewicz, 1015 Green Street, Manitowoc, WI 54220-6231

Welcome to LR-B. Things have been slow here this month but there are some interesting items nonetheless. I'd like to give a big round of applause to Jerry Berg, who has done a great job on LR-B over the past 7-8 years.

- 4904.5 CHAD, Rdf. Nat. in FR at 0504 on 7-12. End of nx by M, ID, Tribal chant, animal calls, Afr. mx, YL tk, ID. (Trotto-FL)
- 4910 HONDURAS, LV de Mosquitia, 0050-0303* 7/29. Folk, ranchera mx, Indian vocals, sev. IDs & QTH refs, guitar to 0303*, fair. (Jordan-PA)
- 4915 KENYA, Voice of Kenya, 1905, 6/20. Swahili ID, nx, lcl African mx, under Ghana. (Schulze-FRG)
- 4932 UNID, 2225-2235, 7/19. CH tk by M&W. Hrd sev. other days but nothing listed. Help Please. (Schulze-FRG) Ideas anyone?-ed
- 4935 PERU, R. Tropical, 0350-0404*, 6/19. ID, LA mx, "Buenos noches del amore." ID & QRGs, NA, s/off. (Schulze-FRG)
- 4940 COTE D'IVOIRE, Rdf. Ivoirienne, 0557*-0608, 8/01. IS to 0559 choral anthem, 0600 ID, s/on anncmts by OM, "Ici Abidjan, Rdf. Ivoirienne." Nx to 0605, //6015, hilife mx. SIO-252. (D'Angelo-PA) 0600* anthem, FR ID, good. (Wood-HI, 7/07) Richard notes former name Ivory Coast forbidden by govt., mail bearing it may be ret'd. 0625, 7/12 w/interview, ID. (Trotto-FL)
- 4945 BRAZIL, RN Porto Velho, 7/13 & 14, 0110-0258 w/hvy QRM from Caracol, tk, sportscast, ID, TC, slogans, mx. (Jordan-PA)
- 4945 COLOMBIA, Caracol Neiva, 0410-0420 w/YL tk, jingles, ID 0417. (Boone-TX)
- 4958 AZERBAIJAN SSR, R. Baku, 1730-1802, 7/06. Azerbaijani, sev. ments. Azerbaijani by OM, pop mx, organ IS, ID, fair. (Dillon-GREECE)
- 4970 VENEZUELA, R. Rumbos, 0417-0430, 8/05. ID 0418, ads for "Banco Nacional de Venezuela," IDs, LA pop mx. (Boone-TX)
- 4975 PAZDZHIK SSR, Dushanbe, 1705-1730 in RS, 7/06. M ment. Moscow, America, piano mx, opera, RM IS 1730. (Dillon-GREECE)
- 4976 BRAZIL, R. Timbira, 2140-2148, 6/19. ID, sports, echo effects, very fast tk, jingle IDs. (Schulze-FRG)
- 4980 SWAZILAND, R. Paralelo 27, 0600 s/on, 7/07. 1st bars of PT NA "Heroes do Mar," ID, "R. Paralelo Vinte e sote, para os portugueses na Africa austral," 1st bars of "Lisboa antiga," into PT pgm, good. (Wood-HI) Nice log, Richard-ed.
- 4990 IRAN, VOIRI, 1545, 7/04 in Farsi. Tlk on independence of Islamic Rep. of Iran; good. (Wood-HI) 1645-1705, 7/06 in Farsi, discussion of Iran, Kurdistan, Iraq, ID. QRM from Yerevan. //15084. Fair-poor. (Dillon-GREECE)
- 4990 PERU, R. Ancash, 0325-0330, 7/16. ID, TC, OA mx, "La musica del Peru." (Schulze-FRG)
- 5010rf SINGAPORE, R. One, 1550-1605*, EG reactivated freq., //5052, 11940, 7704. Western pops, EG ID 1600, nx, orch. anthem, s/off. This freq. once used by BFBS Singapore. (Wood-HI)
- 5015 BRAZIL, R. Pioneira Teresina, 0212-0240, 7/22. Rel. pgm., slow rel. mx. 0302 recheck--clear ID by W. (Schulze-FRG)
- 5015 ECUADOR, Escuelas Radiofonicas Pop., 2010-0215, 6/12. ID, LA mx. (Schulze-FRG)
- 5020 SOLOMON ISLANDS, SIBC, 0800, 7/20. OM w/nx in Pidgin, many ments Solomons tho no clear ID. SIO-353. (Laves-TX)
- 5030 COSTA RICA, R. Impacto, 1050, 7/28. Rpt. on upcoming Nicaraguan election. SIO-433. (Anywodi-VA) 1100* on 7/25, sev. IDs, light pop mx, buried Los Andes, Peru. (Trotto-FL)
- 5030 PERU, R. Los Andes, 1050, 7/25. ID "LV de Los Andes," tk, mx, lost to Impacto 1052. (Trotto-FL)
- 5035 BRAZIL, R. Aparecida, 2122, 6/02. Fast tk, Vocals by group. (Schulze-FRG)
- 5040 ECUADOR, LV del Upano, 0300-0310*, 7/09. ID & s/off anncmts. (Schulze-FRG)
- 5040 VENEZUELA, R. Maturin, 0310-0400*, 7/09. ID, musica romantica, NA, s/off. (Schulze-FRG) 0340-0344, 7/23, ID, jingles, Radio Rumbos nx, listened past 0400, never ret'd. (D'Angelo-PA) 0333 on 7/31, Rumbos nx, IDs, calls, unid. anthems, YV NA 0356, SIO-242. (Laves-TX)

- 5045 BRAZIL, RC do Para, 0250-0302, 7/19. Pop vocals, ID by YL, tlk by OM, mx feature. (D'Angelo-PA)
- 5052 SINGAPORE, R. One, 1717-1803*, 7/15. EG ID, phone interview, time pips, ID, NA, short mx piece, s/off. (Schulze-FRG)
- 5055 COSTA RICA, Faro del Caribe, 0400-0415*, 7/19. EG rel. prgm. SP closing annmets, s/off. (Schulze-FRG) 0420-0430, 8/05. Long tlks, ments. "Dios," no clr ID, quick fade. (Boone-TX) 1040, 7/28. OM preaching, rel. mx. (Anywodi, VA)
- 5055 ECUADOR, R. Catolica Nacional, 0415-0502, 7/19. ID, rel. prgm. (Schulze-FRG)
- 5057 ALBANIA, Gjirokaster, 1614-1650, 7/07. Albanian pop mx, YL DJ, Balkan mx 1630, ID 1645, children singing. (Dillon-GREECE)
- 5060 ECUADOR, Sis. Emisoras Atalaya, 0152-0210, 6/12, 19. LA mx, ID, TC, phone call. (Schulze-FRG)
- 5060 ECUADOR, RN Progreso, 1107, 8/08. Annmets & ads ment. Loja. ID 1115, "Emisoras Progreso." SIO=242. (Laves-TX)
- 5066 ZAIRE, R. CANDIP, 0320-0329 s/on, 6/19. Native drums, ID in FR, African folk mx. (Schulze-FRG)
- 5163 CHINA, CPBS-2, Xian, 1130, 7/11. Poss. ID by W, clx CH mx, YL tlk, more clx mx, SIO=333. (Trotto-FL)
- 5256 INDONESIA, RRI Sibolga, 1735-1748, 7/13. IN tlk, pop mx, ment. Indonesia, 1859 recheck--ID by M, SCI, nx, (Schulze-FRG) Nice Indo logging, Roland-ed.
- 5280 WEST GERMANY, DW-Elmshorn, 0112-0123, 7/20. EG nx, mx pieces, YL anncr. (Tuchscherer-WI)
- 5282 PERU, R. Onda Popular, 0249-0302, 7/04. LA songs, 2 clr IDs, down a bit in freq. (Tuchscherer-WI)
- 5800 CHINA, Urumqi, 1530, 7/07. Western & Uighur mx, phone no. for mx requests, //4735, both good. (Wood, HI)
- 5894 INDONESIA, RRI Pekanbaru, 1555, 7/04. Christian rel. prgm, end w/Amen, rel. mx, ID, "Inilah RRI Pekanbaru, selamat," to 1559* w/o anthem, no here to avoid CPBS China 5880. (Wood-HI)
- 5900 ISRAEL, VO Israel, HS Pgm D, 1737-1819, 7/09. In AR w/old Egyptian mx, ID 1800, "Sawt Israel," ute QRM. (Dillon-GREECE)
- 5965 ECUADOR, LV del Upano, 1131, 7/08. ID, brief mx, ID 1132, YL tlk, SIO=333. (Trotto-FL)
- 5975 COLOMBIA, R. Macarena, 0730, 7/08. "R. Macarena desde Villavencio," cumbias, good after BBC s/off. (Wood-HI) 0614, 7/26, sad ballads, TC, IDs, SIO=353. (Laves-TX)
- 5979.2 MEXICO, XEUJ, 1317, 8/07. Canned prgm, ID, rel prgm w/Indiana QTH, "Esta es internacional XEUJ, 5980 kHz. . Mexico." Ranchera mx, SIO=222. (Laves-TX)
- 5982 GUATEMALA, AWR, 0218-0237, 7/22. EZL rel. vocals, ID, prgm annemt, inspiration vocals, QRM from WYFR 5985. (D'Angelo-PA) 1245, 7/17. Rel. mx & tlk, ID, "R. Adventista Mundial Latino Americana." SIO=222 in slop. (Laves-TX) 2148, 7/09. EZL mx, tlk, ID 2158, clx mx, tlk by YL, SIO=443. (Trotto-FL)
- 5985 MEXICO, RMI, 1310-1320, 8/06. YL & OM in heated discussion, poss. political, ID 1313. (Boone-TX)
- 5985 USA, VOFC via WYFR, 0232, 7/29. Mx, song "Money Brings Bad Luck," asked for rpts, SIO=433. (Levison-PA)
- 6005 ASCENSION, BBC relay, 0315, 8/01. "World Today." (Boone-TX)
- 6011 VENEZUELA, R. Los Andes 1040, 1030, 7/31. ID, prices in ads in Bolivares, ment. Merida, rancheras, balada. (Laves-TX)
- 6020t MEXICO, El Eco de Sotavento, 1330, 8/06. Ment. "Cinco de Mayo," EG pops, no ID. Faded 1345. (Boone-TX)
- 6045 MEXICO, R. Universidad, 1258, 8/07. NA, "Pomp & Circumstance," ID, sked, clx mx. (Laves-TX)
- 6055 RWANDA, Kigali, 7/05. ID, Kinyarwanda nx, lang. resembles Swahili but throatier. (Wood-HI)
- 6065 COLOMBIA, R. Super, ads, TC, ID 1008, 8/08. SIO=322. (Laves-TX)
- 6075 USA, R. Marti, 1012, 6/23. "Mantengase con R. Marti," tlk on Miami's Cuban community. (Wood-HI)
- 6080 AUSTRALIA, RA-Shepparton, 1140, 8/05. ID, pop mx, very weak. (Boone)
- 6117 PERU, R. Union, 0715, 7/27. Vocals, TC, ads, some IDs. (D'Angelo)
- 6130 LAOS, Vientiane, 1600*, 6/14. ID, anthem. (Wood-HI)
- 6160 UNITED, 1440, 7/05. Good sig, EZL mx. (Trotto-FL) CKZN?--ed.
- 6170 COLOMBIA, LV de la Selva, 0935, 7/31. Balada, ID, (Laves-TX)
- 6185 MEXICO, R. Educacion, 0611, 7/24; 1400, 8/6. (Tuch. & Boone) 73 sp



LOG REPORT

section C

6200 to 11699 kHz

Editor: Jerry Ervine, Box 5204, Hidalgo, TX 78557

- 6214 INTERNATIONAL WATERS R.Caroline 0303-0315 EG Rock vocals, om DJ, ID's 'Caroline 558' SIO-2+52 (D'Angelo-PA 7/19)
- 6280 LEBANON Vo Hope 1755-1810 RS om w/tk Rel Piano mx, EG/ID, 'This is theVoice of Hope, broadcasting from So.Lebanon'(Dillon-Greece
- 6480 KOREA, REP RK 1811-1830 AR end of nx, ID, om w/cmtry, yl ancr.p. (Dillon-Greece 7/12)
- 6540 KOREA, PDR RP 1830-1850* AR operatio Korean mx w/yl ancr, f. (Dillon-Greece 7/12)
- 6550 LEBANAN Vo Lebanon 1811-1830 AR FR pop mx, ads including some for baby products. nx @ 1815, AR mx, poem by child; g. (Dillon-GR)
- 6578 KOREA, DPR RP 1830-1848 SP ID patriotic tk, choral mx, tk, s/off w/NA; g. (Dillon-Greece 7/13)
- 7115 SWAZILAND TWR *1555 IS, EG ID, 1600 Afro choir?, not// 9550; g. (Wood-HI 6/14)
- 7125 GUINEA Voix de la Revolution 0710-0738 FR om w/nx, w/soft guitar mx interludes; ID. SIO-353 (D'Angelo-PA 7/27)
- 7200 SOMALIA RM 2000-2101 AR nx, lcl mx, Q'ran, NA w/choir (Schulze-FRG 6/19 +20) /1555 SO mx, 1600 SO ID, nx; g. Wood-HI 6/14)
- 7200 NO. KOREA RP *1100 I, CH, ID, s/on nx//7230, both g. (Wood-HI 7/7)
- 7210 SO. AFRICA RSA not listed ORG 1650-1755 CH African folk mx, nx, mx. s/off. (Schulze-FRG 7/3 + 4)-not listed in WRTH '88.
- 7430 GREECE VoG 0130 EG? wid, lcl nx, pop mx, vocals. SINPO-45434 //9420, 11645. Bauernhuber-NY 8/10)
- 7520 MEXICOR. constatida 0448 SP Latin mx, Id by om, cw QRM ussb. SIO-333 (Trotto-FL 7-2)
- 7412 PIRATE 'Secret Mountain Laboratory' 0400 EG ID by om, commercial spoof. mx, ID, s/off. SIO-333 (Trotto-FL 7/3/88)
- 7670 BULGARIA Stolnik, home svc. 0320-0345 BU pop vocals, ID by yl, mx bridge & nx by om. SIO-333 (D'Angelo-PA 7/28)
- 7820 CHINA, PR RB 1244 EG om & yl reading letters on 'Letter Box', CH mx. fast fadeout; SIO-343 (Trotto-Fl 7/17)
- 9345 KOREA, DPR RP 1620-1645 FR current affairs, mx, ID, nx (Dillon-Gr)
- 9400 CHINA, PR CPBS 1455 CH 'Helmsman' anthem, ID, s/off 1456*, g. // 9390 also g. (Wood-HI 7/1) / 1020 inst. mx w/audience applause; // 11630. SIO-242 (Anywodi-VA 7/30)
- 9480 TURKEY VoT *0355 Turkish? IS, NA, ID, tk by yl ancr, time pips at 0400, yl w/nx, ID. SIO-444 (Trotto-FL 7/18) / 1950-2005 ME songs, pips, ID & tk. f-g w/QRN; up from 9445. (Buer-FL 6/16)
- 9465 mariana is. KFBS 1530 RS 'Golos very' (V of Faith) RS transcription, ID, more trans from California; g. (Wood-HI 7/1)
- 9474 PAKISTAN RP *1545* UR s/off. ancd beam to Saudi Arabia and Gulf countries. 'Pakistan Zindabad' slogan, poor mod; not //9775. g. (Wood-HI 7/5)
- 9475 EGYPT R. CAIRO 0215 AR chants; EG nx by om. 24222 (Bauernhuber-NY
- 9525 BANGLADESH RB 1840-1958 .not listed WRTH '88. //7505 EG p. rec. R. Polonia QRM in AR 9525. 1921 Bengali, EG ID by om. (Schulze-FRG
- 9530 USSR RM 2220-2300* EG test tones, erratic, tk by yl, nx head-lines, tk @ festivals (Jordan-PA
- 9540 CZECHOSLOVAKIA RP 0209-0229 SP om, yl w/nx, ID (Tuchscherer-WI)
- 9545 colombia is. SIBC 0730 EG om ancr w/ID, soft drink comm. nx, ID SIO-343 (Trotto-FL 7/3)

9550 SWAZILAND TWR *1555 EG IS, ID 1800 health tk, g. (Wood-HI 8/14)
 9550 INDIA RIA (Alligahr?) 2105-2120 EG nx, reports, lcl mx. (Schulze)
 9605 ANTIGUA DW *0300 EG IS, tmx site ID, freq, nx, ID, cmtry, 'Let
 ter from Cologne', ID, melody time, SIO-444 (Trotto-FL 7/25)
 9610 AUSTRALIA VLW9 1950-2030 EG ID reports, nx on hour. (Schulze-FRG)
 9618 MOZAMBIQUE RM 1525 PT ID, DJ show, US mx, Lisbon-style PT accent
 g. (Wood-HI 8/26)
 9630 SPAIN REE 0150 EGG language lesson, // 11880 (better rec.) s/off
 @0155. SINPO-44334 (Bauernhuber-NY 8/10)
 9645 AUSTRALIA RA-Darwin 1108-1138 EG wld nx, ID, Aussie nx, mx to
 'Soundasort' SIO-232. (D'Angelo-PA 8/1)
 9655 THAILAND RT orchid cd, sked, ltr(Eckman-CA)
 9655 CUBA RH 0210 EG wld nx, Om, yl ancra. 'Spotytlight on Latin Amer-
 ica' SINPO-55555 (Bauernhuber-NY 8/10)
 9660 USA BBC relay via Cincinnati to C.Am. 0320 EG ex. (Foell-LA)
 9680 INDONESIA RRI Jakarta 1502-1515 Waska Berita ID, 54333 (Schulze)
 9710 USA KNLS-ALASKA 1200 RR?? mixw/R.Australia IS, 'Chariots of Fire'
 booming in. yl w/ID into nx. SIO-322 (Worob-TX 7/28)
 9715 NETH ANTILLES RNW 0555 EG 'MEDIA NETWORK' W/ ANARC Convention
 highlights (my 1st Anarcon, get well Mike Harris!) WYFR QRM; f.
 (Park-HI 7/29)
 9725 SWITZERLAND SRI 0200 EG? wld nx, cmtry on Swiss reaction to wld
 peace progress. SINPO-44334 //0885 (Bauernhuber-NY 8/10)
 9730 GERMANY DDR RBI 0007 EG rpt on wld economy, 'Panorama'-medical
 comments. SIO-434 (Levison-PA 7/9) / *0145 IS, ID by yl, previews
 nx, ID, nx. SIO-333 (Trotto-FL 7/25)
 9775 BANGLADESH RB 1450-1503 URDU Indian-style mx, ID in EG & Bengali
 pxoff but carrier remaind, QRM de RMWS. f. (Dillon-Greece 7/2)
 9775 PAKISTAN RP 1540 URDU film mx, GOS net //9474 g. (Wood-HI 7/5)
 9800 PHILIPPINES FEBC 1300 CH 1234 om tk, flute mx, tk, piano mx,
 fading 1300. yl w/ IS, ID. SIO-423 (Worob-TX 7/29)
 9840 VIETNAM VoV 1020 EG tk by yl, mx tag, tk abt coffee. SIO-232
 //15009.7 (better) (Anywodi-VA 7/29)
 9885 SWITZERLAND SRI 0203 EG nx, cmtry on Swiss metal & machine
 industries. SIO-444 (Levison-PA 7/14)
 9895 GUAM KTWR 1502* IS s/off; g. then RMWS in clear. Wood-HI 7/1)
 9900 EGYPT R.Cairo 1835-1855 IT ID byyl ment Am. classical mx. audio
 p. f. (Dillon-Greece 7/19)
 9910 INDIA AIR 1815-1835 AR yl ancw/ment of initials A.I.R. in EG,
 Indian mx, xmt hum, popping f. (Dillon-Greece 7/19)
 9935 GREECE Thessaloniki 1758-1815 GR mx, tps, ID by yl, ezl-type
 Gr mx. vg. (Dillon-Greece 7/9)
 9950 PERU R. del Pqcfico 0232-0327 SP balada, ID, speech, recuerdo
 (Paszkiewicz-WI 7/24)
 9960 CLANDESTINE R.Caiman (Cent.Am.) 1231 SP om tk, hvy lcl QRN, lots
 of Of IDs. SIO-423 (Worob-TX 7/29)
 11150 USA VOA feeder 0217-0232 SP nature tk by om, ID, mx (Tuchscherer)
 11550 TUNISIA RTT 2108-2144 AR stronf w/ ME mx, Ar tk, ID (Tuchscherer)
 11570 PAKISTAN RP 1746-1812 EG vocal mx pgm by om, ID, nx (D'Angelo)
 11595 GREECE cent. R.Makedonias-Greekhs 0904 GR yl w/ID?, nice GR mx.
 yl tk. SIO-232 (Trotto-FL 7/3)
 11600 CHINA, PR RB 1738 EG "views and Issues" rpt on CH lucky day
 8/8/88, lang lesson. QRN (Park-HI 8/8/88)
 11615 PAKISTAN RP 1545 choral anthem 'Pakistan Sindabad' 1546* s/off
 g. (Wood-HI 6/28)
 11660 BELGIUM RTBF 0425-0500 FR IS, ID, nx, TC, vocals. (Paszkie-
 wicz-WI 7/03)



LOG REPORT

section D

11700 and above

Editor: Wallace C. Treibel, 357 N.E. 149 St., Seattle, WA 98155

- 11710 ARGENTINA RAE in JP 0958, 8 note IS, ID in several langs (Anywodi VA 7/11)
- 11715 MALI R. Beijing relay in EG 0305, world & local nx, features (Levison PA 7/29)
- 11735 NO. KOREA R. Pyongyang in KR 1007, harsh tlk, martial mx, ID (Trotto FL 7/3)
- 11760 UNITED KINGDOM VOA relay in EG 2016, jazz w/Woody Herman band (Tuchscherer WI)
- 11765 DENMARK RD in DN *2400, ID in EG/DN but pgn all DN, g (Trotto FL 7/20)
- 11780 JAPAN RJ in EG 1434, "Japan Panorama" on JP ghosts, ID (Anywodi VA 7/27)
- 11785 EAST GERMANY RBI in EG 0223, solar propagation rpt, ID, f (Foell LA 8/2)
- 11795 IRAQ BSRI in AR 1600, ID, no longer Voice of the Masses on SW, g (Wood HI 6/28)
- 11805 GUAM KIWR in EG 1000, ID, "Pacific DX Report"; relig pitch, f (Anywodi VA 7/16)
- 11805 BRAZIL R. Globo in PT 2327, ID, nx, commercials, jingles, f (D'Angelo PA 7/25)
- 11810 GUAM KSDA in EG 1559, ID, aims of station stated at 1600*, g (Wood HI 6/28)
- 11835 SRI LANKA SLBC in EG 1049, nx, ID, songs, f-g (Anywodi VA 8/1)
- 11850 PHILIPPINE IS. FEBC in EG 1557, sked in Indian ST & UTC, IS, g (Wood HI 6/28)
- 11860 CHINA R. Beijing in EG 0335, letters from listeners, exc (Foell LA 7/27) in EG 0300-0400 w/topical nx, several features & commentaries, vg (Jordan PA 8/1)
- 11860 ALASKA KNLS in RS *0700, "Chariots of Fire" IS, ID's, feature (Laves TX 7/29)
- 11865 SEYCHELLES FEBA in EG 1515, anncd freq changes, into "Hobby of Kings" (Wood HI)
- 11865 MONGOLIA Ulan Bator in MG 1000, ID, nx, not on 11855, no //s noted, g (Wood HI)
- 11890 OMAN R. Oman in AR 2046, AR songs, VOA QRM from 2116 most days (Tuchscherer WI)
- 11904 BRAZIL R. Universo in PT 0356, strident speeches, ID's, mx (Tuchscherer WI 7/22) in PT 0743, nx, canned ID, freqs, ad, folk songs, f (D'Angelo PA 7/27)
- 11915nf SEYCHELLES FEBA in Parsi? 2003, religious pgn, clear under VOA (Schulze 6/2)
- 11950 USSR Radiostantsiya in EG *1900-1950, "Midnight in Moscow" theme, then RM IS, ID & xmsn target (UK & Ireland), nx, tlks on Armenian problems, f (Jordan PA 7/30)
- 11980 GUAM KSDA in EG 1500, ID, request rpts to Hong Kong address, g (Wood HI 7/1)
- 11990 KUWAIT RK in AR 1517, ID, Islamic sermon, g (Wood HI 6/13)
- 11990 CZECHOSLOVAKIA R. Prague in EG 0132, cmntry on health & transp (Levison PA 7/8)
- 13360nf COSTA RICA R. for Peace Intl in EG 0350, tlk, mx, ID, deep fades (Schulze 7/10)
- 13675nf PAKISTAN RP in lang? 1400, bulletins in presumed Urdu & mx (Tuchscherer WI 7/26)
- 13700 NETHERLANDS RNW Flevo in DT 1729, freqs, IS, 6 pips, nx, f (Park HI 8/8)
- 13770usb ICELAND ISBS in Icelandic 1905, nx, rpts, abrupt off 1930 (Schulze 7/6)
- 13867nf CHINA R. Beijing in lang? 1848-1857*, faint tlks in Euro lang, lute mx, closing IS, p (possibly a harmonic?) (Park HI 7/30) ED: Anyone else help on this one?
- 15084 IRAN VOIRI in Parsi 1405, Pink Panther theme, interviews, mx (Dillon GREECE 7/2)
- 15095nf SYRIA R. Damascus in EG 2025, ME songs, TC, "Arab Literature", ID, vg (Buer FL) in EG 2150-2205*, ME mx, news bulletins, ID, vg (Tuchscherer WI 7/29)
- 15149 INDONESIA VOI in EG 1543, ID, //11789, both good (Wood HI 6/21)
- 15150 NEW ZEALAND RNZ in EG 0405, American pop mx show, p (Foell LA 7/27)
- 15155 INDIA AIR Delhi in EG 1200, ID, nx, g but humming modulation (Wood HI 7/7)
- 15160 AUSTRALIA RA in EG 2124, mx by Croce & Moyet, ID, church rock, p (Park HI 8/4)
- 15165 NORWAY RNI in EG/NO 0700, ID, nx in NO, g (Wood HI 7/6)
- 15171 TAHITI Papeete in TT 0415, ID, nx, south sea mx, splatter at 0459 (Schulze 7/10)
- 15240 YUGOSLAVIA RY in EG 1430, nx, mx, QRM fr R. Berlin AR pgn, f (Eckman CA 7/7)
- 15260 CHINA R. Beijing in CH *1000-1055*, Cantonese IS, ID, nx, g (Wood HI 6/23)
- 15295 MALAYSIA VOM in EG 0654, mx of India, "Winchester Cathedral", g (Wood HI 7/6)
- 15305 CANADA RCI in RS 1330, nx, rpt on cancer research, DX pgn, g (Anywodi VA 7/28)
- 15310 SEYCHELLES FEBA in AR 0345, IS, ID, relig? pgn, tlk, exc (Laskowski IN 7/26)
- 15330 ITALY RAI in EG 0352, political tlk, pop mx, ID, //11905, p (Jordan PA 7/28)
- 15390 SWEDEN RS in SW 0600, ID, folk mx, g (Wood HI 7/5) in PT? 1957, continuous IS then lost to WGSN s/on, not logged here in 5 yrs, p (Park HI 7/23)
- 15425 MALTA D Welle relay in SP 0025-0050*, "Musica Popular", EG ID (Tuchscherer 7/2)
- 15425 SRI LANKA SLBC in EG 0157, "Back to the Bible", pips, nx, f (Trotto FL 7/7)
- 15450 LIBYA V. of the Great Arab Homeland in AR 1845, AR mx, ID, statement re Qadhafi, then lesson from Green Book accom by dramatic classical mx (Dillon GREECE 7/11)
- 15465 PHILIPPINE IS. FEBC in EG 2328, ID, IS, into unknown lang-Khmer? (Schulze 6/21)
- 15505 KUWAIT RK in AR 2040, AR instrum & vocals, pips 2100, nx, vg (Jordan PA 8/3)
- 15659nf ICELAND ISBS in Icelandic 1937, ID "Utvarp Reykjavik", nx?, //13770 (Laves TX) in Icelandic 1214-1245*, nx, skeds, freqs (Tuchscherer WI) in Icel. 1903-1930* nx rpts w/many mentions of Reykjavik (Jordan PA) //17558 at 1939, nx (Schulze)

- 15675 CHINA CPBS Minority Lang Service 1210 Uighur nx, //11375, 11675, g (Wood HI 7/7)
 17575 MADAGASCAR R. Nederlands relay in EG 0916, "Media Network", f (Park HI 8/4)
 17660 PAKISTAN RP in EG 0239-0245*, YL w/nx (Tuchscherer WI) tlks in lang? 0228, mx
 bridge, ID in EG 0230, slo-speed nx, off at 0245, f (Laves TX 8/1)
 17710nf BANGLADESH RB in EG 1230, IS, ID, nx, //15195 under VOA in SP (Anywodi VA 8/1)
 17720 EGYPT R. Cairo in AR 0010-0044*, nx, AR mx bridge, brief tlk, AR vocals mixed
 w/tlks, prayers 0040, //15220, f-g (Jordan PA 7/13)
 17770 IRAQ R. Baghdad in AR 0300-0410, nx, ME mx, ID, prayers, f-p (Jordan PA 7/31)
 17780 UNITED ARAB EMIRATES R. Dubai in EG 0730, nx w/British accent, g (Wood HI 7/8)
 17785 INDIA AIR in lang? 0540, ID, xmtr problems, poor modul & breaks (Schulze 7/10)
 17795 FINLAND R. Finland w/Kantele IS 0955, off 0956, g (Wood HI 6/23)
 17820 SEYCHELLES FEBA in EG 0530, ID, nx, "Middle East Focus", relig tlk 0559, IS at
 0629 then off, FEBA EG svce to ME listed 06-07 Fridays only, f-p (Laves TX 7/29)
 17820 USSR R. Moscow in EG 1203, nx, Vladimir Posner's "Top Priority", f (Park HI 7/25)
 17840usb SWEDEN RSI in EG 0230-0257*, rpt on pollution caused virus killing seals off
 Baltic coast, several other features, vg (Jordan PA 7/31)
 17865 WEST GERMANY D. Welle in GM 2200, nx, ID, f-g (Foell LA 7/31)
 17865 GUAM KSDA in EG 0256, "Voice of Prophecy", CH lute mx, f (Park HI 7/26)
 18050 PAKISTAN RP in AR 0550, Indian & Arabic mx, ID, //15566 (Schulze 7/10)
 21480 MADAGASCAR R. Nederlands relay in EG 1135, "Happy Station" show, f (Park HI 8/7)
 21575 SPAIN REE in SP 1608, DJ show, requests, sports nx, g (Wood HI 7/4)
 21630nf USSR R. Moscow 0530 w/"Russian by Radio", ID, nx (Schulze 7/10)
 21690nf NO. KOREA R. Pyongyang in CH *0700, IS, ID, sked, nx, f (Wood HI 6/15)
 21700 GABON R. Japan relay in JP 1602, nx, sports, JP mx, vg (Dillon GREECE 7/2)

 A few slips failed to include the time of the logging so were not included above. Also
 loggings that were published in last month's FRENDX were not repeated. Some loggings did
 not include the location of the reception or the date. Please be sure this information is
 included. Thanks again to those of you who arranged your loggings in frequency order.



August 1988

 Roger Legge, Box 214A, Etlan, VA 22719, USA

Subscription: 8 Issues

 \$3 N. America, \$5 Overseas

After nearly two years of a continuing series of personal, family and financial crises, and recently moving from Arlington to my farm in the Blue Ridge area of Virginia, I am finally able to publish at least an occasional issue of UHN. The recent rapid rise from the Sunspot Low, providing improved reception conditions on the higher bands, is also a help.

This is going to press a bit early this month due to vacations. Some schedule changes for the S-88 season are in hand... thanks to George Jacobs... and Beijing was noted with a new WNA frequency at 1500. Norway sent along an update as well. Thanks to Dave Alpert for BBC Waveguide.

Somebody ought to tell Austria they goofed on the 1130 UT transmission to NA on 15320. Listening on the weekends, I am hearing it an average of one week out of three. At 1130 the band isn't open yet, and the signal only gets decent toward 1230 UT sign-off.

Don't forget about the ANARC SWL Net, Sundays at 1400 UT, on 7240 kHz. Lots of interesting things are discussed there.

Pinelands RBBS News: The SHORTWAVE echo has been expanded to hold 300 messages so those of you who call less frequently get a chance to catch up on your readings before the messages roll over. Messages more than 30 days old also are dropped automatically. By mid-September the Pinelands RBBS should also have its FIDO mail address to facilitate messaging around the world. With FIDO, for example, you can leave mail for George Wood. Jonathan Marks, by the way, shows up regularly in both the SHORTWAVE echo and in the SWL conference, if you wish to leave mail for him.

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-----
Thomas R. Sundstrom      |           Telex: 6502446376 (via WUI)
PO Box 2275              |           MCI Mail: 244-6376
Vincetown               |           The Source: BCF811
NJ 08088-2275           |           Compuserve: (send via MCI Mail)
                        |           Packet Radio: W2XQ @ WB2MNF
                        |           Pinelands RBBS: 609-859-1910
  
```

FOR SALE: Version 2.02 of the program that manipulates the data files and produces these listings for FRENDX is now available. What you don't see here are the by-country listings which make it easier to find a particular station in a given day. You can now browse the schedules and dx shows by country or day/time; you don't have to print the reports to use the data. Speed improvements, easier to use. For the PC, PC/AT and compatibles, minimum RAM requirements is 400K after DOS and other memory-resident programs are loaded. \$20 includes shipping (NJ residents add \$1.20 sales tax), check or money order payable to TRS Consultants, PO Box 2275, Vincetown, NJ 08088-2275. The current data files are always included, and updates are available should you choose not to update files yourself.

Changes entered between 07/31/88 and 08/15/88.

ENGLISH LANGUAGE SW PROGRAMS SCHEDULES: By Start Time

Coedited by Thomas R. Sundstrom, W2IG

Start End Time	UTC	Country	Station	Freq MHz	Freq kHz	Freq MHz	Freq kHz	Freq MHz	Freq kHz	Target Area	Notes	Record Last Updated
0600	0030	Norway	R Norway	11850	7620					EM/CA/SA	Eng Mon only	06/13/88
0600	0200	USA	WCSN	7850						N Afr	90 deg	06/13/88
0600	0200	USA	WFI	5495	7365					Eu/CA/SA		06/13/88
0630	0230	England	BBC	5915	9575	7225	5175			World Service/NA	9560-04/9575-Antigua	06/13/88
0100	0400	USA	KVOR	13695						Car/Carib	100 deg	06/13/88
0200	0400	USA	WCSN	5850						E Afr	75 deg	06/13/88
0200	0300	USA	WFI	5495						CA/SA		06/13/88
0230	0330	England	BBC	5915	9660	7325	6175	5975		World Service/NA	9560-04/6175-Sackv	06/13/88
0300	0430	USA	WFI	9495	7355					Eu/CA/SA		06/13/88
0330	0430	England	BBC	5915	5975					World Service/NA	5975 Antigua	06/13/88
0400	0500	China	P Beijing	15240	15180					NA		06/13/88
0400	0430	Norway	R Norway	11760	9650					ME/E Afr/NA	Eng Mon only	06/13/88
0400	0600	USA	WFI	5495	7400					Eu/CA/SA		06/13/88
0430	0545	England	BBC	9510	5975					World Service/NA	9510 Sackville	06/13/88
0500	0530	Norway	R Norway	15165	11735					Eu/ME/Afr	Eng Mon only	06/13/88
0500	0700	USA	KUSM	6175						Canada	70 deg	06/13/88
0545	0600	England	BBC	5975						World Service/NA		06/13/88
0600	0800	Cuba	R Havana	11760	5975					Americas		06/13/88
0600	0730	England	BBC	9640	5975					World Service/NA		06/13/88
0600	0800	USA	WCSN	7365						World Service/NA	9640 Antigua	06/13/88
0600	0800	USA	WFI	5495	6100					Eu	60 deg	06/13/88
0600	1100	USA	WFI	7355						Eu/CA/SA		06/13/88
1000	1030	Norway	R Norway	21705	21565	15235				Afr/Eu/Eur/E/Aus/NZ	Eng Sun only	06/13/88
1100	1130	England	BBC	11775	9510	7325	6195	5965		World Service/NA	11775 Ant/5965 Sack	06/13/88
1100	1430	Swed	KSMA	11980	5465					As/Indonesia		06/13/88
1130	1345	England	BBC	11775	9510	7325	6195			World Service/NA	6195 Antigua	06/13/88
1300	1330	Norway	R Norway	21795	15310	9570	6035			NA/CA/Eu/SA	Eng Sun only	06/13/88
1400	1500	Swed	KSMA	5830						As		06/13/88

1400	1430	Norway	21700	15310	15280	15150	ME/At/NA/S	As/Eu/Aus	Eng Sun only	06/13/88	
1500	1600	China	15165	11600	7405		S	Asia/NA		06/13/88	
1500	1745	England	15260	11775			World Service/NA	15260	Sackville	06/13/88	
1500	1700	Gua	11810	9830			As/India			06/13/88	
1600	1630	Norway	21700	15310	9590		ME/E	At/NA/As	As	06/13/88	
1700	1800	Cuba	15295				Eu		Eng Sun only	06/13/88	
1700	1730	Norway	21700	15310	9655		Afr/NA/Eu		Eng Sun only	06/13/88	
1800	2000	N Mariana Is	9670				Japan		340 deg	06/13/88	
1900	1930	Norway	15310	15220	9590		NA/NZ/Eu		Eng Sun only	06/13/88	
1900	2200	USA	17715				Canada		70 deg	06/13/88	
1930	2030	China	11855	11515	9440	6955	World Afr			06/06/88	
2000	2200	England	12095	5975			World Service/NA		5975	Antigua	06/13/88
2000	2100	Gua	5995				As				06/13/88
2000	2200	N Mariana Is	9465				Japan		340 deg		06/13/88
2000	2030	Norway	15310	9590	6010		SA/NZ/Eu/N Afr		Eng Sun only		06/13/88
2000	0100	USA	17775				CA/Carib		100 deg		06/13/88
2000	2200	USA	9495				Eu		60 deg		06/13/88
2030	2100	Bulgaria	11750	11720	9700		Eu/NA				07/31/88

Changes entered between 07/31/88 and 08/15/88.

ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstrom, NZXB

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
2030	2130	China	R Beijing	11855	11515	9440	6955					NA/N Afr		06/06/88
2100	2200	Gua	KSDA	15125	5995							E As/Indon		06/13/88
2200	0030	England	BBC	12095	9915	9590	7325	6175	5775			World Service/NA		06/13/88
2200	0200	Gua	KSDA	15125	11750							As/SE As		06/13/88
2200	2230	Norway	R Norway	15180	11850							N Afr/SA	Eng Sun only	06/13/88
2200	2400	USA	WCSN	9495								N Afr	90 deg	06/13/88

The Marketplace Report is edited by Harold Sellers, Technical Editor for the Association of North American Radio Clubs. TMR is available to clubs, distributors, publishers and broadcasters, free of charge. Readers are invited to contribute news and information on equipment, companies and services of interest to radio listening enthusiasts. Our address is P.O. Box 161, Station "A", Willowdale, Ontario M2N 5S8, Canada.



The Kenwood RX-1 has been announced by Kenwood. Larry Magne says the price will be about US\$700. He also cautions that it may not be marketed in the United States due to the cellular phone band being covered by the set. The recently passed Electronic Communications Privacy legislation may prevent it. Otherwise look for it to be available in early 1988.

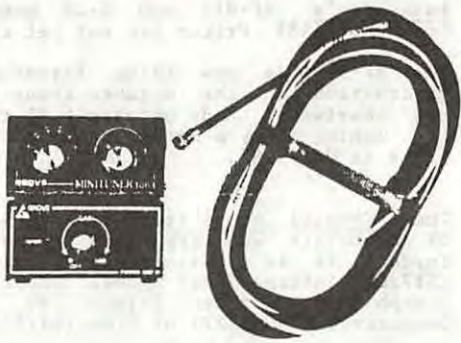
In Canada, Glenwood Trading Company Limited (278 East 1st St., North Vancouver, BC V7L 1B3, (604)984-0404) is listing the RX-1 in their 1988 catalog, but no delivery date or price is mentioned.

Radio Plus Electronics of Pensacola, Florida, has ceased operations due to the continuing illness of owner and operator Gerry Thomas. (via Monitoring Times)

Icom has plans for a new receiver in late 1988, according to Larry Magne on Shortwave Listeners Digest, November 15th. It will outperform the IC-R71 and include a spectrum analyzer. However the price is expected to be US\$3000 to \$4000.

Grove Hidden Antenna System

Grove Enterprises has put together a package that provides an antenna for 100 kHz through 1000 MHz. The Grove Power Ant III preamplifier and Mini-Tuner tun-3 antenna tuner are matched with the antenna to provide amplification, yet protection from intermodulation and image interference. The System costs US\$48 to \$100 depending upon options. Information is available from Grove Enterprises, P.O. Box 98, Brasstown, NC 28902 or by calling 1-704-837-9200.



Fair Radio Sales

Replacement assemblies and parts for the Collins R-390A, R-392 and R-648 receivers are just some of the items which were listed in Fair Radio's Fall 1987 Catalog Supplement. Their catalog is free from Fair Radio Sales Co., P.O. Box 1105, Lima, Ohio 45802, telephone (419) 227-6573 or 223-2196.

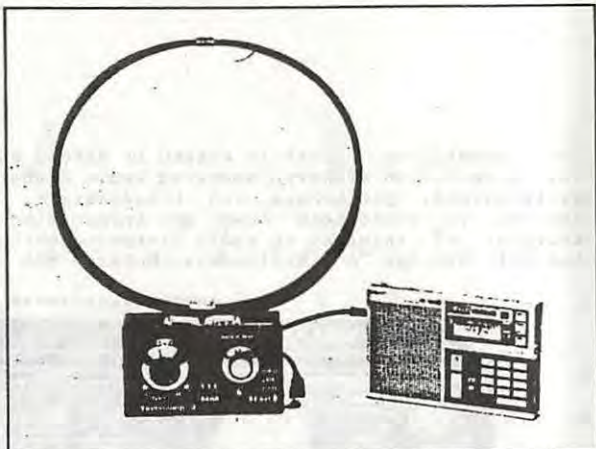
Techniloop 3 LW/MW/SW Loop

The antenna pictured here is manufactured in Australia by Technikit Electronics, 69 Sutherland Road, Armadale, VIC 3143, Australia.

The Techniloop 3 follows conventional aircore loop antenna theory, but the wooden frame has been eliminated. Flat ribbon cable has been used for the loop and it supports itself in a circular shape. The control box provided encloses an amplifier, tuning and switching controls.

The Techniloop comes as a kit, ready to assemble. The basic kit includes cabinet, circuit board, components, hardware and one set of loop components to make a loop for either 400 kHz-3.7 MHz or 1.6-24 MHz. This is kit TL3/S and is priced at A\$69.00.

Additional loop kits are the LF3 for 200 kHz-2 MHz at A\$24.50 and the CB3 for up to 28 MHz at A\$14.50. The SL3 loop is supplied with the basic antenna kit, but may be purchased separately for A\$14.50. It may be configured for either 400 kHz-3.7 MHz or 1.6-24 MHz. Air mail shipping is A\$18.50. Payments must be in Australian dollars by international money order or bank draft, payable to Technikit Electronics. Mastercard is also acceptable.



MFJ Enterprises has a new 1988 catalog listing all of their products. Included amongst the new items is the MFJ-956 SW/MW/LW Preselector/Tuner. Priced at US\$39.95 the MFJ-956 is an LC-circuit antenna tuning unit.

MFJ's address is Box 494, Mississippi State, MS 39762.

Panasonic's RF-B10 and B-40 models will be available in Canada in the Spring of 1988. Prices are not yet known.

The RF-B10 is now being introduced in the United States. According to information in the October issue of Monitoring Times, the RF-B10 covers six shortwave bands between 5.95 to 17.90 MHz, as well as mediumwave and FM. Tuning is by a manual knob and display is by an analog dial. The U.S. price is US\$79.95.

The Compswl Newsletter is a recently introduced newsletter for SWL and DX hobbyists who are also personal computer users. Edited by David Snyder, it is available for US\$5.00 within North America and 10 IRCs or US\$7.00 International Money Order overseas. Write to David Snyder, 127 Joseph Ave., Staten Island, NY 10314, USA or leave a message on CompuServe 71600,2272 or Fido 107/105.

Universal Shortwave Radio has just issued their latest catalog and if you don't have a copy you can write to 1280 Aida Drive, Reynoldsburg, OH 43068 and enclose US\$1 for a copy.

Universal now has a toll-free order number for residents of the United States (except Hawaii, Alaska and Ohio): 1-800-431-3939. Other customers may use the number 614-866-4267.

Electron Processing, Inc. produces the Signal Intensifier RF amplifier modules. These small modules would be useful to some shortwave listeners and hobbyists who live in concrete apartment buildings and such, where only a small piece of wire can be placed outside a window or balcony. Amplification is in the area of 13 dB and is low noise. The RFA-20 model covers 300 kHz to 50 MHz and comes with SO-239 connectors. The RFA-16B model covers 30 MHz to 1000 MHz and has F-type connectors. Other connector styles may be ordered. The price is US\$29.95 and further details are available from Electron Processing, Inc., P.O. Box 708, Medford, NY 11763, tel. (516)764-9798.

The Soltronic CC-2020 Cassette Controller is now available through Electronic Equipment Bank (516 Mill St., Vienna, VA 22180). It will allow automatic recording of a program while you are away from your radio by using the timer/alarm function on the radio. Receivers such as the Sony ICF-2010, 2002, 2003, 7700, Panasonic RF-B60 and Sangean ATS-801 and 803A are suitable. The price is US\$39.95.

Using an Oscilloscope as a Spectrum Analyzer

The November 1985 issue of QST described how to use a basic, low-frequency scope as a spectrum analyzer on your receiver or transceiver. Now a company has manufactured the adapter that you need to do this. A & A Engineering, 2521 W. La Palma, Unit K, Anaheim, CA 92801, tel. 714-952-2114 sell the 400-MHz Spectrum Analyzer Kit for US\$399.95. A 450-MHz kit, as well as assembled and tested units, will be available later.

Computer Control for the Kenwood R-5000

Ham Radio Outlet, Inc., and GRF Computer Services, Inc., have introduced a computer software system that allows control of many of the functions of the Kenwood R-5000 receiver and several transceivers, using an IBM PC/XT/AT computer. All functions controllable through the appropriate IF interface are supported by the software. Features include real-time display of all supported functions, VFO and memory channel selection, control of RIT and XIT functions, mode selection, control of memory scanning and other functions. TS-COMM is supplied with a 32-page instruction manual and costs US\$69.95 from Ham Radio Outlet, Inc., 2620 W La Palma, Anaheim, CA 92801, telephone 800-854-6046, 714-761-3033 or 213-860-2040. (via Rus Healy, June 1988 QST)

Interference Topics

Several items of interest can be found in the June 1988 copy of QST magazine.

First, there is at least one make of light-dimmer switches on the market with built-in RFI suppression. The NOVA series made by Lutron employ toroidal chokes. They are more expensive and harder to find than other types, however. (via Richard G. Brunner, MA)

AT & T sell an RFI filter for telephones. If you receive radio transmissions on your phone try the Z-100A filter, priced at US\$17.50 plus shipping. A similar model exists for wall-mount phones. Contact your AT&T office or call 1-800-222-3111.

The FCC and the Electronic Industries Association (EIA) have published a pamphlet called "Consumers Should Know Something About Interference". It is designed to assist consumers in the identification and resolution of common interference problems experienced on household products. Free from FCC Field Offices; FCC, Public Service Division, 1919 M St NW, Room 725, Washington, DC 20554; or Executive Director of Consumer Affairs, Electronic Industries Association, 2001 Eye St NW, Washington, DC 20006.

Electronic Equipment Bank

E.E.B. is now carrying the Novex receiver rack mounts. These are standard 19 inch aluminum panels which will allow you to mount your receiver in a 19" equipment rack. Mounts are available for many receivers and transceivers, including IC-R71A, R5000 and FRG9600.

Dressler ARA-900 Antenna

The Dressler ARA-900 active antenna is an improvement to the previous ARA-500 model. Gilfer Shortwave, 52 Park Avenue, Park Ridge, NJ 07656, telephone (201)391-7887, are a North American representative for Dressler and they do carry the ARA-900. The latest Gilfer catalog lists a version that covers 50 to 900 MHz, but a version covering up to 1300 MHz is now being advertised in Europe, so you might check with Gilfer about the availability of the 1300 MHz version.



Radio Shack

Radio Shack also now has a discone antenna for VHF and UHF, 25-1300 MHz. It can also be used for transmitting on certain bands. The catalog number is 20-013 and the price US\$59.95.

Panoramic Display for Kenwood R-5000

Reid Enterprises offers the PI-5K Panoramic Interface for Kenwood R-5000 owners. The PI-5K Panoramic Interface is a self-contained unit which plugs into the remote connector on the R-5000 and enables the receiver to be used with the Kenwood BS-8 Panoramic display module, giving a visual display of received signals within a small segment in the 30 kHz to 174 MHz range. The price is US\$59.95. A #10 stamped and self-addressed envelope may be sent to Reid Enterprises, 8123 Heatherton Lane, Suite 204, Vienna, VA 22180 for more information.

ERD-1 Active Antenna

The ERD-1 is a portable, indoor active antenna covering 150 kHz to 30 MHz. It is manufactured by Inline Components, 4521 Campus Drive #113, Irvine, California, telephone (714)720-8159.

Features are a 3' telescopic whip, internal 9 volt battery or use of external AC adapter, weight of 9 oz. including battery, gain of more than 10 dB over the frequency range and on-off switch. A cable is supplied to connect to most receivers. For mediumwave receivers using an internal ferrite loop an accessory probe or rod is supplied to magnetically couple the ERD-1 to the receiver's antenna.



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Author Mark W. Johnson has been involved with communications monitoring for over 15 years and works with emergency communications on a daily basis through his job as an Advanced Emergency Medical Technician. He has written extensively on communications subjects in such publications as Monitoring Times, Popular Communications, American Survival Guide, and newsletter of the Radio Communications Monitoring Association, among others. He holds advanced class amateur radio license N7DYS.

CRISIS COMMUNICATIONS: A Handbook for Emergency and Survival Radio Monitoring -- (84 pages, 8½ x 11 paperback) is priced at \$10.95 (plus \$1.25 shipping).

Available from: Tiare Publications, P.O. Box 493, Lake Geneva WI 53147

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