

# FRENDX



DEPARTEMENT DE L'INFORMATION  
INFORMATION DEPARTMENT

COMITE INTERNATIONAL DE LA CROIX-ROUGE  
INTERNATIONAL COMMITTEE OF THE RED CROSS

RED CROSS BROADCASTING SERVICE  
May - August, 1988

Target Area	Time (UTC)	Language	Frequency (kHz)	Days of Transmission and Date
EUROPE	1100 - 1130	EN	7210	Sundays : 29.05.88 26.06.88 31.07.88 28.08.88
	1130 - 1200	FR	7210	
	1200 - 1220	GE	7210	
	1220 - 1240	SP	7210	
EUROPE	1700 - 1730	EN	7210	Mondays : 30.05.88 27.06.88 01.08.88 29.08.88
	1730 - 1800	FR	7210	
	1800 - 1820	GE	7210	
	1820 - 1840	SP	7210	
AUSTRALASIA	0740 - 0757	EN	9560	ALL BROADCASTS  Mondays : 30.05.88 27.06.88 01.08.88 29.08.88  AND  Thursdays : 02.06.88 30.06.88 04.08.88 01.09.88
	0740 - 0757	EN	13685	
	0740 - 0757	EN	17830	
	0740 - 0757	EN	21695	
FAR EAST	1040 - 1057	EN	11935	
	1040 - 1057	EN	13685	
	1040 - 1057	EN	15570	
	1040 - 1057	EN	17830	
SOUTH AND SOUTH-EAST ASIA	B 1310 - 1327	EN	11695	
	1310 - 1327	EN	13685	
	K 1310 - 1327	EN	15135	
	1310 - 1327	EN	15570	
	1310 - 1327	EN	17830	
	1310 - 1327	EN	21695	
NEAR EAST AND EAST AFRICA	1510 - 1527	AR	13685	
	1510 - 1527	AR	15430	
	1510 - 1527	AR	17830	
	1510 - 1527	AR	21630	
AFRICA	1710 - 1727	FR/EN	9885	
	1710 - 1727	FR/EN	11955	
	1710 - 1727	FR/EN	15430	
	1710 - 1727	FR/EN	15525	
	1710 - 1727	FR/EN	17830	
	1710 - 1727	FR/EN	17830	
SOUTH AMERICA	M 2210 - 2227	PO	5965	
	2210 - 2227	PO	9810	
	2210 - 2227	PO	9885	
	2210 - 2227	PO	12035	
NORTH AND CENTRAL AMERICA	0110 - 0127	SP	5965	Tuesdays : 31.05.88 28.06.88 02.08.88 30.08.88
	0110 - 0127	SP	6135	
	0110 - 0127	SP	9725	
	0110 - 0127	SP	9885	
	0110 - 0127	SP	12035	AND
	0310 - 0327	EN	6135	Fridays : 03.06.88 01.07.88 05.08.88 02.09.88
	0310 - 0327	EN	9725	
	0310 - 0327	EN	9885	
0310 - 0327	EN	12035		

AR=Arabic / EN=English / FR=French / GE=German / PO=Portug. / SP=Spanish  
B = BEIJING CHN      K = KUNMING CHN      M = MOYABI GAB

# East Coast SWL Conference Ham/Computer Fest!

September 17-18, 1988

Virginia Beach, Virginia

Come and enjoy a weekend in beautiful Virginia Beach, Virginia, with many of your favorite SWL friends! Forums, conferences and dealers galore! Participating clubs include NASWA, ODDX & Great Circle SW Society.

- ⇒ Jonathan Marks from Radio Nederland!
- ⇒ Robert Horvitz, ANARC Exec. Secretary
- ⇒ Dr. DX Speaks Out!!
- ⇒ Chuck Rippel, DX'ers Forum Editor

Other highlights include displays from the major manufacturers: Icom, Kenwood and Yaesu; forums with the FCC, the ARRL, and various computer organizations! PLUS a flea market, and dealers of ALL kinds!

SWL forums will also include general roundtable discussions on receivers, QSL'ing and antennas! Additionally, the BLUE ANGELS will be performing at the nearby OCEANA MASTER JET BASE; it will still be warm, and the shores of the Atlantic Ocean are only a few short blocks away! A fun filled weekend is assured!

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For more information, send a SASE to:



The Old Dominion DX Association

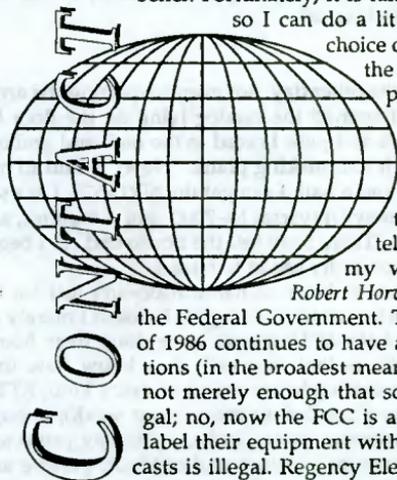
P.O. Box 9645  
Norfolk, VA 23505-0645  
or call (804) 497-5151

CONTACT

JULY 1988

CONTACT

I cannot tell you how much I detest the Summer. Even the simplest, most passive occupations—listening to SW, for instance—become torture beyond belief. Fortunately, it is fairly cool in the early morning when I get up, so I can do a little comfortable listening then, although the choice of programs is very limited at that hour. Still, the MUFs are on the way up, so perhaps the possibilities will improve as well.



#### ECPA1986 STRIKES AGAIN...

As there are no letters to pass on to you this month (you must be busier at you receivers than I am), I thought it would be useful to tell you about some information that has come my way. I begin with a communication from Robert Horvitz who serves as the ANARC liaison with the Federal Government. The Electronic Communications Privacy Act of 1986 continues to have an impact on all those who use communications (in the broadest meaning of that word) receivers. Apparently, it is not merely enough that some communications are now explicitly illegal; no, now the FCC is attempting to require radio manufacturers to label their equipment with warnings that the reception of some broadcasts is illegal. Regency Electronics (which manufactures a broad range of radio equipment, notably scanners) has suggested the following: "Improper use of this device may violate the provisions of the Electronic Communications Privacy Act of 1986 through the intentional unauthorized interception of protected radio communications." Tandy (Radio Shack) also supports labeling. In general, the FCC seems to want simply to draw people's attention to the fact that there is a law in effect that may have a bearing on what people may or may not choose to listen to. I am still not persuaded that ECPA1986 was necessary—indeed, I am quite certain that it wasn't. It was sheer stupidity in the Congress compounded by the greed of both Congress and the cellular communications industry that made ECPA1986 possible. Now we are living with the fall-out from that law. Whoopee.

The FCC craves your thoughts on the matter. It seems quite certain that some form of labeling will be used. You, however, are encouraged to comment upon the content of the label, whether it should be on the radio, or on the box containing the radio, and whether or not there should be additional accompanying material about the ECPA1986 and its significance to listeners. You must file your comments with the FCC by 5 August 1988. Address them to the Federal Communications Commission, Washington, DC 20554. Refer to GEN. Docket No. 88-281. If you want a copy of the Commission 3-page notice, you may get it from Bob Horvitz of ANARC: P. O. Box 143, Falls Church, VA 22046-0143. Please include 25¢ and a SASE.

#### UTILITY INFO FOR EVERYONE...

An intriguing book has come to my attention, and I am going to take this opportunity to suggest it to you. From Gilfer Shortwave comes Ferrell's Confidential Frequency List, compiled by Geoff Halligey. Among the book's many sections there is a brief but very good introduction, a list of abbreviations, and a call sign list. The bulk of the book is given over to an exhaustive frequency list. Information includes: the frequency (beginning with 4.0000MHz); broadcast mode; location; service and remarks. The remarks column almost invariably has an entry and might tell you the language of the transmission, times, identity of the broadcaster (e.g., if an embassy channel, which embassy). also included in the book are NAVAREA and ICAO HF area charts. The interesting thing about this book is that you don't have to own a RTTY/CW/FAX demodulator to get some good out of using it. There are a lot of interesting things listed as AM, USB and

LSB broadcasts: VOA and AFRTS feeders, Mayak feeders, marine and aeronautical transmissions, and even some embassy transmissions. Certainly, if you do have some kind of demodulator, you will certainly find the book quite fascinating indeed. This informative and very attractively produced book is highly recommended. You can obtain it from GILFER SHORTWAVE, 52 Park Avenue, Park Ridge, New Jersey 07656. The price is US\$19.95 + \$2 s/h (in USA) or \$4 (worldwide).

#### **UNIVERSAL SHORTWAVE CATALOG FOR 1988...**

Whew! It was a close thing. I arrived home the other day, not even suspecting the arrival of the new *Universal Shortwave Catalog*. I spotted the catalog lying on the floor beneath the mail slot. Stumbling over furniture and pets, I raced to the mail and grabbed the catalogue. Instantly I was immersed in it and making plans: "Now," I said to myself, "if I don't buy any groceries for a year and a half, I can get the NRD-525. Let's see: I'll get three more credit cards, and get the new Universal M-7000, and a monitor, and everything that Klinginfuss has ever written. Then, I can sell the house and..." I began to break out in a cold sweat, and some level of sanity began to return.

This catalogue is certainly one of the best to have on hand. It doesn't just list the products and their prices: it tells you about them, and in doing so, it doesn't merely repeat the manufacturer's propaganda. The folks at Universal have done their homework. They have obviously used the machines that they sell, they know how they work, and what they can (and can't) do. The catalog has receivers of every kind; RTTY, CW, and FAX demodulators (and everything needed to make them work); enough books to keep you in reading material for months; cable; clocks, lightening protectors and grounding wire; clocks; headphones; antennas: indoor and outdoor, passive and active; coax; in short, virtually anything your little heart might desire.

All this for only \$1, which is refunded with your first purchase. You can get your copy of the 1988 *Universal Shortwave Catalog* by writing to them at 1280 Aida Drive, Reynoldsburg, Ohio 43068 [(614) 866-4267].

#### **Let me see—was there anything else?...**

At various times I have recommended the *International Listening Guide* to you as an excellent quarterly source of information about SW broadcast schedules. While I stand by that recommendation, I should tell you that there has been a delay in getting out the most recent issue (May). I understand from sources who have access to reliable information that the next issue is due out during the Summer.

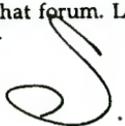
My thanks to *Chuck Rippel* (*DXers' Forum* editor) for letting me know that he had run across someone who had ordered *The Calculating Shortwave Listener* (TWICE!, no less) and had not received it. Unfortunately, I never received either of the requests. I say again: mail coming into and going out of RI does some pretty awful things. If you have written to me and have heard nothing, either write again or give me a call.

Speaking of which, I have some copies of TCSWL left. The price is now \$9 with postage. Later this Summer, I am going to revise TCSWL again. If any of you have any comments that you would like me to see before the revision happens, be sure to pass them on to me. Interestingly, I have heard from ABSOLUTELY NO ONE who has received TCSWL. Let me know what you think.

#### **MASTHEAD ON THE MARCH!...**

You will, no doubt, have noticed that the CONTACT masthead is changing again. The reason for this is simple: I was bored silly with the old one. Stop me when you see something you like. Or, if you see something that really rubs you the wrong way, let me know that, too.

Well, that's it for this month. WRITE: CONTACT is a *forum*, and you are all important members of that forum. Let's hear from you soon! Good listening and many 73s until next month—





# Easy Listening

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

## SUNDAY

- 2005-2015 **"News"** (Radio Damascus). Focus of the news is largely regional, concentrating on a number of stories of primarily Syrian or middle eastern interest. A certain bias might be noticed in the references to the Israeli "Occupation Army" and "Israeli atrocities". Repeated in summary at the end of the transmission at 2100. (12.085. Repeated at 2105 on 9.950).
- 0130-0140 **"News"** (Radio Tirana). News is divided into two segments, international and albanian news. International news tends to focus on the most important stories of the day, but Albanian news tends to report on speeches by officials, official celebrations and art festivals, etc. (7.065 // 9.760. Repeated at 0230 and 0330 on the same frequencies).

## MONDAY

- 1600-1605 **"News"** (W.C.S.N.) A very good, brief five minute summary of the major international stories, including stories from Africa, Asia, the middle east, Latin America, as well as North America and Europe. A three minute summary of the most important stories is offered on the half hour. (21.640. Repeated every hour on 21.640 // 15.390 // 15.300 and 9.850).
- 2335-2345 **"News in English"** (Voice of Greece). News tends to be solely national in scope, reporting on official state visits to and from Greece, debated issues in the Greek parliament, and especially news relating to Greek-Turkish divisions over Cyprus. Although this is officially listed as a daily transmission, it has a tendency not to show up on Sundays for some reason. (9.395 // 11.645. Repeated at 0130 and 0330 on 7.430 // 9.420 // 9.395).

## TUESDAY

- 1245-1315 **"News"** (Radio France International). An excellent fifteen minutes of news and press review about ten minutes of which is devoted to exclusively French concerns (especially during the recent French elections) and five minutes devoted to international news. There is also a five minute review of the French daily papers. (15.365 // 17.720 // 21.645. Repeated at 0315 with subsequent updates on 9.800).
- 0100-0110 **"News"** (Radio Prague). Concerns tend to be international in scope, largely focusing on disagreements (or agreements) between the U.S. and U.S.S.R., but there are some stories of primarily Czechoslovakian concern. Commendably Radio Prague has even reported on recent pressures to fill the number of empty Bishoprics in the country, a pressure that comes not only from the Catholic Church but also from its own citizens (however such stories, if at least reported, are not given much scope). (5.930 // 7.345 // 9.740 // 11.990. Repeated at 0300 on the same frequencies).

## WEDNESDAY

- 1200-1245 **"Northern Report"** (Radio Finland International). News tends to concentrate largely on Finnish and Nordic concerns, such as the recently scrapped venture for a Nordic television satellite or anti-nuclear sentiment in Denmark and the subsequent call for new elections. The last five minutes of the program is a review of the Finnish papers, always giving the paper's political orientation (i.e. Independent, Center Party, Social Democrat, etc). This program is not aired on

Mondays when it is replaced by "Enterprise Finland," a look at strictly economic news. Closes with the temperatures in all the Nordic capitals. (15.400 // 11.590). Repeated at 1300 on the same frequencies).

1330-1340 "News" (B.R.T). The first five minutes of the program is devoted to exclusively Belgian news and press review, more or less of the headline news variety. The press review is followed by "Belgium Today" which looks at a story of current interest in Belgium in more detail. (15.590).

#### THURSDAY

2345-2355 "News" (Radio Berlin International). News is of an international variety but with rather predictable biases (or so it seems to me). Stories come from Latin America, Asia, the G.D.R. itself, and especially South Africa to which RBI seems willing to devote quite a lot of air time. (9.730 // 6.080. Repeated at 0030 on the same frequencies and at 0200 and 0330 for the west coast on 9.620 and 9.560).

0100-0110 "News" (Deutsche Welle). News is both national and international but with focus more heavily on the national than otherwise. One nice thing about Deutsche Welle's news service is that it usually begins each story with Dateline, a kind of journalistic tradition that I like. (6.040 // 6.085 // 6.145 // 9.735 // 11.865. Repeated at 0300 on 6.010 // 6.045 // 9.545 // 9.605 // 9.710 // 11.785 and at 0500 on 5.960 // 6.120 // 6.130 // 9.635 // 9.700).

#### FRIDAY

0200-0210 "News" (Voice of Free China). News is of national and regional interest, especially economic interest, detailing some of the ramifications of trade relations with the U.S. and with other Asian countries. Closes with latest Taiwan stock exchange figures and the value of the yuan against the U.S. dollar. Followed by five minutes of political or economic commentary. (5.985. Repeated at 0300 and 0700 on the same frequency).

0230-0235 "News" (Radio Netherlands). A very good headline news summary of the most important international developments, seemingly very objective and sometimes containing news stories that get limited play elsewhere, such as negotiations between the Contras and Sandinistas when such negotiations are not much elsewhere in the news. One of the few places where problems in Surinam, a former Dutch colony, are likely to be mentioned. (6.020 // 6.165 // 9.590 // 9.895. Repeated at 0530 and 0715 // 9.715). Not aired on Sundays.

#### SATURDAY

2130-2140 "News" (Radio Sofia). News tends to focus largely on items of European, especially Bulgarian and Soviet, concerns. Details a number of official visits, communiques issued by various international conferences, and mutual cooperation agreements. Since Radio Sofia is scrupulous in indicating official titles of representatives (Vice Chairman for Planning and Co-ordinating of the Plenary Committee of the Chinese Communist Party), news stories often have a tendency to sound like bureaucratic soup. (9.700 // 11.720 // 11.950. Repeated at 2300 on the same frequencies and at 0300 on 11.750).

2330-2340 "News" (Radio Kiev). Stories are of Soviet national interest as well as more of Ukrainian interest. Soviet relations with the U.S. and other countries are the mainstay of the program, but there are also a few stories of more narrowly Ukrainian interest, such as a peace march scheduled for Kiev. (9.640 // 11.710 // 15.180 // 15.455. Repeated at 0200 on the same frequencies).

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# DX'ers Forum

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

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

July, 1988

Only the second column under my masthead and I've suffered an involuntary address change already. Blink and you'll miss it. The post office has changed the last digit of my zip code to 27613. No better service is promised if you use the new zip code but worse service is likely if you don't.

A new DX club has formed covering Africa in general and South Africa in particular. Vincent Stevens, their MW column editor, reported on the new group in the World DX Club *Contact* bulletin. The organization is called the "34 DX Club," so named because of its location in Cape Town, South Africa, near 34°S latitude. Their bulletin will cover MW, tropical bands, international bands, and utilities. There will be a column called *Africa Desk*, containing schedules and information about any station in Africa. Sample bulletins may be obtained from:

34 DX Club  
57 Bedford Street  
Parow 7500  
Republic of South Africa

No price is given for a sample bulletin; the usual practice when requesting a bulletin is to enclose 3 IRC's, but I can't say for sure what this group is expecting. If you join the club, or even just see a sample bulletin, why not write up your comments for the *Forum*?

**QSL craziness:** in the QSL'ing articles presented in the May and June *DX'ers Forum* columns, Kirk Allen and I noted that QSL'ing is unpredictable at best. More examples: Radio Nepal, usually a very tough verifier that requires multiple follow-ups, has answered reports from both of us in a few months. So we figured out the magic formula, eh? Sorry, we took totally different approaches! Kirk sent a typed report via normal airmail; I sent a taped report via registered mail (registered mail is recommended for Nepal in *Gerry Dexter's World Broadcast Station Address Book*, Gilfer, 1985). Kirk sent his directly to the station; I sent mine to Krishna Khatry, 9N1MC ex-Radio Nepal C.E. Mr. Khatry, who is now in charge of all radio transmitter licensing in Nepal, graciously obtained a QSL from the station for my report.

**And still more QSL oddities:** NASWA member and active QSL'er Rich D'Angelo reported with a touch of irony several months ago that he finally received a verie from Radio Thailand after years of hounding them, and now they were sending him Christmas cards! Rich, at least you got the verie...I received a New Year's card from Radio Baku, Azerbaijan SSR, but still no sign of a QSL from a report sent to them last July!

Many African stations are sporadic QSL'ers and it's imperative that you catch them when they're "on," because when they stop QSL'ing it might be for a year or

more. Quite a few African stations have recently started QSL'ing again after varying periods of quiet: Radio Centrafrique, Central African Republic, v/s Michel Bata; Radiodiffusion Nationale, Republic of Guinea; and Radio Africa, Equatorial Guinea (Rio Muni), via Pierce Communications, 10201 Torre Ave., Suite 320, Cupertino, CA 95014, who acts as an agent for booking religious broadcasters on Radio Africa; Radio Zambia, v/s W. Lukozu; and Lesotho National Broadcasting Service, no v/s.

Radio Botswana has leaked out a few QSL's recently in response to followups, but there's been nothing of late to compare to the flood of QSL's they sent out early in 1987 after almost a decade of silence. I'd suggest acting quickly on this one if you've been putting off; send a polite letter to the v/s Ted Makgekene (who's also a ham) pronto.

It's almost mandatory to include a pep talk in the first summer edition of any DX column about not abandoning hope and sticking with the tropical bands despite the pesky QRN that plagues them this time of year. Rather than just wave the pom-poms at you, I thought I'd share what benefits I reaped from keeping at it from May to August last year. During that period, I logged 24 new countries, and all but two (Syria and Ethiopia) have been verified as of this writing. Eleven were logged on 60, 49 and 41 meters, all static-prone bands during the May-August time frame. Africa and Asia dominated with 18 of the 24 countries split almost evenly between them; Oceania, North America, and Europe contributed one, two and three respectively. Keep the AGC (or AVC) turned on, and your hearing should be none the worse for the experience. Plus, when quiet returns to the bands, you'll be extra thankful!

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I put this month's feature together in response to the mounting use of relays by regional and international broadcasters alike. There is also a lot of confusion and controversy surrounding the process of identifying transmitter site locations, so much of the piece is focused on that subject.

## Relay Stations and Transmitter Site Identification

by Rowland Archer

When is an ID not an ID?

"This is the Voice of Free China..." Great, you just logged Taiwan, right? Well, maybe. But if they're booming in on 5985 kHz, sorry, it's most probable that you just

logged the USA (USA EAST for you Australian DX'ers). You've encountered a relay station; although you heard the Voice of Free China's programming, complete with a full identification, it's being transmitted via the facilities of WYFR, the religious broadcaster, in Okeechobee, FL, U.S.A. Just to keep things interesting, this is a reciprocal arrangement, and you might hear WYFR's programming via the Voice of Free China's transmitters in Taiwan. Both stations also broadcast their own programming over their own transmitters.

This is probably no surprise to many of you, but it is often a big surprise to the newer members of our hobby. That first realization often strikes when a log report editor corrects your submission. But controversy and confusion over transmitter sites and relay stations, is by no means limited to junior DX'ers.

## THE PROBLEM

To the SWL, transmitter site location may be only of passing interest. It could help you determine the best time and frequency for listening, since closeness to the transmitter may be an indicator of better reception.

For the DX'er, transmitter site location is absolutely key, since it is the transmitter site which determines the country for counting and awards purposes. So you can only fully solve the country counting question by determining the location of the transmitter in use at that particular time, on the particular frequency you are logging.

Fortunately, the standard hobby references (*WRTVH*, *PWBR*, *ILG*) do a great job of identifying the transmitter sites associated with particular frequencies, and there is little controversy about many if not the majority of broadcasts. However, stations can and do change their transmitter site / frequency choices with zero advance notice, so anything in print may be obsolete. Furthermore, there is often conflicting evidence surrounding the location of a transmitter, especially with a new relay arrangement.

Due to this uncertainty and continual possibility of change, most of us cannot be 100% sure about the transmitter sites used in any logging. You might be 99.99% sure, but there may even be unannounced and undetected errors in site selection at any given time that could invalidate assumptions about transmitter site.

Please note the emphasis on "100%," as in *absolutely certain*. By no means am I saying that transmitter sites can never be known with any degree of reliability. The analogue in QSL'ing has been stated most eloquently by Henry Lazarus in his chapter "The Verification Game" in *Shortwave Radio Listening with the Experts* edited by Gerry Dexter (Indianapolis, IN: Howard W. Sams & Co., 1986). Speaking on the question of whether a QSL can really "prove" you heard a particular station, he concludes that it can't. But that by no means makes a QSL worthless. A QSL is simply, but not merely, a statement by the radio station that *based on the evidence you have presented, in their opinion* you did in fact hear their station.

A "determination" of where the transmitter was that was in use when you logged a particular broadcast is also in most cases an *opinion*, rather than a *proof*. Most will not spark controversy, but some will. Your opinion should be based on various bits of evidence, sometimes conflicting: statements by the station itself, both in print (schedules and QSL's or correspondence) and orally (transmitted site ID's); statements by different authorities and reference books; and physical evidence (fade-in/fade-out times, delays on parallel frequencies signal strength and quality). Given all these pieces of the puzzle, you can draw your own conclusions or wait and see someone else's analysis.

## AUTHORITATIVE SOURCES

In this category are reference books such as *WRTVH*, *PWBR*, and the *ILG*. The first two are published annually and do the best they can to project the next year's schedules and transmitter sites. The *WRTVH* publishes a seasonal updater to compensate for this. These publications do a good job of tracking an extremely dynamic radio scene, but in many cases they must do some detective work when stations are not forthcoming about their transmitter sites or even schedules. For example, the Chinese domestic stations are major shortwave spectrum users that do not provide site or power information to the *WRTVH*.

*Passport to World Band Radio* is overall a very reliable source of information, and has one of the most extensive lists of Radio Moscow transmitter sites in generally available publications. Unfortunately, Radio Moscow frequently changes its schedules and transmitter choices for the same time slots and language services, and I've found that (a) the frequency allocation for this year only roughly match up with the 1988 *PWBR* and (b) the transmitter sites listed in *PWBR* only occasionally match those reported by Radio Moscow or QSL's. The message here is not to fault *PWBR*, since Radio Moscow is one of the toughest cases to handle and they do better than most. Instead, it is just to establish that in this hobby it is not unusual to read something in print and discover later it has changed.

Another type of authoritative source frequently quoted is some well-known DX'er, often living in or near the country in question. Perhaps through contacts with the station or better knowledge of local languages, plus a lot of experience, these DX'ers frequently help with excellent clues if not irrefutable evidence.

## THE STATION

It would seem that the prime source of information about the transmitter site in use for a particular broadcast should be the station itself. After all, *somebody* at the station must know the answer. That may be true but unfortunately a number of things can get in between: the real answer and the inquiring DX'er: (a) station policy may dictate that transmitter location is a confidential matter (b) the person answering question from DX'ers might be uninformed or ill-informed about transmitter locations.

Radio Moscow takes a peculiar approach to identifying its transmitter sites. Although the English Service will

very cordially issue QSL's which include transmitter sites when asked, they will give no information in advance about which transmitter sites are to be used for which broadcasts. The usual answer is "that information is not available." All I can take this to mean is that the person who answers mail and issues QSL's has access to a list of which transmitter sites were used for past broadcasts, but no future information. Even requests such as "what's a good frequency to monitor to hear the Dushanbe site?" go unanswered.

Inconsistency and just plain wrong information received directly from radio stations has cast a shadow over this particular type of evidence. I received a QSL from Radio Moscow with no site listed for their Spanish broadcast on 9610 kHz around 0100, reported by other DX'ers to be from Alma Ata, Kazakh SSR. I sent the card back and asked the Spanish Service to please add the site to the QSL. It came back, again with no site, but with a letter from Sr. Manolo de la Rosa, who conducts the Radio Moscow Spanish Service DX program. He said he did not understand what I was referring to by asking about transmitter sites, since Radio Moscow's transmitters are all in Moscow!

A number of relay stations will identify themselves at the very beginning or end of their broadcast day, just before starting or after finishing the relay from the home office, usually beamed to them via satellite, although sometimes (not very often these days) taken straight off the air too. These ID's are usually reliable. For example, the Deutsche Welle relays do ID, which is a good thing given the no-data QSL policy of Deutsche Welle itself. Even clearly announced relay site ID's are not above controversy, though. The latest is whether the Canary Island relay is being used by REE (Spain) anymore. Glenn Hauser's June LN contains an item stating that the REE's April schedule designates 15365 kHz as coming from Noblejas rather than Tenerife; yet Rufus Jordan in *DXtra* logged them on 5/16 to 0156\* when they gave the Tenerife relay QTH!

## PHYSICAL EVIDENCE

The experienced DX'er can add to the above types of evidence with some first-hand observations. One good clue is checking parallel frequencies carrying the same programming, especially if one is believed to be coming from the home country's transmitter without a satellite path in the link, which introduces a delay. If you can listen to the suspect frequency and the home transmitter frequency at the same time, and they are more than a tiny bit out of synch with each other, a satellite path to a relay station is a good possibility.

The signal strength and quality is also a clue. The Voice of Free China was rather weak and tough to hear on the East Coast of North America before they began using the relay services of WYFR; I had no doubt that *something* major had happened when I first tuned across their relayed signal at S9 + 30 levels.

An excellent clue comes from the time of fade-in and fade-out if that happens to fall within the time the relay is in use. A complete explanation of this requires a lesson in propagation, the subject of numerous entire volumes. Grossly over-simplifying things, after sunrise lower band signals (41 meters and longer) tend to fade

out (get weaker or disappear), and higher band signals (31 meters and shorter) tend to fade in (get stronger or appear). After sunset, the lower bands fade in and the higher bands fade out. The key is whether there is a complete path of darkness between you and the transmitter site. Daylight at either location will affect things.

Based on this, you can often notice a startling change in signal strength when the sun rises or sets at the transmitter site (it can happen within minutes). Then by using a set of sunrise-sunset tables or a tool like the *DX Edge*, you can get another clue as to transmitter site. In reality, the signal fade-in/fade-out evidence tends to be used to substantiate an already strong hypothesis about transmitter site, rather than to form a hypothesis. By itself, it is inconclusive, since the sunrise/sunset line does not determine a single point on the globe.

Another clue may come from the technical quality of the transmission. Is it exactly on frequency or a few tenths of a kHz (or even whole kHz) off? Technically advanced nations tend to be right on the mark, others may be only close. For some reason Radio Habana Cuba's transmitters seem prone to 60 Hz hum and audio distortion, and this clue was noted by some when the old Radio Hanoi broadcasts were first relayed via Habana.

## A CASE STUDY

Let's use this framework of evidence to consider a case that's received a lot of coverage in the past 6 months, that of the 4790 kHz broadcast by Azad Kashmir Radio. DX'er Steven R. Lare of Holland, MI wrote to this column on 6/6/88 about this. Let me excerpt from his letter:

"I am writing...concerning the transmitter site of Azad Kashmir Radio on 4790 kHz...Chuck Rippel had stated that "the exact transmitter location is still as much a mystery as ever." I [respond] to that by saying "what mystery?" According to the 1988 *WRTVH*, p. 223, under the heading of Azad Kashmir, it states that 4790 is Islamabad (identifying as Trarkhal). Consider also the April 1988 Listeners Notebook, p. 22, under the heading of Kashmir Azad. Sarath Weerakoon, Sri Lanka, states that "AKR Trarkhel via Islamabad xmtx API-8 is heard quite well on 4980, 7265 and 4790". One might also check the International Listening Guide Special, Number 38, Volume 10, and see that on p. 8, under 4790, it also states that the broadcast emanates from Islamabad, Pakistan.

Mystery? ... column editors and country counters should be aware of this and the operation on 4790 should not be listed (or counted) as Azad Kashmir. It just ain't so! I have seen problems like this regarding Radio Afghanistan, Laos, and others. I can also see a lot of problems coming up concerning various relay sites, the Canary Islands, and a whole host of others. Let's clean up our act guys! Or...perhaps we should rent some time on one of the high powered domestic SW stations and have an announcer run down the NASWA Radio Country List and identify as "This is Radio Algeria, This is Radio Sudan, This is Radio Angola..." In this manner we could get it all over with real quick, see what I mean? After all, the ID is everything, who cares where the transmitter is located?

Thanks for writing to the Forum, Steven, and I agree that the authoritative references are all lining up behind Islamabad as the current location for Azad Kashmir Radio on 4790 kHz. If someone held a gun to my head and said "choose the site and I'll shoot you if you're wrong" I think I'd say Pakistan....but I'd have my affairs in order first!

Let's see how the evidence stacks up in the AKR case:

**Authorities:** 1988 *WRTVH* does say "Islamabad (identifying as Trarkhal)," as does the 1986 *WRTVH*. But the 1987 *WRTVH* says this is a 10 KW transmitter in Trarkhal! Why did *WRTVH* change from 1986 to 1987 and back again in 1988? I don't know, but I wish I did! Don Jensen, writing in *Fine Tuning #473*, discusses this issue and says "Trarkel is within AK territory, but, of course, the xmt'r isn't there, but in *Rawalpindi* [emphasis added]." Now Rawalpindi is right next door to Islamabad, so this is only a slight discrepancy, but at this point in our research even the exact location in Pakistan is getting fuzzy. By the way, Don cites the Rawalpindi location based on QSL's received from AKR in 1971 and 1972. Finally, Sarath Weerakoon represents our expert DX'er close to the controversy, and he does quote Islamabad as the site as mentioned by Steve.

**The Station:** As just noted, AKR has issued verie statements in past years mentioning their transmitter site as Rawalpindi. However, recent letters from the station have made no mention of a relay site, even when asked directly whether the transmitter was in Azad Kashmir or Pakistan. Both Chuck Rippel and I received letters which ignored the transmitter site issue, but did contain statements such as "we are radiating our programmes on a high power transmitter." Does "high power" imply Islamabad? It might corroborate with an Islamabad site but it doesn't have to be one. Note that the 4790 kHz broadcast has been listed as 10 KW Trarkhal in 1987 *WRTVH*, and 10 KW Islamabad in 1988 *WRTVH*. Let you think that Azad Kashmir might not have advanced enough technology to support high powered transmitters, the *WRTVH* lists the medium wave transmitter in Muzzaffarabad, Azad Kashmir, as 150 KW on 792 kHz.

The letter I got also contained language indicating that the engineering staff was glad to know their signal was getting so far and requested more reports to let them know how they were being heard. I sent a second letter to the station with a SASE asking the verie signer (M. Jajjad Ali Siddiqui) to clarify the transmitter site issue, but no response has been received after 4 months.

**Physical Evidence:** Unfortunately I can't find much in this category for the Trarkhal vs. Rawalpindi debate. The closeness of the two contested locations rules out sunrise/sunset or long distance direction finding techniques, at least with the accuracy available to me. There is no doubt more physical evidence available but I haven't seen it.

It would be interesting to know what evidence caused the *WRTVH* to change their entry from Trarkhal in 1987 to Islamabad in 1988. They do a superb job but in many cases receive no information directly from a station and must rely on the best available information. Unfortunately they don't have the space to give the source for

each bit of data with the data, so we don't know whether the multiple authorities now quoting Islamabad as the transmitter site have independently authenticated this or may be all quoting the same source, right or wrong. Good and bad information both propagate with amazing speed. A single erroneous determination fed by a normally reliable source to multiple publications can cause confusion that's hard to reverse and often very persistent.

**Conclusion:** What conclusion can we reach? We have several authoritative references which say Islamabad, including a DX'er in Sri Lanka, close to the scene. One highly regarded source (*WRTVH*) disagreed with the others during 1987, and seems to have made a deliberate change that year in its listing. The station at one time reported a site of Rawalpindi on its QSL letters, but has not done so recently as far as I know. Verie letters received early this year for broadcasts heard during late 1987 showed an interest in knowing how they were being received, and said they were using a high powered transmitter. This kind of statement might mean they were using a relay, but it could just as well mean that they installed a new transmitter on site.

Steven is absolutely entitled to his own view on this and the votes at large seem to favor his opinion that the site is Islamabad. However, I hope the above discussion has stimulated some critical thinking on everyone's part about how to go about sleuthing and analyzing the evidence in a question like this, and perhaps make you think about how you form your own opinions. In my own opinion, and it's only an opinion, the evidence here is inconclusive enough that I am at least willing to listen to someone who believes the site might be Trarkhal.

## COUNTRY COUNTING CONFUSION

How should you treat a case like this for country counting purposes? In his note in FT, Don Jensen goes on to say "My personal view is that I concern myself with how I count my own veris, so I can make no argument for or against anyone else's counting practices." He concluded by saying he personally has logged and veried the Muzzaffarabad xmt'r on 3660 kHz, thus "I don't have to wrestle with an admittedly tough issue [whether 4790 counts as Azad Kashmir] raised by Mitch [Sams]."

There are many different approaches that I've seen taken to counting difficult cases like this. Some would just count it and not give it a second thought; others wouldn't dream of counting it since it's clearly not "proved beyond a shadow of a doubt." Some DX'ers take a strict view that the station is the only authority and will accept as a valid QSL anything that comes from the station with full data and site information, even if widely available data disputes it. Finally, most that I've spoken to take a somewhat practical, middle-of-the-road approach, and count something that is supported by the reception and verification, but continue to work at "improving" the quality of the logging and/or QSL by trying to log and verify a less controversial broadcast that can count for the same thing(s).

\* \* \*

*Next month: Interviews with the North American DX Champions...how did they rack up those winning scores?*



Armed with my new ham license, I set out to join the fraternity of amateur radio operators - or so I thought. Living in San Diego I was surrounded by retired Navy and Civil Service workers. The same was true for the local airwaves. Now don't get me wrong, I have nothing against these folks, and still found enjoyment from ham radio. But I never felt like I really fit in. It was then that I made the fatal error that leads so many hams into the world of shortwave listening - I tuned my Drake R4 receiver *outside* the ham bands!

Here was a bounty of fascinating, different, and even mysterious stations who didn't care that I was only fifteen and somewhat (all right, a lot) overweight. What was even better, there was always someone there, even at three a.m.. And to my delight I found that many of them would send all kinds of free goodies in exchange for a simple reception report. I even found sinister pleasure in watching the expression on the face of my mailman as he delivered QSL's from RADIO NORTH VIETNAM and RADIO PEKING. (I could tell his leanings fairly easily, and he thought he knew mine as well).

More and more antennas went up, until once again I ran into rule number one: not everyone shared my fascination with radio. Specifically, my neighbor, whose view of the Pacific Ocean was now accented by the presence of eight inverted VEE's strung from our tree. My mistake, I suppose, was that I put the antennas up while he was watching. But in any case my parents, threatened with the prospect of a nuisance lawsuit by one of the aforementioned retired Navy people, tactfully but firmly asked me to take the "spiderweb" down. This led to my lifelong ambition to find the best low-profile antenna possible. I am still at it, and probably will be the day I die.

All this led to my meeting with Chuck Rippel, and NASWA. Like the new shortwave station analogy I made at the beginning of this column, I like to broadcast what I know (or think I know). And I relish the reception reports my listeners might send in. I encourage everyone to send-in anything that might be of interest to *Technical Topics* readers. Please, if you wish a reply send along an S.A.S.E.. I am the father of three growing children and the owner of a horse. All four compete to see who can eat the most, with the result that my funds are rather limited. It's all I can do to come up with the postage to send this column to the publisher!

#### WHAT CAN I EXPECT FROM THIS NEW STATION?

That's a fair question. Naturally, not everyone shares the same fascination I do about the same things. I hope to bring a wide range of topics to this column, and as many do-it-yourself articles as possible. My topics, I hope, will appeal to both the beginner and expert alike, since I believe all of us fit that entire range depending on the particular subject. Fortunately the most critical element of the SWL station is the antenna, which as you may recall was one of my favorite subjects. But I also know the value of such things as audio processors, filters, pre-amps, and things other than that which got me in trouble with the retired Navy guy in San Diego. So as I said there will be a good mixture of things to interest anyone who wants to go beyond the operating manual.

As I mentioned earlier, I welcome contributions from readers, and will try to use as many of them as I can here. I do ask that if you are submitting something from a source other than yourself that you identify that source so proper credit can be given. I also believe that one picture is worth a thousand words, so please whenever possible send drawings, diagrams, or photos with your contributions. Also, when you write, please make sure the word FRENDX appears in the bottom left corner of the envelope. I am just about to launch an entrepreneurial endeavor, and the word FRENDX will allow my secretary (a.k.a. my wife Ellen) to separate the mail.

73's - Ted Benson

# NASWA Awards Program

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

Greetings and welcome to the July edition of the NASWA Awards Page. The following folks earned NASWA Awards through June 17:

Edward J. CICHOREK, Somerset, NJ: Ecclesiastic DXer

Richard D'ANGELO, Wyomissing, PA: Antarctic DXer, All Voice of America DXer

Gerry L. DEXTER, Lake Geneva, WI: Antarctic DXer, 2 station endorsement

Jerry LUCAS, Colorado Springs, CO: World Wide DXer

Sheryl PASZKIEWICZ, Manitowoc, WI: European Continental DXPert, Soviet Sphere DXer, Antarctic DXer

Donna ROBINSON, Willow Springs, IL: All Continental "QRP" DXer (50 kw), Maple Leaf DXer

Thomas V. ROSS, Lyons, IL: Senior British Commonwealth DXer

Carl O. RADTKE, Santa Ana, CA: Arab Word DXer

Henry WARD, Sherbrooke, PQ: Arab World DXer

John WILKINS, Wheat Ridge, CO: All Voice of America DXer, 18 site endorsement

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

Well, another busy month, with the dual chores for NASWA as well as the annual ANARC Awards work. Did really, honestly, truly, find the on/off switch on the R-2000 and lo and behold actually heard a new country, Radio Africa in Equatorial Guinea. Yeh, I know, it's not that hard but it IS the first new country I've heard in 1988. Mebbe next month we'll go for another tough one, say BBC via Hong Kong.

Have received a couple of notes regarding my comment about meeting several of Dr. DX's friends at the South Station bus terminal. Since neither note was from the Boston area I'm surprised that these folks realized what kind of friends I was referring to. Of course, it might be that South Station might not be the only "unusual" bus terminal in the USA. Obviously, if I had dared to walk across the street to the South Station ANTRACK station I might have run into some of Dr. DX's real friends.

It's July so it's time for the annual ANARC Convention, to be held in Orange County, California this year. Unfortunately, we won't be able to make it but hope that a good time is had by all. If you've not been to one of these things, by all means do so. We are looking forward to possibly attending the Virginia Beach affair in September, maybe we'll see you there. (If DR DX doesn't have my Virginia Tourist Visa invalidated)

Let's see, who am I mad at this month. Oh, that's right, Publisher Bill Oliver said that I can't have 9 pages so I had better not start on the list. That's too bad, cause I was going to tell you about one rather well known person who, for some reason, forgot how to spell Czechoslovakia, either that or he has some inside information on an impending name change.

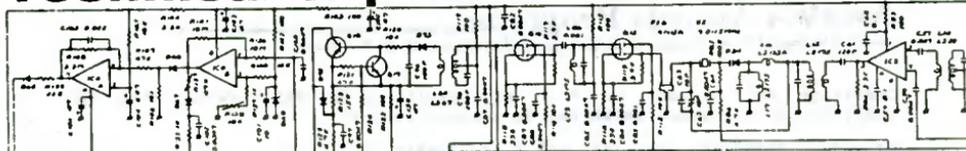
Several folks have asked me how to QSL Radio Pyongyang. Good question. I verified them many years ago, after 15 reports, one every 3 months for nearly 5 years. They were very generous as they not only send a f/d QSL card and pennant but some rather interesting books about the PRK. There is some not quite concrete evidence that mail either to or from them is perhaps being intercepted, not in the United States, which would be a violation of U S law, but in fact in another country. Might I suggest that you try the once every three months approach, using only aerogrammes with no enclosures. No promises, but it might work.

Kampuchea was another interesting QSL for me. Heard them and sent off a report direct to Phnon Phen. After 6 months a follow up was sent to Phnon Phen, along with a copy of the report to the Voice of Viet Nam in Hanoi. Over the next year or so 3 full data QSLs were received, all for the same original reception. If you use the Hanoi route, a report to VOV would also be appropriate.

Till next month



# Technical Topics



Editor: T. J. "Skip" Arey, WB2GHA, P.O. Box 644, Waterford Works, NJ 08089-06

KNOWING WHEN TO SAY GOODBYE  
or  
WHEN THE GOING GETS WEIRD THE WEIRD TURN PRO  
by  
T.J. "SKIP" AREY WB2GHA

This is not how I planned to go out folks. I suppose in the back of my mind I was hoping to crash and burn in the flames of some incredible controversy. Instead it appears I am out with a whimper. I received a letter from the Editorial Board informing me that effective with the July issue someone else would be doing Technical Topics. I suppose I should kick up a fuss at the short notice but the fact is that Ted Benson comes to you with excellent technical credentials and am sure you folks will give him all the support you have afforded Old Uncle Skip over the last three years.

So should end the commentary:  
However!

Since I began my "Spam Radio" series three months ago. I received more mail then I had received over the entire three years of writing Tech Topics. Clearly the message of low budget radio hit a chord with the troops. I wish FRENEX had the space to print all the comments from you folks who are out there in hobby land doing one heck of a job with what some "DXers" might consider substandard equipment. I have always maintained that real folks, spending reasonable sums on this hobby wear its heart and soul. I took a chance when I began to make it clear the contrary to some opinions, you don't need to drop megabucks on an R71 or a NRD 525 to fully enjoy our hobby. I worried that I would get some people's noses out of joint. Maybe I did, I don't know. But your letters assured me that my cause was in fact just. Folks like STEPHEN FOLEY who has heard 135 countries on a DX-160. College student JOHN TOPPLESKI who's getting by just fine with a \$99.00 "Fire Sale" PANISONIC RF-2900 (50 countries so far). These folks represent the "Silent Majority" of the radio hobby. A brace of NRD 525's wired for diversity reception to wave spaced log periodic beams could not equal the rush of the first 25 countries on any radio no matter how low the cost. And then there came the letters from old timers. Folks on fixed incomes, no longer able to drop a months salary on the latest toy. Folks interestingly content to ply the ether with rigs whose dials are sweat marked from twenty or more years of use. Making do with what they've got. Having more fun then any of us can imagine because the radio has been a friend for so many years. In some cases, the last friend they've got.

For one last time...  
GET TO THE POINT, SKIP!!!

The Editorial Board has a lot of fish to fry. They are making every effort to make FRENEX the best club magazine in radioland. They have limits as to space that have placed Old Uncle Skip's epistles on the back burner. The Board is made up of good and talented people who are doing all they can to meet as many needs as possible. They have even suggested some other ways in which your humble former Technical Topics Editor might fit into the big picture.

But then I read your letters!!!

The budget radio perspective has been fallow for far too long. I am energized to research and write in this area. Energized by your kind and supportive letters. For this reason, I took a chance and placed a few phone calls. BOB GROVE and LARRY MINOR of MONITORING TIMES have expressed a willingness to give Old Uncle Skip a chance to beat the budget radio drum in the pages of their magazine. Effective September 1988 you will be able to once again find the information your letters call for in the pages of MONITORING TIMES. I will continue to assist BILL OLIVER with publishing house tasks and will help FRENEX in any other capacity that I am skilled in. At this point I would like to express my deepest thanks to BILL OLIVER not just for being one of the most understanding publishers a gonzo journalist could hope for, but for being one of my dearest friends. And I suppose it is fitting to thank the Editorial Board for "liberating" me of my Tech Topics column now that I have found my niche in radio journalism. Be mindful that the staff of FRENEX is made up of very dedicated volunteers who are more than deserving of your continued support. And finally, at the risk of sounding like a BARTELS and JAMES commercial, thank you dear readers for your support. You have made every publishing deadline a joy and every trip to the word processor an experience.

GOODNIGHT ROBERT A. HEINLEIN WHEREVER YOU ARE!!!

73,

*Skip WOLGHA*

Dear Skip,

Thanks for the many fine columns you've done for FRENEX and lots of luck with the Monitoring Times job.

*Bill*

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FOR SALE: FRENEX, complete collection of offset bulletins, March 1972 to December 1986. UPS included. \$100 Firm. Pre-offset NASWA bulletins (mimeo) 1968 thru Feb. 1972 including May '65 and a rare 1962 "NASA" issue. \$60 including UPS. NASWA DX Hotline/Update mid-month newsletter complete collection in binder from Dec. 1972. \$30. Other bulletins available, many foreign. List for SASE. John C. Herkimer, 3233 East Ave., Caledonia, NY 14423 (716) 538-2582.

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DR. DX DOESN'T GO TO THE 1988 ANARC CONVENTION

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Dr. DX was sure excited about making plans to go to the 1988 ANARC meeting. Then Dr. DX found out that the 1988 ANARC meeting was in California. Now Dr. DX knows for sure that one day pretty soon California is going to break off and float away, and Dr. DX sure doesn't want to be there when it does--if Dr. DX was late getting home from the 1988 ANARC meeting, Mrs. Dr. DX would not be real happy and would have words for Dr. DX. But Dr. DX figures that it may be worth the risk because of all the fun everybody has and because Dr. DX enjoys it when everybody dresses up so that Dr. DX cannot tell who they are. But when Dr. DX looked on his map, Dr. DX found that California was all the way on the other side of the United States. When Dr. DX looked at the AMTRAK schedule, he figured that it would take about a million days to get to California, and if Dr. DX wanted a nifty too-hot-or-too-cold AMTRAK sleeper, it would cost about a million bucks too. All this led Dr. DX to the airport to look at how much it would cost to fly (gulp) to California. Now Dr. DX has never figured out how they get that great big airplane up in the sky and, even worse than that, how they keep the sucker there. The nice man at the airport who smelled like beer told Dr. DX that he would take Dr. DX on an airplane and show him how safe they were. Dr. DX decided that was a jim-dandy idea, so the nice man that smelled like beer took Dr. DX up some steps and there Dr. DX was, standing in an airplane. The nice man that smelled like beer showed Dr. DX a red handle near the little room where the pilot sits that said "IN THE EVENT OF AN EMERGENCY, PULL THIS HANDLE." The nice man that smelled like beer said that nothing could happen to Dr. DX on the airplane because if there was ever an emergency, Dr. DX just had to pull that red handle. Dr. DX was real glad that someone had finally solved that problem, but Dr. DX was not yet ready to fly the friendly skies. Dr. DX thanked the nice man that smelled like beer and went to see his friend who designs airplanes. Dr. DX asked the airplane-man how airplanes fly and the airplane man told Dr. DX that it was simple. When air moved over the airplane wings, it tried to suck the airplane up in the sky, sort of like a sailboat (now Dr. DX had a sailboat once and it sunk, so Dr. DX does not think the airplane man used a very good example for Dr. DX). Dr. DX thought about that and decided that must be why he saw the airplanes tied down at the airport, to keep them from being sucked up in the air. Dr. DX figures that the reason sea level is rising is because of all the unattended airplanes being sucked up and then falling into the Bermuda Triangle. Dr. DX still does not believe that airplanes are really sucked up in the air, but Dr. DX knows for sure that the AMTRAK trains are not. If anything, the AMTRAK trains are sucked into the ground, making them run slower so that they get to the station late where Mrs. Dr. DX is waiting for Dr. DX with her foot patting faster and faster on the ground. So Dr. DX does not know what to do about the California ANARC convention. Mrs. Dr. DX says that Dr. DX should stay at home and tend to business. Dr. DX does not know what that means, but Dr. DX could tell by the fire in Mrs. Dr. DX's eyes that it would not be monkey business. Dr. DX figures that he will just have to miss out on the fun this year and the chance to get the bird from a major international broadcaster like he did last year. Dr. DX will not get the chance to hear the Voice of America either (and Dr. DX will never find out if the Voice of America has had singing lessons since last year). Dr. DX figures he will just stay home and try to figure out how airplanes are sucked up in the air. Dr. DX will think about that and let you know another time.

FROM THE

THE *Minnesota* DX CLUB  
Newsletter

CLUB MAILING ADDRESS:  
5212 Drew Avenue South  
Minneapolis, Minnesota  
55410



PROMOTING WORLD LISTENING!

LAWRENCE A. LUNDBERG  
1913-1988

On March 28th, Larry Lundberg, The Twin Cities Night Owl, passed away at the age of 74. At the same time, the shortwave hobby lost a dedicated shortwave listener and all of us at the Minnesota DX Club lost a great and valued friend.

Larry's fascination with radio dates back to 1923. He was just 10 years of age when he tuned in an AM broadcast station for the first time on a crystal radio. Later in 1932, Larry's interest turned to international shortwave monitoring. During this decade, he became an active contributor to many shortwave publications including the International DX-ers Alliance magazine. In 1938, Larry founded the World Wide Hobby Club, which had a circulation in 80 countries, and established a local-regional club of radio listeners in the Minneapolis and St. Paul area.

During World War II, Larry served in the Coast Artillery Corps, stationed in Hawaii. After the war, Larry left the hobby of shortwave listening. In 1967, the DX bug bit again when Larry received a portable shortwave radio as a Christmas gift from his family. Soon after, he became a monitor and monthly shortwave reporter for the Radio Canada Shortwave Club, followed by in 1973, being one of the founders and the first secretary of the Minnesota DX Club. Larry was also an official monitor for Deutsche Welle, the Voice of Germany in Köln; NHK Radio Japan and Radio Prague in Czechoslovakia. In addition, Larry had frequently reported his loggings to various radio publications along with articles comparing radio listening between the 1930's and today.

In 1981, Larry was a speaker at the Association of North American Radio Clubs (ANARC) convention in Thunder Bay, Canada. In 1985, he was awarded one of the radio hobby's most prestigious honors, ANARC's North American DX-er of the Year Award, recognizing him for his outstanding service in promoting shortwave listening.

A resident of Brooklyn Center since 1957, Larry worked for 33 years at Food Producers of Saint Louis Park. He is survived by his wife Margaret, daughters Marian and Gloria, son-in-law Stephen (married to Gloria) and granddaughter, Jenna.

All of us at the MDXC send our sincere sympathies to the Lundberg family. Larry will be greatly missed! However, the wonderful memories he left us with will live on and on!

- Tom Gavaras -

PRESS RELEASE

Now there is an easy, inexpensive way to share your interest in Shortwave Radio with your friends. A new publication, Introducing International Radio by Kenneth D. MacHarg has been made available by Global Village Press at a price you can afford.

Introducing International Radio is a simplified, illustrated, painless introduction to the exciting world of International shortwave broadcasting. In this 32 page publication are sections on selecting a shortwave radio, types of programming available on the international bands, an overview of stations on the air, an extensive frequency listing, a useable chart describing UTC/CMT, a section on antennas, a glossary of the most common terms, and a guide to other publications. Introducing International Radio also contains photographs of broadcasting equipment and well known personalities. Several program schedules are printed in this guide to give an idea of what can be heard on the air.

If you have ever wanted to share your interest in international shortwave radio with a friend, but found most publications too technical or too costly, then Introducing International Radio is for you.

Author Kenneth D. MacHarg has been listening to shortwave radio for over 25 years. He is the host of the popular Saludos Amigos program heard in English over HCJB. Ken previously wrote Tune In The World, The Listener's Guide to International Shortwave Radio.

Introducing International Radio is available through bookstores and radio supply outlets, or direct from the publisher for \$ 3.95 U.S. plus \$ 1.00 postage.

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NOTICE

Positions are now open at the Voice of America Frequency Division in the following classifications:

1. Two openings for Engineer, Grade GS-11/12/13.
2. One opening for Communications Specialist, Grade GS-11/12.
3. Two openings for Overseas Monitor, Grade FS-4/3.

Anyone interested can apply by sending his resume or U.S. Government Form SF-171 available at the Post Office or other Federal Building to

Voice of America  
Attn: Bill Whitacre  
Room 4617 HHS-N  
330 Independence Avenue  
Washington, DC 20547

Mr. Whitacre can be contacted at (202) 485-1762.

# B O O K R E V I E W

by Gayle Van Horn

LA-DXing  
4th Edition 1987

by Takayuki Inoue Nozaki and Tetsuya Hirahara. 293 pages, 6"x8", paperbound, \$US 18.00 (or 23 IRCs) - airmail, \$12.00 (or 16 IRCs) - seamail, order from: Takayuki Inoue, c/o R. Nuevo Mundo, 18-11 Fujimi-cho, Hachioji-shi, Tokyo 192, Japan

Rarely does a book come along that gives every serious Latin DXer, something to cheer about. Such is the case with the just released, 4th edition of Radio Nuevo Mundo's LA-DXing.

The first most obvious difference, between this and the 1985 3rd edition, is an extra 140 pages!

Latin listeners will delight in this expanded edition. Improved chapter lay out, photo reproduction, and printing all contribute for easier reading.

Chapter I covers a by-frequency listing from 120-16 meter bands of station schedules for Central and South America. For the most part, it is quite current with notations for active/inactive stations.

Looking for an accurate word-for-word station ID? 'LA' has compiled 65 pages of IDs, sign-on and promotional text in Spanish for Central and South America, Mexico and Clandestine stations. A nice touch.

New to this edition, is an in-depth chapter featuring Mexico. Nine stations are profiled with one-half to two pages each covering: history of the station, personnel, technical information, schedules, and QSL policies. Mr. Nozaki has also included studio photos taken during his travels through Mexico.

Full page DX maps are included in the book with city and state divisions noted. Maps included are: Belize, Guatemala, El Salvador, Honduras, Costa Rica, Ecuador, Mexico and a large fold out map of Brazil.

The largest chapter of 'LA' is Columbia. Here is a 72 page gold mine profiling 22 stations. An excellent addition to this 4th issue!

Other featured chapters are a by-country listing of Verification Signers, a peek inside several Paraguayan stations and the seldom featured country, Suriname.

One especially interesting feature is by Christian Zettle. In it, he takes us along on his travels through Central America visiting shortwave stations.

What would any good shortwave book be without a QSL article? Jerry Berg gives us his expertise in Latin QSLing covering tips, enclosures, and follow ups.

Lastly, the authors profile the stations of Radio Nuevo Mundo in Peru, Guatemala, and Japan.

LA-DXing may not be for everyone, but it is for every die-hard Latin DXer. This helpful and informative book is targeted to either the beginner or expert DXer alike. Indeed, it is a welcome addition to my bookshelf!

-end-

## A TRIBUTE TO HAL...ET AL

It was one of those difficult evenings in the tropical bands. The distant storms, conveyed over the miles, left their tell-tale ache in his ears. Try again later, he thought. There was that special station needed and he would not give up easily. Reaching to extinguish the light, the operator paused a moment. Once again, he admired his shining, new beauty before leaving the room.

A true work of art this solid-state wonder, he thought. This essence of fine engineering that eluded him for so long was finally resting at the forefront of his operations. It cost him dearly but what did it matter. It was a world apart from the old Hallicrafters that sat isolated in the farthest corner of the desk.

This was the final insult, thought Hal. Though cold and covered he somehow sensed his owner's thoughts in a way only close comrades could enjoy and have known. Only Hal did not welcome the signal he received. Fast becoming a stranger to his owner, he was fading into obscurity. Like countless others of his breed, he was being forgotten, alas forsaken for a new child of technology. He was suffering his final indignity, replacement by this imported upstart. Relegated to some dusty shelf, he seemed destined to enter a world of useless curios. Yet somewhere there was a faint spark deep within his circuit to which there was no off switch. An almost subliminal memory bank of better days that could not quite fade to black. Both now sat in darkness, united in concept yet divided by time and technology.

(LATER THAT EVENING)

A turn of the doorknob and creak of the floor meant only one thing. Hal's owner was preparing for a late night session. The operator drew back the chair and poured his sleepy body into it. Large hands came to rest on the desk. Then, with a slow certainty, the the newcomer was gently pushed aside and Hal found himself gliding front and center. "You're on tonight, old boy" whispered his operator, half smiling to himself. A sharp click flooded his circuits with the needed energy and Hal gradually came to life in a yellow glow that filled the desk top. Yes, he was fully alive again, doing what he had been built for.

The Golden Days were almost over but not quite, not tonight. All the controls came into play like some fine, old instrument. He was performing, again. And in the yellow glow, his distant relative sat and paid silent homage.

Ed. Cichorek



# Listeners Notebook

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AFGHANISTAN Bakhtar nx agcy, Kabul reported 27/5: plan in 1988 to incr bc-ing hours to 105 per day. Construxion of new radio-TV complex underway, and bc/TV facilities will be expanded in many provs and districts during year; to preserve cultural legacy, develop lang & lit of all nationalities and tribes residing in Afgh (WBI 3/6)

ANGOLA Kwacha UNITA Press nx agcy reported 9/6: Fifty MPLA troops have been killed and a regional bc-ing stn destroyed in UNITA attacks carried out between 2nd & 4th June in Ang provs of Bié and Uige... A group of UNITA commandos penetrated into Kuit-Bié and attacked the regional bc-ing stn, causing considerable damage (WBI 17/6)

ARGENTINA RAE ancd 13/6: Our sked is daily 1730 Eu/Af 15345; Ams 22, 02, 04 on 9690 11710. But past few weeks 9690 not working properly so only using one fq, 11710; same goes for other lang svcs.

La Prensa, Bs As, reported 3/6: Director of LRA-1, R Nacional, Oscar Martínez Zemborain, has been dismissed. Horacio Badaracco, head of Offl BCing Svc, SOR, named Acting Dir (WBI 17/6)

AUSTRALIA RA reported 25/5: ABC ancd plans to shed about 950 staff over next 5 years; savings of 100 mega\$A will be put towards modernisation, pgmme production. ABC Chmn Mr Somerville, says plans to reduce staff by 15% will involve a significant reduxion in number of tech & admn jobs (WBI 3/6)

RA Communicator 5/6 interviewed RA Dir Peter Barnett re resources review published by ABC on org's future: over 5-year period ABC plans prune almost a kiloperson from staff; almost 20% reduxion, saving 100M\$A. Hopeful majority can be lost by attrition. ABC policy remains against corporate funding or advertising; and against idea of RA being peripheral, outside ABC. Board decided neither RA nor orchestras should be divested; went further, making commitment that RA funding will suffice over next threeyear to maintain svcs at current level. No lang svcs will end; no pruning of airhours. Fortunately, RA virtually quarantined from HS cuts since RA one of leanest and most cost-effective units of org. But we are going to have an electronic nxroom, doirg away with support staff like typists. This will involve one-time outlay of 750K\$A. People will not only write the nx but read it, unlike present old-fashioned struxure. Regionalisation is another change, into Pacific and Asian §§. Pacific = PNG, French, English, sharing resources, info, xltm from one lang to another. Also news core team of experts focusing on Pac. Asian Unit: Chinese, Indonesian, Japanese, Thai, Viet, EG (WBI 10/6)

AUSTRIA R Austria Intl, in EG: 0030-01 Am 9875. 01-0130 Sun Am 9875. 0130-02

Sun 9875. 04-0430 Sun/Mon Eu/ME/Am 15410 9875 6155. 0430-05 daily same. 07-07½ Sun Eu/ME/As 17870 15410 11915 6155; 0730-08 daily same. 1130-12 Eu/Au/Am on 17870 15320 11915 6155; 12-1230 Sun Eu/Am 15320 11915 6155. 1305-1330 As 15320. 1630-17 Eu/As 11915 11780 6155. 1730-18 Eu/ME/AF 12010 11825 6155 5945. 21-2130 Sun Eu/AF 9870 6155 5945, 2130-22 daily same.

Esperanto: 0830-09 Sun Eu/ME/As/Au 17870 15410 11915 6155; 1930-20 Sun Eu/ME/AF 12010 11825 6155 5945.

Spanish: 0105-0130 Sun/Mon Am 11780 and 9870=not Sun. 0130-02 Mon-Sat Am 11780 9875. 0305-0330 Sun/Mon Am 11780. 0330-04 Am 11780 9875=not Sun/Mon. 1305-1330 Eu/AF 12010 11915 6155. 2005-2030 Sat/Sun Eu/AF 11825 9870 6155 5945. 2030-21 daily same. 2305-2330 Sat/Sun Am 11780 [sic] 9870, 2330-24 daily 11780 9870.

RAI output totals 188 hours 55 mins per week, of which 116:25 is German, 30: 55 EG, 20:50 FR, 19:45 SP, 1 hour Esperanto (WBI 17/6)

BELGIUM RNMN 2/6 carried anmt from Frans Vossen of BRT at EDXC Antwerp: New Board of Governors appointed at BRT and Dir-Gen put forward proposals for future: we're pleased to see that document says our budget, staff, xmtg facilities totally inadequate compared to other Eu countries and we should be given more means and funds and more langs should be added (WBI 10/6)

BHUTAN They have a new addr and use also an FM fq; per my recording made in March in Sri Lanka, FM fq is 106 MHz; addr is BBS, Post Box Number 101, Thimpu (Roland Schulze, Stuttgart, FR Alemania, 2/6)

BRAZIL VOA Voice mag reported in June/July issue: Sat 9/4, VOA Braz branch in joint venture w/Bandeirantes net in São Paulo, began 2-hour nx & entertainment pgm called "USA: Um Sabado Alegre". VOA-produced, xmtd in PT each Sat 10 amnoon on Band stn 840 kHz, number one AM stn in SP; also on SW 6090 9645 11925. VOA hopes to reach a broader, larger audience in media-rich Brazil. Besides 7+ mins nx hourly, plays mx from Billboard top-40, discusses events in Braz, US, science & health reports, travel in US, ivs US political and entertainment figures. Host is Dárcio Arruda, well-known TV/radio prsonality in SP now a VOA bc-er. "Arruda brings real commercial sound to pgm," says Neils Lindquist, chief of Braz branch, "laidback and yet fastpaced." Particularly popular segment is random phone scan where thrice hourly phonecallers talk live w/Arruda. During première, more than a kilolistner phoned SP stn hoping to participate (WBI 17/6)

BURMA In OzDX 13/4, Gordon Darling writes "the old 5060 kHz channel used by the Burmese Army stn was noted //7185, carrying EM pgming arnd 0100 whilst I was in Kanchanaburi, Thailand." So that again proves that the old Taunggi [sic] xmtr is very much active and being used to xmit BBS pgms. I suppose this helps reject the "image fq" theory for 5060v //5985 w/BBS pgm 1030-1600 obs from Calcutta. Maymo [sic] xmtr vy much a new one, presumed 25/50 kW, whereas Taunggi 1 kW (Supratik Sanatani, Aligarh, India, 21/5)

CAMEROON To inform you abt changes that took place early this year, led to restruxuring of bc sector here. Great surprise the abrupt change in ID of stns following admn & struxutral mods. Resulted from decision to make R&TV bcng more performant, autonomous, productive. This calls for less influence on the sector by the govt. Parliament decided to put R&TV svcs together. Our stns and svcs now ID as "Cameroon Radio Television Corporation, CRTV." Decision also led to our moving HQ and changing addr. So henceforth, only this addr valid for all correspondence concerning listners' rpts: James Achanyi - Fontem, Deputy Chief of Programmes, CRTV (Radio), P O Box 751, Ebolowa, Republic of Cameroon. The former addr has been annulled and mails to it may not receive quick attn because the PO box number closed. Listners wishing to send contribs to CATHCA, to help handicaped children of Cam can also do so thru same addr. Also I've been promoted to Deputy Chief of Pgms Svc, and Asst Pgms Mgr for CRTV. Was longstanding wish of most RC listeners and I hope your club members will be thrilled (via Fr J Eckert)



LE CHEF DE SERVICE DES PROGRAMMES  
L'ADJOINT

*James Achanyi Fontem*

C H I N A (PEOPLE'S REPUBLIC)

CPBS has changed its shortwave transmission schedule since May 9. Monitoring observations between May 9 and 15 show that the services are carried out on the following frequencies.

1st Program: 1900-1633 overall exc 0500-0753 on Tue.  
17605 2231-1225, 15590 2211-1300, 15550 2246-1045, 12120 1900-1633,  
11610 0001-1410, 11330 1900-1633, 10245 2101-2400 1000-1633, 9800  
2116-2400, 9080 1900-2210 1301-1733, 9064 1900-1633, 7935 1900-2400  
1411-1633, 7516 1900-2200 1000-1633, 7504 1900-1633, 7440 1000-1633  
6840 1900-1633, 6750 1900-2400 1000-1633, 6125 1900-2400 1000-1633,  
5915 1900-2115 1000-1633, 5880 1900-2400 1000-1633, 5860 1900-2100,  
5320 1900-2245 1046-1633, 4905 1900-2200, 4460 1900-2230 1226-1633.

2nd Program: 2000-1458 overall exc 0500-0853 on Wed & Fri.  
17700 0131-0945, 15500 2301-0859, 15030 2201-1200, 12200 2000-1458,  
11740 2000-0130 0946-1458, 11630 1000-1140 1230-1458, 11505 2231-  
1040, 11040 2231-1030, 10260 1100-1210, 9775 2130-0100 0930-1040,  
9755 2301-0100, 9400 2000-1458, 9390 2000-2200 1201-1558, 8007  
2000-2300, 7770 2000-1458, 6920 2000-2240, 6890 2000-2230 1031-1458  
5133 2000-2300 0900-1458, 5075 2000-2300 0900-1458, 5030 1200-1458,  
4800 2130-0100 0900-1040 1200-1458, 4250 2000-2230 1041-1458.

Broadcast for Minority Nationalities:

0000-0026 Kazakh 15670 11375 10260, 0330-0356 Korean 9920 9775 8566,  
0400-0426 Mongolian 9920 9775 8566, 0430-0456 Tibetan 17635 15670  
11630, 0500-0526 Uighur 17635 15670 10260, 0530-0556 Kazakh 17635  
15670 10260, 0900-0926 Korean 9920 9775 8566, 0930-0956 Tibetan  
15670 11630 11375, 1000-1026 Uighur 15670 11375 10260, 1030-1056  
Kazakh 15670 11375 10260, 1100-1126 Korean 9775 5420 4190, 1130-1156  
Mongolian 9775 5420 4800 4190, 1200-1226 Tibetan 11630 11375 8566,  
1230-1256 Uighur 11375 10260 8566, 1300-1326 Kazakh 11375 10260 8566,  
1330-1356 Mongolian 11375 10260 8566, 2030-2056 Korean 5420 5030 4190  
2100-2126 Mongolian 5420 5030 4800 4190, 2300-2326 Tibetan 15670  
11630 11375, 2330-2356 Uighur 15670 11375 10260.

Broadcast to Taiwan 1st Program: [not DST] 0055-0609 & 0955-0004  
overall. 15710 0055-0609, 11925 0055-0609 0955-1220, 11100 0055-  
0609 0955-1245 2246-0004, 9455 0055-0609 0955-1320 2301-0004, 9380  
0955-0004, 7620 1221-0004, 6015 1246-2245, 3815 1321-2300.

Broadcast to Taiwan 2nd Program: [not DST] 2055-0104 & 0355-1804  
overall exc 0604-0953 on Wed. 15880 0355-1015, 11000 2216-0104 0355-  
1135, 9170 2231-0104 1016-1804, 6790 2055-2215 1136-1804, 6095  
2231-0104 0355-1315, 5090 2055-2230, 4850 2055-2230 1316-1804.

(Satoru Suga)

Radio Beijing announced in Italian language service on May 10 that the transmission of Italian via SRI would be changed its broadcasting time from 2100-2130 to 2130-2200 (UTC) as from May 14. (Nobuo Hina)

Radio Beijing announced in Japanese language service on May 2 that its morning (local time) transmission would be ceased provisionally as from May 10 (local). Another xmsn (local night) of Jp is now: 0930-1526 on 11515, 7295, 4960\*, 3960\*, 1044kHz, \*:unofficial. The reason of cessation of morning xmsn is not known.

(Hiroyumi Yamaoka, Toru Yamashita, Akira Yamanaka)

Xinhua News Agency, Beijing reported on Apr. 19: CPBS has started the American pop program twice per week since Apr. 17. This is 1 hour program named as "The American Music Hour", produced by Chinamerica in Los Angeles and CPBS. It picks up the American rock, country, blues and jazz.

This program "Meiguo yinyue jiemu" (in Std CH) can be heard at 1040 -1140 on Thu on the 2nd Program frqs. Xinhua reported this program is also broadcast on Sun morning(local), however, not heard.

(Isami Hyuga, Tetsuya Kondo, Mitsuo Yamada)

Yunnan PBS has readjusted its services. On May 13, its "Literary Service (Wenyi Tai)" was noted on 6035, 3910kHz. This new service, announce itself "Yunnan renmin guangbo tiantai Wenyi tai", signs off at 1450. From 1430 to 1450 "Program for compatriots out of Yunnan border" is broadcast. In this program, announced as "Yunnan guangbo diantai" i.e. Yunnan BS. A frq of 6035kHz had belonged in Service for Vietnam.

Its 1st Program (7210, 4760kHz etc) now signs on at 2120. Its 2nd Program (5960kHz etc) signs on at 2130. (Satoru Suga, Akira Yamanaka)

Xinjiang PBS has changed some frqs in response to summer SW propagation. First noted on May 10. The SW frqs are monitored as follows. Std CH service: 7385, 6100, 4500kHz. Uighur service: 7195, 5800, 4735kHz. Kazakh service: 5440, 4970, 4330kHz. Mongolian service (including Kirghiz pgm): 5060, 4980, 4220kHz. (Satoru Suga, Isami Hyuga)

Monitorings for stns being to Taiwan reveals that CPBS bc to Taiwan and V of the Strait are not in the DST clock. However V of Jinling and V of Pujiang do adopt DST. Most regional stns in China are in the DST schedule, except Guangxi PBS and Xizang PBS (Satoru Suga, Akira Yamanaka)

(ALL this page: East Asian DX News of Asian Broadcasting Institute, June 16-17, 1988, compiled and translated by Tetsuya Kondo, Japan)

CHINA R Beijing in EG, excluding relays: 00 Am 15455. 03 Am 15455 15290 15180 8425. 04 15290 15180 8425. 0830 Au 15440 11755 11455 9700 6550. 0930 same. 11 Am 15455. 12 Am 15455; As 15280 11755 11600 1341. 13 As/Am 15280 11755 11600 1341. 14 As 15165 11600 4200. 15 As same + 8400 [harmonic?]. 16 Af 11600 9570 8260 5250 4130. 17 same. 1930 ME/Af 11515 9440 6955. 20 Eu 11500 9820 8260 5250 4130. 2030 11515 9440 6955 ME/Af. 21 Eu same as 20.

Spanish: 00 Am 15600 15180 15120 15100 12450 11695 11455 9945 9570 9365 5250 01 Am 17650 15290 15235 15180 15120 15100 12450 11445 9945 9570 9365 8425. 02 Am same except 11650 not 11445. 11 Am 11870 5250 4130. 21 Eu 6933 6590. 22 Eu 9690 7360 6933. 23 Am 15600 15180 15120 15100 11980 11695 11445 9945 9570 9365 8660 5250.

Esperanto: 11-1130 As 9480 6955. 13-1330 As 15165 11650. 20-2030 Eu 9965 9365 7470 6290. 2230-23 Am 11515 9630.

Mali relays complete as given: 00 EG Am 11715 9770. 01 Cantonese Am same. 02 Std CH same. 03 EG Am same. 04 Std CH same. 05 Am 9770 [not 11715]. [BBCM missed 12NAm 17715 15110! also for 11 Chinese]. 16 EG Af 15130 11715. 17-1730 SH Af 15130 11790. 1730-18 Hausa Af same. 18-1830 BG Eu 11790 9745. 1830-19 PT same. 19-1930 CZ same. 1930-2030 FR same. 2030-2130 ME/Af EG same. 2130-2230 AR ME same. 2230-23 Std CH As[sic] same. 23-24 SP Am 11790 9665.

Spain relay: 05-06 EG Am 9690.

Switzerland relay: 20-2030 Std CH 6165, GM 3985. 2030-21 FR 3985, SC 6165. 21-2130 EG 3985, SP 6165. 2130-22 IT 3985, PT 6165. (some of these 1h later after DST)

Lhasa: 15-16 Hindi 9490 5935 4035; 16-17 HD 9490 5935 [4035 again also but not specified as Lhasa tho it probably is].

R Beijing weekly output totals 941:30. Leading langs are: EG 122:30, RS 91, Std CH 63, Cantonese & SP 52:30 each, JP 45:30. (WBI 10/6)

CPBS reported 13/6: From 4/7, CPBS-1 will update nx every hour on the hour! Making them more timely, also more use of press agcy material. First Pgm will be mainly nx; highly perishable items bc any time. Daily nxpgms will increase from 23 to 28 daily. FM stereo pgm will incr from 7½ to 18 hpd, variety enlarged. In addn to Peking, will be microwaved to major cities for local relay. Pgm's to Taiwan adjusted appropriately.

Xinhua reported 14/6: CPBS just reworked sked to provide late-breaking nx at top of each hour. Dir-Gen yang Zhengquan says daily nx bcs incr from 22 to 28, while Shi Tanggui, Yang's asst said intl nx'll incr by 30% and incl 3x more spl pgms on intl issues. Wang Rufeng, head of Taiwan svc, says more nx daily, more commentaries on mainland policies & regs, better svc to Taiwanese planning a trip of investment on mainland and promote exch betw mainland & Taiwan (WBI 17/6)

COLOMBIA LV del Rio Arauca, on new 4895.0, tnx to info from Krueger, Jensen, La zarus, Moore via NU; Zella and Monferini in Play-DX, I was able to confirm new SW fq, first hrd 14/5 \*1001-1035 P-VP w/Malaysia QRM. After Col NA, ID as "En Arauca, LV del Rio Arauca, 1110 kHz, HJGP, emisora musical de RCN, la radio de Colombia." Then nx pgm, llanera, campesina, TCs. Per 31/12/86 report of Min-Com, stn is authorized HJGP on 1110 5 kW; HJGR 4895 3 kW. Licensee is Jorge A Mateus Gayle; studios at Calle 16 con Carreras 20 y 21, Arauca (Takayuki Inoue No zaki, Tokio, Japon, Relámpago DX)

LV del Cinaruco, Arauca, 4865.1, reactivated on SW 30/5 0920-0935, llanera mx and fqt TCs (Inoue, ibid.)

COSTA RICA RNMN 2/6 ran anmt by Ambrosio Wang An Po of REE at EDXC: Concerning our xmtr in CR, things going slow. Suppose next year or 1990 we can start test-ing xmtrs, 1992 = fifth centennial of discovery of Am, we can use our xmtrs in CR (WBI 10/6)

Monitoring Apr-Jun: Since 1200 13/6, R Impacto, San José obs on unancd SW fq 5030 //6150v. Last hrd on 5030 9/4 (WBI 17/6) DXLD reporters also find it on 10060, 15090; and someone got a pennant showing 5030 (gh)

CUBA RHC in SP to Am: \*2200 on 15340 11930 11875 11795 11760 11725 6060. 23 change to 11930 11875 11795 11760 11725 6060. 0140 on 11875 11795 6060. 02 add 6035. 03 drop 6035; through 0600\* \*0900 on 6090; 1100 on 15340 11950 11875 11760 11725 9550; 1600 change to 15340 11760 11725 9550. 1645 drop 9550. 18 drop 11760 so only on 15340 11725 to 2040\*. Besides nx on the hour, half hour and other times, The Week in Cuba is on Mon at 1305-1328, 1830-1853. SP to Eu/ME/Af 0630-0730 & 0930-1040 9730; 18-20 15295 15230 15155 11950 11775.

RHC in EG: 00-02 Eu/Am 9655. 02-04 Eu/Au/Am 9770 9655 6140. 04-06 Eu/Au/Am 9770 9655 6140=to 0450 6035 5965. 06-08 Am 9525. 17-18 Eu/ME/Af 17710. 2040-2140 Am 15340 11725. 22-23 Eu/ME/Af 9770. Some xmsns to Eu/ME/Af are relayed by xmtrs in USSR (WBI 17/6)

DOMINICAN REPUBLIC Monitoring 16-22 May: Since 16/5, pgms from R Mil net hrd on 11700 insted of R Clarin. Pgms provided by R Máximo Gómez of the Voz del CID net also have been missing from 11700 (WBI 27/5)

ECUADOR 4920.4, R Quito, 5/5 1103-1125: nx sponsored by Banco de Pichincha, ID as stn of Cadena Ecuadoradio; 1125 full ID as R Quito, LV de la Capital 760 & 4920 (Takayuki Inoue Nozaki, Tokyo, Japan, Relámpago DX)

ETHIOPIA Monitoring 15/6: Per press notice from Eth Embassy in London, ES of VOE started pgms for Eu, test xmsns of half-hour EG started Sun 29/5; EEU at 18-1830, WEU 1830-19 or 5:30-6 local time (all times as stated). Both on 9595 Mon-Thu, 7200 Fri-Sun (WBI 17/6) Weird sked. One way to fill time formerly used by Halgan? (gh)

GERMANY WEST RNMN 2/6 reported from EDXC Antwerp: During next week, DW, VOG will reactivate relay in Trincomalee, Sri Lanka. While it's been off air due to conflict there, DW has been hiring airtime from a Catholic stn in Philippines. Wolfgang Plines, head of DW audience research updates us:

Few months ago arranged w/R Veritas to hire some 2h a day. Used it for CH svc to be increased; initial reaxion tremendous. Got some 6 kiloletters w/in first 2-3 weeks, abt 10x as much as normally per year from China. Now have arrangement w/Veritas to have 7h of airtime as of 1/7 for not only CH but JP, GM, prob IN. Only trouble is strike at RV for two weeks, off air and don't know when settled; but until yearend at least we have 7h of airtime provided Sri Lanka is not fully on air. In that case we will drop Veritas and keep SL only (WBI 10/6)

DW Hallo Friends in EG, 3rd 1988 issue reported: DW plans improve EG svc; from Sept, three EG lang pgms for Af, As, NAm will be joined together to form new common EG svc. Aims at greater efficiency, better nx coverage; also improvements in sked, esp for Af. Aim of joint EG svc not to bc same pgms to listeners in 3 targets; diffs in regional intrest, info needs will continue reflected in pgm content. Plans to re-activate neto' correspondents & stringers arnd world and intensify direct EG-lang cov of trends and developments in Germany. One advantage of common EG svc: pooling of experienced producers & editors. As will hear more abt Af; Af more abt As; DW can act as bridge betw the two develop-in continents. [compare this with Australia's opposite reorganisation! -gh]

In 1987, Listners' Mail dept of DW rcvd almost 1000 ltrs & pcs from worldwide daily--335,553 items of mail, impressive figure even tho 55,000 less than the 1986 record. In that year Kiswahili from Af increased explosively, but in 1987 dropped again. Nevertheless, we rcvd almost 100,000 items from Af vs 1986 157,000.

As listners wrote 96,000, that is 11,000 more than in 1986. Indo listners sent in 8K more ltrs & pcs than preceding 12month. SAm also increased w/27,500 more than in 1986. ME abt 25 kiloitems both years. Eu/NAm also constant at 76K and 13K respectively (WBI 17/6)

GUAM AWR-Asia J88 sked thru 25/9: 9465 21-22 EG to Indonesia! 12-13 Mandarin exc weekends Cantonese, Shanghainese. 13-14 Mandarin. 11700 03-05 Mandarin, 05-09 Mandarin weekends, 14-15 Burmese, 15-16 to India: Su/We/Sa Tamil, Mo/Th in Malayalam, Tu/Fr Marathi; 16-17 Su/Tu/Th/Sa Hindi, M/W/F Telugu. On 11750: 22-02 Mandarin. 11810 15-16 EG to India. 11830 11-12 Indo. 11980 09-13 Mandarin, 13-14 Korean, 14-15 Japanese. 15125 22-23 Phil Sa/Tu/Fr Tagalog, Su/Th Ilonggo, Mo/We Cebuano; 23-24 Thai; 00-01 EG to Indochina; 01-02 Burmese. 15225 20-21 Korean, 21-22 JP. 17855 07-10 weekends Mandarin, 10-11 weekends Cantonese, Shanghainese. 17865 02-03 EG to China; 03-04 Can/Shan Sat/Sun, 04-07 Mandarin Sat/Sun. Listener Mailbox pgm in EG Sat 21 9465, 02 17865, 15 11810 (via M Field)

GUIANA FRENCH Last Minute Info

HUNGARY R Budapest's reduced sked shows no bcs at all between 0200 and 1530 exc for some DX and other pgms on weekends. EG: 0030-01 Am 15160 11910 9835 9585 9520 6110. 01-0130 Sat same [what about Wed?]. 0130-0145 Tue/Wed/Fri/Sat DX pgm on same. 0945-10 Sun Eu DX 15220 15160 11910 9835 9585 7220; 1030-1045 Sat same. 1515-1530 Mon/Thu DX Eu 15220 15160 11910 9835 9585 6110. 1830-19 Eu 15160 11910 9835 9585 7220 6110. 20-2030 Eu same. [missed 2130-22 Tue & Fri] 2330-24

Mon-Sat Am 15160 11910 9835 9585 9520 6110. Spanish DX pgm to Am is 0145-02 same days as EG at 0130 on same fqs (WBI 10/6)

INDIA AIR GOS in EG until 4/9: E&SEAs 00-0115 11745 15110; 2245-0115 6055 7215 9535. NEAs 2245-0115 9910 11715. NEAs 10-11 11920 15115 17387; Au/NZ 11860 & 15335. SEAs 1330-15 9545 11810 15335. UK/WEU 1845-2230 7412 11620; 20-2230 9910. EAF 18-20 11935 15360. W&NWAF 1945-2045 9755 11860. Au/NZ 2045-2230 9910 11715.

Times of India reported 17/5 that MInfo&BC Mr H K L Bhagat said at present 94 AIR stns are spread over country. On completion of 7th plan schemes the number will go up to 205. Similarly there are 173 xmtrs which will become 305, a quantum jump being achieved in shortest possible time in any radio net. There will be 235% incr in xmsn strength.

AIR National Channel via 1000 kW xmtrs in Nagpur inaugurated by PM 18/5, sked 1225-2000 on 1566 kHz. In first phase, supposed to cover 54% of population spread over 6 states. F.P.I. incl use of 630 daytime, addn of 300 kW xmtr at Vadodara, 100 kW at Bangalore. Aim of pgming is to "give more choice to the listeners" and consist of nx, mx, plays in EG, HD, UD. QRMS VOA Ban Prachi, Thailand. [1575 kHz]

Times of India, 23/5 reported from London 22/ 5: Sikh extremists have taken to Pakistan eqp from Britain for setting up pirate radio stns on Indo Pak border. Eqp set up at least 3 pirate radio stns was taken to Pak as accompanied baggage by extremists who freqly visited Pak during past 3 months. Ea stn'd have an estimated range of 200 miles. Indian ofcls here broached subject w/Brit ofcls and have rcvd std reply that purchase or export of such eqp was not illegal and so could not be stopped. Authorities in Punjab have been alerted. They however would not be in position to do anything till such time that these radio stns go on the air. Indian ofcls likely to approach Pak ofcls to ensure that bcng facilities to preach secession and promote further violence in Punjab are not given to extremist Sikhs. Two yrs ago, Sikh extremists tried to intrest some pirate stns in & around Britain to bc extremist propaganda against Indian govt. One such pgm was bc by a stn aboard a ship off Brit coast. The Brit Home Office later cracked down on pirate stn and several such companies, incl one which had been contracted by extremist Sikhs packed up. Extremists had also contracted a radio stn in Luxembourg two years ago to bc pgms titled "V of Khalistan". Under pressure from British and French govt which had considerable influence on this stn, the bc was discontinued after first pgm. Since then the extremists have been trying to set up pirate radio facilities on the IndoPak border. Before Indian security personnel flushed out extremists from Golden Temple last week extremists had planned a radio bc from the precincts of the Golden Temple (Supratik Sanatani, Aligarh)

PTI nx agcy reported 25/5 from Delhi: Info & BCing Minister Harkishan Lal Bhagat 25/5 rejected state govts' demand for handing over 2nd channel of state [federal]-owned TV net Doordarshan, but assured them tht fedl govt'd fully involve the states in pgmme produxon. Bhagat said time not yet ripe for handing over Doordarshan and AIR to state govts (WBI 3/6)

PTI reported 6/6 from Bangalore: AIR plans to introduce round-the-clock bcng and also incr viewing time on natl TV from next year, says Indian Union Depy Minister for Info & BCing Krishna Kumar. Told press conf in this capital of Karnataka that 24h bc scheme'd cost 800 megarupees per year. DDS to raise airtime from 9 to 17h at a cost of arnd 1.2 gigarupees annually. Six 500 kW radio xmtrs'd be set up at Doddaballapur near here at cost of 470 megarupees. This'd be one of biggest external xmtr systems in the country (WBI 17/6)

The DX Listening Digest Issue 20 contains a detailed monitored sked by fq of AIR DS & ES showing xmtr sites and lang usage; sample \$2 in NAM, \$3 elsewhere from gh. Computer printout in tabular format, covering 5 pages. Order one today!

AIR reported 18/5: Natl channel of AIR now on air. Today's xmsn began w/in-aug msg by PM, then specially composed mx; on 1566 kHz, 1230-2000 UTC. Besides nx, Spotlight and other nx pgms, daily fare incl both Indian & Western mx, in-depth reports, financial reviews, Urdu pgms; features and plays. 1000 kW xmtr at Nagpur, pgms beamed from Delhi via satl. TASS added 19/5 from New Delhi: hrd by hundreds of megalistners in Haryana, Uttar Pradesh, Rajasthan, Tamil Nadu, Orissa, Madhya Pradesh; covering 55% of India. Satl feed by Insat-1B, thence beamed to 215 districts of the republic. Also plan build 200+ FM relays and powerful radio stns in Bangalore, Vadodara (WBI 27/5)

IRAQ BSRI, R Baghdad ES complete; during wintr some pgms one hour later. Fqs subject to constant variation. Believed addl bcs in Azeri, Kurdish, Persian,

Turkish, but not confirmed currently. 00-02 EG As/Am 11810 11775. 08-1030 Persian ME 9545 7180. 1030-1130 Azeri same. 1130-1330 Persian same. 12-13 Urdu As 11790-unconfirmed. 1330-1430 Hebrew ME 1377. 1430-1530 AR ME R Baghdad's V of Palestine pgm 1377. 15-16 RS Eu 11795. 1530-1830 AR ME PLO V of Palestine pgm 9890 1377. 16-18 SP Eu 11705. 1630-1930 Surani-Kurdish ME 6100. 18-19 FR Eu 15230 9770, 1830-20 AR ME V of the Natl Alliance for the Liberation of Syria on MW 1035 1116. 19-20 GM Eu 15230 9770. 20-21 HB ME 1377. 20-22 EG Eu 15230 & 9770. 21-22 SP Am 9740 9575. Total output 189 hpw (WBI 10/6)

ISRAEL IDF Radio reported 20/5: VOA stn in Arava, one of the largest projects in Isr, has been launched. Cornerstone-laying ceremony took place in Knesset bldg 19/5 [is this std Israeli practise? I tho cornerstone had to be lain upon the axual construxion site!]. Comms Minister Gad Ya'agobi said about 170M\$ of project'd be spent in Israel. Ya'agobi says issue of US propaganda bcs unfavorably influencing future rels w/USSR is marginal. Will be one of VOA's largest; also used by RFE & RL (WBI 27/5)

IDF Radio reported 5/6: In last few weeks bcs picked up from what sounds like new Hasidic stn, relig & Hasidic pgms 19-23 on 107.8-108.0 FM in Kefar Habad, Rishon le Zion, Nes Ziyvona. Isr TV reported 6/6: Comms Ministry personnel 6/6 raided pirate radio stn in Kefar Habad, called "V of Information" bc relig pgms, sermons by the Levaticher Rabbi in Yiddish. Correspondent Roni Savir says bcs made from private home. Tuesdays were devoted to women; Sat nites to entire community. Comms Ministry prsonnel confiscated xmtr and so far nobody has been detained (WBI 10/6)

#### JAPAN Last Minute Info

LEBANON AFP reported 18/5: 92 FM is a newly created radio stn calling itself V of the Suburbs; run by pro-Iranian Hezbollah mvmt, bcs 24h "war" bulletins abt pitched battles its fighters are waging against pro-Syrian Amal mvmt for control of Beirut's Shi'ite southern suburbs. Before 6/5, VOS used to bc Moslem relig pgms but when fighting erupted, Hezbollah recycled it to report developments on the ground and give counsel to residents of 'burbs. Mily marches are a common feature of stn but poem readings also abound w/speakers lauding the "martyrs" who have fallen during the bitter clashes. (BBCMS Ed note: VOS so far unobs)(WBI 27/5)

Lebanese Forces Radio (Arabic: Idha'at al-Quwat al-Lubnaniyah) first hrd w/tests 16/2/86. Supports former Leb Forces Exec Committee Chmn Elias Hubayqah and is probly located in Biqa area of Leb. During summer time in Leb, all pgms one hour earlier than: 06-18 on 830; incl nx on most half-hours; political commentary 14-1410, repeated 10-1010; pgm pw for next day at 1745-1755 (WBI 17/6)

NETHERLANDS RNMN reported 9/6: Field work carried out in Sept/Oct 87, Feb/Mar 88 in East Asia. Focused on ways to improve RN reception in Jpn, China, Indo, Korea, Phil. Co-author Jim Vastenhoude explains: we are talking about SW relay stn. Survey set up to check on reception condx in area. We felt due to numerous new xmtrs in area--Saipan, Taiwan, Guam etc, we were losing foot in EAs, between Singapore and Seoul. We've calculated on propagation formulæ what possible areas could be best for stn. We've visited Sri Lanka, Thailand, Sing, Brunei, Philippines. Unfortunately SL not suitable because drain of enrgs into ME which means stn cannot properly operate w/out local enrgs. Otherwise it'd be a nice position. Singapore has limit on ant tower height. [Presenter:] That leaves Brunei, Phil, Thailand as poss sites. But there is diff betw this fact-finding study and final go-ahead to commence construxion. As always, money is the problem that still has to be discussed w/Dutch Ministry of Culture (WBI 17/6)

TRANS WORLD RADIO, BONAIRE, NETH. ANTILLES, CARIBBEAN. 25 APRIL 1988  
HIGH FREQUENCY TRANSMITTING SCHEDULE FOR J, S & D 88

Final J88 01 MAY 88 - 04 SEP 88; Tentative S88 04 SEP 88 - 06 NOV 88

FREQ. kHz	XB	TIME-HORA UTC/GMT	TIME-HORA BONAIRE UTC/GMT	DAY-DIA	PWR kW	AZI DEG	ZONES-ZONA (ITU)	TARGET ALVO	LANGUAGE IDIOMA
6145	49	0655-0930	0255-0530	Daily	50	170	12, 13, 15	Brasil	Portuguese
6180	49	0100-0200	2100-2200	Daily	250	327	11	Carib	Spanish
9535	31	0300-0530	2300-0130	Sun, Mon	50	327	2S, 3S, 4S, 6-9	N. Am.	English
9535	31	0300-0430	2300-0030	Tue-Sat	50	327	2S, 3S, 4S, 6-9	N. Am.	English
9535	31	0430-0530	0030-0130	Tue-Sat	50	285	10, 11	C. Am.	Spanish
9535	31	0955-1030	0555-0630	Daily	250	160	14N, 15	S. Am.	German
9535	31	1030-1105	0630-0705	Daily	250	148	12SE, 13S, 15	Brasil	Portuguese
9655	31	0942-1100	0542-0700	Daily	50	176	12, 14, 16	S. Am.	Spanish

11815	25	1110-1257	0710-0857	Mon-Fri	50	327	4S,	7-9	N. Am.	English
11815	25	1110-1332	0710-0932	Sun	50	327	4S,	7-9	N. Am.	English
11815	25	1110-1405	0710-1005	Sat	50	327	4S,	7-9	N. Am.	English
* Effective 11 JUN s/cff 1400 UTC / 1000 AST										
15345+19	1110-1257	0710-0857	Mon-Fri	80	336	4S,	7-9	N. Am.	English	
15345+19	1110-1332	0710-0932	Sun	80	336	4S,	7-9	N. Am.	English	
15345+19	1110-1400	0710-1000	Sat	80	336	4S,	7-9	N. Am.	English	
+Effective 5 JUN (Simocast with 11815 kHz.)										
15355	19	2325-2400	1925-2000	Daily	250	160	14, 15	S. Am.	German	
15355	19	0000-0030	2000-2030	Daily	250	160	12SE, 13S, 15	Brasil	Portuguese	
15355	19	0030-0045	2030-2045	Tue-Sun	250	160	12S, 14, 16	S. Am.	Spanish	
15385	19	2155-0030	1755-2030	Daily	50	176	12NE, 13N	Brasil	Portuguese	
15385	19	0030-0218	2030-2218	Daily	50	176	12W, 14, 16	S. Am.	Spanish	

(via Richard Lemke, St Albert, Alberta, Canada)

NICARAGUA R Católica, Managua reported 16/5: Lt Lisette Torres of Interior Ministry's Media Directorate met nx pgm dirs last wknd. She stressed that media law will be strictly enforced; sanctions for violations range from suspension of a nx pgm for one hour, 48h, or [in?]definitely. Asked if this was return to self-censorship, Lt Torres replied: no, problem is that lately there's been disrespect for the country's authorities. In an exclusive statement for the Iglesias nx pgm, Lt Torres commented on the new measures affecting pgms from today onwards: We wanted to clarify and inform media dirs that we began reviewing the nx pgms, and after thoro analysis--we are not referring to any specific source--it was concluded that the provisional media law was being constantly violated, and that those violations should be stopped. However, before taking any measures, we decided to warn media that we were going to begin enforcing the law, as we must admit that it was not being enforced...

AFP reported 21/5: Bismarck Carballo, Dir of R Católica, has expressed disagreement w/Interior Min's decision to ban the radio's nx pgms for four days "for not verifyin mily info before bcng it". Measure was taken 20/5 after stn bc statements by rebel mily chief Encarnación Valdivia (Commander Tigrillo) referring to clashes between rebels and Sandinist troops. Media Directorate concluded the report violated law because it was not confirmed w/govt sources. Carballo maintains there was no violation in this case cause stn only aired the position of those negotiating a permanent cease-fire agmt w/Nic govt. Carballo said he will not appeal ruling to Media Directorate cause fate of such appeals "hinges on political factors, not the law..." (WBI 27/5)

LV de Nic reported 1/6: At 2100 gmt today, Media Directorate notified R Católica Dir Alberto [sic] Carballo that 20 bcs of the Iglesia nx pgm, over 10 days--because it is carried in morn and at noon--have been suspended until 10/6 inclusive. This morn Iglesia pgm had bc an iv directly from Miami by Rafael Mojica Obregón, the counter-revolution's correspondent residing in Miami. The General Media Directorate believes that Article 1, Clause C and Article 3, Clause 4 of the General Media Law were broken...

LV de Nic reported 4/6: R Corporación's Diez en Punto nxcast was suspended 2/6 on charges of bcng false reports and thus violating the General Provisional Comms Media law. The cast reported that Sandinists had admitted to murdering Jorge Salazar and Moisés Mondragón, the later after he had accepted amnesty. Stn violatd Art. 1, Clause C of law, which refers to nx media's duty to provide truthful reports w/in coherent context, to act as a proper reflexion of the various social groups and to support the community's common objectives. Also violated was Art. 2, Clause A, that criticisms of or critical commentaries on public offices, as well as all info on such offices, should aim to achieve constructive ends based on proven facts presented in an objective manner and after having informed the persons involved. Interior Ministry's Comms Media Directorate, using the powers granted by Article 44 of the GPCML, has decided to suspend the next 8 bcs of Diez en Punto, beginning the day this resolution is published (WBI 10/6)

NIGER LV du Sahel reported 17/5: Is first time in history our national radio has bc a major nx bulletin live from the interior. Mr Adamou Mamane, stn dir explains why: technical capacities have increased trnx to xmnsn eqp from FRGermany. We've acquired a complete studio w/FM and SW xmtr. Some months ago, during visit of the head of state to Agadez Region, we bc live iv from capital of that region, but inserted into 1200 nx from Niamey. This time we go to Zinder for a noon nx bulletin produced and bc live from Zinder. We chose Zinder region because its regional stn is first of the regional stns. Others also have capacity to make local bcs--Dosso, Zinder, Maradi all have FM, but range not great, radius perhaps 40 km. Once political will to decentralise manifests itself enabling all the regional stns to make such bcs, it'd only require installation of eqp and ordering stns to xmit locally, at least for noon nx, public anmts, after which stn can be desynchronised for local pgming (WBI 27/5)

PAKISTAN J88 regional and home svcs on SW for R Pakistan: Rawalpindi: 10 kW 0045-0403 3955, 04-05 Fri 3955, 06-0620 Fri 6130, 10-11 Fri 6130, 06-11 6130, 1115-1445 6220, 1500-1803 3955.

Quetta 10 kW: 0045-0403 4880, 0045-0345 Fri 4880, 04-0820 Fri 7170, 10-1045 Fri 7170, 06-1145 7170, 12-16 4880, 1745-1803 4880.

Peshawar 10 kW: 10-1205 6070, 14-15 4950. Karachi 10 kW: 04-0545 5905, 14-17 5905. Balti Svc 100 kW API3 03-04 6065. Sheena svc 100 kW API2 0430-0530 7290; API4 100 kW 0945-12 7385.

HS from Islamabad: API2 100 KW 0045-0403 5090, 06-1145 7290; API1 100 KW 10-1205 6090; API2 100 KW 12-1337 6130, 14-1803 3980.

Link svc from Is'bad: API7 10 kW: 0230-0245 7290. 0715-0815 11570. 1015-11 11570. 1115-1215 11570. 16-1630 7290. 1645-1745 7290.

R Pak ES for J88 continues use of 22mb: 13675 0430-0645, 1315-1545 WS for Gulf/ME; 13665 1645-1745 TK; other unusual fqs: 15090 1645-1745 TK; 9400 1645-1900 WS UK; 11635 1915-2015 FR, 1645-1745 TK; 11615 1315-1545 and 0430-0645 WS; 9455 17-1745 Irani (Bob Padula, May ADXN)

PANAMA Monitoring 20-26 May: R Constitucional, cland radio which'd bc msg by former Pres Eric Delvalle on 9/5, traced 20/5 1730 on 89.1 MHz. S/on for 15 min bc w/this amnt in SP: "This is R Constitucional xmtg on FM from Panama City, the city of 700,000 Noriega hostages, all of them ready to resist the narco-militarist repression. R Constitucional gets the word to you in time. Listen to it everyday on FM at 0730, 1230, 1900 (12, 1730, 24 gmt). Democracy, justice and freedom now have a radio stn. They won't be able to shut down R Constitucional. Panamanians: now you will be able to learn the whole truth being covered up by Noriega's narcomilitarism. The narcomilitary and their quasi-civilian leeches have taken over our country. Our mission is to rid Panama of this human ballast. Do not doubt it, they're going to have to get out."

At s/off, R Constitucional ancs: "This is R Constitucional xmtg on FM for the Pan people at 0730, 1230 and 19. Pans: spread the word! We are here to tell you the truth about events in our country. We are here to say: we've had enough abuse; let's uphold the rights of Pans! Long live democracy! Don't forget to tune into our next xmsn". (WBI 3/6)

TASS reported 3/6: Natl Defence Forces of Pan have accused US of organising provocative bcs by so-called R Constitución [sic] which ops from US controlled area of Pan Canal Zone. Communiqué of Natl Defence Forces points out that cland radio stn operating "under direxion of US" and controlled by CIA sets itself as an object further to destabilise situation in Pan and bcs calumnies about Pan leadership.

R Moscow NAM svc reported 3/6: Pan Def Forces Command says US, thru Embassy's radio info svc, has been supporting anti-govt radio stn. RM's Vladislav Kozya-kov comments: US Embassy hastened to refute this report. Said Foreign BC Info Svc was part of Embassy, whose funxion was to monitor for public info media and that it was in no way connected w/R Constitución [sic]. Meanwhile, this cland radio stn has been on air with 10-15 min bcs fourtimes daily on FM. Reuters has quoted US sources that stn funded in part by US CIA. Earlier, Wall Street Journal reported about Pres directive to conduct propaganda campaign against Pan-amá and allocate money for purpose. So isn't a cland stn a practical implementation of that directive?

Anyway, R Constitution's voice has much in common w/other radio stns set up under CIA auspices, both during cold war and in past few years. Stn operating in Pan has been coming up w/calls obviously aimed at destabilising situation. Similar calls addressed to Cubans by CIA stn that bc from Swan island in Carib in 60s, just like by R Marti today. Similar calls have been addressed since early 1950s to Poles, Hungarians, Slovakoczechs, other EEU peoples by Am radio stn Liberty and Free Europe. And newly organised stns R Free Kabul and Free Afghanistan have been literally begging Afghans to overthrow their [sic] govt. Thus the Pans not alone in being compelled to hear calls of this kind over radio. CIA voice is now easily recognised by people on all continents (WBI 10/6)

RPC-TV reported 6/6: Legislative Assembly Pres, Alberto Alemán Boyd, today suspended the body's sessions until R Nacional resumes being them. The Legislative Assembly's action is based on Article 85 of Law 49 of 4 Dec 84, which makes it compulsory for govt radio stn to bc assembly sessions. R Nacional has not bc the proceeding over the past week, alleging tech problems. [How's that for cart before the horse? gh]

Monitoring 6-9 June: Since 6/6, stn obs on 1100 kHz IDing as R Noticias. Fq formerly occupied by R Suave, reportedly owned by deposed pres Delvalle, not hrd

since 17/3/88. R Noticias, which describes self as "the most news and sports orientated [sic] radio of the moment" is on the air from apx 1058 to 1930 gmt daily. Some items bc have been critical of the Pan govt (WBI 17/6)

PERU From June Relámpago DX of Takayuki Inoue Nozaki, Tokyo, Japan:

- 4810.2 Perú: Radio San Martín, Tarapoto; \*1014-1030 f el día 5/8. Después del Himno Nacional del Perú y la apertura de identificación (vea "Relámpago DX" No.022), se identificó como sigue: "A través de las poderosas ondas de emisora más poderosa del oriente peruano, en 1130kHz y 4810 banda internacional de la Radio San Martín, presentamos EXCAVADOR CAJAMARQUINO." El programa dominical "Excavador Cajamarquino" con la música folklórica andina y especialmente cajamarquina. Nota: Según el monitor realizado en el Mayo, Radio San Martín ha iniciado la transmisión matutina desde las 0930V (de lunes a sábado) con el programa musical "Folklore Andino".
- 4821.6 Perú: Radio Atahualpa, Cajamarca; 1052-1100 f el día 5/5. Px "Raíces Folklóricas" con música folklórica peruana y el servicio de los comunicados. A las 1054 confirmé ID: "Desde la ciudad de Cajamarca, Departamento de Cajamarca, transmite Radio Atahualpa en 1380kc amplitud modulada y 4820kc onda corta banda de 60 metros. Atahualpa, la radio uno de la ciudad." y seguidamente las notas del Himno Nacional. Nota: Felizmente ya recibí la respuesta fechada 16 de Mayo de 1988, con el "Certificado de Sintonía", desde el Sr. Luis Cruzado Ossio (Administrador General). Me dijo que yo fué el primer radio-escucha japonés quien había sintonizado Radio Atahualpa en onda corta en Tokyo, Japón, y también recibí mi reporte de sintonía con la fecha 25/04/88, el 30 de Abril de 1988, y luego el 3 de Mayo se recibió un reporte (0915-0945, 19/04/88) del Sr. Donald Jensen (EE.UU.) & el 5 de Mayo se recibió el otro (1010-1153, 29/04/88) del Sr. Yoshinori Sano. Según su respuesta, Radio Atahualpa realizó la primera transmisión de prueba en la frecuencia de 4820kHz onda corta, el día 16 de Abril de 1988. Y su nuevo transmisor de onda corta fué fabricado en este año y tiene kW de potencia. Sus programaciones están basadas en impartir cultura, educación, recreación e información. Horario de emisión: 0900-0500 (lunes-viernes) & 1000-0500 (sábado-domingo).
- 4825.0 Perú: La Voz de la Selva, Iquitos; 1030-1100 g/f el día 5/14. Al inicio del programa musical "Baila, Baila, Sangrinita", se anunció: "5 de la mañana con 41 minutos, 5 con 41 minutos. Estamos transmitiendo desde Iquitos, Perú, capital de la amazonía peruana, esta es La Voz de la Selva, la radio que habla y que canta, en 770kc en onda tropical, 4825 en amplitud modulada y 93.9 frecuencia modulada. Desde la selva amazónica, a la orilla del Río Amazonas, la ciudad de Iquitos, a través de las potentes ondas de La Voz de la Selva, presentamos BAILA, BAILA, SANGRENITA!" y luego música tropical &ailable.
- 4825.5 Perú: Radio Sicuani, Sicuani; 1040-1106 f el día 5/20. Con una sorpresa confirmé esta nueva variación de frecuencia (ex-4826.2). Hasta las 1054 un programa informativo para los campesinos en Quechua, y luego un programa religioso "Mensajero", destinado para los oyentes cristianos en el Departamento de Cusco, Puno y Madre de Dios. A las 1059 algunas cuñas comerciales: "El Banco Popular", "Faucett", etc. A las 1100 nueva ID: "OAX7T 4835kc banda de 60 metros onda corta, OAX7R 1365kc banda de 225 metros onda larga. La emisora de Radio Sicuani, La Voz de Canchis. Siempre hay un programa interesante para Ud." Nota: Según el monitor de la fecha 5/28, Radio Sicuani volvió a estar en la frecuencia de 4826.2kHz, su frecuencia habitual.
- 4834.9 Perú: Radio Marañon, Jaén; Después de haber enviado un f/up-reporte de sintonía, recibí una respuesta con la tarjeta QSL de Radio Marañon. Según su respuesta escrita por el Sr. José Luis Maldonado, Director de la radio, un programa informativo agropecuario que yo informé como "Informativo Oral", en "Relámpago DX" No.020 & No.018, correctamente debe ser como "Informativo Zonal". Este programa es dirigido por la Zona de Educación, es decir el Departamento del Ministerio de Educación para esta zona del Nororiente Peruano. Efectivamente Radio Marañon es una emisora cultural de la Iglesia Católica y es una de las emisoras pertenecientes al CEMCOS (Centro de los Medios de Comunicación Social), el cual es una asociación de Misiones Dominicos del Vicariato Apostólico. Su finalidad de Radio Marañon es ayudar a los campesinos para progresar en todas las ramas del saber humano, no solamente del religioso. Por eso ellos tienen programas de agricultura, salud, geografía, historia, inventos modernos, etc., procurando a ayudarles en sus desarrollos por medio de las noticias (se emite un noticiero de 50 minutos y dos resúmenes breves todos los días). Radio Marañon comenzó sus transmisiones el 21 de Agosto de 1978, con la siguientes característica: OAX2E 580kHz en onda media con 3kW de potencia. Luego aumentó a 10kW de potencia con el transmisor de "Harris" y la antena de 120 metros de altura. Pero la zona de la cobertura radial es dificultosa por ser selvática y su señal de onda media no llega bien por algunos lugares de estas zonas, por eso han ampliado a la onda corta. Y El Ministerio de Transportes y Telecomunicaciones autorizó con fecha 13 de Agosto de 1986, a Radio Marañon (CEMCO) a operar en onda corta en la frecuencia de 4835kHz con kW de potencia. Esta salió al aire el día 29 de Septiembre de 1987, con el nuevo transmisor de "Bauer" de kW y la antena de 42 metros de altura. El horario de su transmisión: 1100-0200 (lunes-sábado) y 1200-0200 (domingo). Trabajan las siguientes personas: José Luis Maldonado (Director), Luz Marina Carrión, Flor Silva, Rozana Robles, Cristina Guevara, Helena Mejía, Gladis Díaz, Doris Rojas (locutor/operador/sacerdote), y además Elena Alcalde & Delfina Recoba trabajan por horas y programaciones. Aparte de las labores religiosas, tienen un instituto tele-educativo llamado "INTERAMA" (Instituto Tele-educativo de Radio Marañon), en el cual tienen cursos de agricultura, salud del niño, fisiología, apologetica y la Biblia a través de la radio. Ha comenzado con una clase de repaso en video tape de las lecciones mensuales. Tienen un proyecto de hacer una biblioteca popular para los campesinos de fuera y quizás para los alumnos que no tienen muchos medios de estudiar. Los reportes deben ser enviados en Castellano a la siguiente dirección postal: Apartado No.50 Jaén, Departamento de Cajamarca, Perú.

PHILIPPINES FEBC Radio Intl is a non-govt Christian evangelical stn; nx is often bc on half-hour in EG svcs. Complete sked: target As only, uos  
00-02 EG (nx at 01 & 02) 15480. 0115-0130 Burmese tribal langs 15465.  
0130-0145 Kuki 15465. 0145-02 Metei 15465. 02-0230 Sat/Sun Indian tribal langs 15465. 03-05 EG Au (nx 04 & 0430) 11850. 03-09 Std CH 12025. 0830-0930 EG As/Au 15350 11850. 09-1030 Indo 11865 [gee, isn't that an Indonesia fq?!]. 09-14 Std CH 9800. 0930-10 Hakka 15350 11850. 10-1030 Amoy same. 1030-11 Swatow same. 11-1130 Hmong 11850. 1115-12 Vietnamese tribal langs 15350=to 1145, and 9670. 1130-12 Laotian 11850. 1145-12 Burmese tribal langs 15350. 12-13 Cambodian 11850. 12-13 Viet 9670. 1230-14 Burmese 15350. 13-1330 Viet tribal 9670. 13-16 EG (nx 1330, 1430, 1530) 11850. 1330-14 Tamil 9670. 14-1430 Burmese tribal 15350. 14-1830 RS Eu 9845. 1830-19 GM Eu 9845. 22-23 Tagalog 6030. 22-24 Std CH 9830. 2225-2325 Indo 9710. 2230-23 Laotian 9655. 23-2310 EG 6030. 23-2330 Hmong 9655. 2315-2330 Lahu 11865. 2330-2345 Shan 11865. 2330-24 Cambodian 9655. 2330-0115 Burmese 15465. 2345-24 Wa 11865. Total output 304:55 per week (WBI 17/6)

POLAND PAP nx agcy, 7/6 text of item from govt spoxeman's press conf headed Partial shutdown of PR Foreign pgms: Asked to comment on this issue, Jerzy Urban stressed that this is a decision which followed mainly from lack of financial and technical possibilities. Pgmms which cannot be rcvd due to tech reasons or which have a small number of listners will be discontinued. (WBI 17/6)

Includes termination since 1/5 of 02-0355 NAM svc in EG. A Polish joke might be in order since they did this just when annual reception would have peaked. Actually, they traditionally make annual schedule changes around May Day (gh)

PORTUGAL R Renascença, non-govt'l svc, opd by Catholic church in Portugal for Port emigrants in Eu, Brazil. Includes relays/rebcs of domestic RR svc in Port. Daily 0015-0115 Am 9600, 18-19 Eu 9680. Sunday 0955-11 Eu 9575, 19-20 Eu 9680. Sat/Sun 14-18 Eu 9680 (WBI 17/6)

SEYCHELLES New fqs not in WRTH 88: FEBA on 6065 with clear IS at 1828 regular under Sweden, short break 17/5, 22/5, 24/5, 29/5. And 11915 1915-2003 in Farsi? u/VOA, relig pgm, clear IS 2003 2/6 (Roland Schulze, W Germany)

SOMALIA Monitoring 30/5 to 5/6: R Hargeisa, northern Somalia, was last hrd on 7120 w/sked nx at 1530 30/5. Unhrd thru 31/5, not traced since. There have been reports of unrest in northern Somalia w/possible capture by rebels of a radio stn and airport in Hargeisa (WBI 10/6)

SOUTH AFRICA Monitoring 20/5: R RSA ancd during 19-20 EG to ME/Af it'd replace 5980 with 4990 from 22/5, //9610 7270 (WBI 27/5)

SUDAN Monitoring 1-7 June: Nat'l Unity R from Omdurman now obs to carry irregular items in EG in addn to AR & verns. Bcs apx 14-15 on 9435 7100; nx in EG typically carried at apx 1445-1455 (WBI 10/6)

SURINAM R Surinam Intl svc inaugurated 2/9/84. Changed from 3 days per week to 5 on 4/8/86. Uses xmtg facilities provided by Radiobras in Brasilia (Brazil). Mon-Fri 17-1745 on 17875 multilingual to Eu in DT, EG, Sranan Tongo; incl nx in DT 1705-1715, EG 1730-1740 (WBI 27/5)

TAIWAN For J88 OOB VOFC opns are: 7445 EG 02-04, CH 04-05, Cant 05-07, Viet 07-08, CH 09-10, Cant 10-11; 9785 GM 21-22; 9845 Chauchow 23-24; 9955 Thai 14-15, AR 20-21, EG 22-23, SP 23-24, Cant 13-14. The thing on 7445 is intended for Hong Kong and Macao. It has proven absolutely IMPOSSIBLE to secure data on xmtr sites used for VOFC and V of Asia HF facilities! I have long held the view that some VOFC pgms are xmt'd via VOAs xmtrs at Kaohsiung, such as 7445, 9845, 5980. Specific reqs to Engineering Opeations people at Kaohsiung inevitably bring forth a copy of latest travel folder inviting me to come to Taiwan! About the only chance left is to ring them, but my Chinese isn't all that good! (Bob Padula, clearly frustrated, Vic, ADXN May)

TANZANIA R Tanzania, Dar es Salaam, on 4785 with new s/off time 2020; hrd 24/5 1958-2020\* w/IDs in SH, Af folk mx, 2015 NA w/choir to 2020\*. Also 26/5 to 2020\* (Roland Schulze, Stuttgart, W Germany)

U S S R R Vilnius ES, one hour later during winter time. 00-0030 Lith Am on 15455 15180 13645 11790 9640 6100. 21-2130 Lith Eu 6100 666. 2130-22 EG Eu on same. 22-2230 EG Am same as 00.

R Kiev, all pgms one hour later during winter time in USSR. 02-0230 EG Am on 15455 15180 13645 11790 9640 9800. 0230-03 UK Am same. 1430-15 Moldavian Eu 891-unconfirmed. 16-17 GM Eu 11780 9710 9560 7370 7330. 17-1730 UK Eu, 18-1830 EG, 1830-19 UK 11780 9710 9560 7330. 21-22 UK Am 15475 15455 15180 13645 11850 11790 9800. 21-2230 UK Eu 1242 999. 2330-24 EG Am 15455 15180 13645 11790 9800 9640 7400.

R Yerevan ES, during winter time some pgms may be one hour later than shown. Exact timing of nx in EG, FR, SP at end of some AM xmsns subject to slight variation. 0230-0255 AM NAM 15455 15180 13645 11790. 0255-03 EG nx same. 07-0750 Sun AM Eu 15510 15485 ?15305, 0750-08 Sun FR nx same. 1530-1630 AM ME 6065 4990 864. 1630-1730 AR same. 1730-20 AM/TK/Persian same w/nx in TK 1735-1745, nx in Persian 1755-1805, Nx in Armenian 1805-1815. 2030- 2050 AM Eu 15510 9895, 2050-2100 Sun AM Eu same. 2050-21 M-Sat FR nx same. 22-2250 AM LAm 12050 9470, 2250-23 SP same. (WBI 27/5)

TASS reported from Washington 25/5: Discovery cable-TV net ancd that during Moscow summit it'd show Soviet Verenya nx pgm to Am audiences, 29/5 thru June [sic] 9-10 pm w/EG interpretation. Discovery had had positive response to previous Soviet pgms. Carried out w/help of Orbita Technologies company, which has been granted by USSR exclusive right to spread in USA Soviet TV pgms rcvd via Molniya (lightning) satls.

TASS reported 26/5: 31/5, for first time in history, Am radio stn will bc over Soviet radio. WAVA-FM, one of 3 most popular Wash DC stns, will be live 0315-0345 "Good Morning Moscow", providing Sov people w/authentic taste of morn radio as hrd in US. Don Geronimo and Mike O'Meara will present mix of mx, nx, humour, info, ads. Also live on WAVA at 11:15 pm EDT; on Soviet Youth channel, on 3rd All-Union pgm, repeated at 8:28 am on RWMS; in EG, introed and followed by short summary in RS. WAVA had cooperated w/Gosteleradio before.

RNMN reported 26/5: R Moscow is going to deliver via satl their pgming to NAM, on Satcom 1R, transponder 19 channel 18-1, every morn at 09 EST [sic], every eve at 19 EST, until 3/6. Absolutely free; anyone w/dish can downlink it. This means that RM is feeding a specially produced 60-min EG pgm to US at 1300 UTC & 2300. This Mon only, the first bc at 15, Tue-Fri 1330. 2300 remains fixed. Surprisingly the quality of the satl feeds seems similar to telephone, more fidelity on SW in fact.

24/5, Central TV's breakfast-time pgm 120 Minutes from Moscow carried video reports from CNN's World Report.

TASS reported 29/5: Moscow-Wash radio linkup, at 1900 gmt next Thu 2/6 will be devoted to outcome of Sov-Am Summit, per agmt betw Gosteleradio and NPR. Listeners on both sides can call in questions of Professors; phone 233-6919, 233-6275 233-6607. In USSR, will be live on: one of the AU pgms; in USA, on top [sic] of the 300 radio stns of NPR, available to 3500 commercial stns for bcng thru satl comm channels (WBI 3/6)

TASS reported 1/6: Sergei Losev, Dir-Gen of TASS, and Charles Wick, Dir of USIA, met here today to discuss issues of covering life in their countries and ways to further coop betw Sov & Am mass media. It was pointed out that nxmen should play an active role in shaping Sov-Am rels in a spirit of new political thinking. Wick then familiarised himself w/activities of various TASS svcs (WBI 10/6)

On 3/6, WBI issued twice-annual survey of Moscow ES bcs. Some excerpts: R Magallanes in SP to Chile: 01-0130 12090 11900 11890 11860 11630 9880 9675 9470 7225. R Moscú SP to Chile 0130-0230 12090 11900 11860 11630 9880 9675 9470. R Magallanes 0230-03 11980 11900 11860 11630 9880 9675 9470. R Moscú SP to Spain & Chile: 20-2030 15140 13615 12040 12000 11920; 2030-21 15140 13615 12030 12000 11900 11745 1386 1323.

French, as R Moscow Internationale, complete: 04-05 Eu/ME/Af 17590 12060 12040=from 0430 12000 11965 11950 11900 11890 11860 11745 11630 9880 9490. 05-06 Eu/ME/Af 15560 15530 12060 12040 12000 11980=from 0530 11965 11950 11930 11900 11890 11860 11630 9880 9820 9490. 06-07 Eu/ME/Af 17590 17580 15585 15560 15530 15485 12040 12000 11965 11950 11930 11900 11890 11860 11630 9880 9820 9490.

12-13 Eu/ME/Af incl pgms for France & Belgium 17700 17680 15585 15545 15525 15475 15420 12055 12020 11755 9880. 13-14 Eu/ME/Af 17860 17700 15585 15545 15540 15525 15475 15420 12020 11755 9880. 14-15 Eu/ME/Af incl pgms for Af 17700 17680 15585 15545 15525 15475 15420 12020 11755 9880. 15-16 Eu/ME/Af 17700 17680 15585 15525 15475 15420 13690=from 1530 12060=from 1530. 16-17 Eu/ME/Af incl pgms for

the Maghreb, 15585 15570 15525 15420 15295 13785 13690 12060 12020 11880 11800=  
from 1630 11735 11690 9880 9610. 17-18 ME/AF incl pgms for France & Belgium [so  
why is Eu target missing?] 15585 15570 15550 15525 15295 15195=from 1730 13785  
12060 12020 11880 11870 11800 11735 9880 7380=from 1730. 18-19 Eu/ME/AF 15585  
15570 15525 15350 15295 15195 13785 12060 12020 11870 11735 11690 11630 9880  
9610 9480 7380. 19-20 Eu/ME/AF incl pgms for Af 15585 15570 15350 15295 15195  
13785 12060 12030 12020 11870 11735 11670 11630 9880 9710 9610 7380. 20-21 Eu/  
ME/AF 17710 15585 15570 15310 15295 15195 13785 12060 12020 11980=from 2030 11940  
11870 11840 11800 11735 11630 9880 9785 9710 9610 4990. 21-22 Eu/ME/AF 17710  
15295 15195 13785 11980 11800 11735 11690 9785 9610 4990 1548 1386.

Regional EG svcs other than NAM on SW: NAM 12-22 Sun and alt Sat only, nx  
every 2 hours on 1040-Cuba. NAM svc [daily?] 22-24 on 1040-Cuba. Af 17-18 incl  
Afrikaans segment every Fri apx 1745: 15535 15500 15450 15415 15330 15130 13690  
13615 12015 11775 9830. 18-19 EG/Zulu to SAF incl segment in Afrikaans every  
Fri at 1820 apx, repeat of 1745: 12030 11960 11850 11670 9730 9530. 19-20 GBI  
15475 11950 11850 9775 9630 7370 7330 1143. Af 20-21 15450 15535[sic, oops]  
15330 12030 11960 11850 11670 9530.

R Stn Peace & Progress in EG: 14-1430 As 17645 15580 11890 11775 11655.  
1530-16 ME/As 12030 11985 9750 5920. 1630-17 Af 15140 13615 12030 11775 11670  
9830.

R Moscow in Fulani to Af 19-1930 15330 15140 13690 13615.

R Moscow [not including P&P, Magallanes, or anything in Russian] total weekly  
output to all areas is 1545 hours and 5 minutes. Leading langs are EG WS 168 [i.e.  
nonstop]; Std Chinese 161 [not as you might think on the air 23hpd, but 19-15  
UTC, and doubled up between 11 and 15 thus: 11-12, 11-12, 12-1230, 12-13, 1230-  
13, 13-14, 14-15, 14-15 due to separate pgms for China and SEAs]; regional EG  
svcs incl NAM but not incl EG/Zulu above, 99 hpw; French 91; SP 87:30; Polish  
70; AR & GM 52:30 each; PT 49. At the bottom are these totalling 3:30 each, i.e.  
one half hour daily: Assamese, Fulani, Macedonian, Ndebele, Shona, Slovene.  
Total number of langs used by RM: 65. RSP&P uses 4 that RM does not--Azeri,  
Creole, Guarani, Hebrew (gh, from WBI 3/6)

U S A Superpower KUSW answers all reception rpts w/ QSL card. Rp appreciated.  
KUSW is in west part of Salt Lake Valley. Addr P O Box 7040, SLC UT 84107. Phone  
(801) 250-4111. J88 sked: Mon-Sat 16 15225, 19 15400[changed to 15690--WOOB!],  
22 15580, 00 11695, 03-05 9815; Sat thru Sun 05 6155, 07 6135, 11 9850, 16-18 on  
15225. Pgmng: Mx, nx, features, religion, wx--Weatherbank is computerized svc  
that allows KUSW access to temps and wx condx worldover. Mx and the Spoken Word  
from Temple Square aired Sun 06 & 16. Twice a year LDS confs will be bc Sat/Sun  
16 & 20. F.P1: prizes, contests, promotions, addl pgming plus relig pgms from  
diff denominations (undated KUSW via Richard Lemke, St Albert Alta, Canada)

WYFR lang & fq sked, 1/5 to 24/9/88: EG NAM 10-11 5950, 11-12 5950 7355.  
12-13 5950 7355 9565 15215. 13-14 5950 7355 9565 15215 13695\*. 14-16 5950 9535  
15215 11830\* 13965\*[sic]. 16-18 9535 15170 15215 11830\* 13965\*[sic]. 18-21  
15170 15215 15375 11830\* 13695\*. 21-23 15170/9505[means either-or?] 15355 15375  
11830 13695. 23-03 5950\*\* 9505\*\* 15355. 03-06 5950\*\* 9505/20\*\*. 06-08 9520  
6065 (\* = network pgms Mon-Sat; \*\* = network pgms Mon thru Fri begin at 12 [by  
network they mean live off sat1 Family Radio svc also on FM, call-ins possible])

EG Eu/AF 05-06 11580, 06-07 7355 9852.5, 07-08 7355 9852.5 11580, 08-09 11580,  
16-17 15440 17845 21525, 17-18 13760, 18-19 11580, 19-20 21615 15566, 20-22  
17750 15566 21615, 22-23 21615. EG to India [via Taiwan tho not specified] at  
1302-1402 15055, 1402-1517 11550. Eu/NAF in Russian 04-05 7355, 15-17 9955;  
LAM in RS 10-11 6085, 03-04 6065 [presumably UTC but unlike other langs only  
headed "Vremya"]. Arabic to Eu/AF 17-18 21525 15566 21615. SP Eu 16-17 21615  
15566, 22-23 17750 11580. Hindi [altho Arabic sked was given in EG/Roman, Hindi  
is in Hindi which I am so illiterate in that I cannot even read the numbers,  
sorry -gh]. SP Carib 11-15 6085, 16-01 6085, 01-03 6065, 04-06 6065. SP to Mex  
& Cam: 11-12 6175 9605, 12-14 6175 9605 15130, 14-15 15130 (via Richard Lemke,  
St Albert, Alberta, Canada) But they keep on adding more xmtrs (gh)

WHRI studios and offices in South Bend IN were destroyed by a fire Sunday aftn  
12/6 which also destroyed WHME TV & FM (South Bend Tribune 13/6 via Tom Laskowski,  
James Streitmatter, DXLD/RIB) This caused some disruptions in SW sked, but the SW  
xmtrs themselves in faraway Noblesville IN were not damaged. On 14/6 at 0300, R  
Earth via WHRI was missing--on 7400 more WHRI mx was hrd, and both that date and  
21/6, when R Earth was back on 7400, the other fq 7355 was not on the air. Unsure  
if moved, or one of the xmtrs is down for some other reason (gh)

CLANDESTINE CRANNY Televisión Martí R Havana Cuba reported 11/6: In a new aggression against Cuba, the

US Senate Appropriations Subcommittee has approved \$7.5 million for a TV channel under US govt auspices that will be subversive propaganda to our country. The new channel, controlled by the USA, will be called Televisión Martí and the transmitter will be located in an aerostatic globe over the Florida Keys. TVM joins the radio stn of the same name that is currently being subversive prop against Cuba. When the anti-Cuban R Martí began being, the immigration agmts betw Cuba and the US that had been signed in 1984 were suspended in Jan 1985 (WBI 17/6)

I.e. a tethered balloon, presumably helium. This has been done before, to bring TV to the Bahamas. No channels are mentd in this or other press reports, but by process of elimination taking into account existing channel usage, in FL and Cuba, I think ch 8 would be most likely, then maybe ch 3. Of course an upper UHF channel would avoid QRM problems, but UHF is lacking from Cuban TV sets. Unless Castro decides to ignore it like R Martí, whatever channel is picked could soon be blocked by a Cuban QSY (gh)

R Libertad Cubana y Radio Felipe de la Cruz bcs are hostile to Castro. Says it bcs on two 40mb fqs at 21 local, M/W/F; times and fqs vary: UTC Tue/Thu/Sat 01- on 7050v (WBI 10/6) That's the long-inactive "Comandante David" stn, with an additional monicker appended--who's he? (gh)

La Voz del CID pgms, hostile to Castro, hrd since Oct 1981. Initially relayed by R Clarin, DR. Each CID stn bcs under diff name tho at times may be //. The R Máximo Gómez stn, which had been via Clarin on 11700, was replaced by pgming from R Mil on 16/5/88. RCC has on occasions relayed pgms in DT & Sranan Tongo from R Free Surinam operated by the Council for the Liberation of Surinam.

R Camilo Cienfuegos, 0940-0210 on 9940v, 0230-0930 6305. R Antonio Maceo, 11-23 11635, 23-1055 7380 (WBI 27/5)

La Voz Popular Tele-Rebelde, Havana, 20/5 interviewed Ana Aravalo, member of the URNG: Is result of many efforts, basically of various revly orgs making up the Guat Natl Revly Unity at present. We'd tried several times in the past. There were some cases of QRM w/Guat's local radio stns. With the training of the necessary prsonnel we were able to have our first bc on 22/5/87. Is offl mouth-piece of URNG. Is rebel stn. Tries to counteract disinfo, campaigns to twist around the nation's reality. Basically directed towards Guat people in interior. Essential we explain what's happening because media multinationals are very powerful and are always distorting reality. Stn bcs from Sierra Madre mtns. People working it are combatants. One stn motto is "With Rifle and Microphone". In other words, in certain circumstances the xmtr has to move arnd. Has to be mobile, w/out fixed studios. Trees and jungle are its roof. Has been vy much persecuted. Now bcs once a week on Fri. For past fewmonth, never fails that there'll be some mily mobilisation on Fris. Army is always trying to pin us down. There are always opns. Frequent fighting at noon on Fris w/units in guerrilla zone from where the radio is being. Too, constant QRM during xmsns. Sometimes we bc to govt employees. Also 've been msgs addrd to women, Christians; the popular sectors of the Guat people, incl occl calls to officers or govt troops. Its a comprehensive means of comm to urge everybody to join the struggle, the revly mvmt underway in Guat. We have been able to keep [words indistinct] one of the Indian langs of Guat so it also reaches those groups that only speak an Indian tongue (WBI 27/5)

R 15 de Septiembre New 5929.4, 5/5 \*1057-1200, after Nic NA ID also as "voz del ejército de la Resistencia nicaragüense" on 5930, 6210, 6215, 1102 nx, also hrd 6214.4. Latter fq also 21/5 1100-1125 w/nx Informativo. Radio 15 de Sept; "audiación No. 140 de Comando Informativo"; "La Voz de la UNO, totalmente novedad para los Sandinistas." (Takayuki Inoue Nozaki, Tokyo, Relámpago DX)

R Constitucional see PANAMA

R Truth ZBC Harare reported 19/5: A call has been made for rural reporters in the country to counter SAF's so-called R Truth propaganda which is meant to discredit development policies of Zimbabwe. Addressing participants at a rural reporting workshop in Harare, MInfo/Posts/Telecomms, comrade Witness Mangewende, said rural reporters should facilitate a 2-way info flow betw masses and leaders. Com. Mangewende said rural reporters should be the morale booster, beacon of [words indistinct] the mirror of this community. He said govt forces on rural areas are intended to promote socialist transformation whose objective is the

development of an egalitarian society w/a better living std for all people.  
(WBI ed note: R Truth bcs in EG, Ndebele, Shona on 5015 at 04 & 1730) (WBI 27/5)

V of the Resistance of the Black Cockerel Monitoring 16/5: Bcs in EG & FR recently introed by UNITA stn now traced. EG started Mon 16/5 0431 on 4975. Anmt hrd after signature tune: "Welcome to the EG svc of the V of the Resistance of the Black Cockerel. We are bcng to you from Jamba, HQ of UNITA resistance mvmt in Angola. We are on the air every Sunday aftn, Monday morn. VORBC brings you a faxual and accurate account of political, mily, economic, admn and diplomatic situation prevailing in Angola. Stay tuned and be well informed. In this edition of the EG svc of the VORBC we have the following: nx review and commentary. Pleasant listening and stay tuned." Pgms in FR followed at 0455-0512 when reverted to PT. See June LN-30 (WBI 27/5)

V of the Broad Masses of Eritrea VOBME ancd in Amharic 0500 2/6: We'd like to inform you that from 10/6 VOBME will bc Amharic pgms every day Mon-Sun 0330-04, 16-1630 gmt. VOBME ancd in Tigrigna 0400 3/6: Starting 10/6, VOBME will extend Tigrigna and AR bcs from 30 mins to one hour; Tigrigna start as usual at 04, 09, 15. Ed note: This means VOBME is dropping 1800 bc in Tig and introing pgm at 09 instead. AR is currently at 1430-15. Monitoring 31/5: VOBME now carrying regular reports of mily successes by Tigre People's Libn Front (TPLF) and Ethiopian People's Democratic Movement (EPDM), in addn to those of Eritrean PLF. The EPDM (Amharic: Yeitiyoppia Hizboch Democrasiyawi Nikinake) is splinter group of Eth People's Revly Party. Is not thot to have any connexion w/Eth People's Democratic Alliance (Amharic: Yeitiyoppia Hizboch Democrasiyawi Andinet) which i.a. operates Sudan-based stn R V of Ethiopian Unity. See sked published one year ago (WBI 10/6) So probably in July or August 1987 LN; how about a refresher on the fqs? (gh)

V of Palestine; V of Natl Alliance for Liberation of Syria see IRAQ  
Al-Quds Radio Monitoring 17-20 May: AQR now makes this anmt at s/on, off: "Al-Quds radio comes to you on 96.7 and 105.4 MHz FM and the main MW channels of 729 and 630 kHz. We also xmit on standby MW fq 531 kHz." Only the two main MW ch confirmed so far. Former varies 727-736 to avoid QRM. Since 17/5, xmtr obs appearing a few mins after AQR 1700\*. On same fq between 733 and 736. Plays AR songs. 20/5, played AR songs 17-21 nonstop w/no anmts. 18/5, strong unmod sig appeared in same position 17-2045. 21/5, xmtr obs using 736, QRMing Israel Arabic 738 (WBI 27/5)

Monitoring 1-13 June: AQR now obs w/daily comtry by political ed at 1500 and "nx in brief" in EG at 0910. Latter lasts few mins, covers events in occupied Pal terr. AQR continues its main AR nx at 1600. AQR continues describing xmsn as experimental and can be hrd on 630 and 706-735v. Harmful QRM continues on latter fqs w/het from unID xmtr. For past fewdays, xmtr carrying Arabic songs on same fq as AQR obs 11-13 but not after end of evening xmsn at 17. Continues to play AR song w/out ancg (WBI 17/6)

V of the Suburbs; Lebanese Forces R see LEBANON

Iran's Flag of Freedom (Kaviyani Banner) Radio Monitoring 22-23 May: stn hostile to Khomeyni ancd 17/5 that from 22/5 its 1630-1830 xmsn'd be bc on 15555 & 7080. The former ch replaces 9035. This change confirmed 23/5 (WBI 27/5)

V of the Movement of the Mojahedin of Iranian Baluchistan (Persian: Junbesh-e Mojahedin-e Baluchistan-e Iran) ancs it bcs on four SW channels, 31, 41, 49, 60m; and two MW fqs. Xmtrs are in Iraq. Monitored 05-06 & 16-17 on 9545 & 7180 in Baluchi to ME (WBI 10/6) Seems to be a new one. Ernie Behr, Ont, DXLD 20 page 36 has also hrd Baghdad on 9544 & 7180 in 2045-2155\* period, seems Azeri, unsked

LAST MINUTE INFO JAPAN/GUIANA FRENCH R Japan will start mutual radio relay w/R France Intl as from 1/8/88. Ea bc will be relayed 4.5 hpd using the partner's xmtg facility. As of 16/6 fqs not decided. R Japan will be relayed via RFI Fr Guiana: 22-23 JP ESAM, 02-03 JP WSAM & Cam, 0330-04 SP WSAM--total 4.5 hours, 4 fqs per day. RFI'll be relayed via R Japan Yamata xmtg stn: 0930-1130 FR NAs, 10-11 FR SEAs, 23-2430 FR SEAs. Total 4.5h, 3 fqs per day. Agmt of mutual relay'll be signed in Paris 11-13 July (Toru Yamashita, ABI)

P U B L I C A T I O N S DX Listening Digest brings you a lot more info in format similar to LN, but little of it duplicated. Issue #20 mailed to subscribers 15/6. Covers entire alphabet, mostly SWBC but some MW, ham, ute, TV DX nx for variety. Sample US\$2 in Nam, US\$3 or 7 IRCs elsewhere; 10-issue subs \$21 in Nam; elsewhere US\$27, 29 or 31, US funds on US bank, from Glenn Hauser, Box 1684, Enid OK 73702. Same rates for R.I.B. or both for \$40 in Nam. 73 / gh

## GLENN HAUSER'S PUBLICATIONS & BROADCASTS

REVIEW OF INTERNATIONAL BROADCASTING, since 1977, 40-PAGE OFFSET-PRINTED MAGAZINE. PROGRAM SCHEDULES, SPECIFIC ADVANCE PROGRAM DETAILS WHERE AVAILABLE, LISTENER OPINION, PRESS REPORTS, INSIDE INFO ABOUT SHORTWAVE STATIONS. EXTENSIVE REPRINTS OF BBC LONDON CALLING--SAVE YOURSELF EXTRA SUBSCRIPTION COST TO THAT UNLESS YOU WANT TO SEE THEIR ADVERTISING, ADDITIONAL ARTICLES, DETAILS OF SPORTING COVERAGE. TWO COLUMNS CONDUCTED BY LOREN COX; RADIO EQUIPMENT FORUM; AND SATELLITE WATCH--THE ONLY COLUMN OF ITS KIND IN A HOBBY PUBLICATION. IN NORTH AMERICA, SAMPLE \$2; 10-ISSUE SUBSCRIPTION \$21. CASH (AT SENDER'S RISK), CHECK, OR MONEY ORDER. CANADIANS MUST REMIT IN US\$, SUCH AS BANK DRAFT ALSO ON A US BANK, OR US\$ CANADIAN POSTAL MONEY ORDER. US\$ ALSO REQUIRED FROM OVERSEAS: \$23 BY SURFACE MAIL; \$27 TO CENTRAL AMERICA, CARIBBEAN, COLOMBIA, VENEZUELA; \$29 TO REST OF SOUTH AMERICA, EUROPE, NORTH AFRICA; \$31 TO REST OF AFRICA, MIDDLE EAST, USSR, ASIA, PACIFIC, ALL BY AO AIRMAIL. SAMPLE OVERSEAS US\$3 OR 7 IRCs. AVAILABLE ONLY FROM GLENN HAUSER, BOX 1684, ENID OK 73702.

DX LISTENING DIGEST, since 1985, SAME FORMAT AS RIB, BUT ENTIRELY DIFFERENT CONTENTS--COUNTRY-BY-COUNTRY DX NEWS SUCH AS STATION LOGGINGS, FREQUENCY SCHEDULES, PUBLISHED ONLY IF NEWSWORTHY, FROM DIRECT CONTRIBUTORS AND A MULTITUDE OF OTHER BULLETINS BOTH DOMESTIC AND OVERSEAS. MAY INCLUDE SOME PROGRAM INFO WHICH WOULD BE OUTDATED IF HELD FOR THE NEXT RIB. PUBLISHED IN ALTERNATION WITH RIB. MOST ISSUES INCLUDE ENJOYING RADIO, INDEPENDENT SECTION CONDUCTED BY DAVID NEWKIRK, ON THE FUN OF TECHNICAL INVOLVEMENT, PHILOSOPHICAL DISCUSSIONS, ANECDOTES. EXACTLY SAME RATES AS RIB ABOVE; THOSE SUBSCRIBING TO BOTH AT SAME TIME GET A \$2 DISCOUNT, E.G. IN NORTH AMERICA \$40.

BACK ISSUES OF MOST RIBs AND SOME DXLDS ARE STILL AVAILABLE. PRE-1986 ISSUES OF BOTH ARE GENERALLY \$1.50 EACH; AFTER THAT \$2 EACH, POSTPAID (OVERSEAS POSTAGE EXTRA).

LISTENERS NOTEBOOK, SIMILAR IN FORMAT TO DXLD BUT DIFFERENT INFORMATION, INCLUDING EXTENSIVE INFO FROM THE OTHERWISE EXTREMELY EXPENSIVE BBC MONITORING SERVICE, IS A COLUMN IN FRENDX, PUBLISHED MONTHLY BY THE NORTH AMERICAN SHORTWAVE ASSOCIATION, GENERALLY 15-20 PAGES OF A 58 PAGE BULLETIN. FRENDX ALSO HAS MANY OTHER EDITORS COVERING LOGGINGS BY FREQUENCY, QSLs, AWARDS, GENERAL INFO AND DISCUSSION. SAMPLE \$1 IN NORTH AMERICA, \$2 OVERSEAS ONLY FROM NASWA, 45 WILDFLOWER RD, LEVITTOWN PA 19057.

INTERNATIONAL DX REPORT, MONTHLY COLUMN IN MONITORING TIMES, THE CREAM OF THE CROP OF INTERESTING DX NEWS AND INFORMATION. MT ALSO HAS MANY OTHER COLUMNISTS GOING BEYOND THE SHORTWAVE BROADCASTING SPECIALTY; ENGLISH SCHEDULES BY TIME, PROPAGATION CHARTS. NOW AVAILABLE ON SELECT NEWSSTANDS; \$16 A YEAR FROM GROVE ENTERPRISES, P O BOX 98, BRASSTOWN NC 28902. COVER PRICE \$2.50.

SHORTWAVES, WEEKLY NEWSPAPER COLUMN PRIMARILY WITH SPECIFIC PROGRAM PREVIEWS, IN THE SUNDAY GREENSBURG TRIBUNE-REVIEW (SUBURBAN PITTSBURGH PA). COLUMN IS ALSO AVAILABLE TO OTHER PAPERS, BUT NEEDS LOCAL FRIENDS TO PROMOTE IT WITH EDITORS WHO UNDERSTAND (OR CAN BE ENLIGHTENED) WHAT SHORTWAVE LISTENING IS ALL ABOUT. THE T-R EDITOR DOES, AND ALSO RUNS MANY MORE PRESS ITEMS INVOLVING SW BROADCASTING THAN THE AVERAGE NEWSPAPER.

RADIO CANADA INTERNATIONAL, WEEKLY DX NEWS REPORT SINCE 1977, THE MOST UP-TO-DATE AND ACCURATE DX REPORT ON THE AIR, ABOUT 6 MINUTES CONCLUDING EACH 21-MINUTE SHOW. NORMALLY TAPED AND FED BY PHONE FRIDAY AT 11 AM CT FOR BROADCAST THE FOLLOWING WEEKEND. THERE MAY BE SLIGHT VARIATIONS IN THE EXACT LENGTH OF THE DX NEWS, AND CONSEQUENTLY THE MATERIAL INCLUDED, FROM ONE BROADCAST TO ANOTHER. NORMALLY, THE SAT. 2008 AND THE UTC SUN. 0008 ARE ABOUT A MINUTE LONGER AND INCLUDE THE PROPAGATION OUTLOOK. START YOUR TAPE!

WORLD OF RADIO, GH'S OWN HALF-HOUR WEEKLY DX PROGRAM, CARRIED ON WRNO SINCE ITS INCEPTION--WIDE-RANGING IN SUBJECT MATTER, PRIMARILY SHORTWAVE BUT ALSO COVERING LW, MW, HAM, UTE, TV, FM, GENERAL BROADCASTING AND COMMUNICATION NEWS. ALSO ON RFPI, COSTA RICA, AND FM STATIONS IN CONNECTICUT. SCHEDULING IS SOMEWHAT FLEXIBLE AND SUBJECT TO CHANGE. NORMALLY RECORDED ON SUNDAY AFTERNOON AND FIRST BROADCAST ON WRNO FOLLOWING THURSDAY.

AUSTRIAN SW PANORAMA INCLUDES EXCERPTS FROM WOR AND SOME MATERIAL NOT HEARD ON WOR. PROGRAM ALSO HAS OTHER CONTRIBUTORS AND WHICH WEEKS GH WILL BE ON CANNOT BE PREDICTED.

RADIO-ENLACE GH HAS BEEN NORTH AMERICAN DX CORRESPONDENT OF RADIO NEDERLAND'S SPANISH DX PROGRAM FOR MANY YEARS. NORMALLY ON THE 2ND FRIDAY OF THE MONTH, CONTINUED THE FOLLOWING WEEK. USUALLY IN TWO SEGMENTS WITHIN EACH PROGRAM; USUALLY MORE EMPHASIS ON LATIN AMERICAN AND SPANISH-LANGUAGE DX NEWS THAN ON GH'S OTHER OUTLETS.

BOLETIN DX OCCASIONAL SPANISH FEATURES FROM GH MAY BE HEARD ON RADIO AUSTRIA'S DX PROGRAM ON WEDNESDAYS.

TOTALS: WE ARE CURRENTLY INVOLVED IN 2 LANGUAGES, 5 PROGRAMS, 7 STATIONS, 11 SITES, 44 FREQUENCIES, 38 TIMES (NOT ALL WEEKLY), EVERY DAY OF THE WEEK....

DEAR READERS & LISTENERS: OUR BROADCASTS COME TO YOU ABSOLUTELY FREE (AND FREE OF COMMERCIALS). WE SPEND A GREAT DEAL OF TIME IN COMPILING AND RECORDING THEM, HOWEVER, AND YOUR SUPPORT IS NEEDED: FINANCIALLY, BY SUBSCRIBING TO RIB AND/OR DXLD; EDITORIALY, BY SENDING IN ANY INFORMATION YOU THINK MAY BE NEWSWORTHY AND OF INTEREST TO OTHERS.

ADVICE ON RECEIVERS I REGRET THAT I AM NOT IN A POSITION TO PROVIDE THIS; I AM MORE THAN BUSY TRYING TO KEEP UP WITH SCHEDULES, DX NEWS AND PROGRAMMING!

NOTE WRNO, R FOR PEACE AND R NEDERLAND TIMES MAY VARY; CHECK BOTH EARLIER AND LATER TO BE SAFE. CORRECTED TO: 21 JUNE 1988

REGARDS,  
*Glenn*

GLENN HAUSER's BROADCAST SCHEDULE

THIS ATTEMPTS TO INCLUDE ALL KNOWN TIMES AND FREQUENCIES; \* MEANS THOSE BEST HEARD IN NORTH AMERICA. # MEANS TIMING NORMALLY SHIFTS TO ONE HOUR LATER AFTER DST IS OVER. UNTIL THEN MOST FREQUENCIES ARE EXPECTED TO BE IN EFFECT UNTIL SEPTEMBER OR OCTOBER. THIS SCHEDULE IS STRICTLY BY UTC DAY AND TIME; DURING THE NORTH AMERICAN EVENINGS, IT'S THE PREVIOUS DAY TO THE ONE SHOWN FOR UTC. SUBTRACT 3 HOURS FOR ADT, 4 FOR EDT, 5 FOR CDT = EST, 6 FOR MDT, 7 FOR PDT=MST, 8 FOR ADT, 10 FOR HST, ETC.

DAY	TIME	STATION	PROGRAM	FREQUENCIES, SITES, NOTES
THU	# 1501-1531	WRNO	WORLD OF RADIO	11965* (FIRST AIRING OF THE WEEK)
FRI	# 0030-0100	WRNO	WORLD OF RADIO	7355* NEW ORLEANS
	# 0530-0555	R NED	RADIO-ENLACE	9895 6110, HOLLAND (MAYBE 0515-)
	# 1300-1330	WHUS	WORLD OF RADIO	91.7 FM, STORRS CT
	1300-1325	R NED	RADIO-ENLACE	11930 9610, HOLLAND (MAYBE 1245-)
	2100-2125	R NED	RADIO-ENLACE	9860 6020, HOLLAND (MAYBE 2045-)
	2100-2130	R PEACE	WORLD OF RADIO	13660 7375 COSTA RICA
	2300-2325	R NED	RADIO-ENLACE	9895* 6020, HOLLAND
SAT	0000-0025	R NED	RADIO-ENLACE	11715 15315* BONAIRE
	0100-0130	R PEACE	WORLD OF RADIO	7375* COSTA RICA
	0200-0225	R NED	RADIO-ENLACE	*15315 6165* BONAIRE; 9895 6020 HOLLAND
	# 0300-0330	WRNO	WORLD OF RADIO	6185* NEW ORLEANS
	0400-0425	R NED	RADIO-ENLACE	9590* 6165* BONAIRE
	0400-0430	R PEACE	WORLD OF RADIO	*13660 [EXPERIMENTAL] COSTA RICA
	# 1930-2000	WPKN	WORLD OF RADIO	89.5 FM, BRIDGEPORT CT
	# 2008-2030	RCI	SWL DIGEST	17875* 17820* 15325* SACKVILLE NB; 9555 6030 DAVENTRY, ENGLAND
	2137-2158	RCI	SWL DIGEST	17820* 15150* 11880* SACKVILLE NB
	# 2330-2400	WRNO	WORLD OF RADIO	13760* NEW ORLEANS
SUN	# 0008-0030	RCI	SWL DIGEST	9755* 5960* SACKVILLE NB
	##? 0100-0115	R AUSTRIA	SW PANORAMA	9875* MOOSBRUNN, AUSTRIA
	##? 0715-0730	R AUSTRIA	SW PANORAMA	6155 11915 15410 17870 MOOSBRUNN
	##? 1135-1150	R AUSTRIA	SW PANORAMA	15320* 6155 11915 17870 MOOSBRUNN
	1305-1324	R AUSTRIA	SW PANORAMA	6155 11915 15320 MOOSBRUNN
	1635-1650	R AUSTRIA	SW PANORAMA	6155 11915 11780 MOOSBRUNN
	# 2030-2100	WRNO	WORLD OF RADIO	15420* NEW ORLEANS
	2307-2329	RCI	SWL DIGEST	11730* 9755* SACKVILLE; 930 MONTSERRAT
MON	0415-0430	R AUSTRIA	SW PANORAMA	9875* 6155 15410 MOOSBRUNN
	1800-1830	R PEACE	WORLD OF RADIO	13660 7375 COSTA RICA [EXPERIMENTAL]
TUE	# 1233-1253	RCI	SWL DIGEST	17820* 11855* 9625* SACKVILLE NB (also on cable FM 101.5 Arlington VA)
	2300-2330	R PEACE	WORLD OF RADIO	13660* 7375 COSTA RICA
WED	0300-0330	R PEACE	WORLD OF RADIO	7375* COSTA RICA
	0600-0630	R PEACE	WORLD OF RADIO	13660* COSTA RICA [EXPERIMENTAL]
	1315-1330	R AUSTRIA	BOLETIN DX	12010 11915 6155 MOOSBRUNN
	2000-2030	R PEACE	WORLD OF RADIO	13660 7375 COSTA RICA [EXPERIMENTAL]
	2045-2055	R AUSTRIA	BOLETIN DX	9870, 11825 6155 5945 MOOSBRUNN
	2345-2355	R AUSTRIA	BOLETIN DX	9870* 11780 MOOSBRUNN
THU	0145-0155	R AUSTRIA	BOLETIN DX	9875* 11780 MOOSBRUNN
	0345-0355	R AUSTRIA	BOLETIN DX	9875* 11780 MOOSBRUNN

# QSL REPORT

**ABU DHABI:** Voice of the UAE 11865 f/d folder cd. w/ schedule in 22 ds. (Bishop-FL). same in 1 mo. for 1 IRC. (Gavaras-MN).

**ALBANIA:** Radio Tirana 7065 f/d cd. w/ schedule in 61 ds. (Morby-NY). same in 68 ds. (Eckman-CA).

**ANGOLA:** Emissor Regional Cabinda 4969.9 f/d cd. w/ personal ltr. in 3 mo.

\* for a PT rpt. v/s Carlos Ferreira, O Chefe de Departamento. (Barto)

**RADIO ANTIGUA:** Deutsche Welle 6160 cd. in 44 ds. (Darling)

**CULTURAL ARGENTINA:** LOL 10000 f/d folder cd. in 1

mo. for a SP rpt. (Barto-CT).

**TGN RAE** personal ltr. in 95 ds. v/s

Silvana Licciardi. (Zobro-MI).

**ARMENIA:** Radio Yerevan 11790 f/d cd.

in 3 mo. (Wallace-MA). 13645 and

15180 p/d cd. in 100 ds. (Renfrew).

**ASIATIC RUSSIA:** Radio Moscow 9580 via Petropavlovsk-

Kamchatsky f/d "Razin St." cd. in 48 ds. (Rugg-QUE).

6150 and 6095 cds. in 106 ds. (Eckman). 7345 f/d cd,

in 2 mo. (Palmersheim-MN). 13665 cd. in 46 ds. (Eckman),

15130 via Vladivostok f/d cd. in 45 ds. (Eckman). 4810

f/d cd. in 2 mo. (Rigas-IL). 9880 via Khab-

arovsk f/d cd. in 2 mo. w/ pennant. (Palmer-

sheim). 6020 and 6160 f/d cd. in 106 ds. (Eck-

man-CA). 6070 f/d "Lenin Library" cd. in 45

ds. (D'Angelo-PA). 11695 via Nikolaevsk-on-Amur

f/d cd. in 42 ds. (Rigas-IL). 6190 f/d cd. in 106

ds. (Eckman).

**AUSTRALIA:** Radio Australia 15395, 5995, 6080, 9580

and 9710 f/d cds. in 23 ds. w/ stickers, wall

calendar and other brochures. (Sylvester-MT). Nat-

ional Standards Commission Time station 12982 f/d cd.

in 3 wks. for \$1.00. v/s Sheila Mason. (Palmersheim-MN).

**AUSTRIA:** Radio Austria International 6000 "Rural Costume" cd. w/ schedule in 3 mo.

**AZAD KASHMIR:** Azad Kashmir Radio 4980 via Trakhel f/d ltr. w/ postcard in 35 ds. for 2

IRCs. (Buetow-AUT).

**BALI:** RRI Denpasar 3945 f/d cd. in 6 wks. for an IN rpt. and ms. v/s Drs. Harmyn Husein,

Kepala. Thanks to John Bryant and his Indo student who visited the station for us!

\* (sams-KS). f/d prepared cd. in 42 ds. after a f/up rpt. in IN for ms. (Allen-OK).

**BANGLADESH:** Radio Bangladesh 15525 n/d cd. w/ personal ltr. in 45 ds. for 2 IRCS. (Foley).

**BELGIUM:** BRT 11695 and 5910 f/d cd. in 39 ds. (Levison-PA).

**BOTSWANA:** Radio Botswana 4820 f/d "Herdboy" cd. in 20 ds. for 1 IRC. v/s Ted Makgek-

gene. This after 4 f/up rpts. (Radtko-CA).

**BRASIL:** Radio Nacional de Manaus 4845 prepared cd. w/

personal note in 20 ds. v/s Eudson Monteiro Lima, a

23 yr. old DXer. (Archer-NC). Radio Record 15135 f/d

prepared cd. in 24 ds. w/ sticker for ms. (D'Angelo).

Radio Emissora de Educacao Rural 4765 f/d prepared

cd. via registered mail in 24 ds. for a PT rpt. and 2

IRCS. v/s Eduardo Augusto Des Anjos, Gerente. (D'A-

ngelo-PA). Radio Clube Paranaense 6040 f/d cd. w/

stickers in 22 ds. for a PT rpt. and 2 IRCS. v/s

Ubiratan Lustosa, Director. Addr: C.P. 448. (Rugg).

Radio Cultura do Sao Paulo 17815 p/d ltr. in 63 ds.

for a PT rpt. and 2 IRCS. v/s Eng. Jose Munhoz, Coor-

denadoria de Engenharia. (Rugg). Radio Marajoara 4955

f/d ltr. in 2 mo. v/s Ronaldo Porto, Director Comer-

cial. Addr: Trav. Campos Sales, 370 Centro, Belem,

Para. (Barto). Radio Nacional 11745 cd. w/ schedule

in 113 ds. (Eckman). f/d cd. in 95 ds. (Zobro).

**BURKINA FASO:** Radio Burkina 4815 p/d form ltr. in 63 ds.

for a FR rpt., tape and stamps w/ 3 IRCS. and US

\$1.00 (Washburn-ME).

**BYELORUSSIAN SSR:** Radio Minsk 7170 and 7420 f/d cd. w/

GM schedule in 109 ds. (Rugg-QUE).



Pto. Limon C.R.

1220 KHz 5954 KHz 98.3 Mhz

Q.M. O.C. F.M.

RADIO

W-02-S-02

LA FE ES POR EL OIR,  
Y EL OIR POR LA PALABRA DE DIOS.

ROMANOS. 10:17

**RADIO CULTURAL**

TGN

AMERIBO PDM - 880 GUATEMALA, G.A.

MR. RICHARD DAVIS

INTERNATIONAL TRANSMITTING STATION - INTERNASIONALE SENDSTÄTTE  
OLIFANTSFOUNTAIN [ZUD]

Republic of South Africa / Republiek van Suid-Afrika

Confirmation of Transmission / Bevestiging van Uitsending

Date/Datum 1987-11-26 Time/Tyd 02h 59 - 04h 00 UTC  
Frequency/Frekwensie 5000 KHZ  
Modulation/Modulasie DSB  
Power/Krag 4 KW  
Antenna/Antenas 5 MHE VERTICAL  
Remarks/Opmerrings:



CANADA: CKZU 6160 f/d cd. in 36 ds. (Eckman-CA). CFCX 6005 f/d cd. w/ personal ltr. in 16 ds. for 1 IRC. (Sylvester-MT).

CHINA, PEOPLES REP. OF: Radio Exterior de Espana 11870 via Kunming cd. in 55 ds. (Darling). 7165 p/d cd. in 5 wks. (Barto). CPBS 8007 f/d "Panda's" cd. in 2 mo. (Barto). 6750 f/d "Camel and Riders" cd. in 2 mo. (Barto). 11100 f/d "Great Hall" cd. in 2 mo. (Barto-CT). 5320, 11330 and 4460 f/d "Mao Memorial Hall" cd. in 2 1/2 mo. (Barto). \* Swiss Radio One 11695 via Beijing cd. in 2 mo. (Riqas-IL).

VERIFICATION SIGNERS: Radio Uganda 5026 Miss Rachel Naki Bbuka, QSL Secretary. Radio TV Morocco 15335 Barrou Brahim. Radio Calca 6242 Jose Victor Del Castillo Farfan, Locator. Radio for Peace International 7375 James Nathan. Radio Valera 4840 Jose Silinia Perez, Director. RRI Jakarta 4774 Drs. E. Baskara. RRI Palembang 4856 Abdul Rochim, Station Manager. RRI Kendari 4000 H. Siah Buddin. RRI Surakarta 4932 Ton Martono Kasisarian. Radio Nederland Malagasy Relay (direct) J.A. Ratobimiarana, Chief Engineer. Voice of Malaysia 15295 Mohammed Fabian Bin Abdullah Ghani, Controller Manager. Radio Maranon 4835 Jose Luis Maldonado, Padre Jesuiste Ingeniero Director. Radio Del Pacifico 9949 J. Petronio Allauca, Departamento de Relaciones Publicas. Radio Faro del Caribe 5055 Juan Jacinto Ochoa F., Administrador. Radio Bare 4895 Clodoaldo J. Guerra, Director.

CHINA, PEOPLES REP. OF: Shijiazhuang PBS 5860 p/d "Kunming Lake" cd. in 2 1/2 mo. (Barto). CPBS 10245 and 10260 f/d cd. in 2 mo. (Barto). Inner Mongolia PBS 6974 f/d cd. in 2 mo. (Barto). Xinjiang PBS 3990.1 f/d cd. in 2 mo. (Barto-CT).

CLANDESTINE: La Voz del CID 11700 via Radio Clarin p/d cd. in 40 ds. for 1 IRC. sent to CR address. (Renfrew-NY). p/d cd. in 120 ds. (Topoleski). 9940 f/d "Logo" cd. in 2 mo. (Rubin-NY). 7380 f/d cd. via Apartado 8130, San Jose, C.R. in 1 mo. for a SP rpt. and ms. (Archer-NC).

\* La Voix du Sahara Libre 15215 f/d prepared cd. in 50 ds. for a FR rpt. Addr: Polisario Front, Boite Postale 10, Algiers, Algeria. (Gavaras-MN). Voice of Unity 11490 n/d cd. in 1 mo. (Riqas-IL).

COLOMBIA: Radio Nueva Vita 5569.3 and 5566.1 p/d ltr. in \* 2 mo. for a SP rpt. v/s Marco Antonio Caicedo O. Postcard and full package of religious materials were received. (Barto-CT).

COSTA RICA: Radio For Peace International 7374.8 cd. w/ ltr. and schedule in 54 ds. for ms. (Eckman), 7375 same in 6 wks. for \$1.00 (Lobdell-MA). 15493.4 f/d cd. w/ personal ltr. in 5 mo. v/s James Latham, Station Manager. (Barto). 15493.5 same in 40 ds. for 2 IRCs. (Brouillette-IL). Radio Reloj 4832 f/d cd. in 33 ds. for ms. (Eckman). 6006 f/d "Logo" cd. in 19 ds. v/s Francisco Barabona G. (Zobro). Faro del Caribe TIFC 5055 f/d cd. w/ ltr. and sticker w/ pennant in 17 ds. v/s Juan Jacinto Ochoa F. (Cichorek-NJ). Radio Lira/AWR 9725 f/d cd. w/ sticker, sked., and pennant for \$1.00 in 6 wks. v/s David L. Gregory, Chief Engineer/Manager. (Lobdell).

CUBA: Radio Rebelde 5025 p/d ltr. w/ cd. and pennant in 76 ds. for a SP rpt. and 1 IRC. v/s Jorge Luis Mas Zabala, Relaciones Publicas. (Rugg-QUE). Radio Habana Cuba 9670 f/d "Morro Castle" cd. in 135 ds. (Topoleski-PA). Radio Moscow 6000 via Habana f/d cd. in 45 ds. (D'Angelo-PA).

CZECHOSLOVAKIA: Radio Praha 11990 f/d "Kromertz Chateau" cd. in 1 mo. (Eckman). 5930 cd. w/ very nice publication on the country in 2 mo. (Foell-LA).

DOMINICAN REP: Radio Amanacer 6025 personal ltr. w/ postcard in 2 mo. for a SP rpt. and \$1.00. v/s Pastor Fidel Ferrer. (Lobdell). Radio Antillas 5955.5 p/d ltr. obtained via a friend in Santo Domingo for a taped rpt. and \$1.00. v/s Jose Alberto Martinez, Director. (Wilkins-CO).

RADIO REPUBLIK INDONESIA NUSANTARA II YOGYAKARTA Verification Card

Dear Mr. Richard E. Davis.

This is to verify your report dated March 20, 1988. on our programme broadcast on frequency of 5047

Thank for listening

Signature: N. H. I. NUSANTARA II, Secretary

Programme	Frequency	M.F.T.	Q1/UTC
Translators	7190 kHz	10.00 - 13.00	03.00 - 06.00
	7100 kHz	01.00 - 04.00	18.00 - 21.00
		07.00 - 10.00	00.00 - 03.00
		13.00 - 16.30	04.00 - 07.30
		04.30 - 07.00	21.30 - 00.00
5047 kHz	14.30 - 01.00	02.30 - 14.00	
5150 kHz	18.30 - 01.00	02.30 - 14.00	
1107 kHz	16 hours	24 hours	
103 kHz	15.00 - 02.00	08.00 - 22.00	
107 kHz	16 hours	24 hours	
Stereo	08.00 - 10.00	23.00 - 02.00	
	18.00 - 20.00	11.00 - 12.00	



DUBAI: UAE Radio TV Dubai 17775 cd. w/ pennant in 42 ds. v/s K.F. Fenner.(Eckman).  
11730, 11955, 15320 and 17865 f/d cd. w/ pennant in 24 ds.(Rugg).

ECUADOR: HCTB two f/d cds. in 54 ds.(MacHarg). 9720 and 11775 f/d  
"Castle of Ingapirca" cd. in 35 ds.(Zobro). Radio Nacional del Ecuador 11960 f/d "Atracciones Turisticas"  
cd. in 1 yr. for a SP rpt. and ms. v/s Gonzalo Portugal P., Director.(Wilkins). Escuelas Radiofonicas Populares del Ecuador 5015 f/d prepared cd. w/ personal ltr. in 31 ds. for a SP rpt. and ms. v/s Patricio Munoz Jacome, Director Ejecutivo de ERPE.(D'Angelo-PA).

EGYPT: Radio Cairo 9475 f/d "Mosque" cd. in 46 ds.(Washburn).  
ENGLAND: VOA Wooferton 15205 f/d cd. in 2 wks.(Eckert-PA). 6040 f/d cd. in 28 ds.(rugg).

EQUATORIAL GUINEA: Radio Africa 9553 f/d personal ltr. from the Assemblies of Yahweh after 3 f/up rpts. v/s Elder Jacob O. Meyer.(Sams-KS). cd. via Pierce Communications in California in 1 wk.(Sams-KS).

EUROPEAN RUSSIA: Radio Station Peace and Progress 9790 and 15470 f/d cds. in 1 mo.(Barto). Radio Moscow 5905 via Kazan f/d cd. in 106 ds.(Eckman). 7330 via Serpukhov f/d "Rowing Canal" cd. in 48 ds.(Rugg). 11850 via Kingisepp f/d cd. in 42 ds.(Rigas). 9580 via Blagoveshchensk f/d "Lenin Library" cd. in 45 ds.(Eckman). 4810 via Moscow f/d cd. in 45 ds.(Eckman-CA). 13645 Radio Vilnius via Ulyanovsk(?) w/ plain white cd. in 106 ds.(Eckman-CA).

FERNANDO POO: Radio Nacional de Guinea Ecuatorial 6249.5 f/d prepared \* cd. in 85 ds. for a SP rpt. v/s Hermangildo Moliko, Jefe Tecnico.

FRANCE: Radio France International 15365 f/d "Paris at Night" cd. w/ schedule in 25 ds. for 1 IRC.(Morby-NY). (Wilkins).

GABON: Swiss Radio International 9810 via Moyabi f/d cd. in 3 mo.(Barto).

GERMANY, DEMOCRATIC REP. OF: Radio Berlin International 15240 f/d "Serie Berlin 3" cd. in 55 ds.(Hazzard-PA). 9560 f/d cd. in 39 ds.(Eckman).

GERMANY, FEDERAL REP. OF: Deutsche Welle 15185 via Wertachtal cd. in 32 ds.(Darling-PNG). VOA 6025 via Wertachtal f/d cd. in 49 ds.(Eckman-CA).

GHANA: Ghana Broadcasting Corporation 4915 f/d cd. w/ schedule in 62 ds. for a taped rpt., \$1.00 and 1 IRC.(Washburn-ME).

GREECE: Voice of Greece 9395 "Ancient Greek Monument" cd. in 54 ds.(Darling).

GUAM: KSDA 9465 f/d cd. in 2 mo.(Barto). 11965 f/d cd. w/ sticker and pennant in 66 ds. (Cichorek-NJ). same in 51 ds. w/ sticker and pennant.(Archer-NC).

GUATEMALA: Radio Buenas Nuevas TGM1 4800 n/d mimeographed ltr. in 31 ds. Station says that their programming is in the Mam language but they do ID in SP. The station is owned by the Iglesia Evangelica Nacional (National Evangelical Church). (MacHarg).

GUINEA: Radiodiffusion Nationale 15307 n/d personal handwritten ltr. in 7 wks. for a FR rpt. and \$1.00. v/s G. Dialay, Sports Journalist. Thanks to David Potter in DXSF for the v/s. (Sams-KS).

HOLLAND: Radio Nederland 9895 via Flevo f/d "Prince Claus" cd. in 48 ds.(Eckman).

HONDURAS: La Voz de la Mosquitia 4910 f/d cd. w/ station stamp in 6 mo. for

a SP rpt. v/s Jose Iordan Brown, Locutor.(Eckert-PA). f/d B&W paper pennant in 18 ds. w/ schedule. v/s Sammy Simpson. (Cichorek). n/d ltr. w/ pennant in 72 ds. for 1 IRC.(MacHarg).

HRVC 4820 f/d ltr. w/ pennant in 1 mo. for \$1.00(Cichorek).

HONG KONG: BBC 15435 my report was returned stamped "BBC East Asia Relay Co. Ltd." and signed "verified" for a direct report and a SASE.(Darling).

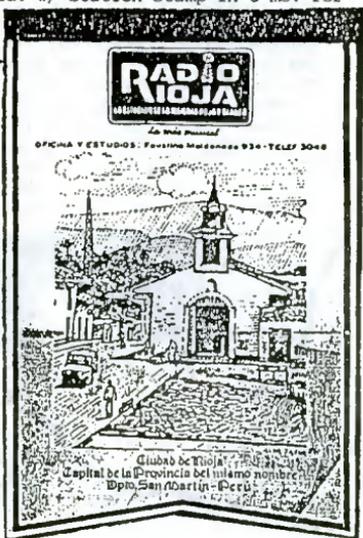
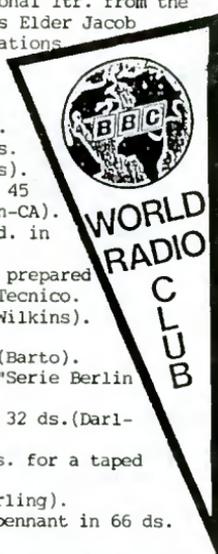
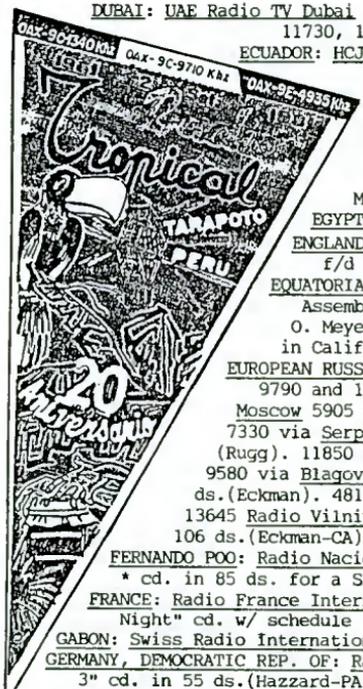
HUNGARY: Radio Budapest 9835 f/d "DX Club" cd. in 38 ds.(Eckman-CA).

ICELAND: ISBS 9978 f/d cd. in 6 wks. for ms. Schedule rcvd.(Sams-KS).

INDIA: All India Radio 3315 via Bhopal cd. w/ \* schedule via Delhi in 50 ds. for 1 IRC.(Darling). 4860 via Delhi cd. w/ schedule in 50 ds. for 1 IRC.(Darling-PNG). (Eckman-CA).

ISRAEL: Kol Israel 9435 cd. w/ schedule in 34 ds.  
ITALY: RAI 11905 f/d "Painting by Carlos Carra" cd. in 53 ds.(Topoleski-PA).

IVORY COAST: Radio Abidjan 4940 p/d ltr. in 60 ds. \* for a FR rpt. and ms. after a f/up rpt.(Foley-NY).

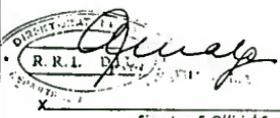




**QSL**  
Verification Card

Station RADIO REPUBLIK INDONESIA - Dili  
To Rowland Archer

This is to confirm your reception of our transmission dated  
19 Feb, 1988 1013-1102 hours UTC on a  
frequency of 3306 kHz. with \_\_\_\_\_ watts.  
90.741 meters

  
Signature & Official Seal

Moreno Romero, Gerente. My first QSL from Peru!! (Brouillette-IL). p/d cd. in 1 1/2 mo. for a SP rpt. and ms. (Palmerheim). Radio Onda Azul 4800 p/d cd. in 60 ds. for a SP rpt. and ms. v/s Mauricio Rodriguez R., Jefe de Programacion. (Wilkins-CO). Radio Sensacion 6792.6 p/d ltr. in 3 mo. for a SP rpt. Letterhead gives station name as Radio Sensacion de la Provincia de Huancabamba. v/s (s) Duber Mauriola Laban, Gustavo Salazar Suarez and Genaro Coronado Elias. (Barto-CT).

**QSL**  
Verification Card

Station RADIO REPUBLIK INDONESIA - PEKANBARU  
To Rowland Archer, WPE2QFG

This is to confirm your reception of our transmission dated  
19 FEBRUARY 1988 19.00-20.05 hours UTC on a  
frequency of 5894 kHz. with \_\_\_\_\_ watts.  
50,899 meters galombang

  
Signature & Official Seal

from Pierce International Communications, Inc., 10201 Torre Ave., Suite 320, Cupertino, CA 95014. This in 62 ds. for 1 IRC. Also rcvd. full schedule for Radio Africa on 9555. (Darling).

ROMANIA: Radio Bucharest 6155 f/d cd. in 109 ds. (Levison). 11810 f/d cd. in 68 ds. (Rugg).  
SALPAN: KYOI 15405 rcvd. a non-verie ltr. from Boston stating that the station is unable to QSL. They wouldn't even return my prepared cd. (Rugg-QUE).

SEYCHELLES: Far East Broadcasting Association 11870 f/d yellow "Map" cd. in 64 ds. w/ schedule for 3 IRCs. v/s Pearl Metcalfe, QSL Secretary. (Brouillette-IL).

SOUTH AFRICA: Radio Orion 3955 f/d "SABC" cd. w/ Radio Orion on back in 23 ds. for \$1.00 (Morby-NY).

SPAIN: Radio Exterior de Espana 9630 f/d "Centennial of the Discovery of America - EXPO 92" cd. in 31 ds. (Hazzard). f/d "Queen Isabel" cd. in 7 wks. (Foell-LA). same cd. in 40 ds. (Zobro). f/d "Spanish Festival" cd. in 49 ds. for 1 IRC. (Morby).

SPANISH MOROCCO: Radio Medi Un 9575 f/d cd. w/ form ltr, schedule and sticker in 144 ds. for a FR rpt. and a prepared cd. v/s J. Dryk, Responsable Haute Frequence. (Archer). f/d cd. w/ schedule in 13 mo. (Bishop-FL). f/d cd. w/ n/d form ltr. in 136 ds. for a FR rpt. and 1 IRC. (D'Angelo)

SULAWESI: RRI Kendari 4000 rcvd. my prepared ltr. back in 2 1/2 mo. for an IN rpt. and ms. v/s H. Sjahbuddin. (Sams-KS). RRI Palu 3960 prepared ltr. w/ 2 page personal ltr. in 22 ds. for an IN rpt. and ms. v/s Elrick C. Johannes, B.A., Kepala. Also rcvd. 4 photos, 2 business cards, and a station sticker. (Allen-OK).

NORWAY: Radio Norway 15310 f/d "Wooden Church" cd. w/ sticker and schedule in 41 ds. (Eckman). same cd. w/ sticker in 17 ds. (Hazzard-PA). in 37 ds. w/ sticker and schedule. (Zobro).

PAKISTAN: Radio Pakistan 4780 via Islamabad f/d cd. in 41 ds. after sending back the cd. for the site. (Rigas).

PAPUA NEW GUINEA: Radio Gulf 3245 p/d ltr. in 9 wks. for 2 IRCs. v/s Timothy Akia, Assistant \* Manager. (Palmerheim). Radio Enga 2410 p/d ltr. in 1 1/2 mo. for 2 IRCs. v/s Gabriel Paiao. (Palmerheim).

PARAGUAY: Radio Nacional 9735 p/d ltr. w/ travel folder in 88 ds. for a SP rpt., ms. and 2 IRCs. v/s Carlos Montaner, Jefe Tecnico. (Michalenska).

PERU: Radio Ancash 4991 p/d "Mountain Sunrise" cd. in 84 ds. for a SP rpt. and ms. v/s Armando in 84 ds. for Peru!! (Brouillette-IL). p/d cd. in 1 1/2 mo.

PHILIPPINES: Deutsche Welle 9690 via Radio Veritas \* Asia f/d cd. w/ site in 43 ds. (Buer-FL). cd. in 44 ds. (Darling-PNG). Radio Veritas Asia 15330 "Burmese Cart" cd. w/ newsletter and a 12th Anniversary station pennant in 1 mo. for \$1.00 (Eckman). Far East Broadcasting Co. 11850 f/d "Sailing in Southern Philippines" cd. w/ schedule in 73 ds. (Cichorek). VOA 17740, 15185 and 11775 via Porot/Tinang cds. in 27 ds. (Darling).

POLAND: Radio Polonia 7270 f/d cd. w/ sticker and schedule in 139 ds. (Levison).

PORTUGAL: Radio Liberty 15445 via Gloria n/d "Map" \* cd. in 5 ds. (Topoleski). Radio Free Afghanistan 11815 via RFE/RL f/d "RFE" and "RFA" map cds. in 50 ds. (Gavaras-MN).

RIO MUNI: Radio Nacional 6250 via Malabo Report was sent to Malabo but one f/d cd. and one p/d cd.

was received by separate mail on the same day

sent to Malabo but one f/d cd. and one p/d cd.

was received by separate mail on the same day

sent to Malabo but one f/d cd. and one p/d cd.

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sent to Malabo but one f/d cd. and one p/d cd.

was received by separate mail on the same day



MINISTRY OF INFORMATION AND BROADCASTING  
P.O. BOX 5144  
KAMPALA, UGANDA  
15th September, 1987.

Dear Rowland,

After receiving your station log, I am happy to confirm to you your reception of our service of Radio Uganda on 4th October 1987, from 0205-0300 hrs GMT on a frequency of 3,325 KHz.

This is the normal service to North America which is also sent until the same service is fully rehabilitated.

As you mentioned you can get our News Service on 4716 KHz and 5046 KHz on Sun & All Uganda Time.

Regular reception reports are our pleasure as they help us to improve our programme knowing that some people outside our Country are listening to us. We have confirmed several reports from all over the World, the biggest number being from Europe and America including USA and Canada.

Dear listener I have not sent you a QSL Card because we do not have that system. We use confirmation letters. I hope this will be enough.

I wish you more enjoyable listening.

Yours sincerely,  
  
F. B. Banda  
Director of Information and Broadcasting  
The Parliament Building  
KAMPALA, UGANDA  
RADIO UGANDA

**SWEDEN:** Radio Sweden 11705 f/d "Midnight Sun" cd. in 11 ds. for 2 IRCs. v/s A. Sjoblom.(Brouillette). 11705 and 9645 f/d cd. w/ schedule in 10 ds. (Zobro-MI). 15345 f/d "50th year Anniversary" cd. w/ schedule in 11 ds. for 1 IRC.(Hazzard-PA). Sveriges Riksradio 21555 f/d cd. w/ sticker and schedule in 16 ds.(Cichorek-NJ).

**SWITZERLAND:** Swiss Radio International 15570 f/d cd. in 17 ds. for 1 IRC.(Morby). 17830 f/d "Swiss Shortwave" cd. in 18 ds. for 1 IRC.(Hazzard-PA). 5965, 9885 and 12035 f/d cd. in 2 1/2 mo.(Barto-CT).

**TAIWAN:** Voice of Asia 7445 f/d "Temple of the Emerald Buddha" cd. (which is in Bangkok) cd. w/ calendar in 40 ds. for 2 IRCs. v/s Cathy Wang.(Archer-NC). Voice of Free China 9955 and 11885 f/d cd. in 7 wks.(Barto-CT).

**TUNISIA:** Radiodiffusion Tunisienne 7310 via Sfax n/d ltr. w/ site in 331 ds. Schedule and stamps rcvd. v/s Mongi Chaffai, Director General.(Ponder-LA).

**TURKEY:** Voice of Turkey 9445 f/d cd. w/ sticker, pennant and travel brochures in 26 ds. for 3 IRCs. (michalenka). Turkish State Meteorological Service 6900 p/d form ltr. in 58 ds. for 1 IRC. v/s M. Cemil Ozgul, Director General.(D'Angelo).

**UGANDA:** Radio Uganda 5027 f/d prepared cd. w/ f/d ltr. in 91 ds. after several f/up rpts. for 2 IRCs. and a SASE. v/s L.B. Lubega, Senior Engineer. A request for "contributions" was enclosed. (Davis-NM)...I have also rcvd. this "request for Contributions" ltr. It is quite something and probably a good topic for a later discussion.

Sounds like Ghana from many years ago...Sam

**UKRAINE SSR:** Radio Kiev 7165 and 11790 f/d "Ceramics and Sculpture" cd. in 67 ds.(Levison-PA). 7165 f/d "Monument to Alexander Pushkin" cd. in 65 ds. (Levison). Radio Moscow 9720 via

DEPARTEMEN PENGANGKUTAN R.I.  
BUREAU GENERAL RADIO TELEVISION FILM  
RRI NUSANTARA II  
Jalan Anson Jendral No. 4  
TOYOYAKARTA

Telepon : 5745, 5746, 5747. Faks No. : 51201  
Tembak No. : 18

Alamat : TOYOYAKARTA 26 MARCH 1966.

Langkah :  
Formulir :

Dear Rowland Archer,  
Thank you very much for kindly report on 15th February 1966 at 1900 - 18.38 West Indonesian Time.  
Your report were right. That was our RRI Yogyakarta. We will be glad if you would like send me regularly about your receive of our Station Broadcast.  
Here with we need you the frequencies of our program. We hope you are enjoy and hope you can meet us in Yogyakarta.  
May be you know, that Yogyakarta 600 km eastern of Jakarta and culture town and many things to see like Borobudur Temple (2,40 km from Yogyakarta) etc.

On behalf of Station Manager  
Program Director,  
R. S. I.  
TOYO

Vinnitsa f/d "Lenin Library" cd. in 45 ds.(D'angelo-PA). 7150 via Lvov f/d "Lenin Library" cd. in 45 ds. (D'Angelo). 7180 via Simferopol f/d cd. in 45 ds.(D'Angelo). 7320 via Starobelsk f/d "Rowing Canal" cd. in 55 ds.(Rugg).

7110 and 7310 via Ivano-Frankovsk f/d "Lenin Library" cd. in 45 ds.(D'Angelo-PA).

**HRXK**

LA VOZ DE LA MOSQUITIA

4910 kHz via Archer

PUERTO LEMPIRA, HONDURAS

CRISTO PARA TODOS

**USA:** WMLK 9455 f/d form ltr. w/ station information in 38 ds.(Eckman-CA). KUSW

9850 f/d cd. in 14 ds. w/ sticker and schedule.(Hazzard-PA). 15580 f/d "From the West to the World" cd. w/ schedule in 16 ds. for ms.(Morby-NY). 17715 f/d cd. in 30 ds. (Washburn-ME). Voice of Free China 5985 via WYFR f/d "Chu Tse Shan Relay and Pali Relay Station" cd. in 58 ds. w/ stickers and travel brochures.(Levison). WHRI 7355 f/d "South American" cd. in 6 mo.(Eckman-CA). f/d cd. in 147 ds. for ms.(Rugg). 7400 f/d "Logo" cd. in 166 ds. for ms.(Topoleski-PA). 9770 f/d "Logo" cd. in 116 ds. for ms. (Topoleski). Radio Marti 11935 via VOA "Jose Marti" cd. in 100 ds. w/ schedules. (Rubin-NY). 9525 via Bethany same cd. w/ sticker and schedule in 45 ds.(Eckman). 2 f/d cds. w/ schedules in 107 ds.(Bisshop-FL). KCEI 15280 f/d "San Francisco" cd. in 35 ds. w/ sticker and informational brochures for ms.(Topoleski-PA). KCBI 11735 f/d plain paper cd. in 54 ds. for ms.(Eckman). VOA 15410 via Greenville f/d "Statue of Liberty" cd. in 9 ds.(Topoleski). 17785 f/d cd. in 27 ds.(Darling). 11580 f/d "Liberty" cd. in 26 ds.(Washburn-ME). 17800 via Bethany f/d cd. in 27 ds.(Darling-PNG). WCSN 21640 via Scott's Corners n/d response cd. in 32 ds. This QSL sets a "shortest distance" record for me as the transmitter is only 16 miles from my location.(Washburn-ME).

**USSR:** Radio Magallanes 9640 f/d cd. in 47 ds. w/ schedule for a SP rpt.(D'Angelo-PA). Radio Moscow 13790 "The Bolshoi Theatre" cd. in 59 ds.(Hazzard-PA).

DEPARTEMEN PENGANGKUTAN R.I.  
**RADIO REPUBLIK INDONESIA**  
STASION REGIONAL I PEKANBARU  
Jl. Jend. Sudirman No. 440 Telp. 23661-23662-23693 Tembak No. 51

Pekanbaru, 23 Maret 1966.

Nomor : 24. 77-2/1966.  
M a l : Laporan penerimaan siaran.

Kepada Yth,  
Rowland Archer, WPK2FG  
5524 Hawthorne Park  
Raleigh NC 27612  
UNITED STATES OF AMERICA.

Dengan hormat,  
Kami senang dan gembira sekali menerima surat anda ter-tanggal, 20 Februari 1966, tentang laporan penerimaan siaran RRI Regional I Pekanbaru yang anda monitor pada pukul 19.00 sampai dengan 20.05 Waktu Indonesia Barat.

Laporan penerimaan siaran tersebut adalah benar, dan untuk laporan selanjutnya dari anda tetap kami tunggu.

Untuk anda ketahui siaran RRI Regional I Pekanbaru yang anda monitor tersebut adalah Pemancar SW frekuensi 5095 KHz dengan daya 10 Kw, dan jam siarannya pukul 09.00 sampai dengan 09.00 dan pukul 19.30 sampai dengan 20.00 Waktu Indonesia Barat.

Atas perhatian anda terhadap program siaran kami diucapkan terimakasih.

QSL

Certificado de Sintonia

Emisora LA VOZ DE LA MOSQUITIA

A S. Rowland Archer

Muchas gracias por su informe de recepcion. Tenemos el gusto de confirmar su control de nuestra emision en 4910.4 kHz. de fecha 24 de FEBRERO, 1988 a las 7:23-8:40 horas de HONDURAS con        vatios de potencia.

via Rowland Archer



¡uma y sello oficial

USSR: Radiostansiya Rodina 12070 f/d red,white and blue "Logo" cd. in 67 ds.(Cichorek-NJ).

UZBEK SSR: Radio Tashkent 11785 f/d "Hammer and Sickle" cd. in 45 ds.(Washburn-ME).

VANUATU: Radio Vanuatu 7260 "Slit Gong and Map" cd. in 1 mo. for a FR rpt. and ms.(Eckman).

VATICAN: Radio Vatican 9605 f/d "Antenna" cd. in 49 ds. for 1 IRC.(Eckman). f/d "Transmitter Center" cd. in 89 ds.(Topoleski-PA). 6150 f/d "Staff During Papal Journey" cd. in 62 ds.(Morby).

VENEZUELA: Radio Rumbos 9660 f/d "View of Caracas" cd. in 133 ds. for a SP rpt. and 2 IRCs.(Topoleski)

WEST IRIAN: RRI Biak 5500 f/d ltr. in EG after 7 f/up rpts. in IN for ms. v/s Mughtar Yuskaputera, BA. the v/s requests radio magazines.(Wilkins-CO).

RRI Serui 4607 p/d ltr. in 56 ds. for an IN rpt. and ms. v/s Agus Raunasi, Kepala Seksi Siaran.

\* (Wilkins-CO). RRI Wamena 4871 f/d paper "Logo" cd.

in 35 ds. for an IN rpt. and ms. v/s Yoswa Kumurawak, Pendnggung Jawa Pemancar.(Wilkins-CO). RRI Nabire 5055 p/d ltr. w/ personal ltr. in 21 ds. for an IN rpt. and ms. v/s Ismail S., Kepala Seksi Siaran.(Allen-OK).

YUGOSLAVIA: Radio Yugoslavia 7240 f/d "Ruins at Stobi" cd. in 15 mo. after I sent 5 f/up rpts.(Eckert).

Late Arrivals:

BRASIL: Radio Bras 11745 f/d "Aerial View of Rio" cd. in 90 ds. w/ schedule and sticker for \$1.00 v/s Nara Ferreira, Corresponding

\* Service.(Kacir-MI). Deutsche Welle 15185 via RadioBras f/d cd. w/ site in 43 ds.(Buer-FL).

CANADA: Radio Canada International 9755 f/d "40th Anniversary" cd. in 13 ds.(Kacir).

HUNGARY: Radio Budapest 9835 via Jaszbereny f/d "Costume" cd. in 63 ds.(Kacir-MI).

RIO MUNI: Radio Africa 9552.5 f/d prepared cd. from Rev. Paul E. Smith of the "Old Country Church" in 7 ds. (Bishop-FL).

SOUTH AFRICA: Radio RSA 9580 f/d "Pilgrim's Rest" cd. in 1 mo. (Kacir).

USA: KUSW 15225 f/d "Logo" cd. w/ schedule and sticker in 36 ds. for ms.(Kacir).

**RADIO AFRICA**  
**P.O. BOX 851**  
**MALABO**  
**EQUATORIAL GUINEA**

Q  
S  
L

Edward Kusala  
2117-10 A STREET  
CRADOCK ALBERTA  
TOR ONTO  
CANADA

**NATIONAL BROADCASTING**  
**COMMISSION OF PAPUA NEW GUINEA**  
**RADIO ENGA - VOICE OF THE MOUNTAIN**

Phone 371080 Cable: NATE-CAST Telex: NE3204

Rel: FT/mho

P.O. Box 300  
WABAG,  
Enga Province,  
Papua New Guinea.

20th April, 1988

ROWLAND ARCHER, WPE 2096  
3521 HAWTHORNE PARK  
BALDWIN, ME 02812  
USA.

Dear Sir,

RE: RECEPTION REPORT

I would like to acknowledge receipt of your reception report of this station dated 17/02/88. Your reception was on 2410 KHZ or 2418 KHZ on the 120 meter band short wave.

After checking through our logs here we have confirmed that you in fact have tuned into this station. Therefore we of this broadcasting station are verifying your report with this letter since we don't have any QSL card or seal.

We transmit on the frequency of 2410 KHz on the short wave band of 120 meters as you have reported. Our transmitter is a A.N.A. 8112 model with a power output of 2.5 kilowatts. Our aerial system is a Triadic Array System pointing towards the North-East and South-West position.

Our transmission caters for an approximate population of 300,000, who are mostly subsistence farmers. Therefore our programme spectrum covers Health Education, Religion and Agriculture as the basis. Our broadcasting times are from 2000 - 2200 and 0700 - 1400 G.M.T.

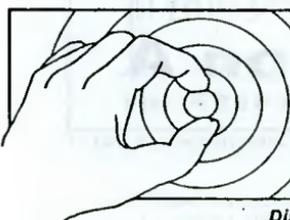
Although our broadcasts are not directed to you, we of this station are quite proud to know that you could receive our transmission this far. And hope we would get some more such reports from your side of the world.

Yours Sincerely,

TECHNICIAN  
Edwin Lopez  
"VOICE OF THE MOUNTAIN"

That's it for this time around. I hope everyone has a great summer and that the conditions improve. The static is tremendous!

Best of QSLing....Sam.



# FRENDX LOG REPORTERS

Distributing Editor: John F. Henault, 55 Lincoln St., Abington, MA 02351

Guest Editor: John M. Kapinos  
86 S. Quinsigamond Ave.  
Shrewsbury, MA 01545

Well, here we are for another month. We have good news in that John Henault has been released from the hospital and is recuperating at home. It'll be a couple of more months before John is able to resume his NASWA chores, so kindly send all material to me until we advise otherwise.

The following folks helped contribute to the July FRENDX:

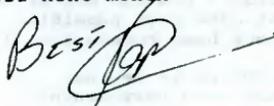
Julian ANDERSON, Buenos Aires, ARGENTINA: Icom R71A  
Rowland ARCHER, Raleigh, NC: JRC NRD 515  
Gabriel BARRERA: Buenos Aires, Argentina: Icom R71D  
Ed BERKELEY, Tucson, AZ: Sony ICF 2010  
Paul BUER, Miami, FL: Drake SPR4/FS4  
Richard D'ANGELO, Wyomissing, PA  
Tim DAVISSON, Cuyahoga Falls, OH: Drake SPR4  
Peter DILLON, serving with the US Armed Forces in GREECE: Radio Shack DX400  
Richard ECKMAN, San Jose, CA: Panasonic RF4900, Sony ICF 2010  
Kurt ENKENHUS, Silver Spring, MD: JRC NRD515  
Rufus JORDAN, Pittsburg, PA  
Harold LEVISON, Philadelphia, PA: Icom R70  
Bryan PRICE, Louisville, KY: Allied SX 190, Radio Shack DX300  
Wally RHYNE, Gastonia, NC  
Roland SHULZE, Stuttgart, WEST GERMANY, DXing in SRI LANKA and the  
PHILIPPINES: Kenwood R 5000  
John TOPOLESKI, Philadelphia, PA: Panasonic RF 2900  
Ron TROTTO: St. Cloud, FL  
John TUCHSCHERER, Neehah, WI: Icom R 70, Yaesu FRG 7700  
Andy WALLACE, Lowell, MA (sorry Andy, I forgot what rig you're using)  
Terry WEINHOLD, Denver, PA: Collins R 390A  
Dr. Richard WOOD, Hilo, HI: Kenwood R 1000, Drake SPR4

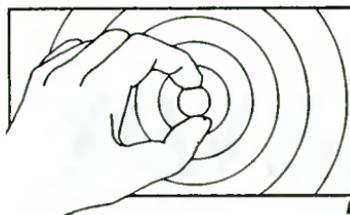
and me, John M. KAPINOS, Shrewsbury, MA: Kenwood R 2000, Sony ICF 2001 and 2010, Hallicrafters S38E, 2 cats, one wife, one case of Miller Lite, trying to find the manual that might show me where the on/off switch is located on any or all of the radios.

Our apologies to any who were inconvenienced by the temporary abrupt change in Editors. We've noticed that mail from the Mid West, especially Ohio and Indiana, is taking 71 full days to reach here. Obviously the US Postal Service is routing this mail via Pyongyang.

John Henault asked me to pass on his thanks to all those who were so kind to send him greetings. They were, and will continue to be, greatly appreciated.

Till next month





# LOG REPORT

## section A

2000 to 4899 kHz

Editor: Mike Harris, P.O. Box 294, Pickerington, OH 43147

- 2472 INDONESIA. RRI Purwokerto. 1543. OM/YL discussion. (2/6 Wood-HI)
- 3205 INDONESIA. RRI Bandung. 1603. Relay Jakarta nx. (3/6 Wood-HI)
- 3215 INDONESIA. RRI Manado. 1113. Local ID. (2/6 Wood-HI)
- 3277 INDONESIA. RRI Jakarta. 1100. News/music. (2/6 Wood-HI)
- 3288 MADAGASCAR. Antanamarivo. 1600 w/ mx, item on the Pres. of the Seychelles, mx between items. (3/6 Wood-HI)
- 3300 GUATEMALA. R. Cultural. 0625. EZL mx and ID. (3/6 Eckman-CA); @ 0715 w/classical mx. (1/5 Price-KY)
- 3330 RWANDA. RW. 0259-0332. Almost reasonable w/Datong filter. OM/YL with pop's and talk, all in FF. (30/5 Archer-NC)
- 3340 PERU. R. Altura. 0414-0422. SS. OA vocals, ID @ 0416, more mx and more ID's. (15/5 D'Angelo-PA)
- 3345 INDONESIA. RRI Ternate. 1115. Local nx of Ternate. (2/6 Wood-HI)
- 3365 NEW CALEDONIA. RFO Noumea. 1545. FF. DJ show //7170. (2/6 Wood-HI)
- 3381 ECUADOR. R. Iris. SS. 1005-1035. Several clear ID's. (3/5 Archer)
- 3905 INDONESIA. RRI Banda Aceh. 1605. Relay Jakarta nx //3205. (3/6 Wood)
- 3935 INDONESIA. RRI Semarang. 1605 w/ relay of Jakarta nx. (3/6 Wood-HI)
- 3958 FALKLAND ISLANDS. FIBS. 0703. EE. Pop requests, sports. (19/5 Wood)
- 3990 LIBERIA. VOA. 0635. EE. Indy 500 report, news. (30/5 Trotto-FL)
- 4002 INDONESIA. R. Padang (Sumatra). 1034-1100. Choral & EZL music, some talk. (30/5 Archer-NC)
- 4649 BOLIVIA. R. Santa Ana. 0136-0219. Long ballads, ID. (20/5 Archer-NC)
- 4760 SWAZILAND. TWR. 0422-0436. GG. Sermon by OM, into choral mx, ID and more mx. (15/5 D'Angelo-PA); @ 0427 w/ GG programme and then into EE pgm at 0430. (9/5 Wood-HI)
- 4770 VENEZUELA. R. Mundial Bolivar. 0100-0117. SS. Breezy talk by OM, frequent ment's of Bolivar, etc. (13/5 Jordan-PA)
- 4795 ECUADOR. LV de los Caras. 0205-0235. Romantic music, reverb ID by deep voiced OM. (7/5 Archer-NC)
- 4796 BOLIVIA. R. Nueva America. 0932-1015. Pop and folk music, TC's and ID's by OM. (22/5 Archer-NC)
- 4805 BRASIL. RD Amazonas. 0957-1034. Pop's, ID. (8/5 Archer-NC)
- 4810 PERU. R. San Martin. 0952. Andean music, ad's, ID. (20/4 Berkeley)
- 4820 ECUADOR. R. Paz y Bien. 0941-1027. ID by OM. (17/5 Archer-NC)
- 4821 PERU. R. Atahualpa. 1022-1045. Many ID's, TC's. Fade by 1045 with some QRM. (6/5 Archer-NC)
- 4830 VENEZUELA. R. Tachira. 0021-0106. Lively latin vocals, numerous ID's and TC's. (5/6 Enkenhus-MD)
- 4840 VENEZUELA. R. Valera. 0932-1000. Pop's, ID's, Promo. (28/5 Archer-NC)
- 4850 VENEZUELA. R. Capital. 1024-1054. Choral pgm, easy ID's. (30/5 Archer)
- 4851 ECUADOR. R. Luz y Vida. 0359-0456. HC pops, ID. (30/5 Archer-NC)
- 4865 COLOMBIA. LV del Cinaruco. 0204-0244. Lively pops, ID "...14 minutos en La Voz del Cinaruco de CARACOL... la Voz del Cinaruco, 4865 kca onda corta, de banda de 60 metros...". (31/5 Archer-NC)
- 4870 ECUADOR. R. Rio Amazonas. 0233-0302. Pops. (28/5 Archer-NC)
- 4880 BRASIL. R. Diff. Acreana. 0940-1020. ZY pops, echo ID, organ music, then ID again. (31/5 Archer-NC)
- 4885 KENYA. VOK. 1600. ID, music. (18/5 Wood-HI)--an oldie but goodie.
- 4890 SENEGAL. RDS. 0650-0725. FF. Talk, news. (4/5 Price-KY)
- 4895 COLOMBIA. LV del Rio Arauca. 0908-1010. Strong co-channel QRM from R. Bare. full ID. (19/5 Archer-NC); @ 0105 w/ talks and echo effects w/ OM anncr. (21/5 Jordan-PA); @ 0252-0404 w/ 2 clear ID's and lively LA music. (15/5 Tucheherer-WI)
- 4980 VENEZUELA. Ecos del Torbes. 0040-0100. SS. OM w/ DJ chatter and ID's, echo, etc. (13/5 Jordan-PA)

Thanks to all who contributed this month, and especially Rowland Archer and Dr. George Wood, without whom, this column would not have been possible. Greetings also go out to John Henault, who is now back home recovering!!!!

Things will be tight next month as we'll be at ANARCON-88 in Irvine, California so please get your contributions in to Kap ASAP next month!!!

73 and CHEERS!!!!!!

Mike



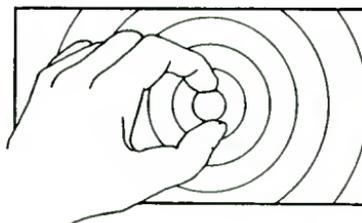
# LOG REPORTS

## section B

4900 to 6199 kHz

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

- 4910 HONDURAS LV de la Mosquitia, fair at 0050 6-2, vocals, talk, SP and Indian lang, ID at 0101, EG and SP songs, relig.mx, IDs to 0302, 0303\* (Jordan).
- 4915 GHANA Accra to 2303\* 6-4 in lang, EG, Sat Nite Special, hi-life and Dixieland, ID 2245, EG nx, evening devotions 2257, ID, good sig (Enkenhus-MD).
- 4920 AUSTRALIA ABC-Brisbane at 1150 5-4, lite mx, pips, nx at 1200, poor (Price-KY).
- 4932 INDONESIA RRI-Surakarta at 1558 6-5 with local ID, anmt and into Djakarta nx relay at 1600, nx 1600, good signal (Wood-HI).
- 4934 PERU R. Tropical, 0250-0305 5-13, mix of OA vocals and EG rock, nice ID at 0258, fair signal overall (D'Angelo-PA); Andean mx at 0956, talk, local mentions (Berkeley).
- 4940 IVORY COAST Abidjan, mx, talk by man, to 2255 (Weinhold-PA).
- 4945 BRAZIL R. Nacional Porto Velho, net nx at 0302 5-20, IDs, overtaking the usually dominant CARACOL Colombian; poor sig overall (D'Angelo-PA).
- 4955 BRAZIL R. Marajoara, 0219 5-17 with series of vocals to ID and ad string at 0228, frequent TCs between songs, long talk feature, nx, brief s/off anmt, no anthem, 0300\* (D'Angelo); excellent at 0855 tune-in, faded considerably by 0925 tune-out, full ID hrd, TCs, 5-31 (Archer-NC).
- 4976 UGANDA Kampala at 0336 5-28 with vernac nx, EG anmt 0340, EZ instrumentals to 0345, then ID and long vernacular talk; fair sig (D'Angelo-PA).
- 4990 ECUADOR R. Bahai, drama to 0046 5-5, continuous SP and EG IDs, mx bridges, requested rpts to Otavalo POB; poor-fair at best, fading up with a few wrds at times (Archer-NC).
- 4991 PERU R. Ancash, SP 1012-1042 5-24, ID in passing at 1018, anncr, ad string (Archer-NC).
- 4995.8 PERU R. Andina at 0935-1009 5-24, nice OA mx, TCs, ID 1008, mentions of Huancayo, fading begins 1005 (Archer-NC); 0950 5-6 with OA mx, ads, ID 1005, gud (Berkeley).
- 5020 SOLOMON IS. Honiara at 1902-1910, EG, ID, 5-5 in the Philippines (Schulze-PHIL).
- 5040 ECUADOR LV del Upano, 0430 with MA, then full ID and s/off 5-23; three anthems played in all; finally off at 0437; good sig (Wood-HI).
- 5040 VENEZUELA R. Maturin, 0336-0359 on 5-22, fast-talking DJ dominating this freq from Upano, but Maturin's male anncr fading up occasionally, doorbells between presumed nx items to 0354 s/off anmt, nice clear "Radio Maturin" ID, choral NA to 0359\* (Archer-NC).
- 5055 ECUADOR R. Catolica Nacional, \*1027-1100 on 5-21, best IDed at s/on after "Ode to Joy" IS; man anncr with ID, anncy 880 MW, 5055 SW, 94.1 FM\*; NA and into religious program (Archer-NC).
- 5060.5 ECUADOR H. Nacional Progreso, with LA songs at good level but with static, NA at close, 0123-0206\* on 6-2 (Tuchscherer-WI).
- 5095 COLOMBIA R. Sutatenza, 0029-0106 on 5-21, lively SP vocals with accordian, frequent IDs with Coke ads, several ads at 0100 (Enkenhus-MD).
- 5960 CANADA R. Japan relayed by RCI, 0103 5-9 in EG, with nx, French elections, current affairs, Vietnam, DX Corner, good signal (Levison-PA).
- 5980 SABAH Kota Kinabalu, 1600 with Malayan ID on 6-5, national anthem, orchestra mx to 1602\*, good signal (Wood-HI).
- 5985 USA VoFC relayed by WYFR, EG at 0202, good signal on 5-7; nx, cmtry on students, talk on forest resources and industries (Levison-PA).
- 5995 AUSTRALIA RA in EG to PNG at 1255 on 5-4 (Price-KY).
- 6025 MALTA DW relay hrd 0540-0551 5-21, in AR, talk abt German business, ID, AR mx, world nx headlines, sked, relay xmtr ID, fair sig (Dillon-GREECE).
- 6070 CANADA CFRX, EG at 2007, John Denver mx, good sig (Price-KY).
- 6080 DODECANESE IS. VOA-Rhodes, IS 0329 5-5, fair in QRM, site per RMI (Eckman-CA).
- 6085 W.GERMANY Dayerischer Rundfunk, after DW-Antigua s/off 0545 and until VOA s/on 0600 on 6080, male DJ, German pops, ID 0600 (Wallace-MA).
- 6100 NICARAGUA Voice of Nic, EG nx 0647, 0656\*, good sig but YVTO QRM, 5-19 (D'Angelo-PA).
- 6116v COLOMBIA LV del Lano, 1005-1036 5-25, elaborate TCs, taped IDs, echo IDs, taxi ad, good clear audio, use USB to beat het (Archer-NC); 0117 5-13, talk, interviews (Jordan).
- 6117 PERU R. Union, 0700 5-24, beer commercial, LA mx, great sig with no QRM (Eckman-CA).
- 6120 CYPRUS BBC relay, 1700-1730 5-19 in AR, ID, TC, "Arnd the AR World," fair (Dillon-GREECE).
- 6120.5 NICARAGUA Tent. R. Zinicla, 1103-1132 5-21, teletype sounds between nx items, 1108 fanfares, UTC-6 TCs, many mentions of Nicaragua, bad Sackville-6120 QRM (Archer-NC).
- 6130 CANADA CHNX-Halifax, lite mx 0810, ads, IDs, best sig in a long time (Price-KY).
- 6135 POLAND Warsaw, EG at 2240 on 5-7, cmtry on workers strike (Weinhold-PA).
- 6155 AUSTRIA Vienna, hrd 0553-0605 on 5-21 in German, man with world nx, ID, sked, elevator mx, TC (Dillon-GREECE).
- 6180 CYPRUS BBC relay, EG 0605-0622 5-21, nx, correspondents' reports, British nx, fair sig (Dillon-GREECE). +++ See you in August; keep battling the QRM—JB.



# LOG REPORT

## section C

6200 to 11699 kHz

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

- 5995.2 PERU R.Melodia-Arequipa 0835-0840 SP 'usb' mx, SINPO-34443, (Anderson-ARG 4/23)
- 6020 MEXICO La U de Veracruz 1325 SP yl & om tk, clas. mx (JE-TX 6/20)
- 6030.4 CHILE R.Santa Maria 1105-1110 SP time, ID, 34433 (Anderson 4/11)
- 6045 MEXICO R.Universidad de San Luis Potosi \*1259-1346 SP NA, yl w/ sign on, 'Pomp & Circumstance' pgm ancmts, clas.mx (JE-TX 6/21)
- 6045.1 URUGUAY R. Libertad Sport 1035 SP pgm, 34443, (Anderson-ARG 4/14)
- 6055.2 PERU R.Continental 0910-0928 SP Criolla mx, QRM-unid, JP, ads from TV, 22442 (Anderson-ARG 4/14)
- 6079.8 CHILE R.Patagonia Chilena 1156 SP ID, time, 35433 (Anderson 4/11)
- 6139.8 URUGUAY R.Monte Carlo 1025-1030 SP time, ID, info, 54544, (Anderson-ARG 4/14)
- 6140.8 BOLIVIA R.Luis de Fuentes 1010-1030 SP mx.ads, 54444 (Anderson 6.155)
- 6.155 BOLIVIA R.Fides 0940-0946 SP 'usb' mx-Aymara, pgm'Contrapunto', 34443; //4845.2 (Anderson-ARG 4/23)
- 6160.4 ARGENTINA R.Malarque 1010-1035 SP wx.ID,freq, 54454 (Anderson)
- 6178.3 ARGENTINA R.Nac.-Mendoza 1110-1118 SP wx,time, SINPO-34433, (Anderson-ARG. 4/11)
- 6200.8 PERU LV de Huamanga 1045 SP ancmts, 25422 (Anderson-ARG 4/119)
- 6214 CLAND R.Quince de Septiembre 0026-0140 SP om w/pres. nx, tks, mx bridges, signal faded; (Jordan-PA 5/13)
- 6215p LEBANON King of Hope (p) 0410-0435 EG spiritual mx de World Mission R. yl ancr w/addr. p. w/ute QRM; (Wallace-MA)
- 6304.6 PERU R.Acari 0347-0402 Huaynos time,freq.,ID, (Barrera-ARG 5/1)
- 6550 LEBANON Vol 1715-1745 AR doorbell? yl,om /tl @ troop moevment and politics, ads; (Dillon-GRE 5/10)
- 6571.3 PERU R.Tacna 0402 SP LA mx, ID, mx; (Anderson-ARG 5/1)
- 6580 CLAND R. Musical Popular (t) 0225 SP mx, om/tk, (break) mx, ID, SIO-444 (Trotto-FL 5/28)
- 7125 GUINEA Rdiff. Nationale 0735 FR om tk, Afro. mx; (Price-KY 5/10)
- 7140 S.AFRICA-TRANSKEI Capital R. 0500 EG cig. comm., pop mx, int'l reviews, prices in Rand.'Why don't we do it in the road' played at traffic report; (Eckman-CA 5/25)
- 7155 ALBANIA RT 1510-1530 ALB tk, ID, story by om w/dramatic mx. f; (Dillon-GRE 5/21)
- 7170 NEW CALEDONIA RFO 0903 FR tk, ID,jazz mx; (Price-KY 4/28)/ 0956 -1039 FR jazz conf. w/live aud. time pips @1000 hrs. om w/nx, tk @Soviets leaving Afghanistan. jazz pgm cont. (Enkenhus-MD 5/18)
- 7205 ALBANIA RT 1531-1600 AR wld nx, ID 'Huna Tirana', comments, ALB mx. g. (Dillon-GRE 5/21)
- 7205 CYPRUS CBC via BBC 2220-2240 GR R. play, mx. g.,better than // 9635 which had co-chan Lisbon QRM; (Buer-FL 5/7)
- 7230 S.AFRICA R.Sud-Afrika 0534 AK nx, sing. commercials; (Eckman-CA)
- 7265 GERMANY.FR Sudwestfunk 0400-0500 GM time pips, chimes,ID by om, nx, sing. comm., mx. VOA QRM. (Wallace-MA)
- 7270 POLAND RP 2305-2330 EG nx, Week In Review, mx. f.(Topoleski-PA)
- 7275 S.KOREA KBS 1240 EG nx-beef imports; (Eckman-CA 6/4)
- 7285 S.AFRICA SABC 0625 AK ID, temp, mx, sports. g. (Wood-WI 5/31)
- 7355 USA R.Earth via WHRI \*0300 EG skits,mx, cmtry; (Eckman-CA 5/31)
- 7380 CLAND LV del CID 0740-0750 SP Salsamx, ID, RTTY QRM; f. (Price)
- 7445 TAIWAN V o Asia 1152 EG instr. mx, addr., (Eckman-CA 6/4)
- 7520 MEXICO R.Consentida 0201-0240 SP mx, ID's, (Tuchscherer-WI 5/30)

9440 CHINA,PR RB 1713-1730 AR mx, om ancr.,s/off,IS, faint jam pos. in background. (Dillon-GRE 5/11)

9445 TURKEY VoT 2200 EG (Weinhold-R-390A-PA 5/15)

9475 PAKISTAN RP 1315 AR yl ment. Pakistan, prayers. vg. // 11615, wk, 15606 g; (Eckman-CA 5/28)

9505.3 PERU R.Tacna 0934 Huaynos ancmts, ID. (Anderson-ARG 4/23)

9540 Venezuela R.Nac. 1156-1201 SP ancmt, nx. (Anderson-ARG 4/11)

9545 SOLOMON IS. SIBC 0603-0702 EG South Sea mx, island fisherman svc. ID'R. Happy Islands'. (Schulze-Philippines 4/15) \*Now I know why I have'nt heard from you. Please write. hi hi (ed.)

9550 INDONESIA RRI 0700 IN? IS, ID, Jakarta relay, mx, // 9740,11770, 11865. f. (Wood-HI? 5/21)

9553 EQ.GUINEA 2145-2215\* EG Rel.pgm 'Old Country Church'(Weinhold-PA 5/28)

9555 IRAQ RB 1700-1730 TK Q'ran recitation, yl w/ID, nx, mx (Dillon)

9555 ENGLAND RCI via Daventry 'Listener's Corner' pgm (Topoleski-Pa)

9555 S.AFRICA SABC 0530 AK ID, nx, g. (Wood-HI? 5/9)

9560 NORWAY RNI 0158-0200 EG IS, Norwegian pgm. (Topoleski-PA 6/1)

9575 SP.MOROCCO R. Medi-UN 2038 AR tk by yl & om. bad het. (Price-KY)

9630 UAE VoUAE 1707-1737 AR mx, yl/om ancrs, tk abt. dif. singers.// 5955,9595. f. (Dillon-Gre 5/18)

9635 SINGAPORE SBC 1045 CH yl w/TF, mx, time pips, ID. 343 (Trotto)

9635 CYPRUS CBC via BBC 2240-2245 GR mx, s/off & guitars. p to f w/ co-chan Lisbon QRM; (Buer-FL 5/7)

9655 CUBA RHC 0255-0310 SP/EG 'The stn that makes a difference', Billboard, intrnat'l nx. g. (Jordan-PA 5/22)

9655 PERU R. Nor Peruana 1152 SP under Thailand, paging someone, ID; vocal mx. bad mod on voice (Eckman-CA 5/28)

9655 THAILAND RT 1137 EG vocal mx, yl host, commercial for Thai food fair. ID-'This is HSK9, the ext. svc. of R.Thailand',nx (Eckman)

9665 USSR RM \*0000-0029\* SP IS, om w/Id, nx, cmtry. (Jordan-PA 5/26)

9680 TAIWAN VOFC via WYFR \*0200-0257. EG IS, sked, ancmts, NA, cmtry. mx, 'DX' pgm. 'New record time', lang pgm. (Jordan-PA 5/26)

9685 TURKEY VoT 0133-0159 TK(presumed). ancmts, ID, instr. & vocal mx. (Jordan-PA 5/28)

9685 UNID 0231 AR? mx, yl w/nx, mx, pos NA. 444 (Levison-PA 5/12)

9690 ROMANIA RB \*1930 EG "Romania Today" (Weinhold-PA 5/17)

9690 GERMANY,FR DW 0200-0207 EG IS, om ancr, ID, nx. (Jordan-PA 5/28)

9695 KAMPUCHEA Vo the Kampuchean People 0005-0015 EG/FR ID,nx, mx,NA. nothing on // 11938. S=5 + 50db!! (Schulze-PHIL 4/14)

9710 CUBA RHC 0223-0300\* SP om/yl tk, ID in EG. promos, slogans, Cuban pop mx. US rock. ancmts, ID. p. (Jordan-PA 5/22)

9725 SWITZERLAND SRI 0200-0210 EG nx, 'Dateline'g. (Topoleski-PA 5/19)

9740 INDONESIA RRI 0700 IN IS, t/sig warta berita (nx) // 11865, 11770; g. (Wood-HI 5/28)

9770 AUSTRALIA RA 1000 EG int'l rprrt., (Weinhold-PA 5/15)

9835 HUNGARY RB 2330 EG nx, cmtry. (Weinhold-PA 5/14) / 0135 DX items, stations, time & frequencies. SIO-444; (Levison-PA 5/13)

9857 ISRAEL KOL 2030 HB tk by om; weak; (Price-KY 4/24)

9860 BELGIUM BRT \*0555 IS, 0600 Du ID, nx; (Wood-HI 5/9)

9870 SAUDI ARABIA BSKSA mx w/vocals; (Weinhold-PA 5/17)

9875 AUSTRIA RAI 0037-0045 EG economic cmtry; (Tuchscherer-WI 5/28)

9885 SWITZERLAND SRI 0410-0420 EG 'Dateline' pgm.g. (Topoleski-PA 5/20)

9900 EGYPT R. Cairo 2135-2140 EG wld nx by yl & om. g; (Price-KY 4/23)

9925 BELGIUM BRT 2100 EG 'Belgium Today' (Weinhold-PA 5/11)

9940 CLAND LV del CID 2035 SP rock 'n roll, into Salsa; p. (Price-KY)

9949.8 PERU R. del Pacifico 0350 SP classical mx, ID7s, religious tk & mx. NA, s/off. (Eckman-CA 5/28)

9960 CLAND R.Caiman 0144 SP pop mx, ID's heavy metal mx; (Eckman-CA)

10000 USA Hawaii WVVH 1450-1500 EG ID, Wx, time. Schulse-PHIL 4/15)

11585 ISRAEL KOL 1850 HB tk, mx; // 11655 f. (Price-KY 4/24)  
 11595 GREECE R. Makdonias 1905 GK folk mx, tk by om;f. (Price-KY 4/24)  
 11605 ISRAEL KOL 1900 EG interview; 5/17) / \*2130-2200 nx. (Weinhold-PA 5/16)  
 11620 INDIA AIR 2104 EG nx by om; (Price-KY 4/24)  
 11635 CLAND LV del CID 1220-1330,0000-0010 SP om w/tks cmtry, yl ancr mx, cmtry, vg. (Jordan-PA 6/1)  
 11665 KUWAIT RK 1840-1850 EG nx, wx by yl, pop mx; f. (Price-KY 4/24) 1945 pilgrimage to Mecca discussed; (Weinhold-PA 5/17)  
 11685 SAUDI ARABIA BSKSA 1940 AR tks, mx; f. RTTY QRM. (Price-KY 4/24)  
 11715 MALI R. Beijing relay 0300-0400 nx, profile of 'Humpsters' people who helped China in the war against Japan by flying supplies over the 'Hump', the Himalayas. (Wallace-MA)  
 11840 JAPAN NHK 0940 EG/JP ID, lcl mx; (Schulse-SRI Lanka 3/20)  
 11850 PHILIPPINES FEBC 0440-0445 EG request for reception reports, address-P.O. Box 2041 Manila. Rpt fr. New Zealand; (Schulse-Phil)  
 11940 SINGAPORE SBC 0810 EG ID, pop mx; (Schulse-SRI LANKA 3/29)  
 15260 JAPAN FEN 0355-0359 EG instr. mx, ID; (Schulse-PHIL 4/15)  
 15280 USA KGEI 0020-0040 SP ID, address in Columbia. Rel. mx. QRM chan. R. Japan. (Schulse-PHIL 4/15)  
 15350 PHILIPPINES FEBC 0830 EG request pgm, rel. pgm. S/off, IS, QRM R. Moscow, w/lang. (Schulse-Sri Lanka 3/29)  
 21240 SRI LANKA 4S7VK QSO W/9N1MC(NEPAL) 0900 EG; (Schulse-Sri Lanka

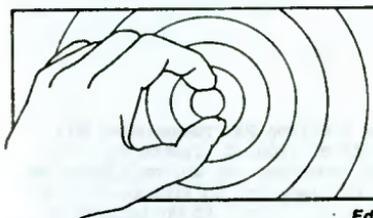
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Hello to ALL! Here we are in the heat of Summer and there appears to be quite a bit of activity. It is certainly nice to see some of our members reporting after being absent for a spell. In particular, we are happy to know that our distinguished linguist, Dr. Wood, is reporting from his fantastic QTH in Hawaii. Roland Schulse has left the Federal Republic of Germany and is now in the Philippines, by way of Sri Lanka. Maybe he will run into Gerry Bishop, hi. Bryan Price has reported after what seems to have been a long absence. Welcome back to you all and we want to welcome all of the NEW REPORTERS. Be sure to let your young friends know about our interesting hobby. It is an education.

The LOG-C family sends regards to John Henault and hoping his recovery is progressing well. I'll write soon John.

My box number is 5204. Let me hear from you, especially if you have comments on LOG-C. Cheers, Chow, and 73!

*Jerry* Box 5204



# LOG REPORT

## section D

### 11700 and above

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

- 11730 UNITED ARAB EMIRATES R. Dubai in AR 1701, nx, ID, wx, AR mx (Dillon GREECE 5/17)
- 11740 NORTH KOREA R. Pyongyang in RS \*1600, ID, sked, nx, g (Wood HI 5/18)
- 11755 CHINA R. Beijing in EG 0907, CH folk mx, tlks, f (Price KY 4/28)
- 11785 EAST GERMANY RBI in EG 0345, nx, mx break, f-g (Rhyne NC) in EG \*0145, world nx, (Price KY) in EG 0420, "Yours for the Asking" (Geler NY 5/8)
- 11785 BRAZIL R. Guaiba in PT 2305-0004, futbol actualities, mx, ID, nx (Jordan PA 5/6)
- 11800nf CUBA RHC in EG 1928, nx, mx (Rhyne NC) in EG 1850, mailbag (Weinhold PA 5/18)
- 11805 GUAM KIWR Agana in EG 1005, ID, DX pgm, Bible reading, f (Trotto FL 6/4)
- 11830 LIBERIA ELWA Monrovia in EG 2100, relig pgm, ID, address (Anywodi VA 5/27) also in EG 2113 w/Goodnews Broadcast station relay via ELWA (Schulze PHILIPPINES)
- 11850 PHILIPPINE IS. FEBC in lang 1130, ID "FEBC, thini...Manila, exc (Wood HI 6/2)
- 11860 ALASKA KNLS in RS 0700, ID, freqs, g w/some jammer splash 11855 (Wood HI 5/30)
- 11865 PHILIPPINE IS. FEBC in IN 1127, station address, ID, f-p (Anywodi VA 5/20)
- 11865 INDONESIA RRI Jakarta in IN 0955, W talking softly, ID, mx, nx (Anywodi VA 5/31)
- 11910 HUNGARY R. Budapest in EG 2330, nx by YL (Weinhold PA 5/9)
- 11920 IVORY COAST Abidjan in FR 1130, great hi-life mx, tlks, f (Price KY 4/24)
- 11925 ECUADOR HCJB Quito in EG 1030, "Saludos Amigos" (Weinhold PA 5/28)
- 11925 BRAZIL R. Bandeirantes in PT 2356, BR pops & love songs, ID, jingles, remotes, ads, f (D'Angelo PA 5/8) in PT 1710, "Jornada Esportiva" (Anderson ARGENTINA)
- 11930 ALASKA KNLS in JP 1050, relig tlk, sta address, jazz/swing mx (Anywodi VA 5/31)
- 11940 ROMANIA R. Bucharest in EG 0201, nx, cmntry re nuclear weapons (Levison PA 5/12)
- 11945 PARAGUAY R. Encarnacion in SP 1630, "musica de la patria" (Anderson ARGENTINA)
- 11955 SINGAPORE RBC relay in EG 0931, "English by Radio", ID (Enkenus MD 5/24)
- 11960 MALI Bamako in FR 0700, IS \*0655 stringed instrument, NA, sked (Wood HI 6/5)
- 11980 GUAM KSDA Adventist World Radio in CH 0916, tlks, classical mx, p (Price KY)
- 11990 KUWAIT RK in AR 1700, pips, ID, Mideast & world nx, f (Dillon GREECE 5/15)
- 11990 CZECHOSLOVAKIA R. Prague in EG 0105, cmntry on various subjects (Levison PA)
- 12015 MONGOLIA R. Ulan Bator in EG 1159, ID, sked, cmntry on Afghan (Eckman CA 6/4)
- 12025 IRAQ R. Baghdad in AR 0255-0400, nx, drum mx, choral chants, ID (Jordan PA 5/15)
- 12050 EGYPT R. Cairo in AR 1659, dialect poetry, ID, interview (Dillon GREECE 5/16)
- 12085 SYRIA R. Damascus in EG 2022-2104\*, nx, ID 2025, mx, NA (Enkenus MD 5/13) in EG 2008, nx, ID by YL, vg (Tuchscherer WI 5/28)
- 12982 AUSTRALIA National Standards Commission 1221-1240, time pulses (D'Angelo PA)
- 13610 EAST GERMANY RBI in EG \*0500-0615\*, nx, press reviews, f (Jordan PA 5/12)
- 13780 WEST GERMANY DW in lang \*1100, IS, nx(p), tlks, ID, f-g (Jordan PA 5/12)
- 14880nf TURKEY VOT in TK \*0352, IS, ID's, choral anthem, tlks, pips, nx, tempo & TK mx, //12035 (Jordan PA 5/22) hrd also in TK? 1525 w/mx, abrupt off 1558 (Levison PA)
- 15030 CHINA CPBS-2 Beijing in CH 2215, M & W alternately talking (Anywodi VA 5/20)
- 15095 SYRIA R. Damascus in EG 2058, mx, nx, off 2104, NA, g (Rhyne NC 5/11) in EG 2135 w/tlk and chanting mx, ID (Weinhold PA 5/15) in EG 2106-2205\*, Syrian press review, dramatic reading, ponderous AR mx, ID's, mx bridges (Jordan PA 5/22)
- 15115 PAKISTAN RP in Urdu/EG 0206-0246\*, tlks, freq lists, nx (Tuchscherer WI 5/21) in EG \*0230-0245\*, ID, freqs, slo speed EG nx, f (D'Angelo PA 5/20)
- 15120 POLAND R. Polonia in FR/EG 0610, xmsn in FR to 0630, then EG (Eckman CA 5/25)
- 15150 CANADA RCI in EG 2141, xmsn to Africa, "SWL Digest", f (Price KY 4/23)
- 15150 NEW ZEALAND RNZ in EG 0400, local mx & nx (Tuchscherer WI 5/30, Geler NY 5/10)
- 15160 MEXICO LV America Latina in SP 0037, live pgm on election of Senorita Mexico (Miss Mexico) w/candidates from various Mexican states, f (Enkenus MD 5/9)
- 15165 CZECHOSLOVAKIA R. Prague in EG 1540, nx, cmntry (Topoleski PA 5/18)
- 15170 TAHITI RT Papeete in FR 0340, nice island mx, g (Levison PA 5/22) in FR/TT 0705, tlks in both languages, beautiful island mx, exc (Price KY 5/1)
- 15170nf IRAQ R. Baghdad in AR \*1755, tone to 1801, ID at s/on, nx (Buer FL 5/8)
- 15190 VATICAN STATE Vatican Radio in PT \*0630, nx, g (Wood HI 5/24)
- 15215 CLANDESTINE Voice of Free Sahara in AR/EG 2235-2259\*, tlk in AR w/translation in EG, tentative ID in AR after drum roll, f/with loud hum (D'Angelo PA 5/30)
- 15265 BRAZIL R. Nacional in GM \*1900, IS, ID in EG/GM, address, nx (Trotto FL 5/27)
- 15295 MALAYSIA V of Malaysia in Malay 0955, weird mx, ID, tlks, f (Trotto FL 5/30) in Malay 1018, mx buried in noise, IS 1026 ("Negara ku") on chimes (Anywodi VA)
- 15300 FRENCH GUIANA RFI relay in FR 1935, pop mx & jazz pgm, TC, ID, freqs, into classical mx by Mendelsohn (Enkenus MD 5/22)
- 15305NF SEYCHELLES FEBA in AR 0420, monotone tlks, IS, xmsn to ME (Jordan PA 5/28)28)

- 15320 AUSTRALIA RA in EG 0332, ragtime mx, sports nx (Levison PA, Tuchscherer WI)  
 15335 INDIA AIR in EG 1055, cmntry, freqs, TC, ID, off at 1100, f (Trotto FL 5/30)  
 15350 LUXEMBOURG RL in FR 2200-2300+, nx, interviews, rock/pop mx, ID, nx (Jordan PA)  
 15420 USSR Laos National Radio via USSR in FR 1110, nx, into mx, ID (Trotto FL 5/30)  
 15435 UNITED ARAB EMIRATES R. Dubai in EG 1555, AR vocals, appeal to Christians to  
 censure Zionist tactics, ID (Enkenhus MD) in EG 0344, propaganda (Geler NY 5/10)  
 15440 TAIWAN VOFC via WYFR relay in EG \*2200-2257\*, trumpet fanfare, sked, nx, cmntry  
 "Lesson on Riots", CH mx, "Let's Learn Chinese", g (Jordan PA 5/27)  
 15475 USSR R. Kiev in EG/RS, language lesson, g (Levison PA 5/14)  
 15535 USSR R. Moscow (Frunze) in EG \*1700, IS, ID, f, nx to Africa (Trotto FL 5/28)  
 15545 WEST GERMANY D. Welle in GM 1105, nx, beer hall mx, disco (Jordan PA 5/12)  
 15555 CLANDESTINE Iran's Flag of Freedom Radio in Farsi \*0322, mx & group vocals,  
 pause at 0323 and tone until 0330 IS repeated 3 times, ID's in Farsi, EG, & FR,  
 choral (anthem?) singing & nx, //9045 (D'Angelo PA 5/23) heavily jammed xmsn  
 in AR? lang at 0354 (Eckman CA 6/3)  
 17540 CLANDESTINE Voice of Unity in Afghan? 0152-0226\*, mix of exotic mx segments  
 and short tlks, gunfire in background, //12230 & 15685 (D'Angelo PA 5/26)  
 17575 NETHERLANDS R. Nederlands in EG \*1130, "Happy Station" pgm (Weinhold PA 5/22)  
 17590 ISRAEL Reshet Bet in HB/EG 0730, speech in EG re "Jewish Brigade", mx w/annmnts  
 in HB, ID 0759, g (Dillon GRECE 5/22)  
 17595 BELGIUM BRT in DT 0700, "Pink Panther Theme", pips, nx, mx, sports (Dillon 5/22)  
 17660 PAKISTAN RP in EG 1100, TC, pips, ID, nx, IS, f (Anywodi VA 5/25)  
 17685 ISRAEL Kol Israel in RS 1530, ID, //17710, 17815, g but jammed (Wood HI 6/5)  
 17720 EGYPT R. Cairo in AR 2358, children singing, clock chimes, ID, g (Anywodi 5/18)  
 17745 ROMANIA R. Bucharest in Farsi 1530, ID "Inja Bukharest", nx, f (Wood HI 6/5)  
 17755 SOUTH AFRICA RSA in EG 1535, interview on park in Swaziland, g (Wood HI 6/5)  
 17760 TURKEY VOF in EG 0300, music & features, essay contest, //9445 (Eckman CA 6/3)  
 17770usb SWEDEN RSI in EG 0245, pgm on Anna Haker--Swedish painter, g (Trotto FL 6/3)  
 17790 ECUADOR HCJB Quito in EG 1915, "Insight" relig pgm (Weinhold PA 5/17)  
 17808 COLOMBIA RN de Colombia in SP 2240, series of radio lessons on 16th century  
 SP literature, FR lang, chemistry, buried under WYFR at 2315 (Anywodi VA 5/27)  
 17815 BRAZIL R. Cultura in PT 2352-0037, jazz mx, ID 0004, long tlk re Sao Paulo,  
 "Musica Popular", interview, f (D'Angelo PA) in PT 1814 w/mx pgm (Geler NY 5/16)  
 17830 ASCENSION IS. VOA relay in SP 1300, nx, Swiss R. buried under (Eckman CA 5/28)  
 17840usb SWEDEN SRI in SW 0220, interview, jazz mx, ID, ID, into EG 0230 (Trotto FL 6/2)  
 17860 SOUTH AFRICA RSA in DT \*0729, IS, ID, nx, f (Trotto FL 5/29)  
 17860 WEST GERMANY D. Welle in GM 2327, cmntry on econ & social policy (Anywodi VA)  
 21595 SPAIN REE in SP 0700\*, list freqs, annc //11730, req rpts, g (Wood HI 6/5)  
 21655 PORTUGAL Radio Free Europe in PL 0700, IS, nx, //17735, g (Wood HI 6/4)  
 21695 SWITZERLAND SRI in Romansch \*1315, IS, ID, tlk, f (Trotto FL 5/24)  
 21720 PORTUGAL R. Free Europe in CZ 0700, IS, TC, ID, nx, g (Wood HI 6/4)

\*\*\*\*\*  
 Here's hoping that John Henault is making a steady recovery from his serious accident in  
 early May. Thanks to John Kapinos for filling in as Distributing Editor while John is  
 getting well. Also, it is good to note that Dr. Wood (the Super DX'er) in Hawaii is  
 sending in loggings from his QTH near Hilo again.  
 \*\*\*\*\*

Repeat loggings listed in last month's issue were not included in the above summary.  
 Please consult last month's FRENEX for a more complete update. Also, loggings totally  
 lacking any program details were not included. Special thanks to those who took the time  
 to arrange their slips in frequency order. What a time saver that is when it comes to  
 sorting all the contributions!  
 \*\*\*\*\*

Notes in no particular order: I can hear every 30-minute English program of The Voice of Vietnam during the day on 15010. Numbers are a bit difficult to understand, and I am not sure of the 25m and 31m frequencies announced. It is interesting to listen to the changing signal quality -- polar flutter at some times -- as the signal paths change during the course of the day. There are some changes for Albania and Romania, and Greece shifted a 31m outlet to 25m at 0130 and 0340. KYOI around 11-12 UT has been putting a good signal in here on 11900 kHz. Flares on 6-24 at 0418, 1609, 1648 UT should upset things. As I print this a few hours before going to press, conditions are quite poor -- Beijing on 15455 is an s2-s3.

-----  
Thomas R. Sundstrom : Telex: 6502446376 (via WUI)  
PO Box 2275 : MCI Mail: 244-6376  
Vincentown : The Source: BCFB11  
NJ 08088-2275 : Compuserve: (send via MCI Mail)  
: Packet Radio: W2XD @ WB2MNF  
: Pinelands RBBS: 609-859-1910 (24/12/3 BN1)

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FOR SALE: Version 2.0 of the program that manipulates the data files and produces these listings for FRENDX is now available. What you don't see here are the by-country listings which make it easier to find a particular station in a given day. You can now browse the schedules and dx shows by country or day/time; you don't have to print the reports to use the data. Speed improvements, easier to use. For the PC, PC/AT and compatibles, minimum RAM requirements is 400K after DOS and other memory-resident programs are loaded. \$20 includes shipping (NJ residents add \$1.20 sales tax), check or money order payable to TRS Consultants, PO Box 2275, Vincentown, NJ 08088-2275. The current data files are always included, and updates are available should you choose not to update files yourself.

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SHORTWAVE BROADCAST PROGRAM SCHEDULES TEXT FILES NOW AVAILABLE

Are you interested in the data that produces these listings, but don't have don't have an IBM PC? ASCII text files from the SWBC program are now available on a subscription basis from the Pinelands RBBS. Although it will take longer to download the files and you won't be able to manipulate the data -- two reasons for purchasing the SWBC program if you have the IBM PC/XT/AT or compatible -- you WILL have the most current information available. The following reports are available:

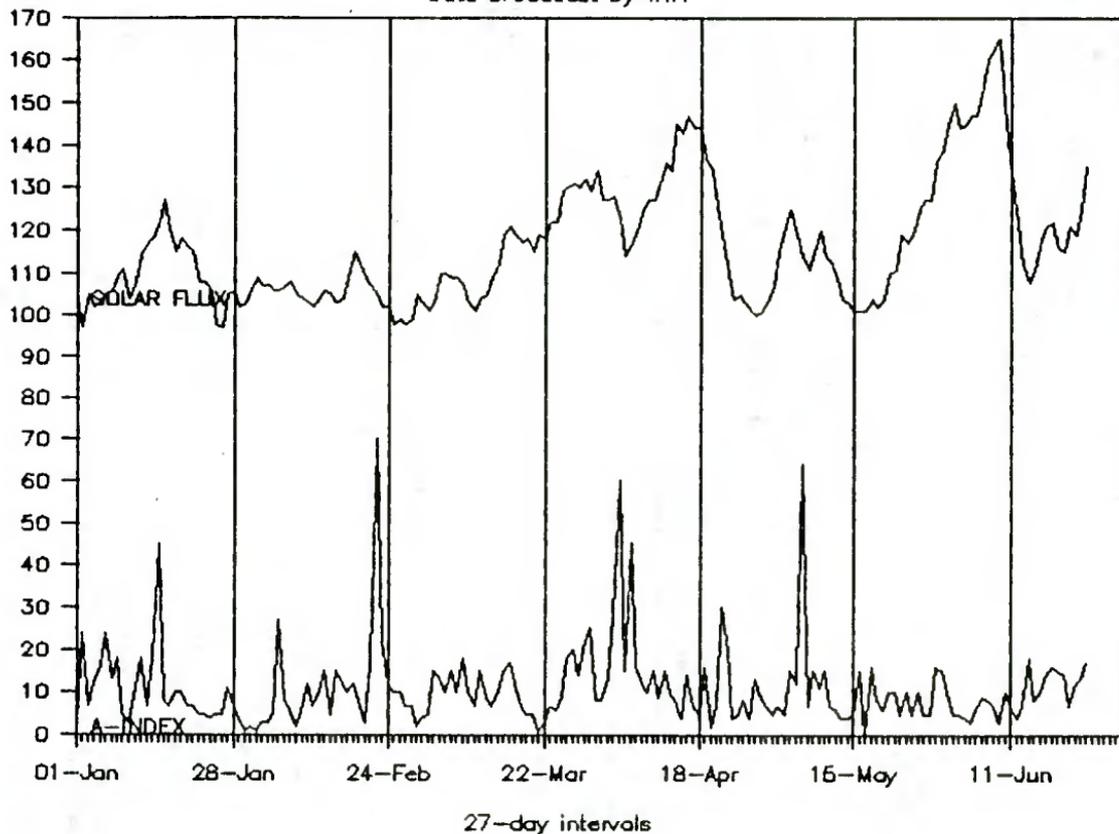
- SCH\_COUN.TXT: Schedules by Country, Station and UTC Transmission Start Time
- SCH\_TIME.TXT: Schedules by UTC Transmission Start Time
- DXSHOWS.TXT : DX Shows by Day of the Week and Time

During the subscription period you may download any or all files as often as you like. Rates: \$25/one year, \$15/six months, and \$10/three months. Checks or money orders should made payable to TRS Consultants. Your support will help make the Pinelands RBBS the best BBS on the East coast.

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# SOLAR FLUX & A-INDEX: Jan - Jun 88

Data broadcast by WWV



ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time  
Compiled by Thomas R. Sundstrom, W2XR

Start Time (UTC)	End Time (UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000	0030	Israel	Kol Israel	12080	11605	9435						NA		06/05/88
0100	0130	Israel	Kol Israel	12080	11605	9435						NA		06/05/88
0130	0138	Greece	V of Greece	11645	9420	7430						NA	News in English	06/10/88
0200	0600	Cuba	R Havana	9770	9655	6140						Americas		05/28/88
0200	0255	Romania	R Bucharest	11940	11830	9570	9510	6155	5990			NA		06/05/88
0230	0300	Albania	R Tirana	9500	7065							NA		06/05/88
0330	0400	Albania	R Tirana	9500	7065							NA		06/05/88
0330	0415	United Arab Emirates	R Dubai	21700	17890	15435	11940					NA		05/31/88
0340	0348	Greece	V of Greece	11645	9420	7430						NA	News in English	06/10/88
0400	0415	Israel	Kol Israel	17630	12080	11605	9435	9010				Aus/As/NA/Eu		06/05/88
0400	0455	Romania	R Bucharest	11940	11830	9570	9510	6155	5990			NA		06/05/88
0430	0515	Fed Rep Germany	R Deutsche Welle	11785	9765	9565	7225	7150				S&C&E Afr		06/05/88
0500	0550	Fed Rep Germany	R Deutsche Welle	9700	9635	6120	6045	5960				WNA	6120 v Antigua	06/05/88
0500	0600	South Korea	R Korea	9570	7275	6060						Am/GOS		05/28/88
0530	0600	United Arab Emirates	R Dubai	21700	17865	15435	11955					Far E/Aus/As		06/05/88
0615	0700	Fed Rep Germany	R Deutsche Welle	17875	15185	13790	11765					W Afr		06/05/88
0900	0950	Fed Rep Germany	R Deutsche Welle	21680	21650	17875	17780	15510	11945	9720		Aus/As		06/05/88
1000	1100	India	AIR	17837	15335	15155	11920	11860				GOS/E As/Aus/NZ		05/31/88
1000	1030	Israel	Kol Israel	17575	15650	15640	11585					W Eu/Aus/As		06/05/88
1000	1030	Vietnam	V of Vietnam	15010	12010	9645								05/28/88
1100	1130	Vietnam	V of Vietnam	15010	12010	9645								05/28/88
1110	1257	Netherland Antilles	Trans World Radio	15345	11815							NA	Sat -1400/Sun -1332	06/03/88
1200	1300	China	R Beijing	17715	15455	15280	15110	11755	11600	7820		ENA/SE As/S Pac	17715, 15110 v Mali	05/28/88
1200	1230	Romania	R Bucharest	17720	15280							As		06/05/88
1200	1300	USSR	R Moscow	17820	17645	15530	15320	15225	13680	9600		World Service	9600 v Cuba	05/28/88
1200	1225	USSR	R Tashkent	11785	9715	9645	9540	7275				As		06/12/88
1215	1330	Egypt	R Cairo	17595								As		06/18/88
1300	1400	China	R Beijing	15455	15280	11755	11600					WNA/SE As/S Pac		05/28/88
1300	1400	Romania	R Bucharest	15365	15270	11940	9690					Eu		06/12/88

1300	1400	South Korea	R Korea	15575	9750	9570	Am/SE As		05/28/88
1300	1400	USSR	R Moscow	17820	17645	15530	World Service	11840 v Cuba	05/28/88
1330	1400	United Arab Emirates	R Dubai	21605	17865	15435	Eu/Afr		06/12/88
1330	1355	USSR	R Tashkent	11785	9715	9645	As		06/12/88
1330	1400	Vietnam	V of Vietnam	15010	12010	9645			05/28/88
1400	1500	USSR	R Moscow	15530	13680	12055	World Service	11840 v Cuba	05/31/88
1445	1500	Canada	R Canada Int'l	17820	15325	15315	C&E Eu	Last 4 via Eu relays	05/31/88
1500	1530	Romania	R Bucharest	17745	17720	15335	As		06/05/88
1500	1600	South Korea	R Korea	9870	5975		HE/Afr/60S		05/28/88
1500	1600	USSR	R Moscow	13660	11840		World Service	11840 v Cuba	05/31/88
1600	1640	United Arab Emirates	R Dubai	17865	15435	11955	Eu/Afr		05/31/88
1600	1800	USSR	R Moscow	11840			World Service	11840 v Cuba	05/31/88
1600	1630	Vietnam	V of Vietnam	15010	12010	9645			05/28/88
1610	1650	Fed Rep Germany	R Deutsche Welle	21680	17825	15510	Aus/As		06/05/88
1700	1800	South Korea	R Korea	15575		7200	Eu		05/28/88
1730	1800	Albania	R Tirana	9480	7155		Eu		06/05/88
1730	1800	Romania	R Bucharest	15340	15270	11940	Afr		06/05/88
1800	2000	USSR	R Moscow	15150	11840		World Service	11840 v Cuba	05/31/88
1800	1830	Vietnam	V of Vietnam	15010	12010	9645			05/28/88
1900	1930	Israel	Kol Israel	15592	15485	13625	NA/Eu/Afr		06/05/88
1900	1956	South Africa	Radio RSA	9610	7270	4990	Afr/NE		05/31/88
1900	2200	USA	KUSH	15690			Canada	70 deg	06/25/88
1900	2000	USSR	R Moscow	15475	11930	9630	UK/Ireland		05/31/88
1900	1930	Vietnam	V of Vietnam	15010	12010	9645			05/28/88
1930	2030	South Korea	R Korea	15575	7550	6480			05/28/88
2000	0400	USA	KVDR	17775			Eu/NE/Afr		05/28/88
2000	2100	USSR	R Moscow	15475	11840		CA/Carib	100 deg	06/10/88
2030	2100	Albania	R Tirana	11835	9375		World Service	11840 v Cuba	05/31/88
2030	2100	Vietnam	V of Vietnam	15010	12010	9645	Afr		06/05/88
2100	2150	Fed Rep Germany	R Deutsche Welle	9765	9650	7130			05/28/88
2100	2200	USSR	R Moscow	11840		6185	Aus/As		06/05/88
2105	2205	Syria	R Damascus	15095	9950		World Service	11840 v Cuba	05/31/88
2130	2200	Albania	R Tirana	9480	7065		NA		05/31/88
2130	2200	Israel	Kol Israel	15640	15592	13625	Eu		06/05/88
2230	2330	South Korea	R Korea	15575			LA/NA/Eu		06/05/88
2230	2300	Vietnam	V of Vietnam	15010	12010	9645	Am		05/28/88
2300	2330	Israel	Kol Israel	12080	11605	9435			06/05/88
2330	0000	Albania	R Tirana	9760	7065	6200			06/05/88
2330	2400	Vietnam	V of Vietnam	15010	12010	9645			05/28/88
2345	2400	South Korea	R Korea	15575			BOS	World News Service	05/28/88

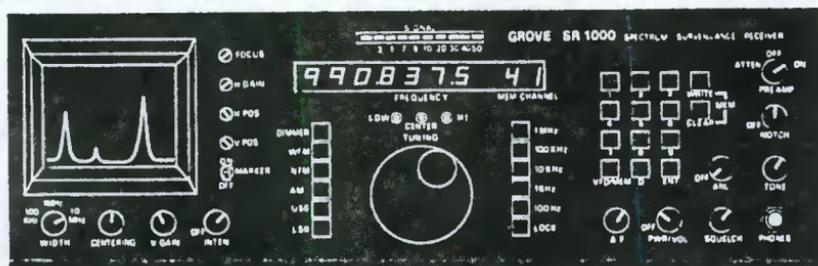
## THE MARKETPLACE REPORT

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

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### NEW RECEIVER ANNOUNCED BY GROVE ENTERPRISES

At this year's Dayton Hamvention, Bob Grove announced that his company will be producing and marketing a new communications receiver later in the year. The SR1000 Spectrum Surveillance Receiver will sell for under US\$2000 and availability of the first units is expected for the autumn of 1988.



The American-made SR1000 is a virtual monitoring laboratory. A built-in CRT lets you visually scan 10 MHz, 1 MHz or 100 kHz segments of the spectrum from 100 kHz to 1000 MHz—with no gaps. When an interesting signal appears, you can zero-in to intercept AM, narrow and wide FM, and SSB signals.

#### The SR1000 includes:

- ▲ 100 kHz to 1000 MHz coverage.
- ▲ FM wide, FM narrow, AM, USB, LSB detection.
- ▲ LED frequency readout to 100 Hz.
- ▲ Direct keypad frequency entry.
- ▲ 100 memory channels with rapid-dial access.
- ▲ Continuous tuning dial with 100 Hz, 1 kHz, 10 kHz, 100 kHz and 1 MHz tuning rates.
- ▲ Panoramic spectrum display adjustable to 100 kHz, 1 MHz or 10 MHz spread.
- ▲ 100 kHz/1 MHz marker for accurate spectrum display.
- ▲ Quartz time base with PLL synthesis for excellent stability.
- ▲ RIT for infinite frequency resolution.
- ▲ LED center frequency indicator.
- ▲ Wide dynamic range for superior intermod rejection;
- ▲ Switch-selectable preamp/attenuator for strong signal compensation.
- ▲ LED signal strength indicator.
- ▲ Switchable dual- or single-antenna inputs.
- ▲ Dual 120/240 VAC power supply with 12 VDC option.
- ▲ ANL to reduce electrical interference.
- ▲ All mode squelch control.
- ▲ Adjustable audio notch filter to remove heterodynes
- ▲ High-quality internal speaker and front panel headphone jack.
- ▲ Tape recorder output with remote activator.
- ▲ Rugged metal cabinet for RFI shielding and durability

<b>Frequency coverage</b>	100 kHz—1000 MHz continuous
<b>Spectrum display</b>	3-inch CRT
<b>Sweep width (dispersion)</b>	selectable—100 kHz, 1 MHz, 10 MHz
<b>Power supply</b>	120/240 VAC, 50/60 Hz (12 VDC with optional inverter)
<b>Tuning</b>	finger-hole knob and keypad entry; 1 MHz, 100 kHz, 10 kHz, 1 kHz, 100 Hz selectable tuning rate
<b>Memory</b>	100 channels; frequency and mode
<b>Stability</b>	1 PPM, 0-40 degree C., after 15-minute warmup
<b>Modes (selectivity)</b>	Wide FM (180 kHz), Narrow FM (15 kHz), AM (6 kHz), SSB (2.4 kHz)
<b>Frequency resolution</b>	100 Hz display; infinite RIT (clarifier) control
<b>Sensitivity</b>	0.5 microvolts (-113 dBm) for 12 dB SINAD (NBFM)
<b>3rd order intercept point</b>	+20 dB or better
<b>1st order image rejection</b>	-60 dB or better
<b>Display range</b>	60 dB or better
<b>AGC timing</b>	20 ms attack; 25 ms decay AM; 500 ms decay SSB/CW
<b>Audio distortion</b>	less than 10% at 1 watt output
<b>Ambient temperature</b>	0 to 40 degrees C. operating; -20 to +50 degrees C. survivable

## Receiver News

The Philips D-2935 is now being sold in the United States under the Magnavox name, after many months of uncertainty. It lists for US\$249.99, but sells at many outlets for less than \$200. (Larry Magne, SWL Digest)

Radio Shack's DX-400 is now appearing on store shelves in the U.S. (it will not be available in Canada) following a delay caused by Radio Shack asking Sangean to make changes to the radio. (Larry Magne, SWL Digest)

## Panoramic Display for Kenwood R-5000

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

## Eavesdropper Antenna

The Eavesdropper dipole antenna has been very popular, being sold by most shortwave suppliers and also by Heathkit under their own model number. Now the manufacturer of the Eavesdropper offers the antenna in two new models.

The standard version comes with 100 feet of parallel conductor feedline. The second version, also covering the 11 thru 60 meter bands, replaces the feedline with a coaxial connector, to which the buyer attaches his coaxial cable. The third version is said to have the same specifications as the Alpha-Delta's DX-Sloper antenna and also have the coaxial connector. This would mean that it covers mediumwave, as well as 11 thru 160 meters shortwave.

Electronic Equipment bank is selling all three. The order identifiers and prices, respectively, are: SWL US\$59.95, SWLC US\$59.95 and SWLS US\$49.95. It seems puzzling that the antenna with the wider frequency coverage and the (claimed) improved construction, sells for less!

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

The Soltronic CC-2020 Cassette Controller is now available through Electronic Equipment Bank (516 Mill St., Vienna, VA 22180). It will allow automatic recording of a program while you are away from your radio by using the timer/alarm function on the radio. Receivers such as the Sony ICF-2010, 2002, 2003, 7700, Panasonic RF-B60 and Sangean AT5-801 and 803A are suitable. The price is US\$39.95.



# GILFER ASSOCIATES, INC

P.O. Box 239 52 Park Avenue Park Ridge, NJ 07656 USA 201-391-7887

FOR IMMEDIATE RELEASE:

RAVEN HOOD -- NOW IN STOCK

In response to many requests from shortwave listeners, GILFER has manufactured a dust cover for the very popular SONY 2010 and clones. The RAVEN HOOD is black, tight-woven, dustproof and waterproof material tapered to set over the 2010 when tilted in its operational position. Slits on the side and back accommodate the extended antenna and wire from the adaptor. The RAVEN HOOD sells for \$12.95 + \$2.00 s&h (when shipped alone).

The RAVEN HOOD follows the popular TRAVEL CASE I and II which are used by many listeners to protect their Sony 2010 and clones when in transit. The manufacture of the RAVEN HOOD follows the same quality construction and the material is so waterproof it is used as raincoats by fishermen.

GILFER SHORTWAVE is located in downtown Park Ridge, New Jersey and may be reached by phone at (201) 391-7887.

# NASWA

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**NASWA, 45 Wildflower Road, Levittown, PA 19057, U.S.A.**

***DXtra***

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