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Fourth Edition

by Bob Grove

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DXtra

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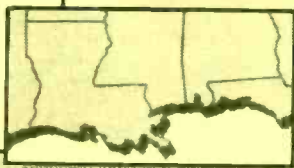
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FRENDX



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SOUTHERN U.S.A.

Future

Technical Data

Transmitters:

Two 500 Kilowatt
Manufacturer:
Brown Boveri Company,
Baden, Switzerland

Dipole Curtain Antenna:

6 MHz-12 MHz, 11 MHz-22 MHz
Lowband antenna tubes
6-79/11 MHz bands
Highband antenna tubes 11/15/17/21 MHz
bands and 13 band when authorized
Manufacturer:

Technology for Communications,
International (TCL)
Mountain View, California, U.S.A.

Geographic Target Areas

Central America, Caribbean,
East and West Latin America
Australia and New Zealand
East and West Canada



SCOTT'S CORNERS, MAINE, U.S.A.

Technical Data

Transmitter:

One 500 Kilowatt
Manufacturer:
Brown Boveri Company,
Baden, Switzerland

Dipole Curtain Antenna:

11 MHz-12 MHz, 11 MHz-22 MHz
Lowband antenna tubes
6-79/11 MHz bands
Highband antenna tubes 11/15/17/21 MHz
bands and 13 band when authorized
Manufacturer:
TCL

Mountain View, California, U.S.A.

Geographic Target Areas

North, East, Central and South Europe,
Western Soviet Union,
Middle East,
North, West, Central and Southern Africa

SAIPAN, MARIANA ISLANDS

Technical Data

Transmitters:

Present: One 100 Kilowatt
Future: Additional 100 Kilowatt
Manufacturers:

Present: Continental Electronics,
Dallas, Texas, U.S.A.

Future: Continental Electronics,
Dallas, Texas, U.S.A.

Dipole Curtain Antenna:

Present:
Tubes 9/11/15/17 MHz bands and
13 band when authorized
Second dipole antenna
Will tune as above

Manufacturer:

TCL
Mountain View, California, U.S.A.

Geographic Target Areas

Present: Japan and Korea
Future: China, India, Indonesia, Philippines,
East Africa, Australia and New Zealand



NASWA

NORTH AMERICAN SHORT WAVE ASSOCIATION

WILLIAM E. OLIVER
Executive Director/
Publisher - NASWA
45 Wildflower Road
Levittown, Pa. 19057

DXtra, the new NASWA publication, has generated a lot of interest in the five months it's been around. If you haven't yet seen this fine monthly achievement by Bob Hill, just send a 22¢ stamp to NASWA HQ and you'll receive a copy of the latest issue. No envelope necessary.

CHICAGO AREA GET TOGETHER

The Chicago Area DX Club Annual White Sox Get-Together will be held June 27 at Commisky Park. Austin Kelly says come and see the White Sox beat the Angels from the comfort of your box seat. All DXers, SWL's, friends and spouses are welcome. For details, call Austin at (312) 941-1959.

CLANDESTINE STATION CASSETTE

The following notice was received from South Africa:

A cassette called "Rarely Heard Middle Eastern Clandestine Stations" is now available. It is a collection of good quality recordings of rarely heard stations like "V. of Iranian Kurdistan," "V. of Iranian Communist Party," "R. Mujahad-e Khalq," "V. of Iraqi Kurdistan," "V. of the Iranian Revolution," and others. These recording are (obviously) not of studio quality, but are probably the best ones available. All the recordings feature station identifications and the great majority also have Interval Signals. The cassette is available from Vashek Korinek, P.O. Box 910, 1610--Edenvale, Republic of South Africa. The cost is 7 U.S. dollars anywhere in the world by surface mail, or 10 U.S. dollars by air mail. An approximate equivalent in other currencies or IRCs is also acceptable.

NASWA's printing of ads like this one is done solely as a service to members and is never intended as an endorsement of any product.

NO COLLECT CALLS ON THESE ADS, PLEASE.

FOR SALE: Kenwood R-1000 professionally modified for 4 kHz narrow AM filter and selectable AGC. Excellent condition. \$300.00 includes UPS shipping in U.S. John Pescatore, 9597 Quarry Branch Court, Columbia, MD 21047. Phone (301) 725-4760.

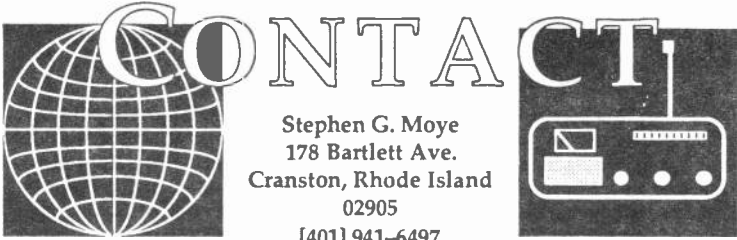
WANTED: Palomar or MFJ noise bridge. Quote price delivered. John D. Tuchscherer, 630 Winnebago Hts., Neenah, WI 54956.

NOTICE: I would like to correspond with a member on the West Coast by cassette tape. I will answer all tapes. Object is SW broadcasts from the Far East. R.A. Dubois, 3651 Robin Road, Tallahassee, FL 32304.

FOR SALE: 1987 WRTH (2) in mint condition, \$12.00. PRO-2021 scanner, new 2/87, \$150.00. Cash or money order to Kraig Krist, 7213 Sipes Lane, Annandale, VA 22003. Prices include postage.

WANTED: Hallicrafters SX-100 manual and/or schematic. Xerox copies all right. I will pay your copy and postage expenses. Herb Shatz, 65-09 99th, Apt. 6-T, Forest Hills, NY 11374. Phone (718) 275-9215 2300-0200 GMT weeknights, 1300-0300 weekends.

FOR SALE: Sony ICF-6700W, \$135.00. Customized Beam Headings (from/to) and Distances (Mi/Km) to over 415 WRTH-87 transmitter sites. Useful in picking alternate transmissions and selecting listening times based on distances. ITU Country Codes included. Send your location/coordinates, \$5.85. FRENEX complete 1984, \$5.00. "Confidential Frequency List" and "Guide to RTTY Frequencies," \$4.00 each. Radio Database International 85-86 part I and II, \$7.00. All items include shipping. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398.



Stephen G. Moye
178 Bartlett Ave.
Cranston, Rhode Island
02905
[401] 941-6497

JUNE 1987

After a somewhat hesitant beginning, it looks like Spring has arrived to stay; indeed we in the Northeast have had our first tantalizing taste of Summer, no less. Also on the plus-side, the solar flux index is showing the first (albeit very tentative) indications of a rising tendency. I have made the point often that our listening should NOT BE GOVERNED SOLELY BY THE SFI; still, it will be a treat to see the upper end of the HF spectrum open up, and, let us hope, relieve all the crowding at the lower end.

CONTACT COMMENTS

I received a very interesting newspaper clipping from *Larry Magne*. It comes from the 11 March 1987 edition of the *Christian Science Monitor* [pp. 16 - 17]. Now, it certainly isn't surprising that the CSM should be running articles about SWBC: their arrival on the SW bands would, of course, be heralded by this sort of thing. Nor is it surprising that the article is little more than a very general and brief introduction to the art, science, and pleasure of SWL. But...

What is a little surprising, and gratifying, is the extent to which the article is so well researched: for example, SWLs are not, mercifully, called HAMS, as they so often are in the popular press. (Larry is quoted in it, as was ANARC, and I suspect they were responsible to one extent or another for the quality of the piece; likewise, the CSM must by now have its own experts on which it can draw.) It is a very solid piece of work and should be in everyone's scrapbook in the event they need a concise and accurate account of the world of SWL.

What is also surprising (well, perhaps *intriguing* is a better word) is the way in which a few relatively simple graphics, a chart or two and a sidebar (admittedly, very expertly put together) - in the company of a well written text - can lend quite an exciting air to SWL. Now, you know, and I know, how interesting and fascinating SWL is, but the great majority of people don't even know *what* it is, much less how interesting it is. I would venture to say that this one article in the CSM will have a very beneficial effect on the hobby.

Wouldn't it be wonderful if a major print organ were to take an ongoing, thorough, and informed interest in its SWBC arm? If I were in a position to make recommendations to the CSM, this is precisely what I should urge. The benefits for the domestic SWL community in terms of growth in numbers and interest would be tremendous.

Letters

This seems to be a hot month for clippings from newspapers. I received another from *John Henault* (FRENDX Log Reports Distributing Editor; Abington, Massachusetts) and it is a well researched and interesting piece. It appeared in a Wisconsin newspaper (The POST CRESCENT and written by Pete Bach, staff writer), and focuses on the SWL/DX activities of two people, both of whom are well known in NASWA as active and monthly contributors to FRENDX: *John Tuchscherer* and *Kevin Klein* (who sent the article to John Henault). Included is a fine picture of John Tuchscherer (attending to his ICOM and Yaesu) which is captioned: "Listening in on the world." Entitled *Keeping an Ear to the World*, in the space of about 15 column inches a reasonably generous amount of information is presented. If anyone is interested in a copy, I would be glad to send you one.

From *Rich Arland* (a.k.a. "Scott 'Radio Free Pungo' Richards", Langley Air Force Base, Virginia; secretary, GREAT CIRCLE SHORTWAVE SOCIETY, ODDX member) comes the following clever and clear-headed examination of a serious problem that the SWL hobby is now facing: flagging support. It is entitled: *WHO CARES ABOUT APATHY?* —

The Old Dominion DX Association (ODDXers) had gathered together for one of the infamous ODDX-All-Nighters. The target for the evening was a band scanning exercise to sharpen DXing skills and pick up a few new pointers from fellow DXers. Propagation was not too good, so gradually the members in attendance drifted away from the collection of receivers and joined in a conversation about SWLing in general and DXing in particular.

The conversation had turned somewhat somber over the last several minutes. Our fearless leader, Dr. DX, had been reminiscing about "the good old days" of SW DXing. Many of us who started far enough back to remember the warm glow of vacuum tubes, nodded in agreement as the good Dr. mused over his early radio experiences. Sadly, the conversation turned to Kap's column the the February '87 FRENDX. The one recounting the apparent lack of participation and growth in the SW hobby. Where is the excitement and thrill of chasing SW DX? What has happened to the influx of young people to our hobby? Where is the inspiration to pursue and enjoy the hobby of shortwave listening?

Daisy the DX Dog stirred restlessly at DR. DX's feet, as if to say that she was uncomfortable with this particular topic. We all were, as I recall. Tom McSwift was fiddling with his electric toothpick dispenser, avoiding eye contact with the others. Squalid Ali Ben Said, our Lebanese DXer, was fondling a pair of Alice Brannigan stretchpants. Charles "Mad-Dog" Gallo was viciously gnawing the end of a pencil, unwilling to share his thoughts. This left "Foxy" Foxx and Lynn "Stop-the-Presses" Burke deep in thought, trying to grasp the meaning of the conversation. I, as usual, was observing this great group of DXers, who were about to step off the edge of reality and try to comprehend the True and Real reasons behind our involvement with the hobby of shortwave listening and DXing.

"Could it be that in this day and age of instant success and gratification, a hobby, which requires the participant to exert and effort and acquire special skills, might no appeal to the mass of potential listeners?" asked Dr. DX.

"I dunno, Doc. I tend to think that it might be the fact that most SWLs are looked down upon by society, especially Ham radio operators. It's like we're social and technical outcasts," countered Mad-Dog Gallo.

"Actually, SWL/DX types have been stereotyped as Nerds complete with white socks, calculators on belts, pocket savers and horn-rimmed glasses with white tape on the nose piece!! Even though untrue, this preconceived image doesn't convey a proper YUPPIE image, does it?" replied Dr. DX.

"How many NFL linebackers do you see claim to be SWLs? How many SWLs have done light beer commercials, huh?" queried Lynn.

"Good point, Lynn. There is a definite shortage of jocks and women (Alice Brannigan excepted) in the hobby, that's for sure" chimed Fox-

Tom McSwift put down his electric toothpick dispenser and addressed the gathering. "I believe that SWLing is a rather introverted hobby. Unlike Ham radio where a two-way exchange is possible, SWLs/DXers don't have the opportunity to respond (QSL reports notwithstanding) to the broadcasters. Hence, we are left in a void. We only listen, we don't talk, and nobody understands our interest with ONLY listening. Hams can't fathom the idea of just listening to someone without a real-time exchange. Basically we are looked upon as weird."

"Do not forget, my brothers, that we are in an era of instant 'be-there-as-it-happens' news. I remember watching those sons-of-camels bomb my radio shack in Beirut, live, *via* satellite, while I was attending the ANARC convention. It was just like being there, only without the smell of cordite and camel dung in my nostrils. Our hobby is at a decided disadvantage when competing with this kind of real-time television. It is very difficult to convince people that it is FUN to tune the SW bands in search of the news and information when they can watch Ken and Barbie with their very opinionated, biased newscasts on television!" observed Squalid Ali, eyes smoldering at the thought of the loss of his beloved equipment.

So far the group had touched on a number of contributing problems with the hobby. Somehow I sensed that the real reason for the lack of growth in SWLing was yet to be uncovered. The ODDXers debated the various points at great length. At last Tom, in his infinite wisdom, summed it up. "We have a people problem. No one is interested in making the hobby better. Lots of people are in the commercial end of the hobby but there are few people out there who are willing to give time, technical help and inspiration to the newcomer."

"We need to lend a helping hand to the person just getting started. Also, we need to insure that those around us, who show an interest in the hobby, are properly informed as to what we do and why. In addition, we need to share what we are doing with others who are active in the hobby," said Dr. DX. At this, Daisy the DX Dog perked up her ears. She knew we were on the right track.

Mad-Dog added: "As a whole, ODDX should dedicate itself to improving the SW DXing hobby... leaving it better than we found it."

That is how the ODDX credo — "TO IMPROVE THE SW DXING HOBBY BY DIRECT INVOLVEMENT" — was born. Not a bad idea, in actual fact. With the proper mindset on a large scale, it will be possible to turn around the current trend of declining growth and participation. However, it will require that we collectively become involved in the hobby and not sit idly by while "someone else" does the work. Bury the introvert stereotype, get out and tell people about the excitement involved in tuning the SW bands. Get fired up about your (our) hobby. Lend a sympathetic ear and a helping hand to a newcomer. Encourage inactive SWLs to get back into the hobby. JOIN A CLUB AND CONTRIBUTE REGULARLY!!! Do not get involved in petty sniping at your fellow SWLs/DXers: this shows a decided lack of intelligence and maturity. Share your technical expertise with those around you. Help improve the SW DXing hobby by YOUR direct involvement.

On now to a letter that blends technical matters with those of interest to DXers, SWLers, and QSLers; it comes from *Mitch Sams* (Wichita, Kansas) who is the Director of *FINE TUNING* — I quote from the masthead of that publication: *A COMMUNICATIONS NEWSLETTER EMPHASIZING RARE AND DIFFICULT DX. FIFTY CENTS PER ISSUE, MINIMUM OF TEN ISSUE ORDER. SAMPLE FOR A SASE.* (You can obtain information and a sample issue from Mitch Sams, 8515 Scott, Wichita, Kansas 67210). As an introduction to Mitch's letter, perhaps a word or two about the technicalities involved might not be entirely out of place.

The issue is essentially how SWLs are going to deal with harmonic transmissions, particularly those from the standard AM broadcast band. What are harmonics? These are frequencies broadcast by a station at multiples of the station's declared frequency. A station that broadcasts, say, at 1000kHz (about the upper middle of the AM broadcast band) might, under the right conditions, also broadcast at 2000, 3000, 4000, 5000kHz, etc.; even multi-

ples of the fundamental frequency are called even harmonics, while odd multiples are called odd harmonics. Now, if we define shortwave broadcasts as those above, say, 2000kHz, then it is clear that a station in the standard AM broadcast band could, in effect, become a SW broadcaster once it begins to transmit harmonics.

Harmonics are rare because they are a symptom of something wrong with the transmitter and/or the antenna. No station engineer would stand for this sort of malfunction, if for no other reason than the fact that it is poor economics: transmission on harmonics can only be achieved at the expense of the transmission on the fundamental frequency and that would be bad for business* — harmonic transmissions don't usually go where advertisers PAY for them to go. Harmonic transmissions are difficult to receive because they are usually very weak, and so represent a particularly challenging form of DX. Very well then, now on to Mitch Sam's letter:

I have something here for your CONTACT column. It's a topic that I have wondered about for some time now. I concerns how we count shortwave stations. I have had an on-going conversation with Don Jensen, as well as a few other hobbyists, about the NASWA country counting rules. Of particular interest to me are the criteria used to qualify a transmission as a "shortwave broadcast".

We have defined the shortwave spectrum as the frequency range between 2 and 30 MHz, and this agrees with the classical definition of "shortwave". A "broadcast" can be defined as a transmission intended for the general public in order to provide news, information and/or entertainment. These two definitions should be all that are needed to describe those transmissions that we are interested in. In other words, the transmission must: (1) occur between 2 and 30 MHz and (2) program content should be intended for the general public. Any further definition tends to narrow the scope of our hobby. However, we at NASWA have inserted an extra definition into (1) which, in my opinion, tends to muddy the topic. That is: the broadcaster must have intentionally transmitted within the 2 to 30 MHz range. This excludes harmonics or other types of spurious transmissions from broadcasters which may fall into this range. I am a little surprised at the lack of interest for harmonics that exists in the hobby, especially from the DX chasers. They meet every qualification for a difficult catch, and more. Harmonics are extremely low powered, much less than the output power of the fundamental, and in most cases much less than a typical low powered tropical band station. There is no range limit to a harmonic and many times a harmonic allows you to hear a station or a country that is not normally available on shortwave (remember Radio Morgan?). What I'm getting at here is that disinterest in harmonics or spurious signals is no excuse for ignoring them, they meet the two basic requirements for shortwave broadcast. Should we stop reporting the Mexican, Radio Consentida? After all, it may be spurious. Or, better yet, will we ignore Tristan if they make it through on a harmonic?

If we next consider feeders, this gets even more complicated. In this case there is no question (usually) that the broadcaster put it there, but we disallow it because he did not intend for us to hear it on this frequency. For country counters this one really hasn't caused too much trouble because most broadcast feeders are operated by stations who have intentional, standard mode, services within the shortwave spectrum. But there are some cases where our current counting practices do not consider these transmissions. Fortunately for all we proved that Kiribati was legitimate, but I guess Radio Rivadavia will remain in the "twilight zone." As single sideband looms on the horizon as the mode of the future, we may have a very difficult time distinguishing a feeder from the "real" thing.

Well, I certainly do not have all the answers here. I am satisfied with the NASWA list and feel that it has served our hobby better than any other list. But, I have many times over the years wondered about the status of harmonics and feeders in this list, and why they are excluded. I guess I wouldn't mind a small change in our rules, but if the majority sees differently, then that is fine with me. Don Jensen has pointed out many of the problems

* For this reason, QSLers will occasionally run into trouble confirming that they have heard a harmonic — what station engineer would want to admit (in print, at that) that he or she wasn't paying close attention to the condition of the transmitter/antenna?

associated with creating a country list that is fair to everyone. Several of these problems had not occurred to me. I can think of one problem with my suggestion concerning harmonics: this may cause an individual's list of countries heard to take on too much of a local flavor thus not being fairly comparable to other DXers'. But, there are advantages and disadvantages to any system we come up with for counting purposes.

I am firmly of the opinion that there is no such thing as too much information: the more we have at our disposal, the better SWLs and DXers we can be. From *Ken Kashiwabara* (Panorama City, California) comes news of an interesting source:

Recently I've become aware of a series of U. S. State Department publications called **BACKGROUND NOTES** that might be of interest to NASWA members.

BACKGROUND NOTES is a series of 4+ page summaries of vital statistics and general information about foreign countries. A separate **BACKGROUND NOTES** is published for each country.

A wealth of useful information is contained in each publication. As a minimum the following items are included: demographics, geographic statistics including basic and detailed maps, governmental organization with names of officials, U. S./foreign relations information, informative columns on ethnic/cultural distribution, national history, political conditions and economic development. For those who become interested enough for a visit there is a section on travel tips which includes climate, customs regulations, currency/exchange and health requirements/hazards.

I found several of these publications in the "free to the public" bin at the Los Angeles Public Library. The librarian informed me that each **BACKGROUND NOTES** is updated by the State Department periodically, as needed. The material contained "is in the public domain and may be reproduced without permission; citation of this source would be appreciated."

BACKGROUND NOTES is offered for sale — by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402 — by country. It should also be available in U. S. Government Printing Office stores in larger cities. I haven't found the price yet but was told by the librarian that it is "very small."

I have done a little research about **BACKGROUND NOTES**. First, if you live near a library that is a depository for U.S. Government documents, then you will have easy access to **BACKGROUND NOTES**— even if the library is a private one, such as a university or college library. You simply announce to the appropriate people that you are there to use the government documents, and they *must* allow you access to them: it is part of the deal that the library makes with the government when it becomes a depository. Second, a large number of libraries (both civic, and private) *are* depositories, and you very probably live close to one*. Third, you can obtain them yourself. They cost \$1.00 each, and can be obtained from the address given in Ken's letter: be sure to list the countries for which you want **BACKGROUND NOTES**. These **BACKGROUND NOTES** are excellent and worth looking into.

Well, just enough room left to clear up a few details. As usual, I want to keep those who are interested, aware of how this column was assembled: this month Microsoft WORD3.0 did the job, and very well, too — in addition to accommodating graphics and effortlessly formatting text, it checked my spelling and did the hyphenation. A reminder about deadlines: my receipt of your letter/material by the 15th of the month will usually insure that what you submit to me will appear in the following month's column.

Finally, of course, my thanks to everyone who has taken the time and effort to write, and to readers, too. Until next month, many 73s, and may your listening always be interesting —



* Libraries are probably the best bet, if you catch my drift: these are among the very few documents you can copy with a XEROX[®] copier with a clear conscience.



Easy Listening

Editor: Alex Batman, 4618 Alvin Dark, Apt. 34, Baton Rouge, LA 70820

SUNDAY

- 1040-1100: "What Do You Do for a Crust?" (Radio Australia). Interviews with people about their jobs. Past programs have featured interviews with the priest who found G.R.O.W., an international mental health support organization, an itinerant preacher in Australia's outback, and a psychologist who counsels sexually abused children. (9.580/6.060. Broadcast earlier on Saturday night at 0110 on 17.795/15.320).
- 1710-1730: "Voices of Africa" (VOA). Interviews with people who are making the news or are in some way knowledgeable about Africa and its problems. Past programs have featured interviews with a doctor working to cure bilharsia in Africa, two leading members of Kenya's labor unions, and a Nigerian newspaper/magazine publisher and businessman. (15.410/15.580).

MONDAY

- 1200-1220: "International Report" (Radio Australia). Program begins with the summary of world news, followed by reports on current events. Some programs carry several features, like Reagan's trade sanctions against Japan, unrest in New Caledonia, etc. Other programs are devoted to a single topic, like the recent election of a new Prime Minister in Fiji, and still others are part of a series of programs on a single topic, such as the series last winter which interviewed a writer who has written a book on the Cultural Revolution in China. (9.580/9.770/6.060). Daily.
- 0215-0230: "People At Work" (Voice of Free China). A program on people and their jobs in the Republic of China. Past programs have interviewed doctors, advertising executives, and insurance executives. Every once in a while there is a special program devoted to Chinese writers and works in translation available in the Republic of China. (5.985/9.555. Repeated on Tuesdays at 0315 on the same frequencies)

TUESDAY

- 1240-1300: "Country Wide" (Radio Australia). This program is devoted to agricultural concerns and life in the Australian outback. Some programs have featured the export of blood horses to Singapore, problems arising from the artificial insemination of ewes, measures of storing goats' milk, a new diesel generator for rural areas, a new weather predicting machine available to farmers in the outback. (9.580/9.770/6.060).
- 2110v-2115: "Faces and Places" (Radio Berlin International). A brief program on modern life in the German Democratic Republic. Written in the style of a loosely structured essay, past programs have featured a Christmas Fair in Berlin, playgrounds in the cities, a children's theater, and the number of swimming facilities available in the city. (6.125. Repeated at 2225v on 6.125 and 0025 and 0125 on 9.730/6.080).

WEDNESDAY

- 113c-1145: "Radio Japan Journal" (Radio Japan). Each week features an in depth look at a topic of relevance to Japan. Past programs have featured the manufacture of a new audio digital recorder, facilities for foreigners in Tokyo, and problems with illegal

immigration to Japan from other Asian countries. (6.120. Repeated at 2330 on 11.800 and 0330 on 5.960).

2105-2110: "Pop Corner" (Radio Berlin International). Programs features usually one, sometimes two, pop songs by contemporary East German rock and pop groups. There is usually some brief commentary about the group and then the song, almost always in German. To be really effective, this program needs to be expanded or made into a daily program. (6.125. Repeated at 2220 on 6.125 and 0020 and 0120 on 9.730/6.080).

THURSDAY

1125-1130: "A Letter from England" (BBC). The usual "Letter From--" format; that is, a loosely structured essay about some topic relevant to life in the nation. Past programs have featured the chances for an early general election, the election of a new Chancellor at Oxford, and an open letter to terrorist hostages wherever they may be. (11.775/6.195).

0140v-0145: "Cur Fauna" (RAE). I find this one of the most interesting programs I've run across in a long time, perhaps because I just like the study of animals. The program each week features a different form of animal life indigenous to Argentina, its feeding habits, mating habits, etc. Past programs have featured a monkey of the northern forests, the Argentine weasle, and a dolphin that feeds off the coast of Argentina. If you're an animal lover, I highly recommend the program. (9.690/11.710. Repeated at 0440v on the same frequencies).

FRIDAY

1130-1145: "Smith's Weekly" (Radio Australia). As you may note, I've been listening to a lot of R.A. programs recently, and this is one of my favorites. It has the same kind of whimsy as Larry Wayne's "Germany Today" on Deutsche Welle. The program always starts off with letters to the local newspapers (usually humorous in some way or other), goes to a man/woman on the street interview about a given topic, then proceeds to a reading of the more significant headlines, returns with another topic to on the street interviews, and then comes the piece de resistance--interviews with children on subjects in the news (children whose insights are usually delightful and sometimes staggering). The program closes with a reading of letters written specifically to Keith Smith, the program host. If you happen to be up at 1130, it's well worth tuning in to. (9.580/9.770).

2310-2330: "Thank Goodness It's Friday" (Kol Israel). I have to admit to a bit of mystification here. Kol Israel recently changed their programming to the United States (one of the more persistent headaches of doing this column), and I think this program is now on only every other week, though I couldn't swear to that either. It usually features a topic of some interest to Israel--the celebration of the New Year of the Trees, the conflict between ultra-orthodoxy and Zionist Orthodox Jews in Israel, the celebrations of Passover, etc. There is always an interpretation of a passage from the Torah by Rabbi, and the program usually includes one or two Sabbath hymns. (9.435/11.610. Repeated at 0010 and 0110 on the same frequencies).

SATURDAY

1625v-1640: "Spotlight on Africa" (Radio France International). A current events program featuring the most notable events of the week or the month in Africa. Usually contains three or more segments per program, most often with reports from correspondents. Past programs have featured problems in Uganda, election difficulties in Nigeria, and other topics of interest to an African audience or anyone interested in African politics. (17.620/11.705)

0230-0300: "Press Conference USA" (VOA). This is actually just a radio version of the television news show "Meet the Press". Each week a political or economic newsmaker is interviewed by a panel of reports assembled by the VOA. Past guests have included the Prime Minister of Jamaica, a Nobel prize-winning economist, and America's new ambassador to the Soviet Union. (6.135/9.455/9.650/5.995).



DX'ers Forum

Conducted By:
Chuck Rippe! WA4HHG - WDX4KUI
1272 Parkside Place
Virginia Beach, VA 23454
E-Mail through ODDX or ACE BBS
I.D. = Chuck Rippe!
Deadline: 17th of the Month

=====

Summer rapidly approaches and just to prove it, Mom Nature tossed a few of the thunderstorms I spoke of last month my way. Yes, I threw my lead-ins out the window and unplugged everything and no. I still don't like thunderboomers.

Among the mail I received over the last month, a very nice letter from Peter Dillon of Columbus, MD brought up a very good point on using program material exclusively to ID a station. It seems that Peter was listening to what he thought was Radio Catolica (Ecuador 5.055 KHz) as he noted a program being aired which was produced by Radio Catolica. Peter goes on to say that he later discovered this program was being re-broadcast over La Voz del Upano (Ecuador, 5.038.8 KHz). Since then, he has also noted the re-broadcast of Radio Exterior de Espana programs over La Voz del Upano. Some other examples of stations which re-broadcast other programs are: Falkland Islands Broadcasting Service, (BBC) and ELWA, (VOA news).

The type and content of programming being broadcast is an important clue to be considered in correctly identifying an unknown station. However, all of the data must be considered before a tentative identification can be made. In most cases, the station ID can turn that tentative logging into a confirmed one. I said most cases; some the Indonesian outlets relaying RRI programs can be confusing unless the DX'er is familiar with their program format.

Distribution editor John Henault outlined a Special Project for NASWA members on page 35 of the May FRENEX. Asking the membership to show a special level of support for our club in the summer months, which traditionally are a period of waning interest, is a worthwhile endeavor. One logging for each of the 4 log report editors does not require a high level of individual effort. However, the results of a combined group effort would be significant. I fully support such an effort and ask that members also show their support by sending it at least 4 Loggings.

During the months of January, February and March some of you may remember that I and other locals went on what I call a "Papua New Guinea binge." During this period, the 90 meter band was found to have excellent propagation from the Papua New Guinea area as early as 1145 to as late as 1345 GMT. Several 2 - 10 KW regional stations which had not been heard in quite some time were now being logged on a regular basis here on the East Coast. The curious thing about this whole matter was propagation. Best reception occurred a few minutes before sunrise till as long as 1 1/2 hours AFTER sunrise. The question was: why and how did this happen and additionally, how to accurately document the phenomena so the conditions could be exploited again.

If there is one "sure" thing in DX'ing it is the fact that signals under about 7 Mhz will not normally propagate between two points beyond the range of ground waves unless there is darkness between them. These low frequency signals are absorbed by the "D" layer of the ionosphere upon their low angle entry. This absorption is result of ionosphere's state of ionization caused by it's exposure to the sun. Once absorbed, the signal is unable to reflect or "skip" back toward earth so that it may travel greater distances.

There exists a period of time between the change from darkness to sunrise at a transmitter location and sunset to darkness at a receiver location (or vice-versa). To our sense of sight, this condition is called twilight. This "twilight" condition also effects the ionosphere and allows a propagation

phenomena known as "Grayline" to take place. It is commonly believed that this "twilight" condition must exist at both the transmitter and receiver locations at approximately the same time.

Simply, what takes place during Grayline Phenomena is the enhancement of signal reception during a short period of time in a particular geographical location. During the twilight period, this enhancement is a result of the ionosphere changing states between it's night and day characteristics. The length of time this enhancement lasts is typically between 15 and 40 minutes and depends on the latitudes of the transmitting and receiving locations involved. The exact mechanics of the Grayline Phenomena have been explored in other publications and will not be covered in depth here.

At first glance, it appeared that reception of the Papua's in the 90 meter band was being made possible by Grayline enhancement; all the characteristics associated with this phenomena seemed to be in place. The weak signals seemed to come out of the noise in about 7 minutes just before local sunrise and remain quite strong for a period of time. As the sun came up, deterioration would begin to take place and gradually, the signals would sink back into the noise. To my way of thinking, these conditions certainly sound like Grayline enhancement. But wait, the plot thickens! There are additional factors involved which serve to complicate this conclusion.

Figure #1 is a sunrise/sunset profile for January 15 using the DX Edge. The shaded area is in darkness and the unshaded area is in daylight. The dark line crossing the East Coast represents sunrise. Just to the east of Iceland, the dark line begins to represent sunset. Time can be read from the top scale. GMT is taken where the time scale intersects with the 0 Meridian; there is a line drawn through it.

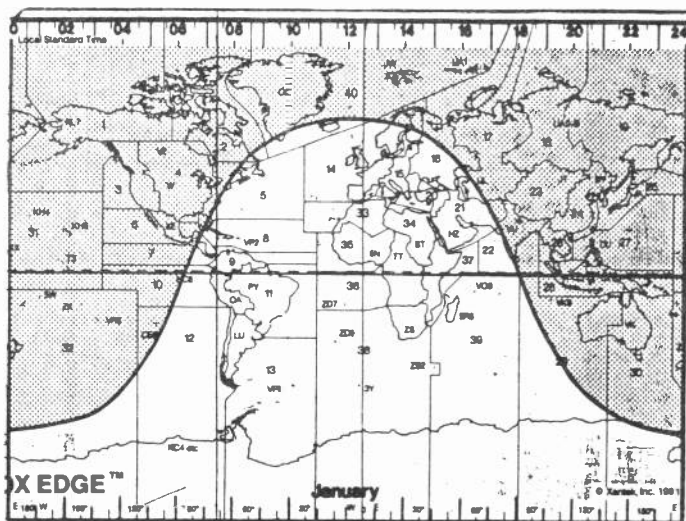
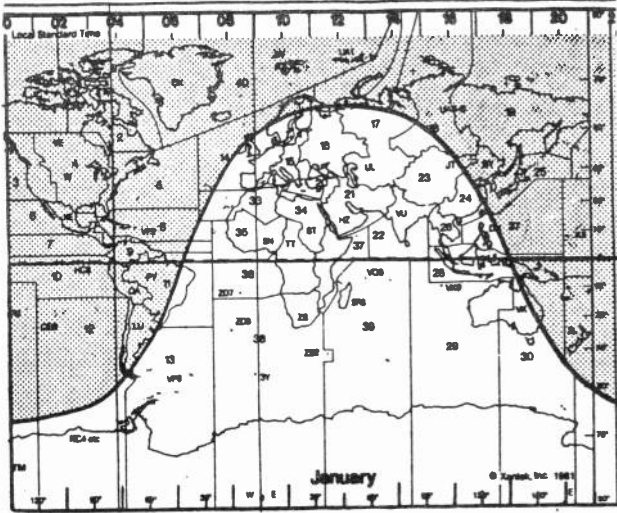


Figure #1

With some idea of how the DX Edge operates, it can be seen that sunrise here on the East Coast takes place at approximately 1230 GMT.

Further examination of figure #1 shows that normal darkness propagation from Papua New Guinea to the East Coast was indeed possible over a westerly Great Circle path. In fact, the darkness envelope overlaps both the East Coast and Papua New Guinea simultaneously for around 3 1/2 hours. Keep in mind I observed that the Papuas were not audible in my listening location until a very few minutes before local sunrise.

Figure #2 shows that local sunset over the far western end of Papua Territory occurred at about 0900 GMT. Thus, seemingly no Grayline enhancement could occur as there was



a 3 hour difference between East Coast sunrise and Papua New Guinea sunset. Usually, this is by far too great a difference to allow Grayline enhancement to take place. Yet, some propagation enhancement was indeed occurring just before local sunrise. The question that began to take shape was: what vehicle allowed reception of the Papua's for long a period of time after local sunrise. We couldn't copy them during a normal darkness path opening at any time before local sunrise. Conditions at both the Papua and local ends end of the transmission path

Figure #2

seemed not to entirely support Grayline enhancement as the answer to the propagation question.

This was essentially the question I outlined in a letter to noted propagation authority George Jacobs explaining what I observed. Additionally, I provided some reception and sidereal data to Mr. Jacobs. I would like to share with you his kind response:

GEORGE JACOBS & ASSOCIATES, INC.
Consulting Broadcast Engineers
 8701 GEORGIA AVE., SUITE 410
 SILVER SPRING, MD 20910

GEORGE JACOBS, P.E., *President*
 MEMBER AFCEC

April 24, 1987

TELE (301) 587-8800
 FAX (301) 587-8801

R. Charles Ripple, WA4HHG
 1272 Parkside Place
 Virginia Beach, VA 23454

Dear OM:
 Many thanks for your interesting letter of April 3, 1987 reporting on reception of stations in Papua New Guinea via what appears to be Gray Line enhancement propagation.

While to a first order of approximation, one can assume that the Gray Line occurs when it is sunset at one location and sunrise at the other, in fact it is not the geographical location that determines this, but the location at which the radio wave enters and leaves the ionosphere. Looking at the great circle path from Virginia Beach to PNG, you will note that about 600 miles along the path, which is where the signal from PNG would most probably leave the ionosphere, you are at least one time zone to the west of Virginia Beach. So, the one end of the Gray Line occurs when it is sunrise at this point, which should be approximately one hour later than it would be in Virginia Beach. You can calculate the exact difference by using sun time calculations with your computer program, rather than time zone differences as I have just done. In any event, with this correction, this begins to give you better agreement with what you observed. The day-to-day scatter in times is probably due to differences in day-to-day propagation conditions, with the radio wave leaving the ionosphere at different points along the great circle. A good approximation is 600 miles, as I have used in this example.

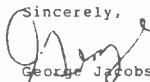
The same condition would also hold on the PNG side of the path. The radio wave enters the ionosphere at a point 600 miles to the east of PNG on the great circle path. Sunrise would occur here at least an hour before it would at PNG. Again, if you work out the exact time from sun calculations, you might even get better agreement.

While Gray Line enhancement is a special propagation condition, it should also be possible for a peak in propagation to occur when the eastern leg of the path has sunrise at the point where the radio wave either enters or leaves the ionosphere, and the western terminal is in darkness rather than sunrise.

I hope that this information will be useful to you.

73

Sincerely,



George Jacobs, W3ASK

Mr. Jacobs' letter adds a new dimension to my own understanding of Grayline propagation phenomena. Perhaps some of my own confusion was caused by my belief that Grayline conditions were solely dependent on geographical location as it related to local twilight. These conditions were something I have actually made use of as a Ham to work Australia at during brief openings at local sunset on 80 meters.

In the case of the Papua's, Grayline conditions associated with local sunrise to the west of my listening location may have caused enhanced reception in my area even though it was well into daylight here. As sunrise raced to the west, conditions deteriorated proportional to the speed of the sunrise ground track.

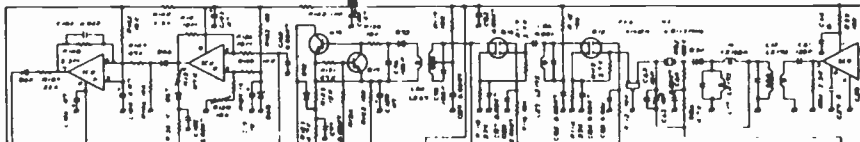
My own theory now is Grayline enhancement is indeed associated with twilight conditions. Perhaps, the exact time a listener will experience this phenomena also depends on the geographical area where conditions are favorable in relation to the angle from which the signal strikes the ionosphere during it's final "hop." Indeed, the times that Grayline enhancement is available may be extended, no longer solely dependent on local sunset times.

This at least seems to be the case where west - east propagation is concerned. It would be interesting if this theory could be applied to east - west propagation.

Do you have any such DX related questions? If so, forward them to DX'ers Forum and let us field them to the experts.

* * *

Technical Topics



Editor: T. J. "Skip" Arey, WB2GHA, P. O. Box C-4, Cinnaminson, NJ 08077

PSEUDO DIVERSITY RECEPTION OR ITS ALL IN YOUR MIND

Spring has sprung, the grass is riz, I wonder where the birdies is!

As we pass through spring to summer we begin to see the usual changes that go with seasonality. My wife starts to make me do all those projects she cooked up during the cabin fever season. My spring sinus infection takes its full grip. We start to notice serious static crashes, invariably at the time we choose to listen to our receivers. I am not the oldest salt in the DX hobby but I have been through enough Spring/Summer DX sessions to notice some things about the bands. For some reason (perhaps even explainable) I seem to notice more fading, propagation signal losses on the frequencies I frequent. This is by no means a scientific observation. I think I just notice the fading more in the summer months. But this less than scientific observation led me to seek out certifiably scientific answers to the problems of fading on the radio.

Digging through some old manuals I read about diversity reception techniques used by professional listening posts to combat propagation losses. What these people who get paid to do what we do for fun do is use multiple receivers with spaced and oriented antennas to combat shifting signal levels caused by ionospheric instability. The real hot set up would tie the local oscillators and agc lines of the receivers together allowing the strongest sampled signal to rise, like cream, to the top. I have often promised myself that if I ever acquired a second R-390A I was going to give this pro-system plan a shot. But finances being what they are (I don't get paid for this gig) I've had to improvise.

Enter PSEUDO DIVERSITY RECEPTION the ingredients of which are:
2 general coverage receivers
2 antennas
1 stereo earphones
1 human brain
(Intact and operational, in its original casing of course)

In the world of psychology and the neurosciences there is a principal known as closure. Closure is the wondrous ability for the human brain to generalize data from less than complete information. The simplest example of this is a picture in a newspaper. If you look really really close you will see that the photo is made up of thousands of teeny weeny dots. But looked at at a normal interval and distance our brain generalizes the dots into a pattern that we recognize to be a picture. The human biocomputer is able to generalize and perform closure on any data inputted through the sensory network. This would include audio intelligence.

The radios, antennas and headphones make up the hardware of the system but the brain (software? wetware?) does the processing that beats the fades.

If you undo the plug of a set of standard stereo headphones you will see it has three connections. One wire for left, one for right, and a common lead. The only hardware modification is to wire up the left and common to one monophonic plug (matching the headphone output jack of one receiver, and the right and common leads to another mono plug for the second receiver's headphone output. If you are allergic to soldering (Soldaferrophobic) you can purchase a patch cord to go from two mono lines to one stereo jack. Either way gets you there. Remember to keep the common connections to the ground/shield side to avoid phasing problems.

The rest of the project is fairly easy. Each of the receivers is connected to an antenna. Orient the antennas so that one is horizontal and one is vertical. If your like many folks, who use a main receiver and keeps a portable around the house, you can hook the main rig up to your longwire or dipole and just use the telescoping antenna on the baby box. This would give you the essential horizontal and vertical polarization. The idea is that certain ionospheric conditions change the polarization of the incoming signal. By having two antennas cross polarized, when the incoming signal is approaching with vertical polarization, the vertical antenna gets the best sniff. Use versa when the signal is coming in horizontal. So you now have one receiver and antenna set up for vertical and one for horizontal signal polarization.

Now comes the fun part. Tune both receivers as exactly to the same signal as you can. Plug one mono side of the modified headphones into rig A and the remaining mono plug into rig B. Put the phones on your head and let the wonders of human engineering begin. Your brain will seek to do what the tied together AGC lines of the pro system do. Your brain will help you to hear the collective signal more clearly then if you are listening to one fading signal. In ideal circumstances as signal A fades, signal B should be rising. Your head will translate the signal into (you guessed it) one usable picture.

I first wrote on this subject for the National Radio Clubs DX NEWS back in 1980 or so and have had many enjoyable more or less fade free listening sessions since. This is by no means a perfect solution but it does represent a bit of original thinking on the problem. Give it a try with a pair of cheap flea market special headphones. Make sure you pay some attention to matching receiver output and headphone impedances to assure best results.

OTHERNESS

LARRY MAGNE wrote to inform us all that SONY 2010 users need not fear the airport X-ray machine. The process of examination by the machine will not effect the innards of your radio. If you travel overseas you may find that while you have no trouble with the X-rays but lots of hassles with customs. Some countries have strict regulations about the kinds of receivers they want in the hands of John Q. Public. Some Middle Eastern nations have regulations against receivers with BFD's. But much more likely you will run into customs rules as they apply to balance of payments issues in this increasingly paranoid international business environment. When in doubt call the embassy.

Speaking of trade deficits and such. If your planning on buying any Japanese radio wonders you might want to move now. The electronics industry may get very bizarre very soon. The notion of 100% duty on a radio you can barely afford to begin with is not my idea of a real good time. The fact of the matter is that your U.S. choices for receivers are limited to Collins and Ten Tec, neither of which make pocket rockets. Let us hope cooler governmental and diplomatic heads will prevail so that we can continue to obtain the tools of our trade at reasonable rates.

Speaking of Ten Tec, is anyone out there using the Ten Tec RX-325? I have long admired this company's Ham gear but I have yet to get my hands on their general coverage receiver. If your using this machine I would really like to print your thought in Tech Topics.

GOODNIGHT MR. GREENJEANS WHEREVER YOU ARE!!

73,

Ship WB2GHA

Computer Corner

Editor: Tom McElvy, P.O. Box 9645, Norfolk, VA 23505-0645

Well, here it is, June, and what to write about? Seems you get to a point, and wonder just what to do. The bulk of the mail I have been getting expresses more interest in Telecommunications and word processing over anything else, so unless I hear from the reader that I am wrong, I am going to spend this and next months column on telecommunications IN DEPTH!

At one time, the professional computer users were the only ones using the on-line services..and bulletin boards were unheard of. That has all changed. In 1978, Radio Shack introduced the TRS-80 Model I computer, with a whopping 4K of memory. The rest is now history. People all around the country call as many as 5 or 10 boards EACH AND EVERY DAY! (you should see MY phone bill...) Thousands of computer owners have discovered the pleasures of telecommunications. No mater when the person calls, on the evening or weekend, they are having fun, or gathering information, or even obtaining programs, all for the price of a phone call.

On-line. What DOES that mean? Well, simply put, being on-line means that you are connected by a phone line to another computer (host) and exchanging information. What does it take? Well, basically, you need a computer, disk drive, a modem, monitor, and a TERMINAL program. Oh yes, I forgot something important..a phone line, preferably WITHOUT call waiting! Why? Because the tone that is generated by the phone company to alert you to an incoming call will disconnect you from virtually every bbs or network. Some areas are lucky enough to have call waiting defeat, you should check with your local phone company for this feature.



Terminal Programs. Boy, this is where you can go crazy! There are many excellent terminal programs available, ranging from Mult-Term to Bob's Term for the Commodore, to Crosstalk and PC-Talk for the IBMs. A terminal program actually disables your computer, that is, makes it dumb. In using one, you will find similar operations to those in a word processor, except that you will be interacting with another computer, and that you are sending data to the modem instead of the printer. In selecting a terminal program, look around at what is available in the "public-domain" or "shareware" areas...many EXCELLENT programs are available! If you don't find something to your liking, then go ahead and spend money...I have found several EXCELLENT programs for the Commodore, being VIP TERM XL and BOB'S TERM PRO. I have been

using VIP for sometime, and am playing with Bob' Term because of extra features called macros...abut more on those later!

OK, you are now sitting in front of your computer, set up, ready to call the world...What do I do now? Actually, the best thing is to simply start calling the various bulletin boards (BBS) in your area, to get a feel for what is going to happen...How do I get the phone numbers? A quick visit to your friendly computer store will usually net you at least one or two phone numbers, complete with registration information! Call the BBSs and get into the system. When you first call a board, and your modem connects, you should hit your return key once or twice. This will allow the host (the bbs you are calling) to sense your baud rate (300 or 1200) and adjust itself accordingly.

What you see next will be some kind of opening message, usually telling you what the board's name is, operating speeds, etc, and then allow you log-in. It is best to use your real name at this point, so that the SYSOP can have information about you. After entering your name, and hitting the return key, you will USUALLY get a prompt that reads either "password" or "password or NEW". If this is your first time calling, it is suggested that you enter the word NEW at this point; this tells the program that you are a new user, and takes you through the house rules and registration process. REMINDER: NOT ALL BOARDS WORK IN THIS FASHION! MANY ALLOW INSTANT FULL ACCESS! So, simply answer any questions the board asks you, then proceed. If the bbs requires validation first, you will probably be logged off, and then must wait for a phone call from the SYSOP to confirm your information. However, if you are calling one of the "general" boards, you will probably then be greeted with a main menu!



The MAIN MENU is a screen that shows you how to access most of the options and areas of that particular BBS. It could have many sub menus, which you get when you select a particular area off the main menu. Again, simply follow the prompts; should you need help, either a stroke of the (?) key or the (RETURN) key will get you a help screen. If the BBS is running a quality program, chances are that you will NOT be able to crash the board, so have no fear of that..you stand a better chance of crashing your terminal program! So, if something locks up, check your term program first...that is USUALLY where the trouble lies! So, if you make the term program do something weird, just hangup from the host, and call back, AFTER checking to find out WHAT HAPPENED! It is sort of like the fuse in your radio...it doesn't go bad without a reason. SO CHECK IT OUT FIRST!

That should get you started for the time being...Next month, we will take an in depth look at some of the more popular SWL BBSs, including ACE, ANARC, ODDX and UBIX. So, keep the phone lines hot, and go for it! (as my friend ALF would say, hihi!).

BBS NEWS

NEVERBOARD IS BACK!

After a brief period of being off-line, the NEVERBOARD is back! The SYSOP was moving to a new home, and has now gotten everything back up and running. Operating at 300/1200 baud, NEVERBOARD can be reached at 412-243-5880. Be sure to tell them that the Computer Corner sent ya!

ODDX BBS GOES 2400 BAUD!

The OLD DOMINION DX ASSOCIATION BBS is now running at 2400 Baud! So, you folks with the big bucks can call and get the latest in SWL and Scanner tips at twice the speed! Save on that phone bill! The board is also, at the courtesy of ODDX, the home of PACE, the Peninsula Atari Computer Enthusiasts, and has many, many programs available for downloading, for Commodore, Atari and IBM. Call ODDX today at (804) 596-2710.

ANARC ELECTRONIC COLUMNISTS!

The ANARC BBS now has 3 - count 'em - 3 electronic columnists on the system! The first of the columnists was Al Quagliari, doing his marvelous AFRICAN DX COLUMN from SPEEDX, then came ye ol' editor sending his COMPUTER CORNER column, and finally Doug McClure with his COMPUTER COLUMN for ASWLC. The electronic versions of these columns can be found in the INTERNATIONAL FORUM on the ANARC BBS.

Bill Krause, the ANARC BBS SYSOP, is negotiating with several other individuals to enlist additional "Electronic Columnists." He hopes to generate sufficient interest to develop a separate section of the BBS for the columnists and leave the International Forum to the broadcasters. Anyone who writes a column for an ANARC affiliated club bulletin and is interested in creating an electronic version to appear on the ANARC BBS is urged to contact Bill by leaving feedback on the BBS or by writing him at 401 E. Walnut, Greenfield IL 62044.

Guess that just about wraps things up for this month! I hope that YOU will write and tell me what you all want for upcoming columns, but most of all, I hope that you ALL have a wonderful month, and enjoy some good DX. See you at ANARCON!

73!
Tom

PS: Please don't forget to remember those members of the USS STARK, who lost their lives this past month in the Persian Gulf. They are the kind of people who help us enjoy the freedoms that we take for granted.

NASWA Awards Program:

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

Greetings and welcome to the June 1987 Awards Page. The following folks earned NASWA Awards during the month of April 1987:

Paul BUER, Miami, FL: African Continental DXPert

Robert I. CATE, Bow, NH: Arab World DXer; Senior British Commonwealth DXer; Senior Radio Moscow DXer

Luis Felipe PEREZ GUZMAN, Moca, DOMINICAN REPUBLIC: Ecclesiastic DXer; Senior Ecclesiastic DXer

Vern NICHOLSON, Toronto, ONTARIO: World Wide DXer

Roland SCHULZE, Stuttgart, WEST GERMANY: European Continental DXPert; Asian Continental DXPert; Arab World DXPert; African Continental DXPert; Master British Commonwealth DXer; ORTF DXer; Senior DX Centurian - 190 countries

Bob STURGEON, Richmond, BRITISH COLUMBIA: DXer de Pacifica

John R. IOW, Pinson, AL: Master British Commonwealth DXer

Frank WELCH, Worcester, MA: Senior Time Station DXer

*** KAP'S KOMMENTS ***

Interesting to note that 50% of this month's participants are from outside the United States.

Why don't we all take up Distribution Editor John Henault's challenge and send in at least 1 logging for each FRENDX section for the July issue. Wouldn't it be something to see John's mailbox inundated with several thousand pieces of mail.

Ye olde kap will be unable to attend the ANARC Convention in Toronto. The ODXA gang promise that this will be one of the best ones yet, and, knowing their dedication and organizational abilities I can assure you that attendance will be most worthwhile, not only from a technical standpoint but also from a social one.

Several folks have suggested an upgrade to the Australian DXer Award. Sounds good to me, so, effective immediately we will offer an endorsement sticker for verification of 10 different Australian transmitter sites. The usual SASE or IRC would be appreciated, however, not needed if you are applying for a regular Award at the same time.

An IMPORTANT NOTE to other clubs and commercial publications picking up bits and pieces of this column. Please mention that Return Postage would be greatly appreciated with inquiries. With International Postal Rates being what they are it tends to get mighty costly to answer a couple of dozen inquiries each month. We do greatly appreciate the "plugs" that the Awards Program has been receiving World Wide.

We've received several suggestions that Ham, Utility and Medium Wave QSL be made eligible for the NASWA Awards Program. The answer is an emphatic NO. NASWA is a Short Wave Broadcast only Club and the Awards Program will continue to support this principle. There are other organizations who do offer Awards for non-SWBC stations.

We are still looking for Polskie Radio "Herby Miast Polskich" Pennants to complete our collection. We have very few duplicate pennants, so have really no swapping material. We will pay either 5 IRC or \$2.00 U.S. for any received.

Till next month,

EST  5.25.87

BROADCASTING IN ICELAND

By

Richard A. D'Angelo

Iceland is an island country that lies just below the Arctic Circle in the North Atlantic. The area of the land mass is about 40,000 square miles or 103,000 square kilometers. It is about 200 miles or 320 kilometers east of Greenland and about 650 miles or 1,050 kilometers west of Norway. Most of the nation's quarter of a million inhabitants are urban (87%). The capital, Reykjavik, is the largest city with approximately 100,000 inhabitants. Iceland's economy, once basically agricultural, is now based on fishing and fish processing: Only about 1% of the land can be used for farming.

ICELANDIC STATE BROADCASTING SERVICE-AN OVERVIEW

The Icelandic State Broadcasting Service (ISBS) was established in 1930. It is an independent organization which is formally owned by the Icelandic State. It is headed by a Director General and has three main divisions: (1) Radio, (2) Television and (3) Finance and Administration. The Icelandic Althingi (legislative assembly) elects a seven member Radio Council which decides program policy for radio and television. There are approximately 300 employees of the ISBS.

The Broadcasting Act in article 15 says the ISBS should promote the Icelandic language, Icelandic history and Iceland's cultural heritage. The ISBS should also honor basic democratic rules, human rights and the freedom of speech and opinion.

The ISBS serves all of Iceland's 250,000 inhabitants. Television alone reaches well over 99% of the population. Because Iceland is a sparsely populated and mountainous country, a number of relay stations are necessary to reach all parts of the country. At the end of 1985, the ISBS owned 10 main radio transmitters on longwave; 57 FM radio transmitters for Program One and 27 FM radio transmitters for Program Two; 9 main television transmitters with 130 auxiliary and relay transmitters; and a 10 kilowatt shortwave transmitter.

ISBS PROGRAMMING

ISBS-Program One (Radio) broadcast an average of 17 hours per day in 1985. During that year almost one third of the program time was for music. ISBS offers its listeners a wide variety of music ranging from new-wave and jazz to classical masterpieces. There was less pop music and a little less music in general compared to 1984. Of the non-music programs, the news (17%), various produced programs (14%), educational (8%) and children's programs (5%) were the most predominant.

ISBS-Program Two (Radio) is essentially a light music program, although it also presents a few discussion and interview features. Icelandic music (15%) and foreign music (71%) dominate the program time.

ISBS-Television was on the air for over 1,500 hours in 1985. Television is on the air six days a week. As in previous years, Icelandic programs accounted for about one third of the total transmissions. Almost all programs were in color. News (14%), current affairs (7%), documentaries (13%), sports (15%), movies (15%) and comedy series (10%) were the predominant forms of programs.

RECENT DEVELOPMENTS

On January 1, 1986 a new Broadcasting Act came into effect which ended the ISBS monopoly to broadcast in Iceland. The new Broadcasting Act permitted local

communities and private companies to operate regional radio and television transmitters subject to approval by a Broadcasting Committee elected by the Alþingi. By December 1986, two private radio stations and one privately owned television station were operating in the Reykjavik area. The Broadcasting Committee was considering other applications for radio stations

The new Broadcasting Act has set up a Cultural Fund. A 10% tax on all advertisements carried on all radio and television stations goes into this fund. The fund is used to finance the Icelandic Symphony Orchestra and to fund a special committee for radio program production.

THE SHORTWAVE SERVICE

The ISBS broadcasts on shortwave with a 10 kilowatt transmitter. Programs are rebroadcasts of Programs One and Two and they are intended for Icelanders abroad. Target areas include Northern Europe, Scandinavia, Canada and the USA. The ISBS verifies with a QSL card and English reception reports are okay. Check the latest World Radio Television Handbook for the current address.

SUMMARY

The Iceland State Broadcasting Service has enjoyed a monopoly on broadcasting in Iceland from its inception in 1930. A new Broadcasting Act has enabled private stations to develop subsequent to January 1, 1986. It will be interesting to see if the ISBS expands or alters its broadcasting activities in response to the development of private broadcasting entities.

SOURCE: The 1985 Annual Report of the Icelandic State Broadcasting Service (English Summary)

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Listeners Notebook

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ALBANIA Monitoring research 7-11 May: R Tirana has stopped using fqs in the 40m (7000-7100 kHz) ham band during day and evening. Xmas previously on 7090 & 7065 are now hrd on several new channels on 41m IEC band (7100-7300 kHz) incl 7205 7170 7165 7155 7135 7120 & 7105. Changes may've taken place 3/5. Fq in 40m hamband used by RT since early 1960s. A resolution was adopted at ITU WARC Geneva 1987 Feb prohibiting bcng on this band (WBI 15/5)

ALGERIA ITU THFES J87 shows 2 sites: Ouled Fayet on 6145 6160 7245 9510 and Bouchadui on 7145 9535 9595 9640 15160 15205 15215 17745 11745. Former all 50 kW; latter 50/100 (Bob Padula, April ADXN)

Algerian R's AR svc obs on new LW fq 153 kHz at 1545 12/5. // 891 and other regular MW channels (WBI 15/5)

ARGENTINA Monitoring 28/4: RAE ancd during 2100 EG pgm that from 4/5 EG would be at: 1730 Eu/af 15945. 22 Eu/af 11710 9690. 02 & 04 Ams 11710 and 9690. Ex-1745, 21, 01 and 04 resp (WBI 1/5)

AUSTRALIA returns to std time 15/3, the part of South Australia will continue 10 hours ahead of UTC instead of the previous 9½. ABC have decided to go 24h so that SW stns in Brisbane, Melbourne and Perth relaying ABC domestic pgms will operate thruout the night (March Indian DX Club International Asian DX Review, quoting Arthur Cushen's DX World)

Since 6/4, VLW Perth sked is: 15425 10 kW 23-0915 35°; 9610 50 kW 2100-0940 15°; 0945-1606 35°. 6140 10 kW 21-01, 0915-1606 (both 15°). The 15° beam is to the NW region of W.A.; 35° to Kimberley region. Perth site has one 50 and two 10 kW xmtrs. Propagation tests have been carried out from Shepparton, using 50 kW and 308° curtains centred on Broome. Proposal is that Shep would relay V LW on 15425 day and 9610 night & morn, while Perth 50 kW 15° would operate on 9610 day and 6140 night & morn, eventually with a 24-hour svc (Robert Jones, Australia, May WRTVH Newsletter)

AUSTRIA TAP nx agcy, Rabat, reported 23/4: Austrian Interior Minister stressed his determination to back two projects submitted to him by the Arab ambassadors in Vienna, namely concerning an Arab-lang pgm bc by R Austria Intl and an Islamic Museum probably located at the Vienna Islamic Centre (WBI 1/5)

BOLIVIA 3380, R Cumbre obs w/test xmas 27/4. 0015 t/in until past 0315; mentd "transmisiones en forma de experimentación". Stn had been inactive for more than a year. 4865, R 16 de Marzo, asking for reports, and offering pen-nants and postcards in return. (Fqs measured to nearest kHz, as logged on ICF-2002 in the middle of Asunción. My main rcvrs are out at the ranch where I do all my serious monitoring) (Tony Jones, Paraguay, 28/4)

B R A Z I L 11865, R Anhanguera, here thruout April, tho only barely readable. Impossible to tune in either LSB or USB, and obviously w/xmtr problems. Was earlier on 11735, thought to be using the xmtr of R Clube de Goiânia. Now using own xmtr? Not listed for 11 MHz (Tony Jones, Paraguay, 28/4)

R Aparecida on 5035 at 0130-0205 in PT w/samba mx, clear ID at 0130 & 0200. This is here in Germany a seldom guest, because there is R Alma Ata w/strong coh QRM. 17/5 (Roland Schulze, GFR)

250 kW xmtrs at Brasília listed in J87 ITU THFBS: 6180 08-17 Amazon svc. 6185 00-01. 9635 01-03. 9655 00-01. 9760 21-02. 11785 01-03. 11765 20-21. 11780 10-22 Amazon. 11845 19-20. 11885 21-22. 15205 19-22. 15265 18-20. 15390 17-18. 15440 18-19. 17740 17-18. 17755 17-18 R Surinam Intl relay (Bob Padula, April ADXN)

B U R K I N A F A S O J87 ITU THFBS has two sites registered: Ouagadougou on 6045 at 08-24 Waf, 7230 08-17 Waf, 9515 08-17 Waf, 11815 08-17 Waf, 17770 07-22 Eu, 17830 23-02 Nam; 50 kW exc 250 kW on 16m. And Bobo Dioulasso: 7280 08-22 Naf/Eu, 17780 19-23 Sam, both 100 kW (Bob Padula, April ADXN)

B U R M A Burmese Army Stn at Taunggyi, Shan State, now ops on 6570 ex-5060; hrd Suns to 1330* ancg 45,66m (Oz DX, Australia, via March IDXC1 ADXR)

C A N A D A In addition to RCI SWL Digest sked in May LN, from 19/5 another repeat is available, Tuesdays 1233-1254 on 9625 & 11955 to USA; includes the one-minute-short version of DX news. Other weekend features are now repeated in this time period on weekdays (gh)

C H A D R Chad back on nominal 4904.50 at 1908 5/5 w/FR nx, political reports, Af folk mx; jammer was on 4960 from Libya (Roland Schulze, GFR, 17/5)

C H I N A Shanghai PBS reported 9/5: from 11/5, Shanghai radio will bc three diff svcs on 7 fqs--PBS, Literary & Arts pgm, and Economics Svc. Major readjustments made in organisation & pgming. Shanghai Renmin Guangbo Diantai, focusing on nx, public educ, forn-lang teaching will be on 990 1296 1422; nx on the hour on 990; new nx, sports, wx pgm at 2100 gmt. Shanghai Renmin Guangbo Diantai Wenyi Tai, lit & art, on 1197 and FM 103.7 & 101.7; stereo pgms increase by a sesquihour daily. Shanghai Renmin Guangbo Diantai Jingji Tai, economic nx, spl svcs and popular lit & art, on 792. (WBI 15/5)

C O L O M B I A Monitoring 30/4; Cadena Radio Super in Bogotá ancnd 0000 30/4 that from 1/5, the main stn in the net would begin bcng on new MW fq 970; to improve reception in remote areas (WBI 8/5)

C O S T A R I C A Spanish Foreign R, Madrid, reported 11/5: During visit to Spain by President Oscar Arias, beginning 12/5, a tech coop project for setting up a 300 kW SW xmtr will be finalised. This relay will result in a considerable improvement in tech quality of REE's xmsns to LAm. Project goes back to a preliminary agmt signed in 1986 by Secy of State for /Intl/ Coop, Luís Yáñez, and the CR Minister for Info (WBI 15/5)

C U B A Tele-Rebelde reported 20/4: Radio sigs of local & natl stns in Ciego de Ávila have been considerably improved by 40 kW, tnx to investments totalling more than 120 kilopesos by the comms authority. This benefits R Rebelde, R Progreso, and R Reloj natl nets and R Surco and R Morón prov nets. A facility has been built to upgrade the sig of Rebelde & Progreso w/corresponding installation of xmtrs, aux eqp and a 40' tower; prov radio net and R Reloj now have new eqp which was installed in 15 days w/out interruptions in xmsns of either stn. W/the new installations, Ciego de Ávila prov's radio power has doubled. Efforts are now aimed at improving quality of stn's programming. R Rebelde reported 20/4: In 1987, arnd 155 kilopesos were spent in Ciego de Ávila to upgrade TV xmsns. Two repeater stns of 100 watts each were built in Tamarindo and Florencia. 16 pieces of eqp will be changed this year at the CdA xmsn centre, which is over 30 years old (WBI 1/5)

Just two days before Soviet jamming of VOX ceased, & hardly coincidental, R Moscow resumed MW relays of Nam svc in EG via Cuba, as "Radio Moscow 1040", but on a sked bound to limit it to reception only in the southern tip of Florida: 12-22 every Sunday, and alternate Saturdays, as ancnd. Discovered by Tim Hendel in Miami, where this xmtr overrides 1040 stn in Pompano Beach. FCC Ft Lauderdale monitoring stn not aware of this until I informed them; and they couldn't hear it except by using remote rx on Sugarloaf Key, where the bearing on it was 203°, i.e. in the Havana area. Audio is superior to SW relays via Cuba; believed to be playing tapes in Havana; new arrangement of RM IS (gh)

Cuban TV reported 3/5: from 17/5, IAm & Carib BC Union will bc a TV ncast w/participation of 8 countries: Mexico, Venezuela, Peru, Bolivia, Uruguay, Nicaragua, Argentina and Cuba. Cultural, sports and scientific topics will be discussed but priority will be given to socio-economic and political events so that people will become more aware of the need for a just society. Canada & Spain have expressed some interest in the pga which'll be bc weekly via satellite (WBI 8/5)

C Y P R U S BBC Limassol relay, 18080, 11-1115 EG nx 10/3 (Hans Krohn, FRG, Apr DSWCI SWN) Really? I've never known BBC fq sked to specify this as Cyprus. As a rule, BBC OOB fqs are only from Britain (gh)

C H I L E As soon as a 'truce' due to the pope's visit was over, on 13/4 several FM stns in different parts of the country were attacked by terrorists, and forced to bc msgs; some people were killed in the attacks (gh's summary of an item running over one page in WBI 24/4)

D O M I N I C A N R E P U B L I C Monitoring 15-21 April: 15/4, intl svc of R Clarín obs *1100 on 1700. Opening anmt followed by pga from R Máximo Gómez, part of the Voice of CID (Independent and Democratic Cuba) net, hostile to govt of Cuba u/Castro. R Clarín contd hrd w/pgms in SP until 0200. "Clarín Informativo" nx pga at 00-01 on 21/4 (WBI 24/4)

E L S A L V A D O R La Prensa Gráfica reported 23/4: In view of attack on Catholic stn YSAX LV Panamericana and Archbishopric offices, Culture & Comms Ministry expresses its most vigorous rejection of that irrational act of violence against freedom of speech. Strafing of YSAX carried out by terrorists in unID vehicle 20/4; method used by cavemen in the midst of the 20th century. Since 1980, YSAX target of two violent attacks. Before 1980, xmsn plants in Majicanos /sic/ blown up three times by ultra-rightist groups... (WBI 1/5)

F I N L A N D Since 4/5 all ES & DS pgms from Yleisradio have been suspended and replaced by recorded mx, interspersed w/occl anmts: due to strike over wages (WBI 8/5) Yleisradio reported 7/5: tech's strike has ended; agreed to wage increase of just under 8% over sesquyear. Final limit for return to work is 11/5 (WBI 15/5) R Neth reported 14/5: Two new 500 kW xmtrs at Porri now switched on, replacing xmsns from older centre a few km down the road. Third 500 kW opl by start of June at which time old xmtr site will become history. As a result, temporary cutback to all-dayEu svc in FN & SD. Also bldg new 600 kW MW; old 100 kW at Turku on 963 kHz but limited coverage due to other users of channel. Reach expected to improve next month or early July when new xmtr enters svc (WBI 22/5)

F R A N C E Steady progress continues on preparation for new megawatt AM xmtr. Testing expected to begin in July and regular xmsn in Sept. These new facilities are northeast of Marseille. 5-tower antenna array permits radio sig to be focused in one of four directions with an increase in radiated power (TWR News Briefs, April, via Eric Falkenhan, Baltimore) Still 1467 kHz? a.k.a. MONACO

RFI new sked in EG: 02-0210 9715 6115 5990. 0330-0745 Eu/ME/af/am 11700
9800 9790 9550 9535 7235 7175 7135 6175 6055 6045. 0415-0430 Eu/ME/af/am 11995
11700 9800 9790 9550 9535 7135 7175 7135 6175 6055 6045 4890 1233. 1110-1120
/sic/ Eu/ME/af/am 21620 17850 17720 17620 15365 15315 15300 15195 15155 11845 11
700 11690 11670 9805 9790 6175. 16-17 Eu/ME/af 17795 17620 11705 6175 (WBI 15/5)

The 1110 bc is 15 mins long, not 10, as I first monitored early in April and re-confirmed 26/5 on 15155 (gh)

G A B O N RFI via Moyabi on new 4890, 0420 EG nx, 0430 ID, FR, 17/5 (Roland Schulze, Stuttgart, FRG) Not French Guiana as some have guessed

RFI reported 5/5: 6/5, Gabonese relay at Moyabi will commission new xmtr to relay RFI pgms twice a day. Is omni, covering 250-700 km from xmtr, incl Matadi and Kinshasa (Zaire), Brazzaville and Pointe Noire in Congo, Port Gentil and Libreville in Gabon, Yaoundé & Douala in Cameroon. Pgms will be relayed at 04-05 on 4890, 05-06 on 6175, 06-08 on 7135, 12-14 on 7135. WBI ed note: RFI already uses a xmtr here 03-04 on 6175, 04-05 on 7135, 05-06 on 11700. 06-07 11800, 18-23 on 9790 (WBI 8/5)

Africa No. 1 reported 16/4: economic crisis in Gabon has not spared the media. Council of Ministers chaired by Pres Omar Bongo, 15/4 took measures to reduce hours of xmsn on the two radio & TV channels, w/exception of ANO; also reduction in personnel. Radio Channel 1 will s/on at 05 instead of 0430, s/off at 23 instead of 24, while ch 2 will xmt for 18 hpd instead of 24 (WBI 24/4) The 1987 WRTVH shows no such designation as "Ch 1" and "Ch 2" (gh)

GERMANY EAST Monitoring 29 Apr to 4 May: RBI printed sked for May-Oct 1987 shows 1359 kHz is no longer in use; untraced when checked 29/4. 100 kW xmtr in Berlin had been used by RBI since Nov 1978, Eu svcs 1730-2330; most // SW except 17-1730 Danish, 2245-2330 Italian which were on MW alone. Certain RBI evcs bcs to Eu continue hrd on 1575, introed at beginning of 1986.

RBI in EG: 45 min xmsns. 0115 Am 9730 6080. 0145 Am 6165 6125. 02 Am 9620 9560. 0330 Am 9620 9560. 0345 Af 11750 9730. 0345 Eu 5965. 0545 As 21540 21465 17880 15440. 06 Eu/ME 9620 5965. 0715 As 21540 21465 (Sat/Sun only). 0715 Sat/Sun Eu 9730 7185 6040. 0845 As 21540 21465 (Sat/Sun). 1115 As 21540 21465 17880 15440. 1145 ME/Af 17755 15240 11890 11705 9665. 1230 As 21540 21465 17880 1415 As 17880 15240. 1445 ME/Af 17755 15255 11890. 1515 Eu 9730 7295 6115. 1645 Eu 9730 7260 6115. 1715 Af 15170 15145 9665. 1815 Eu 6115 6080. 1845 Af 15170 11750 9665. 2045 Eu 5965. 2045 Am 6125. 2200 Am 11750 6165 6125. 2200 Eu 7295 5965. 2300 & 2345 Am 9730 6080 (WBI 8/5) One hour later in winter

GERMANY WEST DPA nx agcy reported 2/5 from Berlin: Unrest again amongst staff in top management at RIAS. Directors and pgm dirs come and go. Both dir Peter Schiwy and pgm dir Thomas Bernd Stehling have gone to NDR in Hannover after only 7 months in office. RIAS is in urgent need of stability and continuity, per a statement by the opns committee and being trade union (WBI 8/5)

DPA reported 11/5: Radio Council of Deutsche Welle 11/5 complained about Soviet jamming xmtrs and appealed to Bonn to work for shutdown of them, estimated to be 3000 in number. DW says reception of its pgms in Russian and of those for Bulgaria and Afghanistan 'is very seriously impaired by jamming xmtrs and is made almost impossible in urban areas'. Council expects USSR as part of its Glasnost policy, would put a stop to jamming of the free flow of info & opinions. (WBI 15/5) see also SRI LANKA

GRENADA CANA nx agcy, Barbados reported 15/5 from St Georges: Grenada magistrate has dismissed charges against two journalists accused of illegally operating a commercial radio stn. Prosecution had charged that Stanley Charles & Paul Roberts had in June 1985 /operated/ an FM Radio La Baye w/out licence. Magistrate Anthony Roberts dismissed the case after hearing govt wireless officer Leroy Baptiste insist that he licensed the stn to op in a ltr dated 6/5/85. The case began 22/4/86 but was subsequently postponed several times until 14/5/87. Roberts refused an application by the defendants' lawyer for an order for release of electronic equipment seized by the police. This eqp was related to a charge of evading customs duties. Charles said after the trial he would sue govt for EC\$ 26 million (one EC\$ = 37¢ US) (WBI 22/5)

G U A M AWR Asia EG at 1600 on 11980; addr ancd is P O Box 310, Hong Kong (Y Venkata Ratnam, Phirangipuram, India, March IDXCI ADXR)

G U A T E M A L A Monitoring 20-23 April: R Cultural obs at 10-0730 on 5955 3300 and 730; TGN also ancs 100.7 FM; in SP except 03-0430 EG (WBI 1/5)

G U I N E A Conakry J87 ITU THFS: 6155 1230-24, 06-08. 7125 06-08, 1230-24. 9650 06-08, 1230-24. 11965 06-08, 1230-24. 15310 06-08, 1230-24 All 100 kW to Waf (Bob Padula, Apr ADXN)

H O N D U R A S ACANnx agcy, Panamá reported 8/5 from Tegucigalpa: Hond congress will soon study req to allow installation of a powerful relay stn for the Voice of America. VOA submitted its req to Hond govt but Pres Jose Azcona Hoyo referred it to congress along w/bill for its authorisation. Bill'd grant permission for US govt to retransmit VOA's info and cultural pgms from Honduras. It'd also allow VOA to use 112 ha of land to install its xmtrs, ants and associated struxures necessary for radio bcng activities. Bill says stn'll be subject to Hond laws, but'll be managed by US citizens, who will also be in charge of installation, construxion, admn, opn, maintenance. Hond constitution prohibits management of comms media by forners, reserving right for Hondurans by birth and children of Hond parents (WBI 15/5) Such niceties apparently weren't necessary for US-supported contra xmtrs (gh)

H U N G A R Y MTI nx agcy reported 28/4: R Danubius, GM-speaking tourist & commercial stn in Hungary, is to resume bcs 1/5. Pgm can be received in Lake Balaton area /on 100.5 MHz/ and the new radio tower in Budapest also enables it to be hrd in the region of the capital city and the Danube Bend on the CGIR VHF wave band /103.3 MHz/. 80% of the 14.5 hpd bc, which lasts until 30/9, is mx. Nx & wx 12 times a day, once in EG. Regular info on traffic and other issues of public concern will be provided (WBI 1/5)

R Budapest in EG: 01-0130 exc Mon Am 11910 9835 9585 9520 6110 6025. 02-02

30 Am on same. Wed/Sat DX pgm 03-0315 on same. 03-0330 Mon on same. 0930-10
Au 21525 17710 15220 15160 11910. 1050-1120 M-F Eu 17710 11910 9835 7225 6025.
1415-1430 Tue/Fri DX Eu 11910 9835 9585 7225 6110. 1430-15 M-F As 21665 21525
17710 15220 11910. 16-1630 Eu 11910 9835 9585 7225 6110. Tue/Fri 18-1830 Eu
11910 9835 9585 7225 6110. 20-2030 Eu on same. (WBI 15/5) One hour later wnter

I C E L A N D J87 ITU THFBS has Reykjavik with 10 kW: 7290 1845-20. 9595 12-
13, 1845-20, 23-24. 9720 12-13, 1845-20. 11730 23-24. 11745 16-1645, 1845-20,
11780 12-13. 11805 12-13. 11855 13-1345. 15395 16-1645, 1845-20. 15385 12-13
(Bob Padula, April ADXN)

I N D I A AIR Delhi on new fq 4990 // 3905 0005 in Tamil(?) nx, at 0022 Indian nx
w/SINPO 55444 plus 20 dB. First hrd 18/5 (Roland Schulze, Stuttgart, W Germany)

AIR reported 4/5: AIR net being expanded in a big way: 100 new radio stns to
be set up during current plan /1985-90/ in addn to existing 93. Info & Bcing Mi-
nister, Mr Ajit Panja, told the Lok Sabha /lower house of parliament/ during
question hour that 22 radio stns are to have powerful MW xmters. 16 SW xmters are
also being upgraded. In reply to a question, said border areas have priority in
expanding & upgrading net. (WBI 8/5)

I N D O N E S I A RRI Banda Aceh, 7/4 1620-1704 G w/R Nederland transcription
nx pgm until 1633; Jak nx relay 1700; on 4954.8. RRI Biak, 5982.5, 9/4 1020-10
47, fair; 1030 nx, 1039 ID as RRI Biak Programa Regional w/wavelengths; also 27/
3 1400 local nx (Yasushi Ichikawa, Kyoto, Indonesian DX Review)

I R A N J87 ITU THFBS shows these four sites: Kalamabad 50 kW on 5995; 500 kW
on 6030 6175 7115 7190 7215 9575 9745 9765 11715 11780 11790; 100 kW on 7215,
11930 11955 15315; 50 kW on 11895 11940; 250 on 15310; 350 on 17730.

Zahedan on 6115 11905 11930 all 500 kW. Ahwaz 500 kW on 6165 7260 11860
11875 15160 15365. Mashad 500 kW on 7110 7235 9635 11805 11825 11895 15445.
Note some fqs are used by more than one site, at different times (Bob Padula,
April ADXN)

I R E L A N D Harmonic on 3456 would be 3 x 1152 but uncertain which stn; ab-
sence of 2nd harmonic in this case points to the old R Dublin rig. Boyneside R
recently installed new rig on 1305 kHz at main site at Drogheda; may well account
for xmters on 1143 22/2 and xmters hrd 25/2 on 1323 w/strong 2nd on 2646; or maybe
it was the Rainbow rig testing. Mid Way R noted on 2988, 2 x 1494. R Luimni
on 3375, 3 x 1125 (Ken Baird, April DSWCI SW News) ISLE OF MAN see TONGA

I S R A E L IDF Radio reported 5/5: Today cabinet ratified agmt w/US on estab-
lishment of VQX relay stn in the Arava. At least 50% of the construction work
will be handled by Israel sub-contractors (WBI 8/5)

Monitoring 29/4: IDF Radio (Galei Zahal) ancd at 0500 29/4 inauguration that
day of new MW xmters, the IDF's strongest to date, in the north of the country.
It is considered 2nd stage of plan to install IDF xmters thruout Israel. In the
first stage, 3 xmters dedicated last year. Spl bcs for Independence Day should
be rcvd clearly tnx to this xmters, 50 kW on 1368 kHz (WBI 8/5)

V of Israel in EG: 00-0025 Eu/Am 11610 9855 9435. 01-0125 same. 04-0415 Eu/
ME/As/Au/Am 17685 17620 15585 11960 11700 11585 9855 9815 9435. 10-1030 Eu/ME/
As/Au/Am 17815 17685 17630 15650 15640 15095 11700 11605 11585. 17-1715 Eu/ME/
As 15095 13748 11585 9460. 19-1930 Eu/As/Am 17685 17630 13725 12080 11700
11655 11610 9010. 2130-22 Eu/Am 15585 15485 13725 11700 11610 9435 9010½. 23-
2330 Eu/Am 11610 9855 9435. (WBI 8/5)

I V O R Y C O A S T IC radio reported 4/5: Listeners will enjoy new nx pgms
from 7/5 w/the 06-08 period devoted essentially to nx. So 3 nxcasts every morn
at 06-08 instead of 2; first at 0615-0630, second 07-0715, third 0745-08; also
at 0650-07 either interview or report or commentary (WBI 15/5)

J87 ITU THFBS: Abidjan registered on 7215 50 kW 06-08; 11920 500 kW 19-24;
6015 500 kW 06-19, all to Waf (Bob Padula, April ADXN)

J A M A I C A CANA nx agcy reported 24/4 from Kingston: PM Edward Seaga 23/4
opened parliamentary debate on govt's 1987-88 growth budget of 6.9 gigadollars
Jamaican (1 Jam\$ = 18¢ US) to be financed by borrowing 8868 mega\$J and revenue
of 1385.6 mega\$J. 12 govt hotels would be put up for sale, also the state-owned
bc media... The state-owned JBC radio & TV stns are to be privatised, w/workers
owning shares and a licence'll be issued for a new TV stn. Govt will also sell
its shares in the other main radio stn here, R Jamaica. After divestment of the
bc media, Seaga said, govt'll establish a public bcing corp to feature cultural,
educational pgming... (WBI 1/5)

K E N Y A VOK Natl Svc, Nairobi, in Swahili+0200(Sun 0230) on 6075; 0625 change to 7140; 1330 to 6150; 1830 add 4885 to 2010*(Sat/Sun 2110*). General Svc, Nairobi, in EG; 0300(Sun 0330) on 6045 to 0620*; Sat/Sun 0620-0900 on 7270. Daily 09-11 on 7270; Sat/Sun 11-13 on 7270. Daily 13-1315 7270, 1315-2010*(Sat/Sun 2110*) on 6100. Also, during term time educ pgms on natl svc fqs weekdays 0620-09 & 11-13. Central Svc, Nairobi in Kikuyu, Kikamba, Kimaasai, Hindi, Kimeru on 4915 0230(Sun 0700)-1930(Sun 1700). Eastern Svc, Mombasa in Somali, Turkana, Rendille, Burji, Borana Mon-Sat 0230-0715 on 4885; 0715(Sun 07)-1330(Sun 14) on 7240; 1330(Sun 14)-1745(Sun 17) on 4885 (WEI 24/4)

L A O S Monitoring 4/5; 11-1130 FR from ES of NRL in Vientiane now hrd on 15420 & 11960 (ex-11830 & 15190), via USSR xmtxs (WBI 8/5)

L I B Y A Report of monitoring R Janahiriya, 7245.0 kHz, in Arabic 23/4 on a Yaesu FRG-8800, MFJ-1040, Yaesu FRT-7700, B&W ASW-60; SINPO averaged 5; strength 40-60 dB, averaging 48 dB. Tuned in at 0050 to talk show hosted by M ancr, focusing first on poets, poetry, selection of certain words for poetry and use of the dictionary in poetic pursuits. 0054 three tones, 0057 CW signal of two-three words repeated, then suddenly ended (sorry, my code is terrible these days--no idea what they said). 0100 into song by M Arab singer, two unID pulses at 0103. At 0105, ancr returned speaking in a very slow, poetic Arabic about giving a description of the artistic talent and abilities of the (former) male singer, also mentioning that he was from a small coastal town (didn't catch name). At 0107-0114 a beautiful Arabic song came on by a group of young Arab women. 0114 chimes and 5 time pulses leading up to 0115 when M ancr returned to intro nx and the benefits of having it presented by a govt that understands a democracy--which is actually only a real democracy if it comes into existence by a conference of people (of course!) then these nx items: 1) visit of Sir Geoffrey Howe --specifically Australian--Libyan--US relations, the Gulf's importance to our 'plans' and the USSR's; 2) the Israeli helo attack of refugee camps near Ein-el Hilweh refugee camps near the Lebanese port city of Sidon (Sayda in Arabic). 3) PLO conference in Algiers--calls for unity, agitation of Arabs to Palestinian cause, taped interview courtesy R Algiers of a Doctor Bronchyski (sp?) from the conference, speaking on how Palestinians should strive to safeguard their rights. 4) Javier Pérez de Cuellar's visit to Egypt. 5) King of Saudi Arabia Fahd abd al-Aziz's visit for one day to France. 6) Pres Mitterand of France's visit for one day to Morocco. 7) Hafiz al-Assad, Syrian pres' visit to Moscow to meet Gorbachov; funny item: used Arabic word for castle or palace (Qask) for the Kremlin. An ID was hrd at 0127, calling themselves: 1) R Janahiriya; 2) Sawt al-Watan Al-Arabia Al-Kabira ("the voice of the big/large (not "great") Arab Nation/Homeland) 3) Sawt Al-LiJan At-howria ("the voice of the revolutionary council"). From 0128 to apx 0140 intense QRM, believed to be Chadian jamming effort, perhaps even Egyptian-aided. Libya jams Chadian fqs daily and I believe Chad with its newly found backbone from military victories at Wadi Doum in southern Libya/northern Chad area are sufficient impetus. Believe Qaddafi himself came on the air for a couple minutes at 0128--perhaps another reason in itself for the jamming. 0200 into talk show w/wonderfully exciting topic of none other than Arab unity and Arab nationalism. Believe Libya is trying to doubly emphasize their everything-here-is-OK image after the crushing blow dealt by Chad. Recent days listening have noted more and more colloquial Libyan Arabic pronunciations and an ever-increasing moderate tone and number of calls for Arab nationalism--the classic wounded call for friends and money. By 0245-0300 into some beautiful music, by most famous Arab female singer of all times, the late Umm Kalthoum. at 0300-0308 call to prayer, reading and mx (contemporary) 0311-0327; CW QRM, fading at 0328; 0329 QRM probably from Deutsche Welle (James Kilgallen, San Angelo TX)

JANA nx agcy reported 18/4: Natl Basic People's Congresses in the municipality of Benghazi took part in the placing of the corner stone of the building of the Great /sic/ Arab Homeland radio stn, the V of the Revolutionary Committees... (WEI 24/4)

Monitoring 1-17 May: Since early May, Libyan radio's pgms in AR from Tripoli have been hrd on 9890 USB. Fq had not been obs for several months, currently monitored from apx 10 to 1230. Other fqs used at various times incl 21645 15415 9600 7245 6185 1251 (WBI 22/5)

J87 ITU THFBS shows 3 sites registered: Sebha 100 kW on 6000 08-18. Benghazi 100 kW 9600 at 04-23; all the rest Tripoli 500 kW: 6155 7120 7150 7165 7245 9615 9655 9705 9745 11755 11790 11795 11815 11865 15235 15415 17895 21455, and 100 kW on 6185 (Bob Padula, April ADXN)

LUXEMBOURG RTL French svc from main studio centre in Paris: 0400(Sat 0430)-0400 on 15350 and 236 kHz. RTL German svc 06-24 on 6090. RTL English svc 00-03on 6090. During summer time all one hour earlier than shown (WBI 8/5)

MALAYSIA VOM ES sked in WBI shows minor differences to WRTVH 87; Malay 0830-1030 on 15295 and 9750; Tagalog 1030-13 on 1475; Indonesian 22-24 on 6175 & 6100, not 9750 (WBI 22/5)

MARSHALL IS I've been quite inactive of late, except for trying to log & tape WSZO 4940. And that was getting to be a pretty depressing activity, as 12 tune-ins during month of April met with nothing more than carrier detection. But Voila! at 0902 t/in 6/5 there it was, coming in at a solid S9 in QRN on a satisfactory /?/. YL w/nx in EG 0910 to about 0915. By 0930 sig was up to plus 10 dB over S9 compared to a plus 20 dB over sig for Moresby on 4890--and keeping in mind Papua propagation is inferior in Maine--would rate this an exceptional day. 219th country hrd (and just when you think you ain't going to hear no more new 'radio' countries it seems like an O-my-goodness--what's its-name is being hrd--turns up)(Maxfield Greenwood, Sedgwick ME)

MOZAMBIQUE Noticias, Maputo reported 22/4: Three xmters, 2 SW and one MW which had been out of order for several years, have been repaired and are operating at the R Moz stn in Namputa prov. These xmters have substantially increased power of stn which had only been using one small MW. Repairs carried out by a team of RF techs which included a tech from R Moz HQ and two from the local stn. For over a week now, R Moz's Namputa prov bc has been hrd in neighbouring Cabo Delgado, Niassa and Zambezia prov as well as in other more distant provs. This depends, however, on atmospheric condx, time, geog position, terrain. Most powerful of stn's 3 repaired xmters has power of 7.5 kW and bcs Prov Pgm on 60 m, 4946, everyday throuth the day, except between 08 & 15. Other SW xtr has 250 W and only works 08-15 on 42m 7253. This low-power xtr supplies areas closest to prov capital which are not reached by mw. That's why as in case of 60mb xtr, reception in the town is not perfect. 60mb xtr aerial is directed at more distant areas. R Moz techs also repaired a 250W MW xtr which is used as standby for any emergency, or to substitute usual mw xtr when it is being repaired. MW pgm is bc by 5 kW xtr for 19hd on 245m or 1233 kHz, which reaches mainly Namputa's urban and suburban listeners (WBI 15/5)

NETHERLANDS RN reported 19/5 1130: Today marks offl opening of RN new Flevo xtr site; official activation just performed by HRH Prince Claus. New xtr and SW aerials are in Flevo Polder, NE of Amsterdam. 4 x 500 kW and a reserve 100; represents investment of some 45 mega\$. WBI ed note: Flevo xmters began testing Oct 1984 and commenced full svc on 31/3/85 (WBI 22/5) & bit late w/the official opening (gh)

NETHERLANDS ANTILLES The new /replacement 500 kW 800 kHz/ xtr arrived on Sat 28/2; seven hours later all 45 crates were safely home at the xtr site. Unpacking each crate took much longer, but the final assessment was rewarding; only a few pieces had minor damage after miles of trucking and a long ocean voyage /from Transkei, South Africa/. Jack Ryon and crew are rebuilding Diesel #1 and installing new pistons that will make the engine run more efficiently. After the work is completed, Diesel #1 will be used 95% of the time with Diesel #2 used mainly as a back-up. This should result in a significant savings in fuel costs and less maintenance time (TWR April News Briefs via Eric Falkenhan, Baltimore MD)

NEW ZEALAND see TONGA

NICARAGUA El Nuevo Diario reported 22/4 that Col Leopoldo Rivas, Minister of Telcel has complained about radio and TV aggression against Nic from neighboring countries; incl El Salvador TV ch 4 and 12 using more power than necessary to cover El Sal, and running msgs aimed at Nic people suggesting that things were better under Somoza; a peasant in Nueva Segovia tunes across the radio dial and hears HRN, mercenaries' stn, VQA all w/anti-Sandinista msgs. Costa Rican commercial stns bombard Nic w/rightist values of the enterprise sector, tho Nic people cannot indulge in consumerism. VQA is spending \$2 billion to expand Carib basin installations; 500 kW repeater being built in Cape Rojo, Puerto Rico. In 1985, Hond govt agreed to allow VQA to install a repeater stn in San Lorenzo in the Gulf of Fonseca, a few km from Nicaragua. This relay stn thus was added to stns already in other areas of Honduras, in El Salvador and in Belize, all capable of penetrating Nic. VQA relay installed in 1985 in northern CR in an area occupied by the Contras. 100 kW daily to Nic in Spanish, Miskito, English (gh's summary of 2½ page WBI 1/5 item)

VQA does not acknowledge any relay stns as yet in Honduras, contrary to Rivas' claim; could the one at San Lorenzo actually be the clandestine R Liberación, 1520? (gh)

N I G E R V of the Sahel. Niamey, reported 14/5: Reception of the V of the Sahel/Niger radio/ will henceforth be improved. This morn our directors rcvd a 100 kW SW xmr and a 20 kW MW xmr. The xmtrs and their installation were financed by the FRG at a cost of 7.8 megADM, that is 1.3gigaCFA francs. With the installation of these new xmtrs, which are already functioning, our listeners abroad and in the interior of the country, especially in remote areas like Tanout, Diffa, Tahoua and Agadez for example, will hear our pgms w/better reception. In addn to FM and MW relaystns all over the country, this new eqp is a sign of progress. However, a lot remains to be done. Following installation of these new xmtrs--MW at Diffa and the FM at Maradi and Dosso--next targets will be Tahoua, Agadez, and even Arlit. Recently installed eqp will also improve quality of our intl bcs (WBI 22/5)

N I G E R I A R Nigeria, Kaduna, reported 13/4: Fedl govt has again been asked to remove bcing from the unified salary struxure for efficient svc. Natl Genl Secy of the Radio, TV and Theatre Workers Union (Rattawu), Mr Edeem Ekpe, made the call today in Kaduna on realisation that workers in the bcing svc have been IDed w/hard work. On commercialisation of the FRGN, the union leader said FRGN should be allowed to run ads like the Nigerian TV Authority. Mr Ekpe also called for abrogation of decree amending the natl minimum wage on basis that the new decree will give room for exploitation by for and private companies (WBI 24/4)

Monitoring research 11-27 Apr: Since 11/4, a R Nigeria Lagos stn obs on 4931.86 kHz signing on betw 0520 & 0530. Stn IDs as R 2 of R Nigeria Lagos and is hrd until f/out at abt 0630. Pgm appear mainly ax reqs and entertainment, and apart from nx, are not linked to other R Nigeria Lagos svc on 4990 & 3326. In Oct 1983, R Nigeria hrd testing xmr on 4932 for its planned Educ Svc (WBI)

N O R W A Y RNI has Atlantic Ocean Weather Report, in Norwegian, daily: 0055-01 9620, 0255-03 9580, 1455-15 15310, 2255-23 9605. English half-hours Sundays & UTC Mondays: 10 15230 15175 11870. 13 17760 15310 9590 6040. 14 15310 15300 15250. 16 17840 15180 11925. 17 15310 11925 9655. 19 15310 11925. 20 15310 11865 9590. 22 15165 11930 9605. 00 9605 9580. 04 11735 9650. 05 15180 11735. There is also a weekly 5-minute nx in Spanish on Mondays/UTC Tuesdays at :40 past the same hours as EG and on the same fqs (WBI 8/5) fqt changes; v SWEDEN

O M A N J87 ITU THFBS shows two sites registered: Seeb and Thumrait: 6085-S 100 kW 02-04, 17-22. 7270-S 100 14-17. 9735-S 100 04-14. 9735-T 100 14-22. 11 890-S 50 03-16. 15385-T 100 08-14. 17735-T 100 02-08 (April ADXN, Bob Padula)

P A P U A N E W G U I N E A NBC ancd 10/3 that an agmt signed that day between Japanese and PNG govts for NEC to supply eleven 10 kW SW xmtrs and associated eqp, costing 4 megakina. The eleven port stns affected (in present fq order, the Wabag to move soon) are: Wabag, Vanimo, Lae, Madang, Radio Central in Port Moresby, Daru, Wewak, Kundiawa, Alotau, Mount Hagen and Rabaul. Kerema on 3245 and Kieta 3325 were the only sites that rcvd new NEC 10 kW xmtrs in 1986. Lae and Kundiawa (contrary to info in some DX clubs) are both still 2 kW per NBC Tech Dir. Construxion of planned natl SW stns, near Lae, has not yet commenced; awaiting funds (Oz-DX, Australia via March IDXCI Asian DX Review)

P E R U R Andahuaylas, on 4840 at 0028 w/lovely Qx nx and clear ID; AIR Bombay was in background at same time w/nx 18/5 (Roland Schulze, GFR)

P H I L I P P I N E S 6170 often IDs as "Sports Radio", on "7-3-8"; hrd 22/3 1151-1405 in EG, nx at 14 (Yasuuyuki Masuda, Aichi, Japan, Indonesian DX Review)

P O R T U G A L RDP Intl reported 25/4: From 15/5, RTP Azores /Azores TV/ will be relaying to USA & Canada by satl a weekly pgm of regional nx & coverage of main events in Portuguese life. Per the Port Times of New Bedford, bcs will be carried every Fri on the PT channel and other PT-Lang TV pgms. May also be rcvd directly by viewers w/dish aeralis. Pgm will be on transponder 10 of Westar-4. Will be produced by Azores regional centre of RTP and paid for by the regional govt (WBI 1/5) REVIEW OF INTERNATIONAL BROADCASTING Satellite Watch columnist Loren Cox, Lexington KY, has been watching this & enjoying the images (gh)

Q A T A R J87 ITU THFBS registrations: 100 kW: 11785 03-0645, 17880 08-1045, 17805 13-17. 250 kW: 9585 0245-07, 15395 08-13, 15265 13-2130 (Bob Padula ADXN) QBS AR pgm, Doha: 0245-07 11965, 07-13 15395.7, 13-1730 17810.8, 1730-2130 on 11820 (WBI 1/5)

S A I P A N R Neth reported 14/5: New owners of KYOI, the rock mx stn for Japan, the Christian Science Monitor in Boston have switched from hard rock to soft rock mx xmsns but it won't be until much later this yr that pgming will switch again, this time to nx and current affairs along lines of current pgm to Eu from Maine. Annetta Robinson, mgr of Herald BCing which runs stn told Media Network that a decision as to exactly when in the southern US they will build the third xmtng centre has not yet been made (WBI 22/5) I thought she said 'where' (gh)

S A U D I A R A B I A BSKSA, Diriyya, 1953-2103* in AR, lcl mx, march mx, 20 20 talk abt Israel, no Na at s/off and no amnts 7/5 (Roland Schulze, GFR) & no fq-you forgot it, hi (gh)

BKSA, Riyad/Jiddah ES: 03-05 Persian 15245 7195. 04-06 TK 15060 11685. 05-07 Holy Koran to Nas 17740 11730. 07-10 Holy Koran SAs 21495 17895. 10-12 Indo 21495 177607. 10-14 Holy Koran Af 15170. 12-13 Bengali 15345 11825. 13-15 Urdu same. 14-16 FR 9720 9705. 15-16 Turkmen for USSR, Iran, Afgh 9730 7155. 15-19 Holy Koran Af 7250. 16-17 SH 15165 11915. 16-21 EG Eu 9720 9705 incl nx at 1830-1845, 2045-2055; Saudi nx at 1845-1855. 17-18 Somali 11910 9520. 18-19 Bambara Af 15060 7275. 19-21 Holy Koran ME/Af 9610 7275 7250 (WBI 22/5)

J87 ITU THFBS shows BSKSA has 3 sites: Jeddah 50 kW on 6020 7250 7280 7290 970 9705 9720 11870 15140 15170 15435; 100 kW on 11855.

Dirriyah 50 kW on 6000 7220 9720 11950.

Riyadh 350 kW on 7150 7155 7195 7210 7275 9520 9610 9620 9655 9665 9730 11720 11770 11900 11910 11915 11965 15165 15245 15345 15370 15410 17740 17895 21495 (Bob Padula, April ADXN)

FEBA RADIO - SEYCHELLES

FINAL J87 BROADCAST SCHEDULE 3 MAY 1987 TO 5 SEPTEMBER 1987

Time UTC	Languages	Zones	Frequencies (kHz)	Azimuth	Power (kW)
0127-0231	Tamil,Telugu	41	7275	040 B	50
0200-0232	Urdu	41 41	9645 11790	028 N 028 N	25 75
0232-0248 (Su-M)	Punjabi	41 41	9645 11790	028 N 028 N	25 75
0232-0248 (Th-Sa)	Sindhi	41	9645	028 N	75
0248-0304 (Su-M)	Pushto	40,41	11790	028 N	75
0248-0311 (Th-Sa)	Dari	40,41	11790	028 N	75
0257-0330 (0340 Th,F)	Farsi	40	11865	352 N	100
0310-0358	Swahili	48,52,53 48,52,53	9610 11810	280 B 280 B	25 50
0342-0430 (0445 Su, 0500 F)	Arabic	38-40,48	15300	340 B	100
0358-0430 (Sa-M)	Oromo,Aharic	47,48 47,48	9610 11790	328 N 280 B	25 75
0358-0430 (Tu-F)	Tigrinya	47,48 47,48	9610 11790	280 B 328 N	25 75
0430-0502 (Su,Sa)	French	52,53	9610	280 B	75
0557-0700 (F only)	English (N.East)	38-40,48 38-40,48	15175 17855	340 B 340 B	50 100
0712-0835 (Su only)	English (S.Asia)	41	15115, 17785	040 B	50
0912-1000 (0930 Tu,W; 0945 Th)	French	53	15430	220 B	50
1000-1015 (Sa only)	Malagasy	53	15430	220 B	50
1057-1145 (1200 Su,Th,F)	Arabic	38-40,48	15405, 17875	340 B	100
1227-1300	Malayalan	41	11735	040 B	50
1227-1315		41	15325	040 B	25

1233-1251	Nepali	41	15415	040 B	100
1252-1400	Hindi, Kannada	41	11895	040 B	100
1300-1400	Tamil	41	11735	040 B	50
1330-1400		41	15325	052 N	25
1400-1458	Hindi	41	11865, 15325	040 N	100
1458-1513	Urdu	41	11865	040 B	100
1458-1611 (1625 M-F)	English (S. Asia)	41	15325	040 N	50
1515-1611	English (S. Asia)	41	11865	040 N	50
1612-1658	Swahili	48, 52, 53 48, 52, 53	9770 11860	280 B 280 B	100 25
1658-1715 (1730 W-Su)	Somali	48 48	9770 11860	340 B 280 B	100 25
1730-1833	Oromo, Amharic	47, 48 47, 48	9510 11860	280 B 328 N	100 25
1827-1900 (1845 Tu-Th)	Portuguese	53, 57	6080	220 B	75

B: Indicates broad beam of 68 deg at 6dB points.
N: narrow 36

CABLE: FEBCOM
SEYCHELLES
TELEX: 2287 FEBCOM GZ

FEDA Radio
PO Box 234
Seychelles.

20/04/87
MHC
broaschd. J87

(via gh)

S O M A L I A R Mogadishu ES sked is same as WRTVH 87 except: The Somali at 0930-10 is the bland Voice of the Western Somali Abo Liberation Fronts; the 1230-1430 gap is partially filled by: 1330-14 Afar(?) and 14-1430 AR; all on 60 95 incl EG 12-1230 (WBI 1/5)

S O U T H A F R I C A Monitoring 3/5: Printed sked from R RSA J87 shows substantial reduction during summer/sic/ in beaming of morn bcs to Eu. FR 0430-0630 & 12-13; EG 0630-0730 & 11-13, PT 1030-1130 now beamed only to AF. However PT pgm for Eu added at 19-20. Tent S-87 sked shows re-intro of Eu beam for morn xmsns. Lozi to Caprivi Strip & Zambia (now 1530-18) reduced by 50% to 17½ hours a week. 1800 FR extended by one hour to 20. Total overall output unchanged (WBI 8/5)

R RSA, in EG: 02-03 Am 9695 9615 6010. 03-0430 Af 7270 6120 5980 3230. 0630-0730 Af 11900 9585 7270 5980 incl DX Corner Sun 0650-07. 11-12 ME/Af 15185 11900 7295. 13-16 Eu/ME/Af 21590 17780 15185 9585 incl DX Corner Mon & Thu at 1303-1315. 21-22 Waf/Eu 11900 9585 7270 (WBI 15/5)

R RSA ancd at 2100 16/5; now on 11900 9585 7270, but from 17/5 11775 ex-11900 (WBI 22/5)

S P A I N REE in EG: 00-01 & 01-02 Am 11880 9630. 05-06 Am 6125. 1830-1930 Eu/ME/Af 15375 9765 9745 7275. 2030-2130 Eu 9765 7275.

Nx in Catalan, Galician, Basque: 0930-10 (starting in SP) 21575 17845 17770 15395 11920 11815 11790 9875 9570. 1930-20 17890 11920 11790 9875 9570. 23-2330 Am 15125. The 0930 beams to Eu, and the 1930 are one hour later in winter.

Special xmsns in SP: 0250-03 Tue-Sat Chile Actualidad 9630 9360 6125 5970. 1405-15 Mon-Sat Spaniards at Sea on 21575 17890 17845 17770. During the 2300 xmsn /day not known/ Cita con Paraguay on 15365 11945 11775 9745. 2350-24 Mon-Sat Chile Actualidad 9360 5970. Ladino for Sephardic Jews in ME Thu 1830-19 21 575 (WBI 22/5) see also COSTA RICA

S R I L A N K A Deutsche Welle says it has established that there are shortcomings and deficiencies in reception of its bcs 'mainly in Asia and in the area of Communist dominance,' In Sri Lanka, circumstances resembling civil war had for two years prevented the full opn of a newly-built relay stn in Trincomalee in the NE of the island state. DW was now engaged on finding replacements and alternative solutions as a precautionary measure (DPA 11/5 via WBI 15/5)

Last month we mentd the cotter pin project had come to a standstill; these cotter pins are part of the guy wire assembly which holds up the towers in Puttalam. They are badly rusted and need to be replaced soon. We thank the Lord that the last two cotter pins on one tower have been replaced. Pray that the proper materials will be found to finish this job and for the safety of the men who must climb the towers.

We are still seeking a license to reimport broadcast tapes back into India

As it stands now, several thousand tapes are stockpiled here in Colombo due to the fact that we cannot economically send them back into India. Now a decision has been made to shift from reel tapes to cassettes for broadcast tape production in India. This will be more economical in the long run. However, this means that several cassette tape recorders need to be sent into India and it is possible for duty to be as much as 300% of the invoice value. SL is now in the midst of a severe drought. Please pray for rain for Sri Lanka! We anticipate having our new sesquidecade license agreement to continue AM broadcasting in SL approved very soon (TWR April News Briefs, via Eric Falkenhan, Baltimore MD)

S W E D E N RSI reported 14/4: From interview with new head of RSI Lars Hamberg; hopes to increase audibility by finding a way to create relay stns; may not be possible but will try to reach some results. RSI pging is already of high quality but may get into some new subject matter, such as pgs for tourists. Big problem about relay stns is legislation. At present Sweden cannot bc form pgs from foreign countries; we have started a discussion w/R Canada Intl for an exchange of relays which would be very important for both. But it's impossible --you have to create a Swede as being responsible for the Canadian pgs being bc on Swedish xtrs. Don't know how to solve this. On the other hand there could be a one-way agreement, and we are very interested today in Norway which has very strong xtrs; we will negotiate with them and see what is possible to do; optimistic that parliament would allocate funds for that (WBI 24/4)

T A H I T I R Tahiti has now appeared w/stronger sigs due to arrival of spring. 15170 appears arnd 0200 w/F sigs; however 11825 is strong w/out QRM arnd 0500 (Chuck Weiss, OH)

T O N G A (& NZ & UKOGBANI) R Australia reported 19/4 on Talkback: R Rhema, /other DX editors, note spelling:/ Christian being stn based in New Zealand has and it intends to extend opn to UK. Pres of stn Richard Berry confirmed --it has taken up a lease on Manx R on the Isle of Man to bc Christian pgs for 10 hours a day. Expected to start in Oct this year and lease will expire in 1990. R Rhema also recently gained approval to commence being in Tonga. Berry said King of Tonga had approved the move but tech & funding details yet to be finalized. Berry said that while in Britain later this month, he expects to set up an intl fund to operate Tongan venture which'll include simultaneous AM, FM & SW bcs. R Rhema has two licences in NZ, in Christchurch and Wellington, and it gained a temporary test xmsn licence in Auckland where it hopes to establish a third NZ stn w/in the next twelvemonth (WBI 24/4)

T U R K E Y VOT general ES in TK found on 15200 ex-15245 05-16 18/4. On 19/4 & 20/4 xmsn obs to have reverted to 15220, a fq used to carry this svc for many yrs. 15220 last obs 23/3/87. 21/4, fq changed back to 15200 but moved again to 15220 on 22/4 (WBI 24/4)

U G A N D A R Uganda on new 10780, EG 0433-0440, SINPO 32233 (undated, Dick Moon, RSA, April DSWCI SWN) Must be spurious (Anker Petersen, DSWCI ed).

Some interesting J87 ITU THFBS regs for 250 kW xtr: 6030 0845-11, 13-16, 9515 16-18, 9685 19-21, 15235 03-0430, 15250 18-19 (Bob Padula, Apr ADXN) Letter to D'Angelo, DX LISTENING DIGEST, says 15225 off for another few months

U S A WGSN's best reception is on 9465. Strong and no QRM. 15270 weak and suffers from QRM and 21640 isn't audible/no longer on since May/. 9815 also weak & QRMed (Chuck Weiss, OH, undated--late April?)

Annt on VOA nx 25/5 that Soviet Jamming of VOA had stopped. Hoped this cessation would extend to R Liberty, RFE, DW and Israel (we should not hold our breath). Random monitoring of VOA Russian seems to verify this annt (Paul Buer, Miami FL) On the contrary, it soon became clear that the jammers formerly vs VOA had been moved onto RFE and RL to increase their jamming. See CUBA (gh)

U S S R On 1/5, All-Union R DS in Moscow carried spl reportage from May Day parade in Red Square. 0515 all Orbita versions of Pgm I linked w/EU USSR Pgm I. Joined by Mayak at 0545, and live report in RS began at 0550; until 0810 on some 71 AM SW channels betw 5.9 & 21.66 megahertz, incl fqs beamed to Sov seamen & compatriots abroad. RMWS carried EG report from Red Square; hrd on some 39 AM SW ch at /omitted/. FR lang R Moscow Intl (RMI) bc its own contry at 0550-0630 obs on some 16 SW ch (WBI 8/5) Omitted EG time was 0550-0636 (WBI 15/5)

R Kiev in EG: 02-0230 Am 13645 11875 11790 9800 9640 7260. 18-1830 Ebu 9710 9560/typed as 5960/ 7330 7150. 2330-24 Am 13775 13645 11875 11790 9800 9640 7260. Ukrainian to Am: 0230-03 9800 9640 7260; 21-22 13775 13645 11875 11850 11790 9800 7335 (WBI 22/5) One hour later in winter

R Vilnius, in EG: 2130-22 Ru 6100 666; 22-2230 Am 13645 11875 11790 9640 7260; one hour later in winter (WBI 22/5)

R Stn Soviet Belorussia, Minsk ES: 1730-18 9560 7330, 2030-21 7205 6185. In Belorussian except: first xmsn every first & 3rd Sat in German; 2nd xmsn every 2nd & 4th Sat in German; one hour later winter (WBI 22/5)

R Moscow feeder on new 3384 USB 1930-2159* w/time pips and IS, Russian mentd Moscow & Leningrad; folk mx, 6/5 & 7/5 2100 nx; but 10/5 to 1940*; unk QTH (Roland Schulze, GFR) see also CUBA and U S A

I wrote to Ol'ga Milyaeva asking if it could be possible to have a Russian form letter made up to send to domestic stns in order to QSL Soviet HS bcs. I should have known, but I gave it a try: (C Brian Hamilton, Palm Coast FL)

Apparently you think a QSL letter in Russian would help you get your reports of reception of Soviet stns' home svc bcs verified. Let us assure you that stns having only domestic xmsns do not verify reception reports even written in Russian. They do not have QSL svc at all, and we are afraid there is no way to get reports of Sov stn's HS bcs verified. With best wishes, (Miss Olga Milyaeva, WS Letters Dept, 17/4 response to Hamilton)

V A T I C A N Vatican R First Pgm, EG: 05-0520 9645 6185, 1345-14 11740 9645 7250 6248, 1950-2010 9645 7250 6190. Also EG segments in Four Voices pgm: M-Sa 06-07 11740 9645 7250=to 0610 6248; 1030-11 M-Sa 11740 9645 6248, 15-1530 M-Sa 11740 9645 7250 6248, 19-1910 M-Sa 15120 11700 9645 9625 7250 6248 6190.

VR Ovrseas Svc in EG: 0050-0115/sic/ Am 11900 11780 9605 6030, 0310-0330 Am 6150, 05-0515 Af 15190 11725, 0615-0630 Mon-Sat Af 17730 15190, 0715-0730 M-Sa Af 15190 11725, 1115-1130 Af 21485 17840, 12-1215 Af 21485 17840, 12-1230 M-Sa As/Au 17865 15190, 1448-1454 As 15090 11845 9610, 1545-16 Af 17730 15120 11810, 2045-21 Af 15120 11760 11700 9625, 2205-2230 As/Au 11830 9615 6015.

Mass in Latin: 0530-06(Sun -0610) 15120 11740 11715 9755 9645 7250 6248. (WBI 24/4)

V E N E Z U E L A R Mara, 3275, reactivated recently, seems quite hard to QSL. You may be more lucky by writing to Juan Rincón Barboza who is in charge of the pgm 'Cita con el recuerdo' M-F 01-02; or Rafael Oliveros Rodríguez who M-F 02-03 presents "Tangos...y algo más". (But please enclose a PPC -DSWCI ed Finn Krone) Comments on pgm always welcome if reception condx allow. Slogan is "R Mara, una emisora de clase para todas las clases". Format is diff from other Venez. Mainly sell full hours of pgm space to agencies or DJs and do not play much natl ads, but regional ones; some sponsors are: Banco de Maracaibo, Lotería de Zulia, Auto repuestos La Curva, Farmacia Fléming, Seguros Roliver--chief of Roliver insurance is Rafael Oliveros R, who produces the tango pgm. As stn is in Zulia capital Maracaibo, you may also listen to folk sounds of that region, "La Gaita," normally dominated by a singing chorus and a rather fast rhythm. Sked pgms may change when baseball championship is bc live. Zulia prov team is Los Águilas (Michael Schmitz, W Germany, April DSWCI SW News)

V I E T N A M VOV in EG hrd on air: 10, 11, 1330, 16, 18, 19, 2030, 2230, 2330 on 9755 9840 12020 12035. But I hrd this bc on 15010, good sig and none of other fqs audible (Chuck Weiss, OH) Stn notorious for anncng and mailing outdated skeds. It can be expected to use 15010 as main fq in summer (gh)

Y E M E N E A S T - S O U T H E A S T DYBS Aden reported 1/5: in a May Day ceremony, Dr Yasin Sa'id Nu'man, member of Politburo and Chmn of Council of Ministers inaugurated a new 750 kW MW xmtr in Hiswah /near Aden/. Will carry PDRY radio pgms to whole republic, Peninsula, Gulf, Eaf; project in coop w/Czechoslovakia. DYBS obs on new 792 kHz // usual 1188; the ITU MF/LF Geneva plan lists 50 kW Saywun on 792, sig is significantly stronger than on 1188 suggesting that 792 kHz may be the new 750 kW xmtr (WBI 8/5)

DYBS Aden reported 13/5: Mutual protocols w/USSR signed today including bulding 250 kW SW radio being stn (WBI 22/5)

Z A I R E AFP reported 9/5: Zairian state security court 7/5 sentenced to 20 yrs imprisonment three of the people accused of planting bombs in Kinshasa in March 1984. Three others sentenced to 10 yrs imprisonment, it was officially learned in Kinshasa... Court charged them w/bombing the natl Voice of Zaire in March 1984 and the Hôtel de la Poste in Kinshasa. These attacks resulted in the death of two persons and considerable material damage. The accused have 40 days to file any motion to the Supreme Court of Appeal (WBI 15/5)

CLANDESTINE CRANNY Cubanos en Africa aimed at troops serving

in Angola is believed to have been in existence since the mid-1970s; on 6045 in SP at 05-06 & unconfirmed at 17-18 (WBI

R Bardai Monitoring 27 Apr to 5 May; not hrd since 27/4; since Feb 1983 (15/5) had bc pgs from a Libyan xmttr supporting the Transitional Govt of Natl Unity (GUNT) and is hostile to govt of Hissein Habre in Ndjamena. 27/4, s/on w/usual opening anmts in FR, AR lcl lang on 6009 at 1759 but xmsn ended abruptly as FR pgm about to begin at 1802 (WBI 8/5) Back on 6009 at 18-2030 (Sennitt RNMM 21/5)

Our Radio revised sked as of 15/5; first svc believed to be from GDR xmttr; 50-min bcs in Turkish to Eu daily; 02, 03, 06, 07 on 6200. 10, 11, 14, 15, 18 on new 7335 ex-9584.3. 19 on 6200. All one hour later during winter time.

2nd svc believed via Romania at same times yearround: 1015-1045 & 1445-1515 on 9500. 20-2030 & 2030-21 on 9915. (WBI 22/5) Bizim Radyo

V of the Turkish Communist Party (Turkiye Komunist Partisinin Sesli) first hrd Jan 71; SW svc believed via GDR since 15/12/74; closely linked w/above stn sharing xmttr and addr ancd as: Box 16-367, S-103 27 Stockholm, Sweden. One hour earlier /sic/ than shown during winter time. In TK to Eu, 50-min bcs: 04, 05, on 6200. 08, 09, 12, 13, 16, 17 on 7335; 20 & 21 on 6200 (WBI 22/5)

V of the Iraqi People, describing self as voice of the Iraqi Communist Party, found 6/5 in AR at 1410 on 6995 to 1430* (WBI 15/5)

PKK /Kurdish Workers Party/ clandestine radio: Milliyet, Ankara reported 9/5; Bulgaria has extended a helping hand to Abdullah Ocalan, PKK leader. It has agreed to give tech & financial support to PKK for establishment of a clandestine stn. Turkish intelligence units have discovered that PKK is trying to set up a stn. They have gathered evidence proving that 7 countries are secretly backing the PKK. Meanwhile, Red Army Faction in the FRG is also reported supporting PKK, which was isolated after it was expelled from the illegal alliance the left-wing orgs formed outside Turkey. Abdullah Ocalan contacted Bulg embassy offls in Syria in 1984 in order to secure support for the PKK from Bulgaria, a country which is reported to have links w/terrorist groups. Ocalan asked for arms and offered to coop w/Bulg secret svc org in return. The effort to establish a clandestine radio stn is the first result of this coop betw PKK & Bulgaria. Bcs of the radio will be beamed to Turkey... (WBI 22/5)

Iran's Flag of Freedom (Kaviyani Banner) Radio, formerly V of the Liberation of Iran (Persian: Seda-ye Jebhe-ye Nejat-e Iran), first monitored 23/6/83, but may have been on air since at least 21/3/83. 14/2/87 ancd new name (Persian: Derafsh-e Kaviyani Radio) but ID anmts in EG refer to Iran's Flag of Freedom R. Stn is pro-monarchist, hostile to Khomeyni and Iranian govt. Anmts in EG & FR also. Items in Azeri also carried. Xmttrs believed in Egypt. 1630-1830 9040 7080; repeated at 0330-0530 on 15555 9045 (WBI 1/5)

V of the Communist Party of Iran, hostile to Iranian govt, found at 1850 16/5 on 3880; s/off w/Internationale at 1900. 18/5 on 3870 at 1745-1900 (WBI 22/5)

V of Unity, monitoring 13-20 Apr: in Pashto & Dari hostile to present govt in Afghanistan, now obs w/three 55-min xmsns a day instead of two. Addl bc at 12-1255 on 15685 12230; previously hrd bc at 1530-1625 now at 1515-1610 the refers to 1915-2010 Afgh time which is 1445-1540 gmt, on 17490 15685 12230. 0130-0225 hrd on 15685 12230 11490. Pashto: De Wahdat Ghazh. Dari: Inja Sada-ye Wahdat ast. Formerly known as V of the United Muslim Fighters (Mojahedin) of Afghanistan. First hrd in May/June 1980. Addr given for listener letters: V of Unity, R Muslim Mojahedin of Afghanistan, P O Box 2605, 2000 Hamburg 60, W Germany (WBI 24/4) Addr is still Postfach 2065, not 2605 as mentd elsewhere. Some reports to the latter have already been returned (Mathias Kropf, April DSWCI SW News)

V of Tamil Eelam Monitoring 23-24 Apr: The VOTE which purportedly bcs material hostile to the govt of SL on behalf of the Tamil Eelam Communist Party was found w/addl xmsn 23/4 0130 on regular fq 7010. Normally bcs 0430-0530 & 1330-1430. 0130 bc carried an item on air raids in the Jaffna peninsula and a report by a Tamil Liberation Tigers' spokesman on attacks on govt milly camps. Anmts in EG & Tamil advised people to stay away from areas where Tamil militants had set up camps. The radio bc again 0530-0730 and 1430-1700 23/4 and closed ancg it'd return at 0130 if there were any major incidents to be reported; otherwise, it'd bc again at 0430 (WBI 1/5)

Voice of the Liberation Tigers of Tamil Eelam hrd again in Tamil at 0200 on

6090. Tho no jamming, xmsn apparently suffers audio distortion. They also announce they are on again from 10 to 1030 on same fq (D Suresh Babu, March IDXC1 ADXR) stn bcs on new 3780 0130-02 & 1030-11; only in Tamil; to avoid QRM from SLBC; fq change?(N Tamilalagan, ibid) Which is correct? (IDXC1 ed.)

V of the People of Malaysia ancd 26/4: Beloved listeners! The Chinese, Malay and Tamil lang bc of our radio will be discontinued from 27/4. On this occasion we want to extend our gratitude and respect to comrades and friends who have thus far paid attn and loved our radio as well as provided various kinds of support. (WBI 1/5) This stn first hrd 4/5/76 as V of the People of Malaya. Changed name to VOPMalaysia on 11/12/83 when the Marxist Leninist CP of Malaysia merged with the Revolutionary Wing of the CP of Malaya to form the Malaysian Communist Party. The radio had reported on 24/4 an agmt reached in mid-Apr betw reps of the Malaysian PLA and the Thai govt, under which the guerrillas would cease their armed activities on condx that the Thai govt respected 'the dignity of our members'. The radio was untraced on 27/4 (WBI 1/5 editorial note)

October Storm/Voice of the PLA Monitoring 16-18 May: These stns hostile to the govt of China monitored again 16/5; these along with Contingent of the Proletarian Fighters and Radio Spark were last hrd on 9/6/85. V of the PLA hrd on 7185 14-1407 16/5 & 17/5 and 14-1407, 1415-1422, 1430-1437 on 18/5. October Storm found on 9270 at 1445 16/5. Reception of both marred by severe QRM shortly after start of xmsns (WBI 22/5)

V of National Salvation, favouring reunification of Korea from the NK point of view, ancd during 03-05 bc 10/5 the intro of a new sked from 0900 10/5; 02-04 & 19-2130 on 4557 1053. 09-13 & 14-15 on 4557 4120 1053. No mentn of EG xmsn previously hrd at 14-1430 (WBI 15/5)

La Voz del CID The "LV de Cuba" reported in Mid-May DXtra on 29820 is quite the contrary this cland, 3rd harmonic of 9940, as I reported in April on RCI and World of Radio complete w/tape. Suggest people monitor my DX bcs (gh) v DomRep

R Farabundo Marti, first hrd Jan 1982, hostile to El Salv govt, claims to bc from Chalatenango dept. On spl occasions links up w/R Venceremos. During summer time in El Salvador xmsns will be one hour earlier than: 1830-1915 & 23-24 on 6730v daily (WBI 22/5)

R Venceremos, first hrd in Jan 1981, hostile to El Salv govt, claiming to bc from Morazan dept. On spl occasions links up w/RFM. Duration of xmsns can vary and fqs change constantly to avoid QRM. Up to 5 parallel fqs obs at any one time. During DST in El Salv all xmsns one hour earlier than: Daily 00-01 & 02-03; M-Sat 1215-1345 & 1830-1930; Sun 14-1515 & 20-2115, on: 6380-6840, 3725-3840, 3180v, 105.0 & 96.0 FM. RV ancs addr as P O Box 7-907, Mexico City, DF, Mexico (WBI 22/5) No it doesn't; it's México Siete (?) (gh)

Q S L B L A C K L I S T Forn stns that refuse to QSL because they do not answer, going back a few years: Zambia 4890 4 reports & IRCs. Falkland Is 3 & IRCs. São Tomé e Príncipe 3 & IRCs. El Espectador, Uruguay 2 & mint stamps. Equatorial Guinea 3, IRCs & ms. RRI Manado 2 & ms. RRI Biak 2 & ms. RRI Ujung Pandang 2 & ms. RRI Terota 2 & ms. Guinea Rep 3 & IRCs. CR6AA Cape Verde 2 & IRCs & ms. Zaire 3 & IRCs. Burma 2 & IRCs. Quickest reply came from Marshall Is 17 April to 12 May. Those listed above have me really upset and I presume nothing can be done about it. Number of reports shown do not include follow-ups, which are discouraging (C Brian Hamilton, Palm Coast FL, 14/5)

PUBLICATIONS

World Broadcasting Information, published weekly by BBC Monitoring Service, giving up to date news on developments in world broadcasting including: details of different pgm and fq skeds. BCing behaviour and technical developments. Activities of clandestine & unofficial beers. For more info write: Subscriptions Office, BBC Monitoring Service, Caversham Park, Reading, RG4 8TZ, Berkshire, England. 350 pounds per annum; overseas postage extra (BBCMS)

DX Listening Digest Similar format to LN but with largely unduplicated info, plus David Newkirk's form ENJOYING RADIO, \$20 for 10 issues in Nam, US funds on US bank or postal money order, from Glenn Hauser, Box 490756, Ft Lauderdale FL 33349 (gh) Am looking forward to many more issues of DXLD, the mainstay of my DX interests: (Mike Hardester, PA) Review of International Broadcasting, exactly same price and source as DXLD, concentrates on programming, commentary, satellite monitoring (gh) Both really impress me. I don't see how anyone really 'into' SWLing could get along without subscriptions (James Yeary, Garden Grove)

QSLs

Send your reports to: Sam Barto
NASWA QSL Editor
47 Prospect Place
Bristol, CT 06010 USA

- ALBANIA: Radio Tirana 7065 p/d cd. in 135 ds. (D'Angelo-PA). 5057 via Gjirokaster p/d cd. in 135 ds. (D'Angelo).
- ARMENIAN SSR: Radio Yerevan 4990 cd. in 3 mo. (Schulze).
- ASIATIC RUSSIA: Radio Moscow 12050 via Khabarovsk f/d cd. in 1 mo. (Paszkwicz-WI). 5905 via Petropavlovsk-Kamchatsky w/ f/d "Peace Poster" cd. in 47 ds. (Kashiwbara-CA). 9655 and 9795 via Komsomolsk-on-Amur f/d "Krylatskoye Rowing Canal" cd. in 5 wks. (Barto-CT).
- AUSTRALIA: VL8A 2310 via Alice Springs f/d form ltr. in 1 mo. for 2 IRCs. (Kashiwbara). VNC 4500 f/d folder cd. in 26 ds. w/ station booklet. (D'Angelo). Radio Australia 17750 via Darwin f/d "Tasmania Pastoral Scene" cd. w/ calendar poster in 1 mo. (Kusalik-ALB). 17795 via Shepparton f/d "Forest Kingfisher" cd. in 1 mo. v/s Barry Seeber. (Kusalik). 17715 via Carnarvon f/d "David Gulpili - Aboriginal Actor" cd. in 1 mo. (Kusalik).
- AUSTRIA: Radio Austria International 6155 f/d "Tyrol Traditional Costumes" cd. in 54 ds. w/ sticker and schedule. (Levison-PA).
- AZERBAIJAN SSR: Radio Baku 4957.5 cd. in 3 mo. (Schulze).
- BALI/LESSER SUNDAS: RRI Kupang 3385 2 page personal ltr. in 9 mo. v/s Daud Jusuf Mato. * This was after 2 f/up rpts. Station heard while on Bali! (Schulze).
- BELIZE: Belize Radio One 3285 f/d cd. in 3 mo. (Barto).
- BENIN: ORTB 4870 p/d cd. in 24 ds. for a FR rpt. (Levison).
- BOLIVIA: Radio Illimani 4945 p/d ltr. in 22 ds. after several f/up rpts. in SP and many IRCs. v/s Carmelo de la Cruz Huanca. Addr: Casilla 7902, La Paz. (Paszkwicz).
- BORNEO: RRI Banjarmasin 3250 registered personal ltr. in 10 mo. for an IR rpt. v/s Drs. * Asaati Jusuf and Kadis Umardi, BA. Station heard on Bali. (Schulze).
- BOTSWANA: Radio Botswana 4820 cd. in 45 ds. for 2 IRCs. (Schulze).
- BRASIL: Radio Bras 11745 f/d "Hotel Tambau" cd. w/ schedule in 108 ds. for 1 IRC. v/s Nara Ferreira, Correspondence Department. (Morby-NY). Radio Aparecida 6135 f/d photo cd. in 3 mo. for a PT rpt. (Barto).
- BULGARIA: Radio Sofia 7115 f/d "Diploma" cd. in 90 ds. This cd. is the first in a series of 6 being issued by the station (Cole-CO).
- BYELORUSSIAN SSR: Radio Moscow 15540 via Minsk f/d "Bolshoi Theatre" cd. in 2 mo. (Barto). Radio Minsk 11870 cd. w/ personal ltr. in 64 ds. (Schulze).
- CAMEROON: Radio Yaounde 4850 f/d ltr. in 35 ds. v/s James Achanyi Fontem. (Rutsch-SWIT). * Radio Cameroon 9745 f/d personal ltr. in 7 wks. for US \$5 donated to CATCHA after several tries to each station. These were all for 83 receptions. Also recvd. QSLs for Radio Caroua 5010 and Radio Douala 4795. (Palmerheim-MN).
- CANADA: CHNX 6130 f/d cd. in 67 ds. for 1 IRC. (Paszkwicz). f/d cd. in 73 ds. for ms. All Canadian SW domestic stations now QSLed! Took 13 years for this! (Hardester-PA). f/d cd. in 74 ds. (Forst).
- CHINA, PEOPLES REP. OF: Radio Beijing 9550 f/d cd. in 35 ds. (Levison). Voice of Jinling - Jiangsu PBS 4875 p/d cd. w/ schedule in 4 mo. (Palmerheim) 4870 p/d "Li Yuan Garden - Wuxi China" cd. in 45 ds. w/ schedule. This was direct from the station. (D'Angelo).
- COMORES: Radio Comores 3330.7 f/d * prepared cd. w/ station cd. in 1 yr. after a f/up rpt. for 3 IRCs. v/s Abdulkaber Radjab. The QSL cd. was in German! Quite a surprise! (Schulze).



Dear Sir

We were very glad to receive your letter. Your reception about our broadcasting is correct on February, 1987.

Thank you and best wishes.

via Richard D'Angelo

Editorial Department of
The Broadcasting Station
Voice of

March 1987.

VERIFICATION SIGNERS: Azad Kashmir Radio 4790 Yar Muhammad Khan, Engineer Manager. Belize Radio One 3285 A. Cheong. Radio Valera 4840 Carlos Julio Balza, Director. Radio Sensacion 6000 Rafael Nunez Felce, Gerente de Ventas. RadioBras 15265 Nara Ferreira. Radio Mira 6015 Julio Cortes Benevides, Director. Radio Venceremos 6554 Ramiro Guerra S., Radio Yaounde 4850 James Achany Fontem, QSL Manager. Radio Bertoua 4750 Ndam Seidou, Chief Technician. Radio Catolica 5055 Dr. Antoni Arregui, Director General. Radio Clube de Marilia 3235 Jose Marques Beato, Gerente. Caracol Neiva 4945 Alberti Diaz Mateus, Coordinador Nacional Cadena Caracol. Radio Rebelde 5025 Jorge Luis Mas Zebala, Jefe Departamento Relaciones Publicas. Radio Federacion Shuar 4960 Juan Timias / Rosa Tankamash, Locutorio.



COSTA RICA: Radio Lira - Adventist World Radio 15460 f/d "Antenna" cd. in 123 ds. for a taped rpt. and 2 IRCs. (Kashiwabara). same cd. w/ schedule in 3 mo. for an EG rpt. v/s David L. Gregory, Manager/Chief Engineer. (Kusalik). same w/ schedule in 90 ds. (Cole-CO). in 55 ds. for 2 IRCs. (Cones-VA).

CZECHOSLOVAKIA: Radio Praha 7345 f/d cd. in 36 ds. (Levison).

DOMINICAN REP: Radio Discovery 15045 f/d cd. in 12 ds. for ms. v/s Jeff * White. Schedule rcvd. (Buer-FL). Radio Clarin 4850 p/d "World Map" cd. in 36 ds. for a SP rpt. for a 77 reception. (Buer-FL)...Nice going!

ECUADOR: HD2IOA 3810 p/d "Sun Dial/Map" cd. in 126 ds. for a SP rpt., ms. and 2 * IRCs. (Davis-NM)...Don't see this reported too often..Sam.

ESTONIAN SSR: Radio Tallinn 5925 cd. in 3 mo. (Schulze). f/d "Yacht Club" cd. in 123 ds. Schedule was rcvd. (Lare-MI).

EUROPEAN RUSSIA: Radio Moscow 15490 via Tula f/d "Biedrzycki Poster" cd. in 5 wks. (Barto) 17665 f/d "Lenin Central Stadium" cd. in 7 wks. (Barto). 13645 via Moscow f/d cd. in 2 mo. (Barto). 17625 via Armivir f/d "Lenin Library" cd. in 3 mo. (Barto). f/d cd. in * 49 ds. (Schulze). 7390 via Shiguljovsk f/d cd. in 49 ds. Where is this site??? (Schulze). Either a new site or transmitter located in a bottle of Vodka!

GERMAN DEMOCRATIC REP: Radio Berlin International 21540 f/d cd. w/ schedule in 59 ds. (Levison). 6125 f/d "Dresden" cd. in 92 ds. (Levison).

GEORGIAN SSR: Radio Moscow 9470 via Tbilisi f/d cd. in 2 mo. (Rutsch). 15500 f/d cd. in 9 wks. (Barto).

GREECE: Voice of Greece 15630 f/d "Olympia" cd. in 4 mo. (Cole). Radio Station Macedonia 9460 and 9397.9 f/d "Music Contest between Apollo and Marsyas" cd. in 6 wks. (Barto).

GUAM: KTWR 9870 f/d cd. w/ sticker in 29 ds. v/s Naren C. Hollinger. (Levison). KSDA 11980 f/d "Inaugural Limited Edition" cd. #174 (out of 500) in 4 wks. for ms. Also rcvd. sticker and pennant. (Palmerheim).

GUATEMALA: Radio Chortis 3380 p/d form ltr. in 60 ds. for a SP rpt., tape and 2 IRCs. (Kashiwabara). TGNA 3300 p/d cd. in 141 ds. for ms. v/s Wayne Berger, Chief Engineer and Mariella Posadas, QSL Secretary. (Dillon-MD).

HOLLAND: Radio Nederland 15560 f/d cd. in 40 ds. (Cole-CO). wabara-CA).

HONDURAS: Sani Radio 4755 f/d personal ltr. in 82 ds. for a taped rpt. and ms. (Kashiwabara).

HUNGARY: Radio Budapest 6110 and 9835 f/d cd. in 28 ds. (Levison).

INDIA: AIR 4800 via Hyderabad f/d cd. in 52 ds. for 2 IRCs (Rutsch).


INTERNATIONAL WATERS:

* Voice of Peace 6240 f/d prepared cd. w/ ltr. in 120 ds. for SASE. This was for an 84 reception. v/s Mark Warner. (D'Angelo-PA).

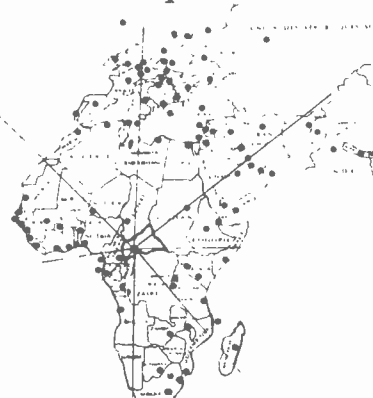
IRAN: VOIRI 15084 f/d cd. w/ many goodies in 136 ds. (Washburn-ME).

ISRAEL: IBA 7464 f/d "Logo" cd. in 58 ds. for 2 IRCs. (Brouillette-IL).

ITALY: European Christian Radio 7335 f/d cd. w/ ltr. in 34 ds. for 1 IRC. 250 watts. (Rutsch).



Radio Centrafrique



RADIODIFFUSION

TELEVISION

CENTRAFRICAINE

B. P. 940 BANGUI

(REPUBLIQUE CENTRAFRICAINE)

TEL. 01.26.00 TELEX 3301 RC

VERIFICATION SIGNERS: Radio Luz y Vida 4850 Eldy Torres P., Gerente. Radio Clube Ribeirao Preto 15415 Salvador Bitonti Capellari. Radio Super Medellin 4775 Ismael Ochoa Martinez. Radio Guatapuri 4815 Anamaria de Gonzales, Secretaria. Radiodifusora San Martin 4810 Edgar Portocarrero, Director General. Radio Difusora Sena Madureira 4117 Eduardo Reis Ferreira Diniz, Director. Radio Por um Mundo Melhor 4855 Odilon Lagares Aguilari. Radio Maranhao Alfonso Augusto Duque P. Radio Santa Maria 6030 Elizabeth Arco P., Secretaria / Carlos Wagner Catalan, Director.

ITALY: Adventist World Radio-Forli 9605 f/d cd. in 36 ds. w/ pennant and sticker. v/s Mrs. Sandy Hodgson, Secretary. (Kusalik). 6145 f/d "Curtain Array Antenna" cd. in 3 wks. Station says this was the first QSL in NA for this freq! (Matthews-OH)... Good to hear from you Bill... Sam.

JAPAN: Radio Japan 6120 f/d cd. in 27 ds. (Levison)... Check your log on this one - probably from Sackville... Sam.

KAZAKH SSR: Radio Moscow 9610 via Alma Ata f/d "American Poster" cd. in 2 mo. (Schulze).

KIRIBATI: Radio Kiribati T3K1 14802 f/d "Typical Island Apparel" cd. in 1 mo. for 3 IRCs. v/s Bill Reiher, Engineer in Charge. (Davis-NM)... Bet you Mr. Reiher enjoys their life style... Sam.

KOREA, REPUBLIC OF: Radio Korea 9750 f/d cd. in 80 ds. (Cole).

LATVIAN SSR: Radio Riga 5935 2 cds. rcvd. in 42 ds. (Schulze).

MALAWI: Malawi Broadcasting Corp. 3380 n/d ltr. in 61 ds. for ms. v/s Henry R. Chirwa. (Buer-FL). (Kashiwbara).

MALI: Radio Mali 4873 f/d "Map" cd. in 25 ds. for a FR rpt., tape and ms.

MARSHALL ISLANDS: WSZO 4940 f/d ltr. in 13 ds. for ms. and 2 IRCs. v/s Peter Boon, Station Manager. (Cones-VA). f/d ltr. in 1 mo. (Barto). f/d ltr. w/ personal ltr. in 21 ds. for ms. (Van Horn-FL). p/d ltr. in 21 ds. for ms. (Hardester). f/d form ltr. w/ personal note in 21 ds. for ms. (Buer). f/d ltr. in 24 ds. for a taped rpt. (Kusalik).

MEXICO: Radio Mexico International 5985 f/d cd. in 90 ds. for a SP rpt. and 2 IRCs. (Cones-VA).

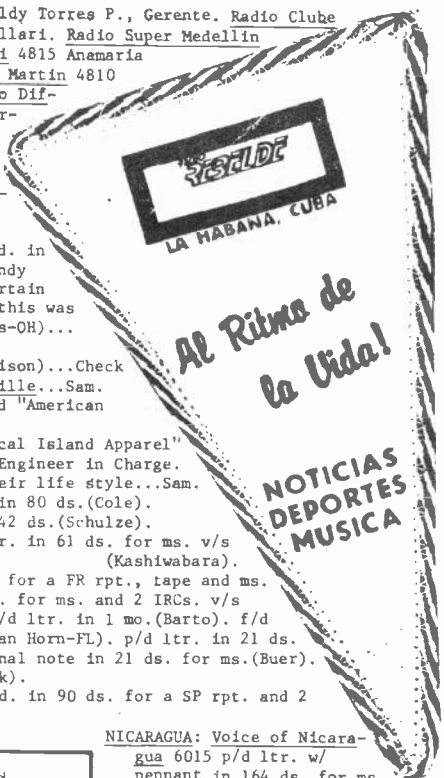
NICARAGUA: Voice of Nicaragua 6015 p/d ltr. w/ pennant in 164 ds. for ms. (Forst). p/d form ltr. in 163 ds. for 3 IRCs. v/s Rodolfo Garcia G. Pennant and sticker rcvd. (Weber-OH). Radio Zinica 6120 p/d ltr. in 40 ds. for an EG rpt. v/s Arturo J. Valdez R. (Weber).

NORWAY: Radio Norway International 15310 f/d "Costumes" cd. in 24 ds. w/ schedule. (Levison).

PAKISTAN: Radio Pakistan 9475 n/d cd. in 67 ds. w/ personal ltr. (Klein-WI). 17840 p/d cd. w/ ltr. in 37 ds. after f/up rpt. and IRCs. (Paszkwicz). 15605 f/d "Broadcasting House" cd. in 30 ds. (Rigas). 11995 f/d cd. in 2 mo. (Barto). 11615.1 f/d cd. w/ ltr. in 7 wks. (Barto). in 30 ds. (Rigas). 11639.7 f/d ltr. in 3 mo. (Barto-CT).


PARAGUAY: Radio Encarnacion 11941 p/d ltr. via registered mail in 5 wks. for a SP rpt. and ms. v/s Prof. Alejandro Lapierre, Director. (Howard-CA).

PORTUGAL: IBRA Radio 9685 via RTE f/d cd. w/ ltr. in 28 ds. Rpt. sent to Stockholm addr. Pennant rcvd. (D'Angelo).



MALAWI BROADCASTING CORPORATION
CHICHEKI HOUSE BLANTYRE MALAWI

TELEPHONE: 1014 ADDRESS: BALOCHALAY P.O. BOX: 3033
TELEFAX: 1014 CHICHEKI BLANTYRE 3



Ref. PG/1311(53)

25 February, 1987

Os: Harold Cones
2 Mhstr Court
Newport News
Virginia 23606
United States of America

Dear Sir

RECEPTION REPORT

We thank you for your letter in which you gave details of our broadcast as heard in your country on 23 January 1986.

We have checked your programme details with our programme schedule and have confirmed that you did indeed listen to our broadcast. You were tuned to our early morning traditional music programme which is narrated in our national language - Chichewa.

We do not verify reception reports by QSL cards and our programme schedule is not for public distribution. It is my hope that this letter will be enough evidence that you were tuned to our radio station.

Yours faithfully

H R Chirwa

H R Chirwa
for: GENERAL MANAGER

RADIO BANGLADESH
335, Segun, Bagicba
Bangladesh

E/18/72-1075

THOMAS A. CULLEN
February 9, 1972.

Dear Mr. Chuck Rippel,

Radio Bangladesh gratefully acknowledges your communication and takes great pleasure in confirming your reception report listened on 31.1.72 time 1645-1650 hours QMT on frequency 9850 KHZ.

We are enclosing new frequency schedule with the hope to have more reception reports from you in future.

Thanking you,

Yours faithfully,

(M. Babuliah)
Installation Engineer.

RHODES: VOA 9670 f/d cd. in 20 ds. (Hardester).
ROMANIA: Radio Bucharest 5990 f/d "Costume" cd. in 134 ds. (Levison).
SARAWAK: Radio TV Malaysia 4950 via Kuching f/d cd. in 41 ds. (Cole).
SAUDI ARABIA: BSKSA 9720 f/d cd. w/ schedule via registered mail in 162 ds. for 2 IRCs. (Forst).
SOUTH AFRICA: Radio Orion 3215 p/d "SAUK/SABC" cd. in 3 mo. (Barto).
SPAIN: Radio Exterior de Espana 6125 f/d "Portrait of Queen Isabel" in 61 ds. for a SP rpt. (Brouillette).
SRI LANKA: Sri Lanka Broadcasting Corp. 9720 f/d "Studio" cd. in 59 ds. for 2 IRCs. (D'Angelo-PA).
SULAWESI: RRI Ujung Pandang 4719 cd. in 49 ds. for 2 IRCs. v/s H.A. Nyongki. (Schulze).
SWEDEN: Swedish Telecommunications Authority 21555 f/d cd. in 16 ds. (Rutsch).
TAHITI: Radio Tahiti 11825 f/d "Conch Blower"

cd. in 53 ds. for a FR rpt. (Levison).

TAIWAN: Central Broadcasting System 6087 large f/d cd. in 26 ds. v/s Lee Ming, Deputy Director. (Davis).

TURKEY: Voice of Turkey f/d "Ancient Columns" cd. in 2 mo. (Cole). Turkiye Polis Radyosu * 6340 f/d cd. w/ tourist info. in 57 ds. for 1 IRC. (Rutsch).



UGANDA: Radio Uganda 4976 f/d prepared cd. w/ personal ltr. in 88 ds. My rpt. was sent via registered mail. Addr: P.O. Box is 2038 not 7142 per WRTH. (D'Angelo). 4976 and 5026 personal ltr. in 79 ds. (Schulze).

UKRAINE: Radio Kiev 7165 f/d cd. in 91 ds. (Levison). Radio Moscow 7215 via Vinnitsa f/d "Friendship" cd. in 2 mo. (Cole). 11950 via Simferopol f/d cd. in 6 wks. (Barto). 15585 f/d cd. in 5 wks. (Barto).

USA: KVOH 17775 f/d "Transmitter and Studio" cd. in 3 mo. w/ personal ltr. and schedule. v/s David Lawrence, International Program Director. (Kusalik). same in 78 ds. w/ ltr. and sticker. (D'Angelo). f/d cd. in 3 wks. (Barto). same in 29 ds. for ms. (Hardester). in 22 ds. for ms. (Brouillette). KCBI 11790 f/d cd. in 25 ds. (Rutsch). 11735 f/d cd. in 26 ds. for ms. (Morby-NY). KCEI 15280 f/d "San Francisco" cd. in 40 ds. for a SP rpt. and ms. v/s Jesus C. Elizondo. Also rcvd. sticker, schedule and personal ltr. from Jose A. Holowaty. (Brouillette). WHRI 7400 f/d cd. in 2 wks. (Barto). 15105 f/d cd. in 87 ds. w/ schedule for ms. (Buer-FL). Voice of Free China 5985 via WYFR f/d "Spring and Autumn Pavillion" cd. w/ sticker in 73 ds. (Levison). WRNO 7355 p/d "Earth" cd. w/ sticker in 54 ds. v/s Joe Costello. (Schippelliti-MA). WWV 2500 f/d "Indians

on Horseback" cd. in 13 ds. (Washburn-ME). WYFR 11830 f/d cd. in 17 ds. (Washburn). WRNO 15420 p/d "Globe/Flag" cd. in 12 ds. (Washburn)....Not SWBC but historically * Interesting...Voyager One 8822/6550 n/d "Flight" cd. in 17 ds. v/s Dick Rutan and Jeana Yeager. (Allen-OK). 8821.5/6549.5 n/d hand written cd. signed by the pilots in 53 ds. for ms. (Foxx-VA).

Thank you for your report on the reception of our

RADIO 5

H.F. VERWOERD SHORTWAVE STATION

DATE: 11th December, 1986.

TIME: 04h00 UTC

FREQUENCY: 4880 kHz

SOUTH AFRICAN
BROADCASTING CORPORATION

SUID-AFRIKAANSE
UITSAANKORPORASIE

Minnie Visser
Minnie Visser
for: Technical Manager :
Panorama Monitoring
Station

RICHARD A D'ANGELO

2216 BURKEY DRIVE

WYOMISSING, PA 19610

U S A

USA (Pirate): Zeppelin World Radio 7430 f/d serial cd. in 20 mo. after a f/up rpt. (Kusalik).
VATICAN: Radio Vatican 11810 f/d cd. in 4 mo. (Cole).
VENEZUELA: La Voz de Carabobo 4780 f/d prepared cd. w/ personal ltr. in 5 wks. for a SP rpt. and ms. v/s Jairo Salazar R. (Palmer-sheim-MN).

HCV 8 D 1987
 Radiodifusores:
 LA VOZ DE GALAPAGOS
 4.810 KHz. BANDA DE 24 MHz. DE LA HONORABLE
 Agradecemos su Reportaje.
 y esperamos nos sigan escuchando

Director
 Padre H. H. H. H.
 Galapagos
 GALAPAGOS ECUADOR - BIG AMERICA
 1. IGLESIA EN PTO AYUDA
 2. BAHIA DE BARTOLOME

ESTADOS UNIDOS
 AMERICA

Richard A. D'Angelo
 2216 Surkey Drive
 Wyoming, WY 82010
 U.S.A.

LITO EN ECUADOR PER GARANTE
 TEL. MANABALI: 061 781 782 EXT 1000 - TEL. QUITO:

VENEZUELA: Radio Tachira 4830 f/d personal ltr. in 41 ds. for a SP rpt. and 2 IRCs. v/s Eleazar Silva M., Coordinador General. (Brouillette-IL).

YEMEN ARAB REP: Radio Sana'a 9780 p/d ltr. w/ postcard in 43 ds. for 2 IRCs. (Forst). same in 85 ds. (Levison).
 ZANZIBAR: Radio Zanzibar 11734.7 f/d ltr. in 4 mo. v/s N.M. Suleiman. (Barto).
 ZIMBABWE: ZBC Radio One 3396 very large f/d cd. in 68 ds. for 2 IRCs. (Forst).

CLIPPINGS FROM THE FLOOR/LATE ARRIVALS

ASIATIC RUSSIA: Radio Moscow 4010 via Vladivostok f/d cd. in 56 ds. (Rigas). 9500 via * Magadan f/d cd. in 91 ds. (Rigas).
 BOLIVIA: Radio Nueva America 4795 f/d prepared cd. w/ p/d form ltr. in 33 ds. via registered mail for a SP rpt. and ms. v/s Roberto Carrasco Velasco. Sticker rcvd. (Allen).
 CELEBES: RRI Gorontalo 3265 f/d prepared ltr. in 24 ds. for an IN rpt. and SASE. v/s * Saleh S. Thalib. (Allen).
 EUROPEAN RUSSIA: Radio Archangelsk (DS) 5015 f/d cd. in 91 ds. * (Rigas). 5930 Murmansk (DS) f/d "Lenin Library" cd. in 91 ds.
 MARSHALL ISLANDS: WSZO 4940 p/d form ltr. w/ (Rigas). personal ltr. in 2 wks. Coverage map rcvd. (Allen).
 NEW BRITAIN: Radio East New Britain 3385 f/d cd. in 46 ds. for SASE and ms. v/s A.L. Rumina, Station Manager. (Rippel-VA).
 NEW IRELAND: Radio New Ireland 3905 p/d ltr. in 47 ds. for 2 IRCs. v/s Kathleen Sakias, Assistant Manager. (Cones-VA).
 PAPUA NEW GUINEA: Radio Western Highlands 3375 p/d personal ltr. in 11 mo. for 2 IRCs. v/s Vitus Bongai, Station Technician. (Allen-OK).
 UKRAINIAN SSR: Radio Moscow 6200 via Kiev f/d cd. in 91 ds. (Rigas). * 4795 via Kharkov f/d "Dzershinsky Square" cd. in 91 ds. (Rigas).
 USSR: Radio Station Peace and Progress 13775 f/d cd. in 4 mo. for a CH transmission on LSB. (Barto).



ZIMBABWE: ZBC 3396 f/d cd. in 77 ds. (Rigas).

I guess that about does it for this time around. Keep the reports coming in to this column. We had quite a few good ones this time. Maybe the US/USSR arms talks may be easing up the USSR QSL policy. Several nice Russian QSLs in the column.

Best of QSLing... Sam

NATIONAL BROADCASTING COMMISSION OF PAPUA NEW GUINEA

Phone: 822415 Cables: Netbroadcast Telex: 82 701

Ref: Radio Madang, P.O. Box 2138, YONEN, Madang, Papua New Guinea.

10th March, 1987.

R. Charles Rippel, 1272 Parkside Place, Virginia Beach, VA 23454 USA.

Dear Charles Rippel,

Thank you for your reception which is hereby verified.

Radio Madang operates on a frequency of 3260 KHz in the 90 Metre band. Hours of broadcast are:- 6:00 AM to 8:00 AM. 5:00 PM to 12:00 PM. midnight local time.

All broadcasts are done mainly in pidgin language. Refer to your report on musical programmes broadcast. The segment from 1314 to 1330 you were listening to was Papua New Guinea Stringbands and from 1330 - 1345 were light music to midnight.

Sam



JERRY A. LINEBACK, Editor
115 Wroxtton
Conroe, TX 77304

June 1987

Greetings once again and welcome to the Scoreboard. We offer the opportunity to all to share their DX totals through the quarterly Scoreboard. This month the Spotlight is on Africa. Remember that C/H = countries heard and C/V = countries verified. Country counts are by the official NASWA Radio Country List available from Headquarters. The next Scoreboard will appear in the September issue of FRENDX when the Spotlight will be on Asia. The deadline for that issue will be 15 August.

You must update your totals once a year to remain posted on our scoreboard. If you have been deleted due to failure to update, please resubmit updated totals for all categories as your computer data file will have been removed. Many thanks to all who submitted new data for this issue.

Name, State	Total		Africa		Best African QSL
	C/H	C/V	C/H	C/V	
James Young, CA	233	222	63	62	Reunion Is.
John Tuchscherer, WI	229		62		R. Cordac
Sam Barto, CT	228	219	63	61	CQM 7946
Bob Padula, Australia	223	217	63	60	Cape Verde 4725
Gerry Bishop, Phil.	220	200	61	52	R Gambia
Marlin Field, MI	219	217	62	61	Mt Kenya NYERI
Jerry Berg, MA	219	217	60	59	Katanga
William Flynn, CA	218	201	60	53	V3USE Mauritius
Tom Gavaras, MN	215	208	59	57	Zanzibar
Al Miller, OH	212	206	59	56	Sao Tome et Pr.
John Sgrulletta, NY	209	209	61	61	Comoros Is.
Terry Palmersheim, MN	209	182	57	44	R. Candip
Bill Harms, FRG	207	139	56	24	ORTF Brazzevill
Larry Abraham, MI	206	192	59	54	Zanzibar
C. J. Orekar, CA	203	192	54	46	Sao Tome
Roland Schulze, FRG	203	190	56	51	R. Comores
Paul Buér, FL	203	190	55	50	Isla Palma 350W
Richard Davis, NM	203	186	52	44	Mauritius
Mark Koukol, IL	203	181			
Alex Vranes, Jr., IA	202	185	56	47	FRCN Ilorin
Ron Howard, CA	201	184	53	47	Damara sv RSA
Harold Cones, VA	200	179	55	39	RTV Gabonaise
Steven Lare, MI	200	155	49	26	Djibouti
Vladimir Cucura, PA	200	106			

Del Fye, FL	198	180	54	49	Zanzibar
Jim Uerlings, OR	197	54	48	5	RN Madagascar
C. Vernon Hyson, NC	195	178	56	49	R Congo Belge
Mike Hardester, PA	191	179	48	43	Mawawi
Rick Krzemien, IL	191	165	35	16	Benin
Kirk Allen, OK	191	158	54	42	Zanzibar
Michael Schmitz, FRG	191	155	56	42	RN Malabo
Nelson George, NC	190	166	55	44	Comoros
David Swaringen, NC	189	168	57	38	Chad
John Bryant, OK	189	153			
Stephen Leite, MA	188	160	40	36	Cape Verde
Christos Rigas, IL	187	164	51	38	Ethiopia
John R. Tow, AL	187	162	57	46	R Candip
Jerry Lineback, TX	186	107	53	32	Swazi MR
John Meyer, WI	183	146			
Charlie Hoffman, PA	182	148			
Ray Forsgren, WI	181	118	49	25	Sudan
Charles Wootten, VA	176	147	54	41	Brazzaville
Ken Cobb, ME	176	129	50	28	R Uganda
Bob McCoy, NE	175	87	48	17	Mogadishu
Sheryl Paszkiewicz, WI	174	150	50	37	Angola
Morley Kirkland, Ont.	172	159	51	36	Zambia
David Jones, TN	170	145			
Gayle Van Horn, FL	170	138	46	29	ORTB Benin
Tom Laskowski, IN	168	130	52	36	Burundi
Peter Tutak, WA	167	128	49	34	Omdurman
Norman Bobb, MN	167	1	47		
Thomas Giella, TX	166	5			
Charles Foxx, Jr., VA	157	134	44	33	Malabo/Equ. G.
Austin Kelly, IL	156	129	45	28	R N Tchad
Tom Daly, NY	150	30	46	3	R. Truth
Steve Forst, PA	144	99	42	20	VOR Ethiopia
Carl Mann, IA	141	121			
Ichiro Maruo, Japan	139	88	23	9	Africa No. 1
Kevin Klein, WI	136	64			
Peter Dillon, MD	135	91	35	17	Ascension dir.
Kenneth Hill, MA	135	84	40	14	R. Truth
Fr. John Eckert, PA	132	85	36	14	
John Mosman, KS	130	101	38	25	R Botswana
Dale Park, HI	128	35	27	8	SWABC & SCR
Jerry L. Green, TN	127	95	37	21	FEBA Seychelles
Jim Renfrew, NY	127	72	34	13	BBC Leshtho
Keiichi Kondo, Japan	126	82	19	6	R Tanzania
Tom McElvy, VA	117	95	22	16	CAR & Brukina
Jackie Cole, CO	117	82	19	12	Ivory Coast
Joe Kremer, IN	115	62	28	7	Uganda
Andy Rugg, Que.	108	87	30	20	TWR Swaziland
Don Watts, Quebec	108	61	33	9	Zambia
Dustin Brann, MO	108	48			
Tom Mooningham, MD	105	60			
David Morby, NY	105	14	24	2	R Cairo
Thomas Ross, IL	102	81	19	12	Capitol Radio
Peter Giacopelli, NY	99	89	12	10	Uganda
E. M. Church, VT	93	57			
Jim Streitmatter, IN	90				
Harold Levison, PA	85	18	17	8	
Bob Nagel, PA	77	57			
Chris Sweitzer, FL	77	40	10	3	RN Madagascar

Thanks again to all our contributors. Please share your totals with your fellow DXers through Scoreboard. Remember, deadline for the next Scoreboard will be 15 August and the Spotlight will be on Asia. 73s to all.



FRENDX LOG REPORTERS

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CONTRIBUTORS LIST ***** JUNE 1987 ISSUE ***** DEADLINE = 12th OF MONTH

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Here we are at the end of another month my friends. A good showing this month with several new names amongst the group. As usual, to the New Comers, a HARDY WELCOME, and may we find all of you here for a long time to come.

As many of you have noted, I suggested a "Special Project" for the July 1987 issue of FRENDX. Its a way of showing how well our members support their Club. For those who may have missed my last months comments section, I'll repeat the request. Each and Every NASWA Member is kindly requested to submit one logging to each of the four Log Sections of FRENDX, that right folks, all I'm asking is one logging to each of the Log Sections. If you are unable to do one for each of the sections, then please feel free to contribute at least one logging to the Log Section of your choice. I certainly do hope to see my mailbox filled come the 12th of June, that is the deadline for the July issue in case some of you may be unfamiliar with the deadline here.

In response to those who have written, and your notations are always more than welcome here, the SHIP is not Sinking and this Special Project is in no way a Popularity Contest to see which of the editors is more popular. Each Editor does a really fantastic job, if you could only see what they have to deal with each and every month. The Special Project is simply a show of Unity as a Club, nothing more and nothing less my friends.

After having run on so long last month, I'll give everyone a break this month and finish up at this point for this month. Looking forward to receiving all your loggings during the next 30 days. See you all here in 30 days.

Best Regards to All





LOG REPORT

section A

2000 to 4899 kHz

Editor: Mike Harris, P.O. Box 264, Grove City, OH 43123

After some confusion on my part as to when the column would appear I am back again this month. Next month I'll be away at EDXC in Helsinki so there will be a guest appearance by someone. Onto the loggings.....

- 3200 NIGER. CRTM. 0540-0605. FF. Talk by OM, MX until 0600. (11/4 Hill)
 3249 BERNEZ. RRI Banjarmasin. 1138-1144. IND. Talk and vocals. (18/4 Paszkiewicz)
 3290 SOUTHWEST AFRICA. RSWA. 0155-0230. EE. "All nite programme" w/news and pop mx. (2/4 Hill)
 3300 BURUNDI. R'B. 1757-1822. Vern. Folk music, mx in FF. (15/4 Schulze-FRG)
 3325 GUATEMALA. R. Maya. 1120-1150. SS. Religious talks, ID's. (11/4 Yashiwabara)
 3339 PERU. R. Altura. 1012-1128. SS. Music, ID's, and ad's. (5/5 Orcutt); @ 0340 w/ music but no ID heard. (9/5 Field)
 3375 ANGOLA. R' Luanda. 1848. PP. Talk of Russian cosonaughts and "Journal" pgm. Also // 4952.3. (24/4 Schulze-FRG)
 3381 MALAWI. MBC. 1745. Vern. African folk music w/weak signal. (17/4 Schulze-FRG)
 3385 PAPUA NEW GUINEA. R. East New Britain. 0902. EE. National news, ID, // 3315, 4890, & 3335 w/ different news. (27/4 Park)
 3390 ZAIRE. R. Candip. 1937-2000. FF. Political reports, mx, annts. // 5066. (17/4 Schulze-FRG)
 3955 REP. SOUTH AFRICA. R. Orion. 2305-2330. EE. Music and ID's. (7/4 Cobb)
 3990 LIBERIA. WOA. 0420. EE. Pgm on energy in USA. (26/3 Walley); (24/4 Sampson)
 4039 PERU. R. Marginal. 0314-0334. SS. Fair w/ LA songs. (1/5 Tuchscherer)
 4060 USSR. Kharkov. 0150-0205. RR. Rock mx in RR, mx, talk. (8/4 Cobb)
 4117 BRASIL. R. Sena Maduseita. 0142-0200. PT. Religious pgm, songs, ID. (20/4 Schulze-FRG)
 4719 CELEBES. RRI Ujung Fandang. 1158-1225. I.. Full ID and freq. (18/4 Kashiwabara)
 4755 BRASIL. R. do Maranhao. 0155-0218. PT. Noted under Sani Radio w/vocals. (17/4 D'Angelo)
 4760 LIBERIA. ELNA. 2204-2231. FF. BPC news then local news. (5/4 D'Angelo)
 4765 CUBA. R. Mayak, relay. 0950-1005. RR. Disco music and talk. (11/4 Dillon); (11/4 Hawk); @ 0145 w/ pgm in spanish for Cuban listeners. (14/4 Buer)
 4783 MALI. RTVM. 2310-0000. FF. Reggae and other music, ballads, talk w/presumed news by YL. (22/4 Jordan); (25/4 Sampson)
 4785 TANZANIA. RT Dar-es-Salaam. 2055-2103. Vern. African folk music, talk, and ID in EE at 2100. (23/4 Schulze-FRG)
 4790 PERU. R. Atlantida. 0346-0358. SS. Music programme. (11/4 Hawk)
 4805 BRASIL. R.D. do Amazonas. 1005-1025. PT. News, ID. (11/4 Dillon)
 4810 PERU. R. San Martin. 0250-0358. SS. Lively LA pops, vocals, ID. (23/4 Jordan)
 4830 VENEZUELA. R. Tachira. 2335. SS. Pop music and ballads. (7/5 Bauernhuber); @ 0140 w/ OM DJ and pop tunes. (12/4 Dillon)
 4832 COSTA RICA. R. Reloj. 0445-0458. SS. Guitar music. (4/4 Hawk)
 4835 INDONESIA. RRI Ambon. 0844. IN. Lionel Ritchie tune, violin music, ID. (27/4 Park)
MALAYSIA. RM. 1356-1406. Malay. Islamic prayer, ID, //5965. (1/5 Kashiwabara)
MALI. RTVM. 0050-0145. FF. Conversation pgm, ID. (12/4 D'Angelo); (12/4 Dillon)
 4845 MALAYSIA. RM. 1128-1144. Vern. 2 ID's by YL in EE, annts, vocals. (17/4 Paszkiewicz)
 4850 VENEZUELA. R. Capital. 0436-0501. SS. ID, freq, TC, w/poor signal. (1/5 Kashiwabara)
 4864 BOLIVIA. R. 16 De Marzo. 0036-0101. SS. LA songs, OM talk, two clear ID's @ 0038, mentioned "Pamorona Nacional". (29/4 Tuchscherer)
 4870 ECUADOR. R. Rio Amazonas. 0225-0309. SS. Mx and MX bits. (1/5 Tuchscherer)
 4875 BRASIL. RM Boa Vista. 0240-0333. PT. Nice ballads, LA pops, drama skit. (15/4 Jordan)
 4880 REP. SOUTH AFRICA. R.5. 0339. EE. Pop music, commercials. (8/3 Walley)
 4885 PERU. R. Huancavelica. 0428-0503. SS. Indigenous music, weak ID's. (1/5 Tuchscherer)
 4890 PAPUA NEW GUINEA. NBC. 1015-1050. EE. Religious mx, annts, TC, ID's. (9/4 Cobb)

A lite selection this month, but some nice ones were in there. Until next, 73's.....

Mike



LOG REPORT

section B

4900 to 6199 kHz

Editor: Jerry Berg, 38 Eastern Avenue, Lexington, MA 02173

- 4905 CHINA Beijing, hrd at new s/on time *1928 4-15, CH class.mx, CH folk mx 1941, intern.mx, time pips 2000, ID; //5860 (Schulze).
- 4909.9 INDONESIA RRI-Pukittinggi, in Indo 1637-1707* 4-16, popular Indo mx, RRI IS, Djakarta nx, ID, s/off 1707 ("Love Ambon" not hrd) (Schulze).
- 4915 GHANA Accra with EG local nx at 0615 5-7, "GBC" ID, fair-good (Bryant-GA); relig.prgm in local lang 0545 4-5 (Hawk); African nx in EG 2245 4-9, good sig (Courtney).
- 4920 AUSTRALIA ABC-Brisbane, old hits at 1855 on 4-22, IS 1859, time pips, short ABC nx by a man, then orchestra mx (Schulze).
- 4927 INDONESIA RRI-Jambi, 1325-1359*, Indo ID, non-stop non-descript mx, sudden s/off, generally poor signal (Kashiwabara-CA).
- 4932 NIGERIA Lagos, 1850-2130*, EG nx 2115, ID 2130, time, mx, nx (Schulze).
- 4940 IVORY COAST Abidjan, in FR 0559 4-19, anthem, ID in FR, into nx; fair sig (Snyder-NY).
- 4940 MARSHALL IS. WSZC, hrd 4-28 with poor signal at 0913-1000, island mx, talking by a man, EG at 0958, then anthem and s/off (Snyder-NY); hrd 0940-1003 on 4-27, vocal group singing, drums, FC ID, muddy modulation; also hrd 0941-1001 on 4-15 with vocals, gal anncr, mx, ID, very poor reception (Arland-VA); 0945-1000* on 4-16, in EG and local lang, with island mx, man anncr, ID 0957, "This is Stn WZC, the Marshall Islands," then choral anthem and off the air; fair sig, little JRM, on 4-16 (Cobb-ME).
- 4945 BOLIVIA R. Illimani, hi-speed sports coverage by man at 0030 4-16, "falling bombs" sound effects, spot IDs, ad strings, mentions of La Paz; hrd to 0140; weak, poor (Jordan).
- 4945 COLOMBIA Caracol Neiva, SF nx at 0405 5-4, mentioning "Caracol de Colombia" (Objio-DOM.RIP); 0529-0600 5-1, 5-7, Caracol IDs, world nx, local mx, fair sig (Kashiwabara-CA).
- 4945 S. AFRICA R. RSA, in Lozi at 1541, US and UK soul mx, tribal mx 1549, more soul, then pips and nx read by man; poor, hvy static (Park-HI).
- 4950 PERU R. Madre de Dios, 0130 4-25 with relig.prgm, march mx, ID (Schulze).
- 4950 SARAWAK Kuching, 1120-1148 4-12 in language, Hawaiian mx, ID, TC, EG nx (Paszkievicz).
- 4960 CHAD N'djamena, *0455 on 4-20 in FR, IS, apparent NA, choral mx, s/on armts, pop mx, fair sig (K.Hill-MA); in FR 2135-2202* 4-21, Afr vocals, FR talk, weak but improving; ID, song, NA, poor overall; fair at *0457 4-26 (D'Angelo-PA).
- 4960 ECUADOR R. Federacion, 0225-0302*, LA mx, ID by man, march mx, fqys, NA, off (Schulze).
- 4960 MADAGASCAR Tannanarive, 0322 on 5-8 with mx program, ID at 0430, talking in Afr lang; best-ever sig but weakening by 0400 (Field-MI).
- 4970 VENEZUELA R. Rumbos, hrd 0345 4-25 with LA mx, fair sig on ICF2002 (Walley-CA).
- 4970.3 PERU Unid. here 0740-0820 4-12, -19, semi-huaynos, few armts but many mentions of "Maravilla" and "Macarinja," unclear IDs don't sound like Imagen, definitely not Rumbos; once mentioned MW 1160; fair with two hets (Kashiwabara-CA).
- 4973 CLANDESTINE Voz de Resistencia de Galo Negro, seeming anthem at *0330 4-2, ID, into talks about Angola, all PT, poor sig but no QRN (D'Angelo-PA); 0459-0518 tune-out on 4-17, PT talk by man, slow-paced Afr mx, chanting with voiceover 0504, pace of mx picked up, ID 0514, fair-good signal (Courtney).
- 4980 VENEZUELA Ecos del Torbes, 0001-0029, man anncr, ID, casino-type game for callers, LA mx, TC, ads, fair signal (Dillon-ID).
- 4990 CHINA Hunan PBS, 1251-1321 on 4-18, EG lessons with info on CH history, 5+1 pips at 1300, ID, into CH nx, poor signal (Kashiwabara-CA).
- 4990 NIGERIA Lagos, 2157-2307* 4-20, tribal mx to ID, TC for 2300, nx summary, jazz program, ID 2300, TC, nx, pledge and choral anthem; poor sig overall (D'Angelo-PA); 2300-2305* on 4-25, nx by man in EG (overpricing of coal), s/off armts, fair signal (K.Hill-MA).
- 4996 PERU R. Andina, 0910-0930 5-6, man with IDs and TCs about every 15 secs, talking over some beautiful mx (Orcutt).
- 5004 MZAMBIQUE Pemba hrd here 4-17 at 0342-0402, local mx, ID, "Radio Journal," nx via R. Nacional at 0400, JRM: C402; new on this fqy (Schulze). Sure of site? JB.
- 5023 VENEZUELA R. Nacional, hrd 0630-0700 4-3, special EG rock mx prgm, fqy, IDs, fair sig but fqy varying a little (K.Hill-MA).
- 5040 ECUADOR LV del Upano, 0245-0256* 5-8, ID, s/off armts, anthem, fanfare, strong (Fryant).
- 5047 TOGO Lome, ir FR 0625 5-7, talk by man, probably nx, ID, fair-good (Bryant-GA).
- 5052 SINGAPORE R. One, 1557-1631*, EG, mx, pips 1600, nx, ID, NA to s/off; 4-16 (Schulze).
- 5055 COSTA RICA TIFC, 0300 on 5-8, EG ID, religious testimony, fair-good sig (Bryant-GA); ending relig.prgm in EG at C400, mentioning all MW, SW and FR fqys, then continued in SP announcing 24-hrs operation (Objio-DOM.RIP); hrd 0522-0558 on 4-24, SP, lots of relig. vocals, ID and address, fair sig (Kashiwabara-CA).

5095 COLOMBIA R. Sutatenza, 0255 4-30 with ads, YL DJ, loud IDs, ute QRM (Bryant-GA).
 5915 USSR RM. at 0114 4-27, mailbag, nx, "Top Priority," EG; Winnitsa per UFN (Sampson-WI).
 5930 CZECHOSLOVAKIA Prague, hrd 0136 4-12, FG, "Here and There in Czech." and "Faded In Czech.," polka mx, fair sig (Sampson-WI); EG cntry on trade unions at 0140, 4-13, EG, good sig (Bauernhuber); EG 0350 4-26, rock mx, ID, good to 0355* (Bryant-GA).
 5940 USSR RM, EG 0355 4-26, Sov science fiction drama, fair, much better on //6000(Bryant).
 5950 FRANCE RFI in FR 2250 4-25, ID, EZL FR mx, nx at 2300, good sig (Bryant-GA).
 5950 USSR RM. WS, fair on 4-29 at 1626 in EG, essay contest on 70th anniv of the revolution, nxbrief, //5905, 5920, 6069 (Park-HI).
 5960 ALASIA KNLS, EG 0924-0930, talk, mx by Les Brown, ID, fair on 4-16 (Bobb-MN).
 5960 CANADA R. Japan over RCI, EG nx, features, 0305 on 4-6 (Paszkiwicz-WI); in EG 0320 on 4-7 with talk about baseball, domed stadium, mx, Japanese history, in JP at 0200-0259 (Cook); 0335-0400* 4-25, talk, rock mx, all HG, language lessor, good till began fading arnd 0345; 11, 15, and 17 MHz //s unhrd (Jordan).
 5960 CHINA Yunnan FBS, hrd 4-19 at 1334-1439*, CH ID, 5+1 pips, non-stop local CH mx, fair signal (Kashiwabara-CA).
 5965 MALAYSIA KL, 1350-1406, probably in Malay; Islamic-type prayers, amnts, ID, into nx at 1400; //4835 (Kashiwabara-CA).
 5975 COLOMBIA R. Macarena, mx 1005, TD, TC, fair sig 4-20 (K.Hill-MA); 2135 4-21, ID, TCs, LA mx, fair-good, wiped out by BBC after 2150 (Buer-FL).
 5975 ENGLAND BBC, EG world nx 0000 4-17, "Nx Abt Britain," "R.Nxreel," "Tx Now," more nx in brief; very good signal (Dillon-MD).
 5980 TAIWAN Voice of Asia, 1531-1633 4-12, HG IDs, fqys, world nx, US mx to 1633, then CH program; poor signal (Kashiwabara-CA).
 5985 USA VoFC over WTFR, 0215 on 4-23 with "Journey into Chinese Culture," "Let's Learn Chinese," good signal (Bauernhuber).
 5990 JAPAN Tokyo, EG world nx at 1407 4-11, fqy info 1414, "This Week" at 1415 (Jones).
 5990 ROMANIA Bucharest hrd in EG 0215-0257* 4-26, prgm on historical sites, "Cultural Portrait," fair-good, no audible //s (Jordan).
 6010 E.GERMANY RFI, in EG 0200-0218 4-13 with nx by woman, cntry on Russian space prgm, many IDs; QRM from R. RSA on fqy (Norty).
 6010 S.AFRICA R. RSA, in EG 0215 5-8, election results, good signal (Bryant-GA).
 6015 NICARAGUA Voice of Nicaragua, hrd 1200 4-10 with Sr s/on, ID, nx, many mentions of the Contras, US, Reagan, etc; fair signal (Courtney).
 6020 MEXICO Vera Cruz, very good with nx bulletins, ID, 0405 5-1 (Tuchscherer-WI).
 6020 HOLLAND Rk, in Dutch at 2330-2359 4-27, world nx, ID, rpts on Surinam (Dillon-MD); 0245-0325 in EG 4-17, "Media Network," very good signal (Arland-VA).
 6025 HUNGARY Budapest, EG at 0118 on 4-17, feature on Hungarian tennis tournament, good signal here, fair on //9835 (Fanelli).
 6025 W.GERMANY DW hrd in Arabic at *0400 past 0430, IS and AR ID by man 0355, EG ID on hour, nx, call to prayer, talk in AR; to Eur/NoAfr/ML, 4-26; still there 0500 (Jordan).
 6035 AUSTRALIA RA, nx at 1705 following mx; using my new R5000 and new antenna (Schulze).
 6055 CZECHOSLOVAKIA Prague, hrd 5-4 at 2325-2400 in EG, FR, M&w ancrs with chamber mx; fair with QRM, RFI QRM at 2357 (Bobb-MN); clas.mx 2325 5-7, fair overall signal (Bauernhuber).
 6055 FRANCE RFI, in FR at 0030-0100 on 4-28, cultural reports by a woman, LA mx, talk about films, ID at 0058, fair signal (Dillon-MD).
 6060 PORTUGAL Lisbon, poor-fair at 0300 on 4-7, EG, nx, talk about Macao, sports; 9705// was very poor and QRM'd; 6060 best but not mentioned (Cook).
 6069 USSR RM. WS, Siberian site, fair in USE on 4-10, EG nx, "Nxreel" at 1611; 6050 is another in-band feeder; //6020, 5950, 5920, 5905 (Park-HI).
 6070 BULGARIA Sofia, EG at 2305 4-25, nx about DC protest marches; hvy QRM (Bryant-GA).
 6070 CANADA CFRX, hrd 0445-0505 4-8 with EZL mx to 0500, into world nx, sports, some ads, ID as "CFRB 1010" at 0500; good signal (Tutak-WA).
 6085 W.GERMANY Dn, 0115 4-21, nx, cntry, "Germany Today," fair sig (Bauernhuber).
 6116 COLOMBIA LV del Llano, SF pop mx 0945-0955 4-3, lengthy ID, fair sig (K.Hill-MA).
 6120 CANADA R. Japan prgm over RCI, EG nx at 1105 on 4-9, exc signal (Snyder-NY); good at 1125-1200 in EG 4-26, pops, DX prgm, "Meet the People," General Svc ID, off (Dillon-MD); hrd 1135-1200 4-29 on resort development, gal with ID (Arland-VA).
 6120 PHILIPPINES FEBC, in Russian at 1400 on 4-17, computerized IS, amnt by man, th-me mx, RS ID, talk by M&w, into programming; poor sig (Park-HI).
 6135 SWITZERLAND SRI, EG 0400 4-26, nx about Euro protests, very good sig (Bryant-GA).
 6141 BOLIVIA R. Luis de Fuentes, hrd briefly 0020 4-23, tnx to Sheedy; SF (Tuchscherer-WI).
 6160 CANADA CKZU-Vancouver, CBU relay 1325 5-6, CBC nx 1330, fair, mixing with CH from R. Veritas (Orcutt).
 6160 CANADA CKZN-St.Johns, CBC nx 1105 4-14, EG rock 1125 but HJ dominating by then(D'Angelo).
 6165 NETH.ANTILLES Rk-Bonaire, SF/IG "Happy Stn" 0330 4-6; from EG to SF 0327 (Park-HI).
 6175 ANTIGUA BBC WS, 0004-0030 4-14, world nx, "Nx Abt Britain," "R.Nxreel," fair(Dillon-MD).
 6195 IRAQ (tent.) maybe R. Baghdad hrd at 0113 in EG on 4-17, talk by woman, mentions of Iraq, very poor under CBC N4 SW Svc (Fanelli).
 +++ As always, tnx to our stalwarts. Remember to stick with some low band listening, even during the summer doldrums. See you in July. 73-



LOG REPORT

section C

6200 to 11699 kHz

Editor: Joe Freeborn, Bldg. 877, Apt. 825, Governors Island, NY 10004

Joe Freeborn is on vacation. This month's Log Report "C" has been sorted and typed (I won't say edited) by Bill Oliver. It's been a long time since I've done this sort of thing, so if you find an error or two, please don't write.

- 6200 PHILIPPINES RVA 1153-1155* KR M w/sermon; "Arirang" theme & W w/sked, address & ID "R. Veritas Asia Hangukmal bangsong..." Poor. IS but abruptly off (utes). Parks-HI 4/14.
- 6220 IRAN VOIRI 2145-2205 Farsi/EG. Interview in EG on public health in Iran. //9022, 15084, both of which seemed to be jammed. Hill-MA 4/25.
- 6248 VATICAN VR 2310 EG Music in the Night, ID, into IT by W. Fair. Courtney 4/9.
- 6890 CHINA RB 1210 CH lang pgm. Very faint. Moran-IL 4/26
- 6933 CHINA RB Xian 1130-1135 SP. IS w/ID, s/on' followed by talk, QRN & flutter. Fair. Buer-FL 2/5. 1217-1250 CH talk into classical instr mx. Exc. Kashiwabara-CA 4/25.
- 7065 ALBANIA RT *0230 EG to NA, ID, cmntry. Fair-good. Bryant-GA 4/26.
- 7115 BULGARIA R Sofia *0300-0325. Nx, Geneva Conf, Interparliamentary Union, "Lifestyle." CW GRM. Sampson-WI 4/29. Moran-IL 4/26.
- 7130 TAIWAN VOFC 1205 CH lang pgm. Ham GRM. Weak Moran-IL 4/26.
- 7165 UKRAINIAN SSR R Kiev 2355-0005 EG ID, freq annemt, IS at 0000 into UK. Cobb-ME 4/7. 2345 EG May Day pgm. Fanelli 5/1. 0301 EE nx, snow in Kiev, "News & Views." Good. Sampson-WI 4/28.
- 7170 NEW CALEDONIA R Noumea 1006-1100 FF Jazz mx, FF talk, ID. Fair. Snyder-NY 4/28.
- 7195 ROMANIA R Bucharest 1935 EG, ID 1937. Fanelli 4/23.
- 7215 AUSTRALIA R Australia 1200 EG Mw/"International Report." S/o 1300. Moran-IL 4/26.
- 7240 CAMEROON R Nat du Cameroon, Garoua 1155. M/W ancrs in FF & EG. Weak. Tent ID. Bad ham SSB QRM. Moran-IL 4/26.
- 7245 LIBYA R Jamahiriya 2315 AR. Talks, AR mx, TC w/bell note, pips, ID, into nx. Good. Bryant-GA 5/7.
- 7270 POLAND R Polonia *2230-2300* Various EG prgs. Weak. Levison-PA 4/15. Jordan-PA 5/3. Fanelli 4/17.
- 7320 USSR RM 0300 EG. Nx May Day celebration, "News & Views," Soviet S. African meeting. Fair. Sampson-WI 4/30.
- 7325 UNITED KINGDOM BBC 0000-0030 EG. World Nx of Britain Radio News-reel. Dillon-MD 4/28.
- 7345 CZECHOSLOVAKIA R Prague 0307 EG. Pope's visit, world nx. Commts on Argentina. Good. Levison-PA 4/3.
- 7365 USA WCSM 0109-0141 EG Sunday sermon. ID as "World Service of Christian Science Monitor," but nvr w/call ltrs. Excellent. Kashiwabara-CA 4/13. 0145 EG Letter Box prq w/George Jacobs spkq about sun spots and their effect on SWL. Cook-PA 4/15. 2210 EG Hymns, Bible readings. Bauernhuber 4/12. 2345-0017 EG Monitor Radio ID's. Feature abt Falkland war. D'Angelo 4/2.
- 7380 USSR RN 1142 RM CH lang svc. W w/mx. Moran-IL 4/26.
- 7416 PIRATE Radio X 0155 EG Rock mx, 0213 ID "Radio X testing." 0300 "Bloopers" prq. NY maildrop given. Jones 4/12.
- 7430 GREECE VOG 0322 Greek Vocal mx, YL/OM ancrs. 0350*. Good. Sampson-WI 4/12.

- 7434 PIRATE R Lambda/KMUD 0127-0153 Rock mx & occasional anmts of San Francisco QTH, equip (50 w xmtr into end-fed l/wire) & freq ID's. Requested rpts to Hilo address. Heard next night 0056-0111 w/identical prg, so presume taped repeat. Fair. Tutak-WA 4/15,16.
- 7475t TUNISIA RT 2315 AR religious chanting. S/off 2335 (and not prior 2325) by YL followed by anthem. Jones 4/25.
- 7480 CHINA RB 1139 JP prg to E. Asia. Weak, Moran-IL 4/26.
- 7516t CHINA RB 1131 M&W ancrs in CH lang play mx. Weak. Moran-IL 4/26.
- 8975 UNID 0300 SP time pips, talk by M, then W w/apparent ID lost beneath lightning QRM. Cont till 0315, then mx between talk. Fair to poor to unreadable by 0319. Courtney 4/11.
- 9350 USA VOA Delano USB 0950 0950 RS M DJ w/mx. Jammed 11930 (QRM Pyong 9345 & utes). Fair. Park--HI 4/11.
- 9360 SPAIN SFR 0155-0201 SP M talking, ID's. Transmission to CA. Good. Bauerhuber 4/13. SP 5+1 pips, mx for LA. Kashiwabara-CA 4/27.
- 9395 GREECE VOG GK ID, many mentions of Palistinians into text tones. RTTY QRM. Poor. 0148-0152. Kashiwabara-CA 4/27. 0050-0150 GK Talk by M, mx, M/W talk w/flute solo. Vordan 5/1.
- 9410 UNITED KINGDOM BBC 1858 EG Liturgical mx for Easter, world nx. Fair. Fanelli 4/18.
- 9420 GREECE VOG 0335-0345 uninterrupted Greek mx selections. Very good signal makes this a pleasure to listen to. Bryant-GA 4/26.
- 9435 ISRAEL Kol Israel 2135 EE nx items on military skirmishes in S. Lebanon. Good. Bryant-GA 4/25. 2355-0030 EE IS, time, ID, sked, nx, Passover prg. Very good, Arland-VA 4/13. 0415-0430 FR all nx prg mentioned Israel involvement in US?Iran affair. Fair. Jordan-PA 4/23.
- 9465 USA WCSN 2025 EG w/show on "Legendary Womwn of Rock-n-Roll" on their "Weekend Program" Good. Bryant-GA 4/25.
- 9465 USA VOFC via WYFR 2230-2300 EG. Chinese top 5 pop songs, ID at 2247, Chinese lesson to s/off. WYFR ID at 2300. Good with some splatter 9470. Buer-FL 4/15.
- 9480 ALBANIA RT 2020 FR nx, pol cmntry, ID "Ici Tiran." Fair to good. Bryant-GA 4/25.
- 9486 PERU R Tacna 0220-0310 SP mx prg w/very few announcements. ID at 0301 w/echo chamber device. QRM from R Moscow 9490. Morby 5/4.
- 9495 USA KVOH 0220-0258* Mx & religious prg. Cook-PA 4/15. EG two Hi-Tech relig/pop vocals w/orch, "This is Today" prg. Vordan 4/25.
- 9510 ALGERIA R Algeria 1900- EG ID & freq by M into class mx. 9640 kHz too much QRM. Fair. Snyder-NY 4/26. 1940-1958 EG Pop mx and ID at 1955. Tuchscherer 4/22. 2030-2100 SP M w/ID into world nx abt Chile, Argentina & mid-East area. Jordan-PA 4/4.
- 9515 IRAQ R Baghdad 0120-0230 AR Prayer chants by M, mx w/flutes, Big Ben chimes at hr & ½ hr follwd by ID. Jordan-PA 4/30.
- 9515 ASCENSION ISL BBC 0150 EG play, promo for St. George's Day, rlg mx. Park--HI 4/19. 2126-2200 mx, soft cmnts by M & W, EG ID at 2200 w/site announced. Tuchscherer 4/22.
- 9520 HUNGARY R Budapest 0302-0315 EG "SW Club." Fair. Bryant-GA 5/6.
- 9525 JAPAN RJ *0875-0903 JP/EG IS w/JP/EG ID's. S/on in JP for General Svc. D'Angelo-PA 4/4.
- 9530 USSR RM 0822 Rus mx. Weak. Moran-IL 4/26. 0031-0040 EG M w/sport talk. Fair. Bobb-MN 5/5.
- 9535 USA WYFR 1825-1900 EG Relig prg. Good. Bonnet-IN 5/6.
- 9535 CHINA RB 1205-1245 EG nx. Fair. Jordan 4/6. Bonnet-IN 4/28.
- 9545 BRAZIL R Universo 0820 PT ancrr w/pop mx. Weak. Moran-IL 4/26.
- 9545 INDIA AIR Delhi 1532 EG nx, tx on Tamil problems in Sri Lanka, ID at 1536. Schultz 4/25.
- 9550 USA WYFR 0850 SP M w/tx over violin mx, Bible reading. //9605, 6175, 6105 (co-channel carrier; xmtr fault.) Park-HI 4/6.
- 9550 AUSTRIA ORF *0258 IS, multi-lang ID's. Bryant-GA 5/6.
- 9560 ETHIOPIA VO Rev Ethiopia 1505-1526 EG nx, ID, mx. Schultz 4/25.
- 9560 TURKEY VOT 2200 EG nx, ID at 2205 "This is the VOT, b/cing from Ankara." Good. Bryant-GA 4/25. 0326 EG End of Mailbag Show, TK pop mx. QRM FOFC 9555. Poor (& rare). Park-HI 4/20.
- 9570 CHINA RB 1608 EG Nx & "Nx abt china." Poor. Park-HI 4/5.

9575 USSR R Station Peace & Progress 1520-1531 AR Pop/folk mx, ID "R. Masku", cmtly @1524; ancr w/ID "Ahuna Moscow", horn IS; new lang 1530 (Azeri?). Good, but QRM jammer. Park-HI 4/11.

9580 AUSTRALIA RA 0910-1000 EG "Interaction" prg, "Aust Tonight" prg abt Vietnam vets. Arland-VA. 1114-1130 EG sports scores, ID, rock mx. Good. Dillon-MD 4/12.

9585 BRAZIL R Excelsior 0117-0140 PT futebol, jingles, whistles, TC, ID 0139. Paszkiewicz 4/9.

9590 NETH ANTILLIES R Nederland 0230 EG Barry O'Dwyer w/world nx folwd by "Report." Bauernhuber 5/6.

9595 JAPAN RJ 0814 JP Very beautiful traditional mx. Severe QRM from BBC on 9600 kHz. Weak. Moran-IL 4/26.

9600 UNITED KINGDOM BBC 0813 EG tlk w/Russian priest abt Holiday observance in USSR. Good. Moran-IL 4/26.

9615 SOUTH AFRICA RSA 0220 EG Kalahari desert. Good. Wally-CA 4/13.

9615 USA KGEI 0812 SP m ancr w/nx. Fair. Moran-IL 4/26.

9620 EAST GERMANY RBI 0335-0345 EG Nx, ID, mx. Good. Bryant-GA 5/8.

9630 SPAIN SFR *0000-0040 EG nx, cmtry. Jordan-PA 4/13.

9630 NETH ANTILLES R NEDERLAND 0818 EG "Media Network." Poor (QRM USSR 9635 & local. Park-HI 4/16.

9640 UNITED KINGDOM BBC 0807 EG nx. Moran-IL 4/26.

9640 SAUDI ARABIA BSKSA 1550-1600* AR Koran read by M w/others repeating in unison. Fair. Park-HI 4/17.

9650 PHILIPPINES R VERITAS 1145-1155* KR vocals, tlk by W, ID's, addr, IS. Paszkiewicz 4/30.

9650 USA VOA Delano 0103 EG World nx. Fair. Park-HI 4/17.

9650 NETH ANTILLES R Nederland 1050-1125 EG "Happy Station" w/Tom Meyer. //6020. Good, Dillon-MD 4/26.

9655 PERU R Nor Peruana 1128-1143 SP Andes mx w/TC's by YL, many mentions of Chachapoyas. Splatter from 9660. Best LSB. Buer-FL 4/13.

9655 AUSTRALIA RA 0804 EG "International Rpt." Strong. Moran-IL 4/26.

9660 AUSTRALIA RA Dom Scv 0804 EG sports. Weak. Moran-IL 4/26.

9670 EGYPT R Cairo 2015 EG S. Afr elections and Egypt ballet. Not on next day. Field 5/6.

9675 USA VOA via Philippine Relay 0802 RS M s/nx in RS. Beamed to USSR. Jammer loud in background. Weak. Moran-IL 4/26.

9675 BELGIUM BRT 0259-2125 EG IS, ID, "Brussels Calling," nx, mx. Bobb-MN 4/14. 2120-2130 EG/Flemish tlk followed by EG s/off, Flemish anmts. IS to 2130. Flemish s/on. Some QSB. Buer-FL 5/1.

9680 USA WYFR 0040-0100 EG Q/A abt New Test, ID, Good. Arland-VA 4/22.

9690 WEST GERMANY DV (Antigua) 0750 M ancr w/march mx. Moran-IL.

9695 SWEDEN RSI 2315-2328 EG Stamp prg, IS, ID. Good. Bobb-MN 5/3

9695 SOUTH AFRICA RSF *0200-0233 New EG xmsn to US/Can. Jordan-PA 4/13.

9700 WEST GERMANY DV 0135-0200 GM class mx, voc grps, M&W ancrs. Good listening. Bonnet-IN 4/20.

9715 MADAGASCAR R Nederland Relay 2110 EG. Good. Bryant-GA 4/25.

9725 SWITZERLAND SRI 0158-0225 EG Nx, cmtry, mx. Bonnet-IN 5/1.

9730 CUBA RCH 0755 SP prg to W. Eur/N. Afr. Weak. Moran-IL 4/26.

9745 ECUADOR HCJB 0755 EG. //9860. Fair. Moran-IL 4/26.

9755 CANADA RCI 2333-0009 EG "As It Happens." Arland-VA 4/22.

9760 AUSTRALIA RA 0753 Waltzing Matilda s/on into EG prg to Pacific. Moran-IL /26.

9760 ALBANIA R Tirana 0230 EG nx, tlk with library head, mx. //7065 poor to fair both freqs. Cook 4/6.

9775 BANGLADESH RB 1358-1500 presumed Urdu w/beautiful IS to 1400, s/on ancmts & ID by YL in EG into nx in Urdu by OM to 1412 w/occ ID's. Tlk by YL & OM to 1420 into prg of subcontinental mx sels 1459. S/off ancmts & ID by YL to 1500. Poor-fair. Tutak-WA 4/23.

9780 YEMEN, DEM REP R Sanaa 0320-0330 Mid East mx into AR-sounding langw/nx. Several mentions of "al-yaman." Fair. Bryant-GA 4/26.

9835 HUNGARY R Budapest (xmsn to Eur) 2012-2028* EG. Jordan-PA 4/26.

9840 VIETNAM VOV 1405 JP Long nx by OM, folk mx. Fair, then good. Ex-10040? Park-HI 4/17.

9860 ECUADOR HCJB 0750 EG relig prg. Moran-IL 4/26.

9865 USSR RM 2245-2300 EG nx, DX prg, mx, IS, ID. Bobb-MN 5/4.

9870 ECUADOR HCJB 0230-0300 EG DX Pary Line. Fair. Walley-CA 4/21.

- 9875 IRAQ R Baghdad 2010-2034 EG War communique, mx, ID, anti-Iran feature. Poor. D'Angelo-PA 4/5. 0050-0115 Mid-East mx, prayer chants. Fair. Jordan-PA 5/2. 2125-2135 Mid-East mx, ID, nx, ID again at 2135, long pause, back to mx. Good. Bryant-GA 5/5. 2145 EG AR mx, reports on "conflict," 2147 s/off ancmt, 2149 NA booming in, but strong hum. Courtney 4/15.
- 9900 EGYPT R Cairo (xmsn to Eur) 1805-2005 IT/GM/FR. Inst mx to lang switch. Good. Jordan-PA 4/4.
- 9950 SYRIA R Damascus 2050 EG Beautiful mid-East mx between reading of listener's letters. Bryant-GA 5/7. 1835-1910 (xmsn to Eur) GM/FR. Best @1905 w/mx intro, nx. Jordan-PA 4/4.
- 9977 NORTH KOREA R PYONGYAN 1103 EG freq info, national nx. Poor. Fanelli 4/24.
- 11375 CHINA CPBS ML 0929 Tibetan? Kylo IS & ID's "Gyomah imam...", band w/IS, M&W w/ancmt & poss nx. Sounds like Cantonese, but more slurry. Ute QRM. Park-HI 5/3.
- 11445 CHINA RB 2333-2355 SP Talk by YL & CH mx. Very good. Tuchscherer 4/19.
- 11610 ISRAEL Kol Israel 1858 EG Trumpet/drum ID, s/on, freq info, nx. //13725, 11655 both fair. 11610 best. Fanelli 4/21. 1909 EG Nx by YL, Calling All Listeners. Good. Snyder-NY 4/26.
- 11615 PAKISTAN RP 1601-1630 EG Tlk w/YL, local mx, full ID, freqs, & prg sked @1615 into slow-speed nx. Abrupt S/off. Fair to poor. Tutak-WA 4/21,22.
- 11620 INDIA AIR 2044 t/in EG YL w/freqs, @2045 ID as GOS of AIR into nx. Fair. Courtney 4/17. 1910- EG tlk. Snyder-NY 4/26.
- 11635 CLANDESTINE LV del CID 1230 SP ID, usual anti-Castro rhetoric. Is this Clarin off freq? Nothing heard on 11700. Fair to good. Courtney 4/16.
- 11670 FRANCE RFI 1020-1050 FR YL ancr w/1lk until 1029 when RFI French Guiana relay started up on same freq with int sig, ID, & freqs. After that, both stations could be heard w/same prg. The French Guiana sig was a little stronger and a little faster to reach my rcv, giving the brdct an echo or reverb effect on w anncr & FR pop mx. Cobb-ME 5/5.
- 11675 USSR RM 1640-1710 langs M&W ancrs w/alt nx rpts in 8-10 minute blocks sep by chime notes. IS at 1700, OM w/7 min Euro nx seg in Scand or GM-sounding lang. Very good. Jordan-PA 5/4.

And except for Rufus Jordan's item on FRANCE RFI in EG on 9790 from 1110 to 1130, that's it. Sorry, Rufe, it got covered.

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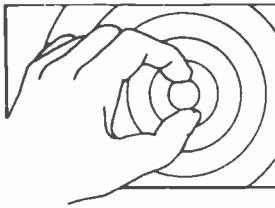
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LOG REPORT

section D

11700 and above

Editor: Wallace C. Treibel, 367 N.E. 149 St., Seattle, WA 98166

- 11705 SWEDEN RSI in EG 2312, interview, instr mx, IS, ID, QRM RCI (Arland VA 4/22)
- 11705 IRAQ R. Baghdad in EG 0100, Mid-East mx from 11th cent, ID 0116 (Wilson 5/5)
- 11715 GUAM KTWR in EG 0800, "Radio Bible Class", "Wesleyan Hour", ID, p (Hill MA 4/17)
- 11720 AUSTRALIA RA in EG 0911, "Talkback", WARC HF conf, g (Park HI 5/3)
- 11740 ECUADOR HCJB Quito in EG 1150, relig tlk, mailbag, g (Bonnet IN 4/30)
- 11745 BRAZIL R. Bras in EG *0156, IS, ID, sked, freqs, nx, vg (Bryant GA 5/7) sports, vocals 0216 (Sampson WI 4/26) vocals in PT, cmntry, instrm'ls 0210 (Bonnet IN)
- 11750 SINGAPORE BBC relay in EG 1115, "Waveguide" on new BBC sked, p (Park HI 5/5) world mx in EG 1300, f (Bonnet IN 4/17)
- 11750 CYPRUS BBC relay in EG 1704, world mx, "Focus on Africa", f (Park HI 4/30)
- 11755 FINLAND RF in EG 0443, mailbag pgm, polit cmntry, g (Walley CA 4/28)
- 11760 COOK ISLANDS RCI in EG 0350, soft instrm'ls, ID, mx, f (D'Angelo PA 4/4) in EG & Maori 0641, island mx, f, no ID 0700 (Moran IL 4/26) EG ID 0445 (Jordan PA)
- 11760 VATICAN STATE VR in EG 2050, Pope visiting prisoners in Argen. (Cook PA 4/15)
- 11795 CUBA RHC in EG 1919, "World of Stamps", exc (Snyder NY 4/26)
- 11800 FRANCE RFI in FR 0637, nx to Africa, f (Moran IL 4/26)
- 11800 AUSTRALIA RA in EG 1200, world mx, mx, vocals, sports pgm (Bonnet IN 4/25)
- 11800 GABON R. Japan relay in EG 2320, ID, pgm re volunteer readers for the blind (Bryant GA 5/5) polit discussion 2300, g (Walley CA) DX pgm 2320, g (Levison PA)
- 11805 BRAZIL R. Globo in PT 0229, ID, pop mx, ad for Cola, g (Courtney 4/13)
- 11815 LIBYA R. Jamahiriya in AR 2300, AR chants, f (Bauernhuber 5/7)
- 11830 LIBERIA ELWA in EG 1920, "Open Forum Program", g (Snyder NY 4/26)
- 11830 USSR(p) relay of Laos(?) 1100 in FR(?), no ID hrd, oriental mx, wiped out at 1150 by WYFR carrier (Field MI 5/8) ED: See LN in FRENDX - May '87 - pg. 24.
- 11835 SRI LANKA SLBC in EG 1105-1130*, interview, mx, p (Hill MA, Field MI 5/7)
- 11835 ECUADOR HCJB Quito in GM 0628, into FR 0630, beam to Europe (Moran IL 4/26)
- 11840 CUBA R. Moscow relay in EG 1537, mailbag, tlk re space pgms (Bryant GA 4/25)
- 11865 SEYHELLES FEBA in EG 1556, "Back to the Bible", ID, freqs, nx (Tutak WA 4/23)
- 11900 SOUTH AFRICA RSA in FR 0626*, musical s/off w/bird calls (Moran IL 4/26)
- 11910 AUSTRALIA RA in EG 0625, nuclear safety pgm, f (Moran IL 4/26)
- 11915 BRAZIL Rk. Gaucha in PT 0239, tlks, futbol hillites, pips, ID (Paszkiwicz WI)
- 11938 SINGAPORE SBC in EG 0622, island mx, weak sig, QRM from 11945 (Moran IL 4/26)
- 11945 AUSTRALIA RA in EG 0620, pgm parallel to 11910 - see above (Moran IL 4/26)
- 12010 USSR R. Moscow in EG 0530, nx, cmntry on arms matters, mx, ID (Jordan PA 5/3)
- 12035 SWITZERLAND SRI in EG 2100, world nx, "Dateline" pgm (Jones 4/11)
- 12050 EGYPT R. Cairo in AR 2040, interview, AR mx, ID, TC 2058, nx (Dillon MD 4/13)
- 12085 SYRIA R. Damascus in EG 2139, "Portraits of our Country", classical & AR mx, ID at 2200, nx (Courtney 4/9, Sampson WI 4/28, Dillon MD 4/28)
- 13665 USSR R. Moscow in EG 0251, "Home in the USSR", nx, "Outlook" (Sampson WI 4/9)
- 13725 ISRAEL Kol Israel in EG *2130-2159*, IS, ID, nx, features (Jordan PA 4/22)
- 13760 ICELAND ISBS Reykjavik in IC 1218, nx(?), phone interviews(?) (Jordan PA 4/15)
- 13770nf IRAQ R. Baghdad in AR 1555, slow ME vocals, ID(?), nx(?), chants (Jordan PA)
- 15070 UNITED KINGDOM BBC London in EG 0813, cmntry, promo, Big Ben, f (Park HI 4/27)
- 15084 IRAN VOIRI in EG 1455, cmntry on Iran as leader in health field (Walley CA) in Farsi 1137, trad mx, p (Park HI) in Farsi 1620, stringed instrm'ls, loud exhortations, relig readings (Bryant GA) in Farsi 1715, 2 minutes of grandfather clock ticking sound effects at 1725, speech, crowd cheers, g (Jordan PA)
- 15114 PAKISTAN RP in EG 0230, mx in slow speed EG (Paszkiwicz WI 4/18)
- 15130 TAIWAN VOFC in SP 2347, ID, instrum'l CH mx, g (Kashiwabara CA 4/25)
- 15135 BRAZIL R. Record on this freq and not 15130 as rptd in May issue of FRENDX
- 15140 CHILE R. Nacional in SP 0300, rapidfire call of futbol match, f (Courtney 4/16)
- 15145 EAST GERMANY RBI in EG 1629, ID, multi-lingual ancnts, p (Kashiwabara CA 5/3)
- 15150 CANADA RCI in EG 2152, "SWLers Digest", //11945, p (Park HI 5/2)
- 15180 NORTH KOREA R. Pyongyang in EG 0402, anthem, ID, mx, nx (Kashiwabara CA 4/15)
- 15185 WEST GERMANY DW in IN *1325 (not 0825 as erroneously rptd in April Log D) Buer in Florida notes that letter from Cologne says mxen is from GFR - not Sri Lanka as listed in WRTH 1987.
- 15200 GABON Africa No. 1 in FR 1530, ID, nice collection of Afr pop mx (Bryant GA)
- 15210 CHINA R. Beijing in CH 0205, nx, cmntry, mx (Hawk 4/18)
- 15235 JAPAN RJ in JP 0411, sports nx, cmntry on \$/yen (Kashiwabara CA 4/15)

15240 AUSTRALIA RA in EG 0158, TC, pips, RA nx, freqs (D'Angelo PA 4/16)

15230 CUBA RHC in EG 2115, feature pgm, SNL items, nx headlines, f-p (Jordan PA 4/12)

15245 UNITED KINGDOM BBC in FN/EG *1430, lang lesson, ID in FN, nx(?) (Jordan PA 4/25)

15265 BRAZIL R. Nacional in PT 1820, religious songs & comments, f (Levison PA 4/17)

15275nf NO. MARIANAS KYOI in EG 0415, pop songs, annmcs, ID, address (Buer FL 4/15)

15280 CHINA R. Beijing in EG 0425, pgm on Tibet, mx, vg (Walley CA 4/28) in EG 0411 w/tlk abt population, over R. Japan but no het ring, f (Kashiwabara CA 4/15)

15300nf USA WCSN in EG 2155, chime IS, church service, vg (Buer FL 5/3) in EG 2345 w/reading of reception rpts on "Letterbox", g (Bryant GA 5/5)

15315 USSR R. Moscow (FE) in KR 1123, historical pgm, anti-US speech in RS (Park HI)

15335 MOROCCO RTVM in AR 2037, AR mx, DJ, TC 2100, agricultural rpts, g (Dillon MD) also in AR 1900, pips, ID, mention of C. Aquino (nx?), mx, f (Courtney 4/17)

15350 LUXEMBOURG RL in FR 2130, ID, promos, ads, US rock, exc (Bryant GA 4/30)

15365 CANARY IS. REE relay in SP 2200, ID, freqs, sked, nx (Bryant GA 5/5)

15400 SRI LANKA DW relay in JP/EG 1151*, QTH's in Japan & Koln, site ID (Park HI 4/14)

15410 WEST GERMANY DW in EG 1135, nx, ID as "Deut. Welle African Service"(Wilson 5/5)

15475 GABON Africa #1 in FR 1847, ad, tlk on world affairs, ID, vocals (D'Angelo PA) in FR 1915-2046 w/reggae, Afro pops, ads (Bryant GA 4/25, Park HI 4/16)

15485 ISRAEL Reshet Bet(t) in HB? 1648, nx, off 1655, back 1656 but weaker, folk mx, time pips, ID, QRM from R. Moscow, p-vp (Park HI 4/28)

15525 BANGLADESH RB in EG *1229-1300*, IS, ID, nx, tlk, vocals, f (D'Angelo PA 4/12)

15570 SWITZERLAND SRI in EG 1110, nx re Lebanon, Gorbachev visit to Czechoslovakia, f (Snyder NY 4/9) also in EG 1331, nx, "Dateline", sports tlk (Sampson WI 4/21)

15575 SOUTH KOREA RK in EG 0215, nx, ID, song, sked, p (Bauernhuber 5/6) in EG 1409 w/nx & comments on Korea, f (Levison PA) in EG 1715 w/nx & ID, f-g (Morby 5/5)

15590 BELGIUM BRT in EG *1330-1355*, feature on cooking, sports tlk (Jordan PA 4/25)

15617 ISRAEL Reshet Bet in HB? 1808, folk mx w/o annmcs, p-vp (Park HI 4/26) also in HB 1338, ezl vocals, one selec in EG, ID 1352, IS & s/off 1355 (Sampson WI)

17575 MADAGASCAR RNW relay in EG 1142, live "Happy Station" pgm, mx, p (Park HI 4/26)

17610 TUNISIA(t) RTVT in AR 1553, lovely AR vocals, f/o abruptly, f-g (Bryant GA 4/25)

17620 FRANCE RFI in EG 1635, tlk re commemoration of Titanic, mx, ID (Courtney 4/15) in EG 1600 w/nx, ID 1606, "Paris Calling Africa", Afro pops, g (Bryant GA 4/25)

17660 PAKISTAN RP in EG 1102, world nx, IS, TC & ID 1105, slow-speed nx (Park HI 5/5)

17690 EGYPT R. Cairo in AR or Urdu 1600, nx, marching mx, exc (Bryant GA 4/25)

17705 LIBERIA VOA relay in FR 2105, nx, VOA correspondence, ID's (Bryant GA 4/30)

17715 AUSTRALIA RA in EG 0312, world nx, //17750, f (Moran IL 4/26)

17715 ANTIGUA D. Welle relay in GM 1359*, pop mx, IS, Caribbean site ID (Bobb MN 4/16)

17745 ALGERIA RTA in EG 1910, pop mx, EG lesson, g (Fanelli 4/18) in EG/SP 2000, s/on in EG w/freq & TC followed by announcement in SP (Jones 4/12)

17750 AUSTRALIA RA in EG 0310, world nx, //17715, f (Moran IL 4/26)

17775nf NO. MARIANAS KYOI in EG/JP 0220, rock songs, ID 0230, g (Buer FL 4/7)

17790 ECUADOR HCJB Quito in EG 2135, "DX Partyline", g (Bryant GA 4/25)

17790 OMAN BBC relay in EG 1018, "Questions of Faith" roundtable, f (Park HI 4/20) ED: This must be a new frequency since Oman relay is not listed in WRTH or RDI.

17795 AUSTRALIA RA in EG 0301, world nx, exc (Moran IL 4/26) in EG 2230, ID, nx, then pgm answering letters about Down Under, f (Bryant GA 4/25)

17810 JAPAN RJ in EG 0537, features incl "Science Report", f (Park HI 4/15)

17825 USSR R. Moscow in EG 0259, mx, nx, f-p (Moran IL 4/26) also in EG 0115 w/cntry on Israel's problems w/the Palestinians. Usual peace propaganda (Bonnet IN 4/16)

17850 USSR R. Peace & Progress in EG 0255, beamed to Africa, folk mx (Moran IL 4/26) also in EG 0215 w/features incl "Life in the Soviet Union", mx (Bonnet IN 5/3)

17870 LIBERIA VOA relay in EG 2058, jazz pgm and interviews, f (Fanelli 4/14)

17880 ASCENSION IS. BBC relay in EG 1620, "How Safe is Nuclear Power?" (Sampson WI)

18080 UNITED KINGDOM BBC in EG 1517, "African Perspective", ID in SH 1529 (Sampson WI)

21535 SOUTH AFRICA RSA in AK 0835, relig service, ID, address, vp (Park HI 4/19)

21680 NETHERLANDS ANTILLES RN relay in DT 1825*, tlks, ID, g (Bobb MN 5/3)

21685 NETHERLANDS ANTILLES RN relay in EG *1827, IS, ID "Happy Station" (Bobb MN 5/3)

 Some good loggings received this month. Remember that other DX'ers value most the rare catches and info about stations changing frequency or time slots. A reminder also that I don't repeat loggings that were listed in last month's issue so please consult the May issue for a complete update. Finally, I appreciate the effort of those who arrange their loggings in frequency order and make their slips at least 1/2 inch high. Anything smaller is difficult to handle and easy to lose.

I would like to publicly thank Carl Mann for the nice note re the usefulness of these English language schedules. Two gremlins got into the listing last month. Delete the GDR entries at 0000 and 0045 UTC. I don't where the KTWR data came from, but that was wrong too. A KTWR schedule arrived two days after we went to press...

Via Pinelands RBBS, Lou Josephs, Boston, provided the new WCSN schedule and now tells me that the 0400-1000 block on 9465 could move to 9815 or 9852.5 kHz. Lou also provides us with the summer schedule of Radio Discovery. Also, from RN via Lou, comes word that the SSB feeder hunt for late May and June has been postponed until October. Seems that the necessary equipment was not available. Lou is also uploading to Pinelands the Radio Nederland's Program Guide, and it is interesting reading. Bob Brown, KW3F, continues to upload the weekly electronic version of Sweden Calling DXers. Thank you to both Lou and Bob. Both of these bulletins are available off the front-end bulletin menu.

According to what I heard on the May 13th DX Party Line, HCJB is still using 6075 to Japan, so those listings have been reinstated. Spain at 1830 is excellent on 15375 to Africa and almost as good to the Middle East on 9745; 9675 was poor and just the wrong time of day for 7275 kHz. On May 17, based upon a tip from Hauser, I found Taiwan on new frequencies of 17845 and 15440 at 2200, despite old frequencies being announced. What was curious to listen to was the 2 second time delay between 9955 and delayed 15440. 15440 and 17845 were in sync, so these must be WYFR relays and 9955 is direct. I finally figured out what R Bras was announcing for a schedule to Europe for the past few weeks... 1750 on 15265. Actually, the IS comes on just prior to 1750, and English programming starts at 1800. On May 17 I left both receivers with different antennas on the frequency from 1630 forward, and the signal finally showed up out of the noise. Radio Dubai at 0330 has had surprisingly good signals on 17890 and 15435 at 0330 UTC. I think Egypt at 2015 on 9655 to Europe has moved, but to where I do not know (just strong RTTY on 9805); Sweden dominates 9655 from 2000 onwards. Kuwait on 11675 at 1800 has disappeared under Moscow's foreign language World Service -- boo hiss! Radio Australia's Talkback of May 24 announced that, in response to the Fiji coup last month and a BBC request, Radio Australia is now relaying the BBC World Service 2200-0030 on 15395 (Shepparton, 100kw @ 65 deg) to the South Pacific. RA continues its own programming on 15395 after 0030. Iraq cannot tell time or frequency. I found Iraq to NA 2300-0145 on 11705 (ex-6195), fighting with both Radio Sweden and Moscow already on the frequency, and at sign-off announcing... "25 meters or 6195 kHz" and "01 to 03 UTC." As I recall, they had this problem last summer too. Most of the DX shows were announcing in late May that Albania moved all 41m frequencies below 7100 to above 7100 kHz; in checking, this is apparently not correct or it hasn't yet taken place, e.g., on May 25, at 2230 on 9480 and 7065 and 2330 on 9760 and 7065. Antenna work on May 25: I removed the 250' wire from the NRD-525, moved the 400' at 40 feet onto the R-71A, and put up about 350' in an inverted-L about 80 feet up on the NRD. The extra height helps; I could hear Beijing on 11500 at 2100 to Europe despite a geomagnetic storm May 29. A new schedule from Jordan, but no changes on SW.

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PO Box 2275	:	MCI Mail:	244-6376
Vincetown	:	The Source:	BCFB11
NJ 08088-2275	:	Compuserve:	(send via MCI Mail)
	:	PacketRadio:	W2XQ @ WB2HNF
	:	Pinelands RBBS:	609-859-1910 (24/12/3 8N1)

This report covers changes entered between 04/25/87 and 05/29/87.

ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstrom, W2IQ

Start End Time (UTC)	(UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000	0100	China	R Beijing	15445								ENA		05/23/87
0000	0100	Spain	Sp Foreign Radio	11880	9630							NA		05/20/87
0100	0150	Fed Rep Germany	R Deutsche Welle	11785	9605	9565	9545	6145	6085	6040		ENA	9545 Malta relay	05/14/87
0100	0200	Spain	Sp Foreign Radio	11880	9630							NA		05/20/87
0115	0200	German Dem Rep	R Berlin Int'l	9730	6080							ENA		05/09/87
0145	0230	German Dem Rep	R Berlin Int'l	6165	6125							LA		05/09/87
0200	0300	Argentina	RAE	11710	9690							Americas		05/14/87
0200	0245	German Dem Rep	R Berlin Int'l	9620	9560							WNA		05/09/87
0200	0230	Hungary	R Budapest	11910	9835	9585	9520	6110	6025			NA		05/09/87
0200	0258	South Africa	Radio RSA	9695	9615	6010						NA		05/09/87
0200	0230	Switzerland	R Swiss Int'l	12035	9885	9725	6135					NA		04/26/87
0230	0325	Netherlands	R Netherland	11730	9590	6165	6020					ENA		05/09/87
0230	0300	Sweden	R Sweden	9695								NA	9590, 6165 v Bonaire	05/18/87
0300	0315	Hungary	R Budapest	11910	9835	9585	9520	6110	6025			NA	Med & Sat	05/09/87
0300	0430	Netherland Antilles	Trans World Radio	9535								NA	Su/Mo to 0530	05/19/87
0300	0426	South Africa	Radio RSA	7270	6160	5980	3230					Afr		04/26/87
0300	0500	USA	WRNO	6185										05/09/87
0330	0415	German Dem Rep	R Berlin Int'l	9620	9560							WNA		05/09/87
0330	0415	United Arab Emirates	R Dubai	17890	15435	11940	9640					NA		05/23/87
0345	0430	German Dem Rep	R Berlin Int'l	11750	9630	5965						EA/W Afr/Eu		05/09/87
0430	0500	Austria	ORF	11805	9550	5945						NE/WNA/Eu		04/23/87
0545	0630	German Dem Rep	R Berlin Int'l	17880	21540	21465	15240					SE AS		05/09/87
0600	0645	German Dem Rep	R Berlin Int'l	9620	5965							NA		05/09/87
0630	0700	Austria	ORF	15410	9635	6155	6000	5945				NE/W Afr/Eu		04/26/87
0630	0700	Switzerland	R Swiss Int'l	17570	15430	12030						Afr		05/09/87
0715	0800	German Dem Rep	R Berlin Int'l	21540	21465	9730	7185	6040				Far E/Eu	Sat-Sun exc 21540	05/09/87

0830	0900	Austria	ORF	15410	11915	9620	6155	6000	NE/Aus/As/Eu	04/26/87
0835	0930	Guam	KTHR	11715					E As	04/27/87
0845	0930	German Dee Rep	R Berlin Int'l	21540	21465				Far E	05/09/87
0900	0915	Austria	ORF	9685	6155	6000			Eu	04/26/87
0930	1030	Guam	KTHR	11840					Aus/NZ	04/27/87
0930	1000	Hungary	R Budapest	21525	17710	15320	15160	11910	Aus/NZ/Japan	05/09/87
1030	1130	United Arab Emirates	R Dubai	21605	17865	17775	15435		Eu/Afr	05/12/87
1100	1200	China	R Beijing	15280	9535				ENA	05/23/87
1100	1150	North Korea	R Pyongyang	11735	9977				Am	05/25/87
1100	1115	Pakistan	R Pakistan	17660	15606				Eu	05/13/87
1100	1156	South Africa	Radio RSA	15185	11900	7295			Afr/NE/UK/Ireland	04/26/87
1100	1130	Sweden	R Sweden	21690	9630	6065			Eu/Afr/NE	05/18/87
1100	1130	Switzerland	R Swiss Int'l	17830	15585	15570	11935		SE As/Aus/NZ	05/09/87
1110	1257	Netherland Antilles	Trans World Radio	11815					NA	Sat -1405/Sun -1332
1115	1200	German Dee Rep	R Berlin Int'l	21540	21465	17880	15440		SE As	05/09/87
1158	1235	Ecuador	HCBJ	6075					FarE/Jap	05/14/87
1200	1230	Austria	ORF	15320	11855	9685	6155	6000	ENA/Aus/As/Eu	04/26/87
1200	1300	China	R Beijing	15280	9535				ENA	05/23/87
1200	1250	North Korea	R Pyongyang	9977	9600				Am	05/25/87
1200	1225	USSR	R Tashkent	15460	11785	9715	9600	7325	As	05/14/87
1230	1315	German Dee Rep	R Berlin Int'l	21540	21465	17880			SE As	05/09/87
1255	1400	USA	WRMO	9715					Sun	05/09/87
1330	1400	Switzerland	R Swiss Int'l	17830	15585	15570	11955	11905	E Afr/India/Aus/NZ	05/09/87
1330	1400	United Arab Emirates	R Dubai	21605	17865	17775	15435		Eu/Afr	05/09/87
1330	1355	USSR	R Tashkent	15460	11785	9715	9600	7375	As	05/14/87
1400	1500	Austria	ORF	12015	11855				E As	04/26/87
1400	1500	South Africa	Radio RSA	21590	17780	15185	9585		Afr/NE/UK/Ireland	04/26/87
1400	1500	USA	WRMO	11965					Sun	05/09/87
1415	1500	German Dee Rep	R Berlin Int'l	17880	15240				SE As	04/26/87
1415	1430	Hungary	R Budapest	11910	9835	9585	7225	6110	Eu	05/09/87
1430	1457	Czechoslovakia	R Prague	21505	17730	15155	15110	13715	SE As/Pac	05/15/87
1430	1615	Bua	KTHR	9840					India	04/27/87
1445	1500	Canada	R Canada Int'l	17820	15325	15315	11935	11915	E Eu	N/Tb-1550,F/Is-1605
1445	1530	German Dee Rep	R Berlin Int'l	17755	15255	11890			W Afr/NE	Last 4 via Eu relays
1500	1530	Romania	R Bucharest	15335	15250	11940	11775	9690	As	04/25/87
1515	1600	German Dee Rep	R Berlin Int'l	9730	7295	6115			As	05/09/87
1530	1600	Austria	ORF	12015	11760	6155	6000		Eu	05/23/87
1530	1625	Czechoslovakia	R Prague	21505	17730	15155	15110	13715	S As/Eu	04/26/87
									Afr/As	11th freq 6055
										05/17/87

1530	1600	Switzerland	R Swiss Int'l	17830	15430	11840	9885	ME/E Afr	05/09/87
1600	1655	France	R France Int'l	17795	17620	11705	6175	Afr/ME/Eu	05/09/87
1600	1630	Hungary	R Budapest	11910	9835	9585	7220	Eu	05/09/87
1600	1615	Pakistan	R Pakistan	15605	15125	11625	11615	EMSE Afr/ME	05/13/87
1600	1640	United Arab Emirates	R Dubai	15320	11955	11730	9640	Eu/Afr	05/09/87
1700	1720	Sweden	R Sweden	6065				ME	05/18/87
1700	2100	USA	WRNO	15420					05/09/87
1715	1800	Berlean Dee Rep	R Berlin Int'l	15170	15145	9665		CLE Af	05/09/87
1730	1825	Argentina	RAE	15345				Eu/Afr/ME	05/14/87
1730	1825	Czechoslovakia	R Prague	15110	13715	11990	11685	Afr/As	05/17/87
1730	1800	Romania	R Bucharest	15340	15270	11940	11790	Afr	05/12/87
1800	1850	Brazil	R Bras	15285			9570	Eu	05/17/87
1800	0100	Dominican Republic	R Discovery	15045					
1805	1900	Austria	ORF	12015	11825	6105	6000	ME/EAS Afr/Eu	04/26/87
1830	1900	Austria	ORF	12015	11825	6015	6000	ME/EAS Afr/Eu	04/26/87
1830	1930	Spain	Sp Foreign Radio	15375	9765	9745	7275	Afr/ME/Eu	05/17/87
1830	1900	Sweden	R Sweden	9655				Eu/Afr	05/18/87
1830	1900	Switzerland	R Swiss Int'l	11955	9885			Afr	05/09/87
1845	1930	Berlean Dee Rep	R Berlin Int'l	15170	11750	9665		C Af	05/09/87
1900	1950	China	R Beijing	11500	9850			Eu	05/25/87
1920	1930	Greece	V of Greece	9425	9395	7430		Eu	05/09/87
1930	2025	Romania	R Bucharest	11940	9750	9690	7145	Eu	05/19/87
2000	2030	Canada	R Canada Int'l	17875	17820	15325	11945	W Eu	05/25/87
2100	2150	China	R Beijing	11500	9850		9555	Eu	05/19/87
2100	2115	Pakistan	R Pakistan	15605	15125	11625	11615	ME/EASE Afr	05/13/87
2100	2130	Romania	R Bucharest	11940	9750	9690	7145	Eu	05/19/87
2100	2130	Switzerland	R Swiss Int'l	15570	12035	9885		Afr	05/09/87
2130	2200	Austria	ORF	11720	6000	5945		W Afr/Eu	04/26/87
2200	2300	Argentina	RAE	11710	9690			Eu/Afr/ME	05/14/87
2200	2230	Czechoslovakia	R Prague	6055				Eu	05/14/87
2200	2245	Berlean Dee Rep	R Berlin Int'l	11750	7295	6165	6125	ENA/Eu	05/09/87
2200	2300	Taiwan	V of Free China	17845	15440	15370	9955	Eu/AUS/NZ	05/17/87
2300	2345	Berlean Dee Rep	R Berlin Int'l	11750	9730	6080		ENA	04/26/87
2300	0145	Iraq	R Baghdad	11705				NA/SA	05/25/87
2345	0030	Berlean Dee Rep	R Berlin Int'l	11750	9730	6080		ENA	04/26/87

This report covers changes entered between 04/25/87 and 05/29/87.

ENGLISH LANGUAGE DI SHOWS: By Day of Week
Compiled by Thomas R. Sandstrom, WZLQ

Shortwave DI Program	Show Start Time	Time	Country	Station	Freq 81	Freq 82	Freq 83	Freq 84	Freq 85	Freq 86	Freq 87	Target Area	Notes re DI Show	Record Last Updated
** DAY OF THE WEEK: Sunday														
DI Corner	0929	0900	Japan	R Japan	17810	11875	11940					60S/As/Oc		05/09/87
DI Corner	1129	1100	Japan	R Japan	17810	6120	5990					60S/Asia/NA		05/09/87
Shortwave Panorama	1233	1230	Austria	ORF	15320	11915	6155	6000				EMA/As/As/Eu		05/09/87
DI Corner	2329	2300	Japan	R Japan	15300	15280	15195	11860	9695			60S/As/Oc/Am/Eu/NE		05/09/87
** DAY OF THE WEEK: Monday														
DI Corner	0329	0300	Japan	R Japan	17845	17810	15280	5960				60S/Asia/NA		05/09/87
DI Party Line	1206	1158	Ecuador	HCJB	6075							FarE/Jap		05/14/87
** DAY OF THE WEEK: Tuesday														
Sweden Calling Diers	2010	2000	Sweden	R Sweden	9655	6065						Eu/Afr		05/19/87
Sweden Calling Diers	2110	2100	Sweden	R Sweden	11845	6065						Eu/Afr		05/19/87
** DAY OF THE WEEK: Wednesday														
DI Party Line	1206	1158	Ecuador	HCJB	6075							FarE/Jap		05/14/87
** DAY OF THE WEEK: Thursday														
Dier's Special	1800	1730	Argentina	RAE	15345							Eu/Afr/NE		05/14/87
Dier's Special	2230	2200	Argentina	RAE	11710	9690						Eu/Afr/NE		05/14/87
** DAY OF THE WEEK: Friday														
Dier's Special	0230	0200	Argentina	RAE	11710	9690						Americas		05/14/87
** DAY OF THE WEEK: Saturday														
DI Party Line	1206	1158	Ecuador	HCJB	6075							FarE/Jap		05/14/87

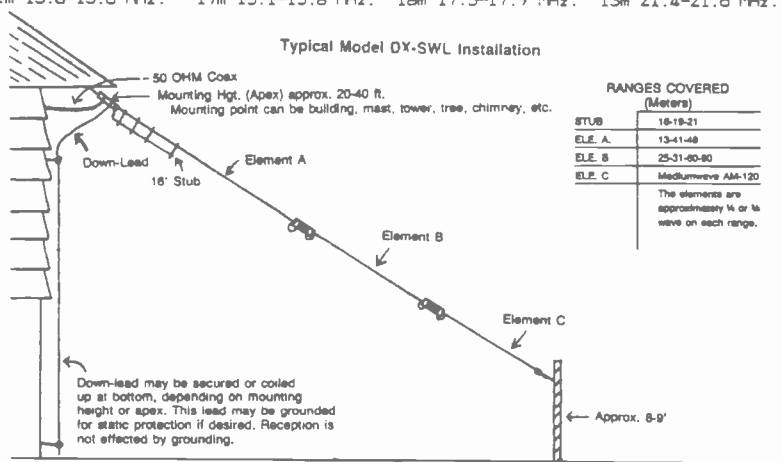
FROM Harold Seller's ANARC "MARKETPLACE REPORT."

Alpha Delta DX-SWL Sloper Antenna

This new antenna is available exclusively from Universal Shortwave Radio. The sloper design has been favoured by radio amateurs for many years and many SWLs have also installed half-wave dipoles in the sloped configuration. With the new DX-SWL Sloper one end needs to be elevated 25 feet or higher, while the other end is fastened to a support close to the ground (see diagram). It covers mediumwave through 13 meters shortwave. The overall length of the antenna is 60 feet and it has a PL259 coax receptacle at the feedpoint. It comes fully assembled and requires no adjustments or "trimming". Price US\$69.95 plus \$2.75 shipping from Universal Shortwave, 1280 Aida Dr., Reynoldsburg, OH 43068, telephone toll free 1-800-431-3939 (or 614-866-4267).

Below is a diagram of the antenna and a chart of the bands which it covers.

- Med.W. 5-1.6 MHz. 120m 2.3-2.5 MHz. 90m 3.2-3.5 MHz. 60m 4.7-5.0 MHz.
- 49m 5.9-6.2 MHz. 41m 7.1-7.3 MHz. 31m 9.5-9.9 MHz. 25m 11.6-12 MHz.
- 21m 13.6-13.8 MHz. 19m 15.1-15.6 MHz. 16m 17.5-17.9 MHz. 13m 21.4-21.8 MHz.



Ameco Tunable Preamp Antenna

Pictured to the right is the Model TPA Preamp-Antenna, priced at US\$74.95 (AC adapter \$7.50 extra). The TPA covers 0.22 to 30 MHz with over 20 dB of gain. Single wire leadin or balanced 300 ohm leadin antennas may be connected to the unit. At other times the built-in whip antenna may be used.



Sony AIR-8 : This receiver is not going to be available in Canada.

Grove Enterprises has announced that they have discontinued their repair and modification service, due to the lack of a qualified technician.

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