

# FRENDX

international shortwave radio

**SCHEDULE M85**

**3rd March to 4th May 1985**



## EUROPE

English transmissions to Asia and the Pacific may be able to be received in the United Kingdom and Europe on these frequencies.

**Times shown are Universal Time Coordinated.**

0700 - 0840	11910 kHz	25 mb	TX ■	118°
0800 - 1000	15240 kHz	19 mb	TX ■	128°
1800 - 2100	7215 & 6035 kHz	41 & 49 mb	TX ■■	325°/325°

## NORTH AMERICA

English transmissions to Asia and the Pacific may be able to be received in North America on these frequencies.

**Times shown are Universal Time Coordinated.**

Subtract 5, 6, 7 or 8 hours for Local Time.

0200 - 0400	17795 kHz	16 mb	TX ■	065°
0800 - 1400	9580 kHz	31 mb	TX ■	063°
2100 - 0100	17795 kHz	16 mb	TX ■	065°

## PAPUA NEW GUINEA

Programs in English and Neo-Melanesian.

**Times shown are Universal Time Coordinated.**

Add for Local Time: + 9 Irian Jaya; + 10 Papua New Guinea, Bathurst and Melville Island; + 11 Vanuatu.

**Neo-Melanesian Service**

One-and-a-quarter hours daily reaching Papua New Guinea, Irian Jaya, Vanuatu and Bathurst and Melville Islands.

0945 - 1100	9760, 6080 & 5995 kHz	31 & 49 mb	TX ■■	355°/355° 050°
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**English Service**

Twentythree hours daily reaching Papua New Guinea, Irian Jaya, Vanuatu and Bathurst and Melville Islands.

Includes broadcasts in a widely-used Regional English.

**Regional English:**

0800 - 0945	9760, 6080 & 5995 kHz	31 & 49 mb	TX ■■	355°/355° 050°
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**English:**

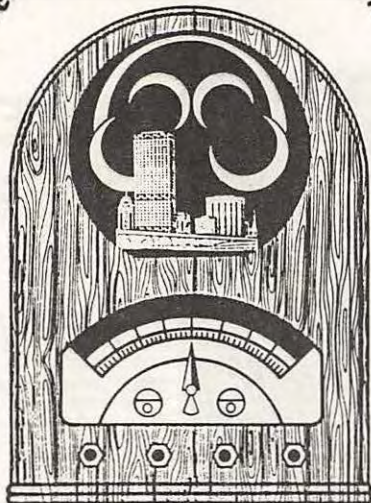
0100 - 0930	15165 kHz	19 mb	TX ■	355°
0900 - 1000	11800 kHz	25 mb	TX ■	353°
1100 - 1300	11800 & 9710 kHz	25 & 31 mb	TX ■	353°/355°
1200 - 2030	6080 kHz	49 mb	TX ■	005°
1400 - 1600	11800 & 9710 kHz	25 & 31 mb	TX ■	353°/355°
2000 - 2130	9620 kHz	31 mb	TX ■	355°
2100 - 2400	15160 kHz	19 mb	TX ■	355°
2330 - 0230	17725 kHz	16 mb	TX ■	342°

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### NEW DISTRIBUTING EDITOR

Beginning with material for Log Reports in the June issue, the new Distributing Editor will be John Henault, 55 Lincoln Street, Abington, MA 02351. The fine job John Kapinos is doing with the Awards Program has greatly increased the work involved with it, and it is no longer fair to expect him to continue in both positions. So, Log Report items for next month go to John Kapinos as before, but thereafter please send them to John Henault at the address above.

### AND ANOTHER CHANGE OR TWO

John Herkimer is giving up the Shortwave Center column to give his full attention to the new edition of "DXing According to NASWA" which we hope to publish before long. The SWC will be compiled at NASWA Headquarters probably on a temporary basis starting with this issue. Please send all material for SWC to 45 Wildflower Road, Levittown, PA 19057. Articles for this column do not have to be typed and anyone who would like to contribute is invited to do so. We realize that it will be difficult to match the exceptional work John has done with the column, but we feel that the new edition of "DXATN" should have priority. SWC's "internal column" format will continue, and to this end the new editor of "Contact" is Stephen G. Moye, 178 Bartlett Avenue, Cranston, RI 02905. Stephen's first column appears in this issue. Welcome to the FRENDX staff, Stephen.

### SONY SW GROUP EXTENDED

Doug Hopkinson of the 6800 SWL-DX Friendship Society now announces that this Sony Group is now open to all Sony Shortwave enthusiasts. For information, write to Doug Hopkinson, 1012 - 1360 York Mills Road, Don Mills, Ontario, Canada M3A 2A2.

### DXER'S DIRECTORY READY

Fred Osterman of Universal Shortwave Radio reports that the first (1985) edition of The DXer's Directory is now in stock. This is the first one of its kind and lists over 850 SW listeners worldwide both by name and by geographical location. Also included is information on over 100 radio clubs and listeners photos. The price is \$4.98 plus \$1.05 shipping. Order from Universal Shortwave Radio, 1280 Alda Drive, Reynoldsburg, OH 43068. The phone number is (614) 866-4267.

### BELGIUM SWL-DX CONTEST

A letter from Belgium dated March 10 states that the Radio Club Ieper, on the occasion of its 10th Anniversary, is offering special new certificates and booklets of interest to SWL/DXers all over the world and is organizing a contest for broadcast listeners. Any listener in any part of the world may participate and beautiful prizes will be awarded. Full information on the contest, certificates, and booklets is available from Chris Vermote, Secretary, Radio Club Ieper, Jan Van Eyckdreef 10, 8900 Ieper, Belgium or, perhaps easier, from Radio Club Ieper, P.O. Box 32, 8900 Ieper, Belgium. Please send a self-addressed envelope and one IRC for surface mail or two IRC's (or US \$1.00) for air mail postage. Letters in English, French, Dutch, German, Spanish, and Italian are very welcome.

MIAMI VALLEY DX CLUB FORUM

The Miami Valley DX Club is proud to present its third annual SWL-DX-Listener Forum at the Dayton Hamvention on April 28, 1985. Speakers will include Fred Osterman of Universal Shortwave Radio who will discuss "Listening to Radioteletype" and Bob Grove of the "Monitoring Times" and owner of Grove Enterprises who will speak on "Monitoring the Spectrum: The Tools and the Technics." This year's Hamvention will be from Friday through Sunday, April 26 to April 28 and the Listener's Forum will begin Sunday morning at 9:30 and last approximately two hours. Additional updated information can be obtained for an SASE from the Miami Valley DX Club, 4666 Larkhall Lane, Columbus, OH 43229.

NO COLLECT CALLS ON THESE ADS, PLEASE

**FOR SALE:** FRG-7700 in fair condition. Purchased used without manual. Works well, but power switch is defective. Sell to best offer or will swap for Drake 2B, 2C, or Hammarlund HQ-170 receiver. You pay shipping or negotiate. Steve Kennedy, P.O. Box 402, Waverly, TN 37185.

**FOR SALE:** Customized Beam Headings and Distances (MI/KM) to over 355 WRTH transmitter sites. Country ITU Codes included. Send your location or coordinates. Price \$6.00. **ALSO:** Galaxy R-530, SC-530 speaker with manuals, \$135.00 shipped UPS. **FRENDX** complete '84, \$5.00. "How to Improve SW Reception" #3, \$2.50. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3B, Tryon, NC 28782. Phone 704-894-3398.

**FOR SALE:** Yaesu FRG-7 SW receiver in mint condition. Bought new in 1981 and not over 25 hours of use on it. Original carton and manuals. Still has the factory inspection tag on it. Price \$300.00. Jim Courtney, 1512 Tonti Lane, Knoxville, TN 37919.

**FOR SALE OR TRADE:** ICOM R-70, \$430.00. Willing to trade for cash and your receiver or a Radio West loop. Call and we'll work out a deal. Fritz Mellberg, 1505 Central, Hywarden, IA 51023. Phone (712) 552-2458.

**WANTED:** Operator's manual or any information on the AN/SRR 13A receiver built by Magnavox for the navy. Bruce Lindner, 10603 SE Home Avenue, Milwaukie, OR 97222. Phone (503) 653-0319.

**WANTED:** Drake RV75 VFO in mint or excellent condition only, please. I would also like a copy of the BLANDX parody of **FRENDX** published in 1981. Steven R. Lare, 824 West 25th Street, Holland, MI 49423. Phone (616) 335-2270.

**FOR SALE:** ICR-4800 SW mini-portable (pocket) receiver, \$35.00. Steve Handler, Box 1596, Northbrook, IL 60065. Phone (312) 272-5115 days.

**FOR SALE:** Mizuho SX-59 preselector in perfect condition, \$50.00 or best offer including shipping inside continental U.S. **WANTED:** 1967 WRTH Handbook. Shawn A. Sabo, 1555 Mill Run Court, Lawrenceville, GA 30245. Phone (404) 963-0547 after 0000 GMT.

**WANTED:** Operator's manual and schematic for Hammarlund SP-400-X Super Pro. Will pay for all photocopying and postage, or purchase original. Jesse Wall, 88 Morningside Drive, Apt. #1, Akron, OH 44303. Phone (216) 762-1303 from 1300 to 1800 GMT.

**FOR SALE:** Drake SPR-4 communications receiver in very good condition. Has been little used since last service and re-alignment was performed. Includes optional 12v DC power cord, original manual, and alignment instructions. Frequency coverage: all major international SW bands, MW, LW, plus optional crystals for 120, 90, 75, and 60 meter bands. Asking \$300.00 Canadian; shipping negotiable. Michael Bolitho, 106 Eastbourne Avenue, Toronto, Ontario M5P 2G3. Phone (416) 483-8992 to 2200 ELT.

**FOR SALE:** National NC-188 communications receiver with external speaker and manual. Receives 5.5 MHz to 40 MHz. Recently aligned and in good condition. Price \$135.00 plus shipping. **ALSO:** RCA WO-91B oscilloscope, 1.5 MHz, 4.5 MHz, and cal. scales. Less than 10 hours working time used on it! Very minor cabinet scratches, otherwise in excellent condition. Price \$135.00 plus postage. Gregory M. Bailey, 95 North Main Street, Apt. #32, Hooksett, NH 03106. Phone (603)-485-5935.

**NOTICE:** I would like to exchange tapes with others who collect jazz, classical, and folk music. Charles George, 6407 Howard, Dallas, TX 75227.



# Shortwave Center

Radio  
Canada  
International



## FEATURE STORY

Despite the popularity of television and many other forms of communication, a large part of the world still gets its international news from shortwave. In areas where the dissemination of news is either non-existent or unreliable, shortwave is the only means of receiving or confirming information.

It's not only the most direct and instantaneous link between your living-room and foreign broadcasters but it also provides in one's own language immediate and unfiltered access to the world.

This year, Radio Canada International commemorates 40 years of shortwave broadcasting and during this time has established itself as a reliable international voice.

The history of RCI began when Canada's Federal Cabinet authorized its creation by Order-in-Council in September of 1942.

Within a year of its inception, the service began construction of two 50 kilowatt transmitters in Sackville, New Brunswick on Canada's east coast.

On December 16, 1944, the first test transmission was successfully completed. A little more than a week later - on Christmas Day - the first news from home was transmitted on shortwave to Canadian troops stationed in Europe.

Today, RCI speaks on shortwave in 11 languages to millions of listeners in Eastern and Western Europe, the USA, Mexico, Central and South America, the Caribbean, Africa and the Middle East. Recently a twelfth language, Japanese, was introduced, in the form of a weekly program service which is fed to Tokyo by satellite from Vancouver.

Through its shortwave transmissions, RCI offers the widest possible range of Canadian news, commentary and informational features in English and French, as well as Russian, Ukrainian, Polish, Czech, Slovak, Hungarian, German, Spanish and Brazilian Portuguese.

In practical programming terms RCI's shortwave newscasts provide authentic and objectively balanced information on events in Canada and the world. In other sections of its programs, the variety of Canadian opinion on those events is reflected against the background of domestic Canadian discussion.

RCI also broadcasts the best of radio programs from the national service of the Canadian Broadcasting Corporation such as "The World at Six", "As It Happens", "Sunday Morning" and "The House" to Canadians travelling and working abroad.

In addition to broadcasting abroad over shortwave RCI reaches foreign audiences through other means, primarily by producing recordings for use on domestic radio stations overseas. This collection of records produced by Recorded and Other Program Services, comprises various spoken-word and music titles.

Music recordings include serious, folk, jazz and popular works by Canadian composers and performers, as well as Canadian interpretations and styling.

RCI also produces programs based on special events and issues to be delivered on tape or by satellite on a weekly basis to selected radio stations in Hong Kong, Tokyo, Washington, Mexico, Caracas and other major cities around the world.

Spoken-word programming specials cover a range of documentaries, dramas, short stories and lecture material in French and English.

The policies of the Canadian government's Department of External Affairs form the basis for determining RCI target areas and language priorities, but programming and editorial policies are wholly the responsibility of RCI (CBC).

Virtually all international broadcasting organizations are designed to serve national interests in one way or another. Some countries employ their shortwave services in a strictly propaganda role, with direct governmental control of content. Others, Canada amongst them, feel that the national interest is best served by a journalistic approach, which seeks to convey objective information and balanced comment, thus reflecting the widest possible freedom of expression.

Based on letters received from listeners (over 50,000 a year) and information from foreign broadcasting organizations, there is high international regard for Radio Canada International's balanced and distinctive programming which reaches a worldwide audience of over 10 million weekly.

Canadian books are rarely seen in foreign markets. Canadian newspapers and periodicals are all but inaccessible abroad while foreign news agencies and publications do not respond adequately to Canadian events. Canadian film and television programs are not yet standard public fare abroad. Aside from Radio Canada International, there is no single vehicle to provide a daily information flow reflecting Canadian aspirations and policy views.

## RCI: AN OVERVIEW

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### INTRODUCTION

On February 25, 1945, Canadian Prime Minister William Lyon MacKenzie King's voice rang out over the airwaves: "This evening marks the formal opening of Canada's International Broadcasting Service. The establishment of this service in Canada is of historic significance. It will serve both a national and international purpose; it will also bring Canada into closer contact with other countries". This marked the official launch of Canadian shortwave.

Now four decades later, Radio Canada International's 40th anniversary provides an opportunity to look back on its origins and ahead to new challenges.

### SHORTWAVE TRANSMISSIONS

The history of Radio Canada International actually began when the Federal Cabinet authorized its creation by Order-In-Council in September of 1942.

Within a year of its inception, the Service began construction of two 50 kilowatt transmitters in Sackville, New Brunswick on the Atlantic coast. This site was chosen because the soil in the surrounding marshland provided an excellent reflective base for the transmission of shortwave signals. To this day, it serves as Radio Canada International's principal transmitting site.

On December 16, 1944, the first shortwave test transmission was successfully completed. A little more than a week later - on Christmas Day - the first news from home was transmitted to Canadian troops stationed in Europe.

The first decade from 1945 to 1955 saw rapid growth in the service. In addition to broadcasts in the original three languages (English, French and German), programs were added in Czech, Slovak, Dutch, Spanish, Portuguese, Danish, Norwegian, Swedish, Finnish, Italian, Russian, Ukrainian and Polish. The International Service was now heard throughout most of Eastern and Western Europe, the Caribbean, Latin America and Australasia.

In 1955, budgetary restrictions forced the CBC International Service to reconsider its priorities. As a result, five of its program languages - Danish, Swedish, Norwegian, Italian and Dutch - were reduced to weekly broadcasts and Finnish was eliminated. Further budget cuts in 1961 caused the elimination of these five languages.

At the same time, however, the International Service continued to grow in other areas: in 1961, a daily service to Africa was introduced and in 1962, a third 50 kilowatt transmitter was installed in Sackville. The year 1964 marked the beginning of programming to the USA in English and French. In September 1967, an agreement was made with the BBC to relay RCI programs directed to Eastern Europe from the BBC's transmitting facilities at Daventry, England, thereby improving the signal quality to this important target area.

In 1972, the International Service was officially renamed Radio Canada International. That same year, work had begun on the installation of five 250 kilowatt transmitters and on the expansion of antenna capabilities in Sackville. Five years later, the project was completed. In 1973 an agreement was reached with Deutsche Welle, the shortwave service of the Federal Republic of Germany, for use of their transmitting facilities in Sines, Portugal to relay RCI's signal to Eastern Europe. In 1980, construction began on a new antenna array for the African service. This project was completed in 1984.

In 1977, program personnel were regrouped into five separate target areas: Eastern Europe, Western Europe, Africa, the United States/Mexico and Latin America. Because of budgetary limitations, the Australasian service had to be discontinued.

A sixth target area, the Caribbean Basin, was added in 1982 with daily programming in English and French. In addition, since January 1983, these programs have been relayed on medium wave via Radio Antilles in Montserrat.

In the fall of 1983, RCI began transmitting in Japanese. Programs prepared by our Vancouver office are now fed weekly via satellite to Radio Tanpa in Tokyo for rebroadcast on shortwave throughout Japan.

In recognition of the growing strategic importance of the Pacific Rim, RCI this year (1985) launched a major initiative with the inaugural broadcast of "Canadian Journal", a weekly business-oriented program. Produced in Montreal, this English language program is transmitted via satellite for rebroadcast on Hong Kong Commercial Radio.

Today RCI offers a full range of Canadian news, commentary and information to millions of shortwave listeners in Eastern and Western Europe, the United States, Mexico, Central and South America, the Caribbean, Africa and the Middle East. These programs are broadcast in English and French as well as Russian, Ukrainian, Polish, Czech, Slovak, Hungarian, German, Spanish, Portuguese and Japanese.

In addition, a topical disc and tape service offers collections of short feature items of varied content for insertion in magazine-format programs abroad. Material is specifically selected to appeal to a country or region and is currently available in English, French and Japanese.

#### SHORTWAVE MONITORING

In 1962, the International Service assumed responsibility for the CBC shortwave monitoring station located in Britannia Heights, Ontario, which was later relocated to Stittsville, near Ottawa. Today, the Stittsville station operates 24 hours a day, 7 days a week, monitoring the signals of RCI and over 20 foreign shortwave broadcasters. This provides reception data for exchange with other broadcasters. The information obtained is used to evaluate the efficiency of the RCI signal in various target areas.

The RCI monitoring station is also the reception point for Deutsche Welle transmissions which are fed to the Sackville transmitting plant for rebroadcast to North America. The station also provides this service as a backup for the normal BBC shortwave transmissions to the same target area.

# CONTACT

Editor: Stephen G. Moye, 178 Bartlett Ave., Cranston, RI 02905  
Phone (401) 941-6497

It is a great pleasure for me to be able to assume the role of editor for the FRENEX Contact column. I wrote to Bill Oliver in response to his request for help in the March issue of FRENEX. Not long after that I received a very nice telephone call from him and he asked me if I would take on the Contact department. I was, and am, delighted to do so and I look forward to this work very much indeed. I would also like to thank, as I'm sure we all would, Andy Robbins for his excellent work.

I'll start out by telling you something of myself, though I will, mercifully, spare you the entire autobiography. My first experience with SWL was at the age of about ten when I discovered what fascinating things could be picked up on an old Transoceanic that my parents had bought some years before. I was completely entranced by what I was able to hear--never mind that I did not understand the languages: there was music galore and, of course there was always the BBC. Sadly, that wonderful old radio met with a terrible disaster a couple of years later and couldn't be repaired. That was the end of my listening for a very long time.

Some twenty-five years later, just over a year ago, I was given the very unexpected gift of a Sony ICF-2002. I may say that I looked somewhat askance at this new receiver. How, I asked myself, could this little silver thing possibly live up to the venerable Transoceanic (which was big and heavy)? Well, I conceded grudgingly, I had seen calculating instruments diminish from the size of room-filling monsters to hand-held pets--so, perhaps, why not radios too? So I strung the wire for the antenna, plugged it into the radio and turned it on. Within moments the old magic was on me again. By great good fortune I found the BBC almost immediately and it was like coming across a good friend again after many years absence. The following weeks were spent in an almost bionic union with my new radio.

By a stroke of luck I also happened across two books which have contributed enormously to my knowledge and listening pleasure. The WRTH made sense of the profusion of programming, and The Complete Shortwave Listener's Handbook by Bennett and Helms made sense of the many technicalities surrounding intelligent listening. I would also point out that that it was in Bennett and Helms that I ran across NASWA for the first time. A number of other books I found later, and lots of listening, augmented the growing fund of knowledge I had at my disposal. In the process I was able to brush-up some long-dormant Spanish, French and German. I found my knowledge of non-western music (gained in graduate work in ethnomusicology) was very helpful in identifying broadcasts in languages I didn't understand.

My decision to pursue my listening in greater depth resulted in the further decision to look around for a receiver that would permit this. The patient folks at the Electronic Equipment Bank, Virginia, answered all of my questions fully and clearly with the result that I ended up the proud owner of a much-modified ICOM IC-R71A. Personally, I have nothing but praise for the high quality performance of this fine listening instrument, with which I spend as much time as I can.

Now for some food for thought--your thoughts which I'd like you to share with me and our readers. I hope that you will have noticed the number of times that sheer good luck resulted in the formation of my own attachment to SWL: I happened to have some hands-on experience in SWL as a child; I happened to be given a shortwave receiver, and a good one at that; I happened to find materials that enabled me to keep my enthusiasm by educating me; I happened to join an excellent club--NASWA--which has substantially furthered my education; and I also happened to have the good fortune to find and excellent dealer of shortwave receivers. All luck.

All this is in sharp contradistinction to, say, computers. Everywhere there abound computer stores, magazines, newspaper columns, clubs, software sources and all the rest of it. The cumulative effect of this deluge of information has been to create a permanent place for the computer in the public's consciousness. Without all of this awareness-support it might well still only be a matter of luck that anyone would become interested in computers--as indeed it was before the advent of the microchip which made the technology of the computer commonly available to everyone. Very similar advancements have occurred in radio technology, but what I have termed the awareness-support has been (on a large scale at least) very largely missing. The questions are: 1 Why? and 2. How is this remedied?

The 'Why?' may be unknowable as a result of a great many influences the effects and interrelationships of which may well render them beyond the powers of easy analysis. I suspect very strongly that the current dismal level of US radio programming may very well be incapable of inspiring serious listening. We should also note that this is a very American phenomenon--the rest of the world has been, and shows every sign of continuing to be, very shortwave-conscious.

Reflections upon a remedy for this situation were prompted by seeing a television commercial for Uniden-Bearcat scanners. It would seem that U-B has identified a possible audience and targeted a market for its products. I wondered what would be the outcome if makers of shortwave receivers (Sony, Panasonic, and others) were to do the same thing. Just think...

Now it's your turn. I invite your thoughts, reflections, suggestions for future topics--in short, I need to know what you would like to see discussed here. Don't be shy: whether you are a new-comer (like me) or an old hand, any contribution that you make here will very probably be of very real assistance to the listening community at large.



Editor: James G. Herkimer, 3255 South Drive, Caledonia, NY 14423

Sony ICF 2010

by Don Moman

The January 18 edition of Media Network featured a review by Jonathan Marks of the new receiver from Sony, the ICF 2010 (or ICF 2001D outside of North America.) Their comments were detailed in the February CIXD Messenger (page 37). Since I now have one in my possession, my comments follow:

**Basic Facts and Specifications:** Coverage: AM 150-29,999.9 kHz FM 76-108 MHz AIR 116-136 MHz. Built-in antennas for all bands. 4 inch speaker, 380 mw of audio, .775 mv tape output (low level for "mic" input on recorder). 3 D cells (2 AA for computer memory) or 4.5 volts external power. Battery life could be 8 hours with standard 1.2 amp/hr D NiCads, considerably (30-40 hrs) longer with fresh alkalines. 32 memory channels, each will store frequency, mode, and bandwidth. Keyboard plus tuning knob frequency input system. LCD readout to .1 kHz. 4 digit 12/24 hour clock with 4 timers, each capable of selecting the frequency as well as On/Off times. Versatile memory and bandscanning functions, modes keypad selectable. Size is 288 x 159 x 52 mm (11.375 x 6.375 x 2.125 inches w/h/d/) which is very similar to the 2001. Weight is 1.7 kg, nearly 4 pounds.

Performance wise, the 2010 comes off as a very competent package. Readout to .1 kHz, with stability to match, 32 memories and key pad tuning might make you think I was describing the ICOM R71A. In many ways, the 2010 is a more "portable" version of the R71A. Many of the comparisons in this review are made with my R71A.

Tuning the set is accomplished in 3 ways. A very easy-to-use key pad - just hit the numbers, then EXECUTE and there you are. Slightly simpler than the R71A - no leading or trailing zeroes need be entered. Tenths of a kHz entry is not allowed in the 2010, only a small complaint here. A manual tuning knob is also provided - two tuning steps (.1 and 1 kHz increments) are switch selectable. 50 kHz / rev in fast, 5 in slow. Minimum steps are 100 Hz with no provision for fine tuning (RIT) - this is an unfortunate situation, but with the special "sync" feature it becomes much less of an annoyance. More on that later, but for utility and ham listening it is still a shortcoming, especially if you have a CW/RTTY decoder- they require unusually precise frequency resolution.

The third way of tuning is via the 32 button (64 function) memory preset system. Each of the 32 presets will store frequency, mode, and bandwidth (plus a "skip" feature). Each button (most of them, anyway) has a second function that is used to define scanning parameters, and can also take you to a preset band edge instantly. Example, hit shift and CL/4lm and you'll be at 7.000.0 instantly, no matter where you were before. Hitting scan will then only scan that portion of the spectrum. Conventional upper and lower scan limits can also be defined. Key are provided for LW, MW, 120 through 11 meters, FM, and AIR. It may sound complex but it is very to use and requires an absolute minimum of keystrokes to accomplish a function. The 4 x 8 matrix of memory preset buttons is more versatile than the rotary stepper switch on the R71A, since any memory may be selected in any order.

Other than the minimum 100 Hz tuning steps- 10 Hz may be a bit much to expect in a small portable, especially in this price range ( to build a good spectrally pure 10 Hz PLL is not a simple or cheap task - the R71A is probably the lowest priced set to have such a good PLL.) but some form of fine tuning like the 2001 had, would be nice - the only other complaint is the noise the PLL makes as you tune. There's a popping sound as the PLL unlocks momentarily. The same noises are found in the R71A but they are much less noticeable there.

Sensitivity using the built in whip seemed to be low, however, compared to other sets which I know to be at least of average sensitivity (Sony ICF 7600A, Panasonic RF 6300) it was almost identical. It should be significantly better than the 2002, which was

insensitive. With an external input, it was very good, and kept up with the R71A on all frequencies above the BCB range. The R71A became the leader as the frequency decreased, but then my R71A is not "stock" - the front end has been modified for better MW performance.

Measured performance (HP606 RF generator) indicated that it could just detect a .08 microvolt signal at 9.5 MHz, and at 1000 Hz sensitivity had fallen to 1 uV. Quite comparable to a stock R71A, actually. The 10 LED S meter reads values of 1/1.5/2/2.5/3/5/10/25/50/80 uV. At 1000 kHz the meter started indicating at 20 uV with all values correspondingly higher. One nice feature with the antenna input - unlike almost any other portable - is that the external antenna plug, when inserted, cuts off all internal antennas. Not just the whip, but even the LW/MW internal loops. Very nice for the DX'er who wishes to use an external directional loop (or FM/AIR directional beam system.) Surprisingly, the shielding is very good too. With a dummy plug inserted to cut off the internal antennas, only faint audio from my locals could be heard. My locals are VERY local, by the way! My compliments to Sony for incorporating this into their design!

FM performance was only fair, in my opinion. It seemed reasonably sensitive (2 stations about 100 miles away came in fair) but it seemed on the verge of overloading as well. AIR band performance was poor - using only the telescoping whip the set received no audio on the local airport flight information frequencies, while my Radio Shack PRO-30 handheld scanner was able to provide just barely readable audio, and I don't consider the PRO-30 to be above average in sensitivity.

Surprisingly, an external SW antenna did not introduce severe overloading from my strong locals. At my DX'pedition site near Cooking Lake (still with strong locals but free from externally produced spurious signals) the 2010 suffered no more (or less) overloading than the R71A on the SW bands. MW held up quite well, but LW was awash with images. Here the problem is compounded by the already low sensitivity on this band. Still, LW is not that important to the majority of listeners, I'm sure. Unfortunately, it is important to me so the 2010 is not my dream LF receiver, and it only covers LW down to 150 kHz. Overall it performed surprisingly well, better than any other portable with the exception of the much higher priced Sony GRF-1.

Selectivity is rather typical for a portable. The wide filter is w-i-d-e and provides good audio when conditions permit. The narrow filter is adequate in that it provides much relief from QRM but still allows quite respectable audio. Measurements I made indicated a wide value of 10 kHz (16 at -50 dB) and a narrow value of 5 kHz (8 kHz at -50 dB). A third, narrower choice for SSB would be useful. Using the 2010 in either USB or LSB while listening to a conventional AM signal is nearly totally unsatisfactory, since the 100 Hz tuning steps are far too large to permit phase tuning. However, a small button labeled "sync" does the job very well and automatically. Tuning to the high side of the signal will cause it to lock onto the USB portion, and vice versa. As to whether it helps much - it can reduce the impact of fades, and does allow you to choose the least interfered sideband with ease. But it also adds some background noise (a high frequency hiss), quite noticeable on weak signals. On some signals, (ones with a lot of random fades and rather weak too) it adds another noise - a burbling sound. It's no doubt caused by a confused PLL circuit, wandering about looking for a signal to lock on. However, sometimes the noise would stay even after the signal came back, turning off the sync and then turning it back on would get rid of the noise. Not unexpectedly, if there are two carriers present within the lock range of the circuit (typically plus/minus 400 Hz), the circuit cannot choose between them. Tahiti on 15.170.25 was producing a strong het this morning and the audio on the 2010 was hopeless, and without fine tuning there was no way to manually zero beat the signal. The R71A fared much better, as it should. Listening to RCI on 11945 at 2130 for the SWL Digest, which suffered severe splash from Gabon on 11940, the ICF 2010 again fared worse than the R71A.

#### Other features:

A separate clock display (only 4 digit) is 12/24 hour selectable. It is also the heart of a useful timer function which allows you to program 4 "On" times, each of which selects a frequency stored in a particular memory channel. The tuning dial is used to set the clock times - both forward and reverse setting make it very easy to use.

Memory and bandscanning are quite versatile but the scanner will only stop on relatively strong signals. It scans so quickly that weak signals are not even audible, and unlike the R71A, there seems to be no adjustment to slow down the scan rate. On FM the scan consistently stops before, during, and after a strong signal. You can scan

several ways - predefined "bands", user defined limits and all memory channels (you can program in a "skip" function too); and the set can either pause for 1.5 seconds on each strong signal or stop scanning altogether.

Audio from the 4 inch speaker is certainly not in the "ghetto blaster" tradition, and bass response is obviously lacking in such a small set. A 3 position tone control is provided. I would rate it to have good audio for the SWL but only fair for FM. Panasonics and other portables have better FM sound, possibly at the expense of their weak signal SW audio.

Overall, I quite enjoy the ease of using the 2010, and it makes an excellent companion for use with the R71A, but when reception conditions get difficult it soon becomes obvious that there is nothing terribly exceptional about its' ability. The "sync" feature does little to improve things. A narrower filter would certainly help matters, but I haven't checked out the inside of the set yet - there may very well be no room to do any experimenting with better filters. Price is listed at \$ 329.95 (US) and the set seems to be in quite plentiful supply already.

---

Many thanks, Don! (who, by the way, is Executive Secretary and Publisher for the Canadian International DX Club, 6815-12 Avenue, Edmonton, Alberta, Canada T6K 3J6. Don also operates Shortwave Horizons, an equipment dealership for Canadian SWLs.)

Don also mentions that Shortwave Horizons can offer the high performance FL 44 A 2.1 kHz filter for the ICOM R70 and 71A for \$ 99 (US) postpaid. This is the same price as the inferior mechanical filter currently being sold as a low cost replacement for the ceramic PBT filter in the U.S, in lieu of the more costly FL 44 A.

---

I have a considerable amount of material on hand for at least 2 additional columns, and my sincere thanks for the recent barrage of contributions. I wish to remind the membership, that if a personal reply is requested, please include a SASE. Otherwise, I cannot guarantee when or if, a reply will be forthcoming. Thanks!

--- With that, we wrap up another month, -73 *Jim*

---

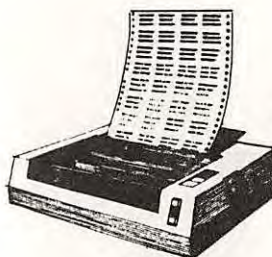
### "ALL I GET IS STATIC"

The NMST has commissioned a play about an important Canadian historical figure - Reginald Aubrey Fessenden, the first person to transmit voice by radio. The play, entitled "All I Get is Static," is being produced in conjunction with "The Great Canadian Theatre Company of Ottawa." Performances are scheduled at the Museum in February and in regional schools during March and April. The play will embark upon a national tour this summer culminating in an eight-week run at Expo '86 in Vancouver.



### PUBLIC PERFORMANCES

GREAT CANADIAN THEATRE CO. 910 Gladstone Ave.  
march 12, 13, 15, 16 at 7:30 pm  
2:00 pm matinées march 15 & 16  
For information and reservations call GCTC 236-5192



## Computer Corner

Editor: Bill Cole / 107 Charles Street / N. Cape May, NJ 08204

This month the Computer Corner welcomes NASWA member Scott McClellan's first contribution. Scott is no stranger to writing and currently does a column for Miller Publishing's "Shortwave Guide". He DXes with an R70, HQ-180C & CR-2021. For computing he relies on his Commodore 64.

### ANTCOMP-64

by Scott McClellan, PO Box 982, Battle Creek, MI 49016

Appearing with this article is a listing for "ANTCOMP-64", a simple program for the Commodore 64 to determine the correct lengths for half wave dipole and quarter wave vertical antennas. However, this program will not teach you how to construct such antennas; for that see "DXing According to NASWA" or any ham radio antenna book.

I decided to write this program after seeing a similar one in "73" magazine written for Timex. I thought it would be a good "first programming project", and here is the result.

Although written for the C-64, the program listing is lacking those strange & cryptic Commodore graphic symbols; instead it contains messages in [brackets]. [RED] means hit CTRL-2, [GRN] means CTRL-6, and so on. [RVS ON] = hit CTRL-9, [RVS OFF] = CTRL-0. [32 SPC] means hit the space bar 32 times. [32 COMD Y] means hold down the Commodore logo key, and hit "Y" 32 times. [CLR] = shift-clear/home, [CSR UP] means hit the cursor up key. Most magazines that list programs use methods similar to this. It makes things a bit easier to read, and has the benefit of making it a bit easier for those with non-Commodore computers to follow what's going on.

Lines 40 through 67 print two messages using a scrolling technique; they can be replaced by simple PRINT statements if you wish to save some typing, or are trying to convert this to another computer. It shouldn't be too difficult to adapt this program to any other home computer.

I'm currently working on expanding the program to include the option of seeing instructions on building dipole & vertical antennas if desired. If anyone would like a listing of the finished product, just send a SASE to me at the above address. Also, if there are any questions about the program, send a SASE & I'll do my best at answering them, but please keep in mind that I'm still a novice when it comes to computers! Comments & suggestions are welcome, and I'd like to correspond with other C-64 users.

```
10 PRINT"[CLR]":POKE53280,1:POKE53281,1
20 PRINT:PRINT:PRINTTAB(4)"[RED][32 COMD 0]"
30 PRINTTAB(4)"[BLUE]RVS ON][32 SPC]RVS OFF]"
40 MSG$="[19 SPC]ANTENNA DIMENSION PROGRAM....."
41 PRINT"[4 SPC][BLUE]RVS ON][5 SPC]RVS OFF][22 SPC]RVS ON][5 SPC]"
42 A$=RIGHT$(MSG$,LEN(MSG$)-1):B$=A$+LEFT$(MSG$,1)
43 PRINT"[PUR][CURSR UP]";TAB(7);LEFT$(B$,26);MSG$=B$
44 FORD=1TO45:NEXTD:MSG=MSG+1:IFMSG=76THEN46
45 GOTO42
46 A$="":B$="":MSG$="" :MSG=0
50 PRINTTAB(4)"[BLUE]RVS ON][32 SPC]RVS OFF]"
60 PRINTTAB(4)"[RED][32 COMD Y]"
61 PRINT"[CURSR DOWN]";MSG$="[17 SPC]ADAPTED BY...SCOTT MCCLELLAN...JUNE '84"
62 PRINT" [GRN]RVS ON][0 SPC]RVS OFF][22 SPC]RVS ON][8 SPC]"
```



Compiled by Roger Legge, Box 232, McLean, VA 22101

\* - Not intended for NA, but reception good. M-F refers to EST/PST days.

MORNING

<u>EST</u>	<u>UTC</u>	<u>Station</u>	<u>Frequencies (Khz)</u>
5:30-6:30am	1030-1130	Hilversum, Holland	6020, 9650
6:00-6:30am	1100-1130	Helsinki, Finland (not Su.)	15400, 17800
		Jerusalem, Israel	15585, 17630, 17795
6:00-7:00am	1100-1200	Moscow, USSR 9600h,	15135, 15150, 5455, 15475, 17810
		Peking, China	9820
6:00-8:30am	1100-1330	London, England	5965c, 6195w, 11775w, 15070
6:00-10:00am	1100-1500	Melbourne, Australia	9580, 5995, 6060 (from 1200)
6:15-7:35am	1115-1235	TWR, Bonaire, NWI	11815
7:00-7:30am	1200-1230	Helsinki, Finland (not Su.)	15400, 17800
7:00-8:00am	1200-1300	Damascus, Syria	17840
		Moscow, USSR	9600h, 15150, 15455, 15475, 17810
		Peking, China	9820, 11650
7:00-10:30am	1200-1530	HCJB, Quito, Ecuador	15115, 17890, 11740 (to 1430)
7:30-8:00am	1230-1300	Vienna, Austria (Su.: 12-13)	15320
7:35-7:45am	1235-1245	Athens, Greece	11645, 15630, 17565
8:00-8:25am	1300-1325	Montreal, Canada (M-F)	9650, 11955
8:00-8:30am	1300-1330	Helsinki, Finland (Su: 1230-14)	15400, 17800
8:00-8:30am Su	1300-1330 Su	Oslo, Norway	15305
8:00-10:00am	1300-1500	Moscow, USSR	11840h (1330-), 15150, 15455, 15475, 17810
8:15-8:45am	1315-1345	Berne, Switzerland	17765
9:00-9:30am	1400-1430	Helsinki, Finland	15400
		Stockholm, Sweden	15345
9:00-9:30am Su	1400-1430 Su	Oslo, Norway	15305
9:00-9:45am	1400-1445	Brussels, Belgium (M-F)	17610
9:00am-12n Su	1400-1700 Su	Montreal, Canada	11955
10:00am-12n	1500-1700	Moscow, USSR	11840h, 15455, 15475, 11860
10:40-10:50am	1540-1550	Athens, Greece	11645, 15630, 17565
11:00-11:30am Su	1600-1630 Su	Oslo, Norway	15305
11:00am-12n	1600-1700	*Paris, France	15315, 17620 ("Paris Calling Africa")
11:00am-12:45pm	1600-1745	London, England (Sa/Su: 1500-)	9515c, 15070, 15260c

AFTERNOON

12:00-12:30pm Su	1700-1730 Su	Oslo, Norway	15305
12:00-5:00pm	1700-2200	Moscow, USSR	9710, 9765, 11705 (to 21), 11840h, 11860
2:00-2:30pm Su	1900-1930 Su	Oslo, Norway	15170
3:00-3:30pm	2000-2100	Jerusalem, Israel	7412, 9425, 9440, 9815
3:10-4:40pm	2010-2140	*Havana, Cuba	17885
4:30-5:00pm	2130-2200	*Sofia, Bulgaria	7115, 9665

EVENING

5:00-5:30pm	2200-2230	Vilnius, Lithuanian SSR	9685, 9750, 15100, 15240, 17870
5:00-5:50pm	2200-2250	Tripoli, Libya	11815
5:00-6:00pm	2200-2300	Ankara, Turkey	9560
		London, England	5975, 6175w, 7325, 9915
5:00-8:30pm	2200-0130	Moscow, USSR	7115, 7150, 7165, 7320, 9720, 9765, 9780, 9870, 6115h (from 0000)
5:30-6:00pm	2230-2300	Jerusalem, Israel	7412, 9425, 9440, 9815
5:30-6:30pm	2230-2330	Sofia, Bulgaria	9700, 11720
6:00-6:30pm	2300-2330	Montreal, Canada	9755, 11710
		Stockholm, Sweden	9695, 11705
6:00-7:30pm	2300-0030	London, England	5975, 6120c, 6175w, 7325, 9590cy, 9915
6:05-6:55pm	2305-2355	*Warsaw, Poland	7270 (Concert)
6:15-7:00pm	2315-0000	Berlin, DDR	6080, 9730
6:30-7:00pm	2330-0000	Kiev, Ukr. SSR	7205, 9685, 9750, 15240, 17870

EST	UTC		
7:00-7:30pm	0000-0030	Jerusalem, Israel	7412, 9440, 9815
		Montreal, Canada	5960, 9755
		Tirana, Albania	7065, 9760
7:00-7:45pm	0000-0045	Berlin, DDR	6080, 9730
7:00-8:00pm	0000-0100	Peking, China	9880, 11860, 11970
		Sofia, Bulgaria	9700, 11720
		Tokyo, Japan	11710
7:00-9:00pm	0000-0200	Madrid, Spain	6125, 9630
7:00-11:00pm	0000-0400	*VOA, Washington, USA	5995, 6130, 9455, 9650, 11740 (to 02), 15205, 15375, 17730
7:30-8:00pm	0030-0100	Montreal, Canada (not Sa)	5960, 9755 (As It Happens M-F)
		Lisbon, Portugal (M-F)	6095, 9680
7:30-8:15pm	0030-0115	Brussels, Belgium	9925
7:30-9:00pm	0030-0200	HCJB, Quito, Ecuador	9745, 15155
7:30-10:30pm	0030-0330	London, England	5975, 6120c, 6175w, 7325, 9590, 9915
7:50-8:05pm	0050-0105	Vatican City	6015, 9605, 11845
8:00-8:20pm	0100-0120	Rome, Italy	9575, 11800
8:00-8:30pm	0100-0130	Budapest, Hungary (not Su.)	6025, 9520, 9835, 12000
		Jerusalem, Israel	7412, 9440, 9815
		Montreal, Canada	5960, 9755
8:00-8:50pm	0100-0150	Cologne, W. Germany	6040w, 6085m, 6145, 9545w, 9565m, 11785
8:00-9:00pm	0100-0200	Buenos Aires, Arg. (M-F)	9690, 11710
		Managua, Nicaragua	6015
		Prague, Czechoslovakia	5930, 7345, 9540, 9740, 11990
8:00-10:00pm	0100-0300	Peking, China	9880, 11860 (to 02), 11970
8:00-11:50pm	0100-0450	Havana, Cuba	6140
8:30-8:40pm	0130-0140	Athens, Greece	9420, 9855, 11645
8:30-9:00pm	0130-0200	Tirana, Albania	7120, 9760
		Vienna, Austria	5945, 6000, 9770
8:30-9:15pm	0130-0215	Berlin, DDR	6080, 9730
8:30-9:25pm	0130-0225	Hilversum, Holland	6020, 9895
8:30-10:00pm	0130-0300	Moscow, USSR	6115h, 7115, 7150, 7165, 7320, 9765, 9780, 9870
8:45-9:15pm	0145-0215	Berne, Switzerland	6135, 9725, 9885, 12035
9:00-9:30pm	0200-0230	Budapest, Hungary	6025, 9520, 9835, 12000
		Jerusalem, Israel	7412, 9440, 9815
		Kiev, Ukr. SSR	7205, 9750, 9870, 15240
		Montreal, Canada (M-F)	5960, 9755
9:00-10:00pm	0200-0300	Brasilia, Brazil	11745
		Bucharest, Romania	5990, 9570
		Johannesburg, So. Africa	5980, 6010, 9615
9:00-10:30pm	0200-0330	Cairo, Egypt	9475, 9675
9:00-11:00pm	0200-0400	Taipei, Taiwan (via WYFR)	5985, 6065
		Warsaw, Poland	6095, 7270, 9525
9:00pm-12mdt	0200-0500	HCJB, Quito, Ecuador	6095, 9745
9:30-10:00pm	0230-0300	Montreal, Canada (M-F)	5960, 9755 (As It Happens, rpt)
		Tirana, Albania	7120, 9760
9:30-10:25pm	0230-0325	Hilversum, Holland	6165b, 9590b
10:00-10:30pm	0300-0330	Lisbon, Portugal (M-F)	6090
		Montreal, Canada	5960, 9755
10:00-11:00pm	0300-0400	Ankara, Turkey	9560
		Prague, Czechoslovakia	5930, 7345, 9540, 9740, 11990
10:00pm-12mdt	0300-0500	Moscow, USSR	6115h, 7150, 7165, 7320, 9765
10:15-10:30pm	0315-0330	*Paris, France	9800gu, 11670gu, 11995gu
10:30-11:00pm	0330-0400	Dubai, UAE	7310, 9565, 11730
		Tirana, Albania	6200, 7300
		Vienna, Austria (Sun:10-11pm)	5945, 6000, 9770
10:30-11:30pm	0330-0430	London, England	5975, 6175w, 6120c
10:30pm-1:00am	0330-0600	Havana, Cuba	6090
11:00-11:30pm	0400-0430	Montreal, Canada	5960, 9755
11:00pm-12mdt	0400-0500	Buenos Aires, Argentina	9690, 11710
		Managua, Nicaragua	6015
		Sofia, Bulgaria	7115
12:00-12:15am	0500-0515	Jerusalem, Israel	9009, 9425, 9440, 9815

## MORNING

PST	UTC		
5:00-8:00am	1300-1600	Moscow, USSR (via Khab.)	5900, 7150, 7175, 7200, 9795
6:00-6:30am	1400-1430	Helsinki, Finland	15400
6:00-7:00am	1400-1500	Seoul, So. Korea	9750, 15575
6:00-11:00am	1400-1900	Melbourne, Australia	9580, 5995, 6060
7:00-8:00am	1500-1600	Tokyo, Japan	5505
7:40-7:50am	1540-1550	Athens, Greece	11645, 15630, 17565
8:00-9:45am	1600-1745	London, England	9515c, 9740s, 11750s, 15070, 15260c
8:00am-12n	1600-2000	Moscow, USSR (via Khab.)	7175, 7290, 12010, 12050
9:00-9:30am	1700-1730	Tokyo, Japan	9505

## AFTERNOON

12n-2:00pm	2000-2200	Moscow, USSR (via Khab.)	12050, 15140, 15425, 15455
2:00-2:30pm	2200-2230	Vilnius, Lith. SSR (via Khab.)	15100, 15240, 17870
2:00-5:00pm	2200-0100	Melbourne, Australia	15320, 15395, 17795
		Moscow, USSR (via Khab.)	12050, 15140, 15425, 15455, 17700
3:00-4:50pm	2300-0050	Pyongyang, No. Korea	15230, 9745
3:30-4:00pm	2330-0000	Kiev, Ukr. SSR (via Khab.)	15100, 15240, 17870
4:50-5:05pm	0050-0105	Vatican City	6015, 9605, 11845

## EVENING

5:00-6:00pm	0100-0200	Buenos Aires, Argentina	9690, 11710
		Madrid, Spain	6125, 9630
5:00-6:30pm	0100-0230	London, England	6175w, 9515gr, 9590cy, 11750a
5:00-7:00pm	0100-0300	Moscow, USSR (via Khab.)	12050, 15140, 15425, 15455, 17700
		Peking, China	9880, 11860 (to 02), 11970
5:00-8:50pm	0100-0450	Havana, Cuba	6140
5:00-9:00pm	0100-0500	HCB, Quito, Ecuador	9745, 6095 (from 0200)
5:45-6:45pm	0145-0245	Seoul, So. Korea	11810, 15575
		Tokyo, Japan	15195, 17825, 21610, 21640
6:00-6:30pm	0200-0230	Budapest, Hungary	6025, 9520, 9835, 12000
		Jerusalem, Israel	7412, 9440, 9815
		Kiev, Ukr. SSR (via Khab.)	15100, 15240, 17870
		Montreal, Canada (M-F)	5960, 9755
6:00-7:00pm	0200-0300	Brasilia, Brazil	11745
		Johannesburg, So. Africa	5980, 6010, 9615
6:00-8:00pm	0200-0400	Melbourne, Australia	15395, 17795
6:30-7:00pm	0230-0300	Montreal, Canada (M-F)	5960, 9755 (As It Happens)
		Stockholm, Sweden	9695, 11705
		Hilversum, Holland	6165b, 9590b
		London, England	5975, 6175w, 7325
7:00-7:30pm	0300-0330	Lisbon, Portugal	6090
		Montreal, Canada	5960, 9755
7:00-8:00pm	0300-0400	Ankara, Turkey	9560
7:00-9:00pm	0300-0500	Peking, China	11970, 15385, 15520 (to 0400)
7:00-11:00pm	0300-0700	Moscow, USSR (via Khab.)	7260, 9685, 9795, 11710, 12010, 15470
7:15-7:30pm	0315-0330	*Paris, France	9800/11670/11995 gu
7:30-8:00pm	0330-0400	Stockholm, Sweden	11705
7:30-8:30pm	0330-0430	London, England	5975, 6175w
		Seoul, So. Korea	9570
		Havana, Cuba	6090
7:30-10:00pm	0330-0600	Athens, Greece	9420, 9855, 11645
7:40-7:50pm	0340-0350		
8:00-8:30pm	0400-0430	Bucharest, Romania	5990, 9570, 11940
		Montreal, Canada	5960, 9755
8:00-9:00pm	0400-0500	Buenos Aires, Argentina	9690, 11710
		Managua, Nicaragua	6015
		Sofia, Bulgaria	7115
		TWR, Bonaire, NWI	9535
8:30-9:00pm	0430-0500	Berne, Switzerland	9725, 12035
		Vienna, Austria	5945, 6000, 9635
8:30-11:30pm	0430-0700	London, England	6175w, 9510w
9:00-9:15pm	0500-0515	Jerusalem, Israel	9009, 9425, 9440, 9815
9:00-9:50pm	0500-0550	Cologne, W. Germany	5960, 6130, 9545w, 9690, 11705w
9:00-10:00pm	0500-0600	Madrid, Spain	5970, 6125, 9630
9:30-10:25pm	0530-0625	Hilversum, Holland	6165b, 9715b



APRIL 1985

# Listeners Notebook

GLENN HAUSER, Box 490756, Fort Lauderdale FL 33349

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**AFGHANISTAN** R Afghanistan, 9575, USSR relay, 1700-1730\* AR pgm, strong; preceded by R Peace & Progress in EG from 1630 on same fq 18/2; my unID since 1/12 (cf Feb LN-20) (Ernie Behr, Kenora Ont, 24/2) R Afgh replaced 5905 by 9665 for ES 1730-1930, // 7320; EG 1900 (WBI 7/3)

**ANGOLA** Emissor Regional do Huambo has two different nets at night; 3346 in PT 1900-2100, and 5061 in Umbundo lang. E R Huila at 1800 on 3994 ex-3970; Luanda RNA dropped 3355, now hrd only on 5336v (Richard Gimbey, Boputhatswana, RSA, RN Media Network 21/2) Em Reg do Namibe on new 5402.7 ex-5014v, 20/2 0512-0543 G w/heavily percussioned hlife & nice local merengue. IDs 0514, 0530, tnx Crawford (Terry Krueger & W J Parks 16/2, DX South Florida) RNA on new 5365.9 \*0405 in PT, IS, NA, native chants, ID, march, into hi-life mx, G; not hrd on 5334v; 9/3 (Gary Hickerson, Ft Smith AR) RNA in vern 17/3 0038 on 5365.5 (Juan Carlos Codina, Lima Perú) "R Madrugada" pgm from R Nacional, 9535, 5/3 0310-0347, apparently reactivated fq during 0000-0530 period; hlife; 0330 "R Madrugada" ID, into PT version of Guantamera & other merengue songs. VG til killed by TWR Bonaire carrier 0347 (Terry Krueger, DXSF) R Havana reported 23/2 that 13 technicians from Cuban Institute of R & TV had helped in installation of being studios and control equipment at radio stns in provinces of Mexico, Huila, Uige and Namibe. Also helped to repair equipment at main RNA stn. Also teaching radio technology theory and practical courses to 20 Angolan students. A cameraman, a technician and a childrens' pgm adviser were assisting Angolan TV (WBI 7/3)

**ANTARCTICA** R Nacional Arcángel San Gabriel, 15473.8, very strong 17/3 2345-0040\*, more than 1 kW maybe? EZ mx, W in SP, M & W IDs, 'taps', s/off; SINPO 33322 (Gary C Hickerson, Ft Smith AR) AFAN McMurdo presumed, 6012 4/3 1009-1037, some audio w/threshold pop mx, 1054 Nicaragua 6014.7 s/on took this out (Bob Wilkner, Lauderdale Lakes FL, DXSF)

**ARGENTINA** RAE booming in on new? 9690 in EG at 0400 // 11710 also ancd at 0200 10/3 (Grant Lochmiller, Denison IA) One air sked given for RAE in EG for M85 is: 1200 & 1800 on 15345, 0100 & 0400 on 9690 & 11710 (Bruce MacGibbon, OR, SPEEDXGRAM) I.e. completely changed (gh) /more, IMI

**AUSTRALIA** VLV15 noted quite early, at 0027 8/2 on 15425 w/"AM Show" (Dale Park, Honolulu HI)

**AUSTRIA** Technical details of ORF's current M85 usage of 6000 kHz 23 hours a day: 0000-0200 300 kW curtain turntable at 310° to NAM; 0200-0400 same but 500 kW; 0400-0600 500 kW curtain turntable at 325° to WNA; 0600-1800 10 kW vertical cage nondirectional to Eu; 1800-2300 same but 50 kW, all from Moosbrunn. Highest fq currently sked is 15465, 1700-1900 SAF (ORF 12/2)

**BANGLADESH** RB xmsn sked for M85 shows use of 22mb channel 13670; confirmed, // 9855 1600-1800 in AR & EG to ME (WBI 7/3) Nfs for EG to SEAs 1230-1300 M85 are 17670 11935 (Padula & Bunn, R Australia Talkback 24/3) Well, was on 11935 in D season (gh)

**BELGIUM** BRT EG sked effective 31/3 - 28/9: M-F 0800-0855 9880; Sat 0910-0930 9880; 1300-1355 Mon-Sat on 15590; 0030-0125 5910 NAM, 9925 SAM daily. If propagation allows, June-Sept sked will show 9925 NAM, 11620 SAM at 0030 (Jim Conrad, Waterloo IA)

**BELIZE** RB hrd on 1660 // 3285 1/3 0145, EG political celebration w/mx & speeches (Chuck Oliver, Spring TX) 1660 = 2 x 830

**BHUTAN** NYAB made some changes in EG pgm format this year. Half hour pgm begins w/nx, then usual mx request pgm; 15 mins in it has short PSA instead of nx and continues w/mx to end. Wed & Fri bcs still on 3395 and here comes best from 1300 when RRI Tanjung Karang weakens out. Sun bcs hrd very well nowadays w/fqs varying largely, e.g. 6890, 6935, etc. 10/2 was on 6975 0830-0900 w/EG; instead of usual pgm had mx of HM King's visit to India; in that report I hrd that Indian govt'll assist Bhutanese govt to build many things like road, dam,

and will give one 60 kW SW xmtr to R NYAB (Prodyut Banerjee, Calcutta, Jan 1980 ADXR)

**BOLIVIA** R Juan XXIII, 4965, from \*1000 w/ID, Aymará & SP rel pgms to 1040 s/out 20/2; anc: "TV Católica del Oriente Boliviano", in San Ignacio de Velasco; now one of the strongest G's hrd, must have increased power (Ernie Behr, Ont) R Machado, 5450.5, San Ramón de la Ribera active again as hrd 12/2 0010. Rdf Camargo, 3390.2, hrd at first check 28/2 0950 w/politic al commentaries. R Cutervo not on the air this day, so Bolivian in the clear. Pgm uses theme from Bizet's "Carmen," "March of the 'Toreadores'", ending at 0058, ID. First time hrd here in many months, due to ever-present Cutervo on 3389.8. Previously unID, s/n on 4501.3 is R Galaxia, Guayaramerín, ex-5161.8 where hrd in Dec; but very difficult on this channel due to heavy RTTY QRM. R La Voz del Valle, Punata, Cochabamba, 6340.0 hrd at first check 8/3 2320 w/Mexican boleros, late Argentine zambas; heavy RTTY QRM; 2337 ID confirming it was this stn on 4th harmonic of 1585 (Juan Carlos Codina, Lima, Perú) R Estación Frontera, Cobi- ja, 2499.9 is 2nd harmonic since hrd 13/3 IDing for 1250 kHz onda media; not listed there in WRTH (ibid.) CP222, R San José, San José, Oruro, 5985 at 0900-0200. R San Miguel hrd on 3310, ex-3315, nom 3320. R Santa Rosa de Yacuma, in town of same name, in provincia de Ba- llivián, Departamento Beni, on 4440 ex-4195. R Cristal active again on 5005. R Centinela, Tupiza on 5915 ex-5930. R Santa Cruz active again on 6137 (Rogildo Fontenelle Aragao, Boli- via, WRTH IA-NL 18/2) R Comarapa, 4090; R Em Bolivia, 4756; R Trópico, 4775; R Ibaré, 4959; R Indoamérica, 6175 are all inactive. New on 4300 is R Urkupina, Machiri, Depto Oruro w/ s/off at 0240. R Galaxia on 4500 ex-5159 at 1000-2200 (Fontenelle, WRTH IA-NL 1/3)

**BRAZIL** IFRB has approved a new basic plan for 49mb stns involving a great many freq changes: 5955 R Gazeta, São Paulo; 5965 R Rio Grande do Sul, Porto Alegre [now R Pampa]; 5970 R Ita- tiáia, Belo Horizonte; 5975 Ceará R Clube, Fortaleza; 5980 R Guarujá, Florianópolis; 5990 R MEC, Rio; 6000 R Guaíba, Porto Alegre; 6010 R Inconfidência, Belo Horizonte; 6020 R Educado- ra da Bahia, Salvador; 6020 R Gaúcha, Porto Alegre; 6030 R Tupi, Rio; 6040 R Clube Paranaense Curitiba; 6050 R Guarani, Belo Horizonte; 6060 R Universo, Curitiba; 6070 R Capital, Rio; 6080 R Jornal do Comércio, Recife; 6080 R Cultura, Foz do Iguaçu; 6090 R Bandeirantes, São Paulo; 6105 R Globo, Rio; 6120 R Globo, São Paulo; 6135 R Aparecida, Aparecida; 6150 R Record São Paulo; 6165 R Cultura, São Paulo; 6175 R Nacional (RadioBrás), Brasília. Powers range from 1 to 25 kW except 6175 which is 250 (Cláudio R Moraes via Olle Alm, SW Info, Sweden, 24/2 via RIB 97 where there are further details of power, schedules, former freq; unknown when these will go into effect; probably not all at once) R Cultura do Pará 5045, EG ID at 0230 asking for reports to Belém; also GM & SP ID, then back to PT, 21/2; big signal level (Mitch Sams, Wichita KS) Same stn 10/2 2354-0016 including same EG ID at 0005; first time I've noted any EG from this one! (Richard A D'Angelo, Wyomissing PA) Same stn 19/2 0129-0210 incl 0203 EG ID, then GM, SP, PT; poor (Chuck Bolland, Lakeworth FL) As of Feb, Sun sked of R Nacional, Porto Velho RO on 4945 is 0800-0100; Cláudio R Moraes says R Educadora, Guajará Mirim RO on 3375 operates 0900-2200; R Nacional da Amazônia, Brasília on 6065 sked 0800 (Sun 0900)-1600 (Antônio R da Motta, São José dos Campos SP, via R Nuevo Mundo) Note 3375 stn a- bove--in international twin city to Bolivia's Guayaramerín, across the Mamoré river (gh) R Cacique Sorocaba, 2470, sent QSL letter in 257 days, no rp, v/s Paulo Roberto Machado, Chefe do Jornalismo (Antônio Ribeiro da Motta, Play-DX 18/2)

**BURKINA FASO** R Burkina at G level 24/2 0630-0700+ on 4815; no QRM from Africa #1, but some static and slight high pitch het. Very poor sound; mainly M anc in FR, some local mx, clear ID as "R Burkina" at 0700; 'd like to write them and wonder if addr still BP 7029 and if they accept reports in EG (Chris Bagge, Springfield MA) That's the addr in WRTH 85, and they have a token weekly half hour in EG, so why not? But no mention of any QSLing (gh)

**BURMA** Burmese Army Stn at Taunggyi in Shan State is once again hrd on 5060, from arnd 1200 to 1330\* Pgmns not //w/BBS 5985 or 4725 (Sarath Weerakoon, Sri Lanka, SCDX 12/2)

**BURUNDI** LVR, 3300, 21/2 0450 when TGNA gone leaving freq clear on G Af nite; no ID, but def FR anc w/intros to several Af hi-life tunes and some US pop mx; lang change to vern 0500 w/ M anc (Mitch Sams, Wichita KS)

**BYELORUSSIAN SSR** Letter from stn says Minsk now has ES in GM & EG on 2nd & 4th sats, such as 23/3 at 2100-2130 EG, 2130-2200 GM to Eu 6120 6185 7420 (RN Media Network 14/3)

**CAMEROON** Yaoundé on 9745 at 2145-2115 in EG for half an hour! 26/1: 2045 ID "This is Yaoundé, the Natl Svc of R Cameroun. We now bring you our program in EG." 15 mins of hi-life mx & some annts followed by usual EG nx. Obviously length of EG pgm somewhat erratic; see Jan & Feb LN (Richard A D'Angelo, Wyomissing PA) R Bertoua, reactivated 4750 after 13-month absence! 10/2 & since 1835-2301\* FR pgm w/Af folk mx at t/in, clear IDs like "R Bertoua, stn provincial de la Radiodiffusion du Cameroun" or simply "R Bertoua". Ancg 4750 & MW, pgm run- down for evening, TCS, Elton John pops. 1900 all stns from Cam joined Yaoundé for spl pgm on "19th Youth Day" w/presidential speech surrounded by Natl Anthem. Xltn to EG followed con- cluding w/"Long live Cameroonian youth. Long live the Republic of Cameroun!" This puts an end to receiving R Lubumbashi [Zaire] on roughly the same channel, unfortunately. Bertoua much stronger now than in late '83 prior to lengthy absence, suggesting they got new xmtr (Bernhard Gruendl, Stuttgart, GFR, Ozark Mt DX Club DX Log 10/3) R Bertoua fair & readable 13/2 2157-2220\* arnd 4750; annoying low pitch het; R Nationale IS at 2200 & NA at 2220\*, all in FR (Chris Bagge, Spfld MA) 4750 RF 10/2 2230-2301\*, big-band era mx (John Santosuosso, FL, DXSF)

**CANADA** RCI reorganized weekend pgming, 9/3, all of which is now produced by Ian McFar- land; SWL Digest now complete with entire DX news on all 4 broadcasts, two of which are re-

timed, so full sked is now: Sat 1935 on 17875 15325 11945 + Daventry relays; 2135 on 17875 17820 15325 15150 11945; Sun 2306 on 17170 9755; GMT Mon 0406 [presumably back to 0306 w/DST] on 9755 5960. A 5th repeat is on Tue 1910 17820 15260 minus DX news (gh) CBCNQSWS reactivated 9625, first hrd 26/2 on all-day sked, G sig to fade arnd 0300 (Grant Lochmiller, Denison IA) // 6065, 11720 or 6195, 1158-0608, 1 hr earlier w/DST; guess they finished installing new 100 kW xmtr at Sackville, but I wonder at what power they are actually running the NS fqs (gh) Future plans ment'd by RCI Director 27/2: regular daily pgms in JP, and addition of AR to ME (WBI 7/3)

CAPE VERDE R V de São Vicente hrd to 0102\* on 3927.7 incl 2300 Pop mx, 2329 TC, 4 chimes, ID & local nx in PT (Larry Cunningham, OH, SRI SSWMGR 7/3)

CHAD R Moundou hrd on 5287.7 at 0510, F-G (Gary C Hickerson, Ft Smith AR, 9/3 = date of rept)

CHINA R Beijing still using 9550 // 9730 at 1500 (Grant Lochmiller, Denison IA, mid-Mar) 9730 has EG pgms 1400-1456\* & 1500-1556\* G 19/2 but often QRMoscov. unID on 5090 from \*1316 CH talx & mx to 1430 f/out 18/2; opens in mid-pgm & has TS at 1400; any info? (Ernie Behr, Ont)

COLOMBIA Stn on 3270 first noted 24/2 1038 w/mx u/heavy RTTY; 1113 ending CARACOL nx, several ments of the net; assume harmonic 3 x 1090 (Don Moore, Quito, Ecuador) WRTH 85 has two affiliates listed: LV de la Selva, Florencia; and CARACOL Sogamoso [sic] (gh) R Sutatenza, 5095 2/2 2040 w/EG lessons, poor (Don Moore, Machala, Ecuador) R Sutatenza, 5095, 10/2 E level & clarity, no QRM, but always ut CWQRM on 5097; last night s/off 0502 w/anthem; tonite on past 0550 w/usual pgm; since this date have hrd much later. Usually, all winter long this one s/ off punxially 0400; some sources say it's now 24h (Bob Palmer, Spokane WA) R Nacional on 17713 at 1700 3/2, screaming rock instead of usual classical; ID as HJMB (Chuck Oliver, Spring TX) Mystery resolved re Voz de Colombia hrd a while ago by Cotroneo on 1500 kHz; it's R La Voz de la Feira, Manizales, which is part of a network called LV de Colombia, w/local [? network?] nx only at 0030-0035 & 0230-0235 & 0255-0300 Mon-Fri. No local nx on Sat (H Klemetz, Colombia, ARC via Pld-DX 4/3) May have some application to SW (gh) CARACOL Carreño 5936, ppd cd & form letter rxd; says name of stn is that but stationary & stn stamp bear name "Emisora La Voz del Orinoco". Furthermore, letter states that stn has now received the name La Voz de Marandú in honor of a new city or development named Ciudad de Marandú now being planned. W/s Eliécer León, Director. Power listed as 10 kW (Henry Lazarus, LA, DXSF)

COSTA RICA R Universidad, 6105.6, from \*1258 w/IS, NA, SP talks & orch mx to 1330 f/out; F since 15/2 (Ernie Behr, Ont, 24/2) Skeds of San José stns: R Columbia, 4825, 24h. R Faro del Caribe, 5045, 6175 and 9645 1030-0300. R Nacional, 6035 1000-0600. R Reloj 4832 & 6006 24h. R Univ de CR, 6105, 1300-0400. R Rumbo, 6075, 1300-0600. R Impacto, 6150, 24h (Álvaro Moya, San José via Gabriel Iván Barrera, 27/12, Radio Nuevo Mundo)

CURACAO R Earth has filed an application to set up a SW xmtr here, but this does not rule out the eventual establishment of another site; a stock sale to raise \$750,000 for the project will soon be announced, w/more info at EDXC & ANARCON; see also DOMINICAN REP (gh)

CYPRUS CBC, 7180, from \*2210 w/IS, GK nx & mx to 2244\* vy strong 16/2, but next day u/BBC Singapore; sked Fri/Sat/Sun; no // fq found on 31 or 49m (Ernie Behr, Kenora Ont) 6030 (WBI)

CHILE Skeds of Stgo stns, as obtained on recent visits to them: R Minería, daily 1000-2105 on 9750 10 kW; V by QSL, Casilla 2626; v/s Sr Lucas González Rivera, Gerente Técnico, Radiomisoras Portales, sporadic only on SW 6020; very rarely QSLs by letter from Jefe Técnico, Sr Palacios, Casilla 13962; 10 kW. R Nacional, only active on 9550 & 15140 100 kW each, daily 0930-0300. V/s Sr Fernando Cuevas M., Jefe Dpto. Comercial. R Agricultura on 9630 daily 1030-2330 10 kW; 100% QSL letter via Carlos Toledo Verdugo, Casilla 166, San Fernando, if 2 IRCS are enclosed (Gabriel Iván Barrera, Buenos Aires, 15/2) R Agricultura, 9630, hrd 0100-0314\* SP nx, quake msgs & mx, vy strong 8/3 & other days, not 2330\* as above; R Nacional 9550 hrd same time w/nx, msgs & mx to 0304\*; had msgs for Chileans in Winnipeg & Costa Rica, 8/3 (Ernie Behr, Kenora Ont, 10/3) R Nacional DS announces that 15140 is its intl fq beamed to the US, // 9550 (WBI 14/3) Believe it, almost always good signal, incidentally covering most of NW SA and CA and Caribbean on the way (gh)

DOMINICAN REPUBLIC Because of generally poor reception and the need to concentrate on advancing on other fronts, R Earth's last day on R Clarín was 31/3. A number of possible replacement outlets were under consideration [not including WRNO!] (Jeff White, Chicago, 25/3)

ECUADOR R Omega, "R.G.", Guachanamá, Loja, on 6577.9 seems to be a change of name from the old R-J-uno, La Voz de la Juventud; first hrd w/new ID 13/2 0020, 10/3 had 'mensajes musicales' format, Ec folk mx, 0052 old canned echo-effect ID as "R LV de la Juventud" so maybe reverted to old name? R Gonzanamá, Cantón Gonzanamá, Loja hrd regularly evenings on 4271.1, G sig till late in eves (Juan Carlos Godina, Lima, Perú)

FINLAND IMI

FAIKLAND ISLANDS FIBS on 3958 at 0317-0502 on 29/1; weekly mx pgm to 0330, from BBCWS7, then local DJ; played "Eye of the Tiger", "Lover Boy". Interviewed a WWII hero. Phone calls from listeners. Played Sinatra's "My Way" for listeners Bordon & Belle. Refs to Port Stanley and the Falklands. Much han slop. BBC was on 3955; SIO 222-211 (Richard A D Angelo, PA)

FRANCE/FRENCH GULANA/GABON/SRI LANKA RFI reported that the TDF relay stn in Montsinery, F Guiana, 'd been off'ly inaug'd 21/2. Altho it'd been constructed to enable RFI to be hrd in all IAm & Carib countries, it'd soon be used too for pgms to Af. Eleventh ant UC beamed towards WAF where it'd reinforce RFI via France & Gabon. Guiana stn linked via satellite and equipped w/3 500 kW xmtrs. RFI pres said no intention of neglecting longstanding listeners

in EEU & Af on pretext of conquering 'virgin shores'. As soon as RFI was able to cover whole world, it'd then think about specialising, by taking into account diff cultures and fact that some listeners wanted to hear France in their own lang. That's why RFI developing pgms in spl langs alongside WS in FR. From Montsinery, e.g., RFI now bcng 5h a day in SP, 2 in Brazilian, one in EG, in addn to 7h in FR (WBI 28/2) RFI and it'd be hrd longer and better from 3/3 due to redeployment of existing eqp and because Guiana relay now fully opl. This'd benefit listeners not only in Lam but also Af. For several yrs, bcs from Issoudun, France xmtrs 'd been reinforced by xmtrs from Moyabi, Gabon relay. These facilities now'd be used more extensively. Indian Ocean & SAF listeners'd find back-up xmtrs from Moyabi starting an hour earlier, 0300-0500 on 7135, 0500-0600 on 11880, WAF backup 0700-0800 on 11880, and evcs extended an hour on 9790 to 2300 ex-2200. France-Inter report 27/2 on Montsinery said it'd already allowed RFI to double audiance and increase SWBC capacity by 30%. RFI M85 sked shows SP to Lam increased from 3 to 5h a day; Lam svc overall in FR/EG/SP/PT now 2200-0600 & 1000-1700; in addn to 2300-0030, RFI now FR WS to SEAs 1500-1700 (WBI 7/3) RFI March newsletter says during 1985 will start half-hour svc in Creole for Carib; and w/TDF hopes soon to have xmtr in Sri Lanka 'opening doors to the immense continent of Asia' (WBI 14/3) I.e. using DW facilities (gh) RFI M85 sked shows NAM svc in FR, as retimed 31/3: 1030-1200 11690, 1030-1600 15365, 1300-1700 17720, but this fq also to Cam at 1030-1600. Also FR 2200-2300 9790 & 11995 and 0000-0030 & 0130-0200 on 9790 and 6140; in SP on latter two 2300-2400 & 0030-0130. Tho it'd obviously be easy to designate EG bcs later for NAM, officially they are only for CAM, SAM, and Af: 0315-0330 & 0345-0400 9800 11995 11670 7135 9545 6175. 0415-0430 & 0445-0500 on 7135 9790 9545 11880 9535 9550 6055 9800 (gh) RFI causing slight QRM u/BBC on 6175 at 0300 FR & 0315 EG nx (Grant Lochmiller, Denison IA) & see GUIANA FRENCH below

GERMANY WEST Ungood news from DW; in response to my reception report on Antigua relay, I received a no-data card w/mimeo letter which partly says: "At present DW does not issue QSL cards containing detailed data. You will, however, rx a QSL card confirming that the fq you hrd is correct... The number of reception reports to be confirmed by QSL cards is increasing continuously. This fact leads to an increasing amount of work to be done by members of our dept... We do not state the following data on our QSL cards: time, fq, data [sic] and location of xmtr... Neither QSL cards prepared by our listeners nor stamped cards can be accepted since these special measures would question our regulation and make work more difficult... You can contribute to a faster confirmation of your reports by enclosing an envelope containing your addr... It is not necessary to send stamps." (Joe Polchlopek, Virginia Beach VA, 15/3) Latest DW sked for EG to NAM as of 3/3: 0100-0150 6040 6085 6145 9545 9565 11785, 0500-0550 5960 6130(ex-6120) 9545 9690 11705. Direct xmtrs from Germany on 31mb & 25mb have been very weak as of late. MUF to Eu has been dipping down to about 9 MHz. This is mainly due to the low sunspot count, I guess (Eric Falkenhan, Baltimore MD)

GREENLAND R Greenland, tent, in Danish 12/2 2335 on 3999.0 (Juan Carlos Codina, Lima, Peru)

GUAM KTWR changed 4/2 EG 1500-1530 to 9525 ex-9535; 5/2 introed new 9820 for India & SEAs in EG & Indian langs 1415-1600 ex-11920; EG on 17790 now 0000-0030 M-F, -0100 Sat & Sun (Robert Chester, RA Japanese DX Time 24/2) 9820 at 1420-1600 includes EG, Assamese, Santhili, Oriya, Bengali, Hindi w/EG at 1500-1530 (Bob Padula, RA JP DX Times 17/3) & has applied for 9870, maybe ex-9525, at 1500 (Victor Goonetilleke, Sri Lanka, RNMN 28/2) No, EG on 9820 is 1420-1430, then UD, 1500 BG (Arthur Cushen, RNMN 7/3)

GUATEMALA R Maya de Barillas, on new 3324.8 at 1204-1300 f/out 23/1, rel pgm in SP, vern; ID 1205; QRM from RRI 3325.0 and China 3320 (Sasaki, Radio Nuevo Mundo, Japan)

GUIANA FRENCH RFI relay, 6055 // 9800 from 0400 FR, 0445 EG nx, 0500 SP to 0600\*, both vy strong since 6/3 (Ernie Behr, Kenora Ont)

GUINEA-BISSAU Radiodifusão Portuguesa reported 22/2 that a meeting of the Port-Guinean Mixed Committee had discussed in Lisbon the framework of a plan of coop in being by which Portugal 'd participate in construxion & equipping of new installations for Bissau Radio at Nhadra, some 30 km from Bissau. RDP was drawing up a plan of coop w/its GB counterpart, which 'd include on-the-spot staff training as well as training courses in Portugal (WBI 28/2)

HONDURAS LV del Junco, 22/2 0050-0104 excellent on 12151.5, 2 x 6075.75 w/SP M DJ, IDs, US pop mx requests and listener cards from El Salvador and Guatemala read (Terry Krueger, DXSF)

HONG KONG Construxion begins this month on BBC's long-discussed relay stn at Tsang Tsui in the eastern New Territories. Bldg work and test xmtrs should be completed by end of 1986, so that the relay stn could begin regular svc early in 1987. Two 300 kW xmtrs and 5 vertical ants are being built at a cost of approx \$11 million (Asian Broadcasting, via SCDX 12/2) Target date is late 1987 (BBC Waveguide 20/3) I guess they figure a decade or so of use before China takeover 'll be worth it, if not continuing thereafter (gh)

ICELAND Reykjavik now sked for new 9859; complete sked is 13797 1215-1245 omni-directional/dipole [so vertical?], 1245-1315 rhombic 128° to UK/Eu; 1315-1345 256° rhombic to Nam; 9859 1855-1935 omni, 1935-2010 omni/dir for Eur; 2010-2045 dir to Nam, 2230-2305 dir to Nam, All 10 kW PEP A3H (NDRG via March ADXN) ISBS on 9859 USB, hrd in IC \*1855-2045\* & \*2230-2305\*, vy strong 15/2, better than most Eu stns (Ernie Behr, Kenora Ont) New 9860 hrd 1945 (Hicker-

INDIA AIR EG at 2200-2300 now shifted from long-time odd fq of 9912 to 9910 (Lor- son, AR) enz Wiedemann, GDR, SCDX 19/2) AIR Bombay on 9615, from 1415 SAs mx, talk to 1444\*; strong over DW 21/2, other days u/QRM (Ernie Behr, Ont) We are aware that since Nov 1984, AIR ES

using new addl channel 11795 at 1000 in EG. One enthusiastic DXer from overseas happened to send a report on it to AIR and per the AIR DX pgm, which I hrd in mid-Jan, they were wondering how that DXer could hear them on such freq that they were not using! In addn, the AIR DX pgm is almost like a mbg pgm only acknowledging reports. Once in a while there are some technical talks, etc. It is high time that they improved their DX pgm (José Jacob, India, IDXCI ADXR) New AIR outlet on 6055 at 0800; seems Delhi w/EG nx 0830; Bhopal on 5990 at 0235 not listed in WRTVH 84. 7298 Aizawl hrd at 0800 mixing w/Penang [sic--see Malaysia] with usual Miro mix (Victor Goonetilleke, Sri Lanka, UADX Nov-Dec)

INDONESIA RRI Ternate, tent on 3345, 27/2 1200 w/pop & country mx, Indo lang?, W ancr. no clear ID, heavy ute QRM, SIO 222, 14/3 at 1220 on 3345, W in Indo, local pop mx, 1230 ID as Pontianak, not Ternate as I had thought; then M w/mx, SINPO 23232; followed by unID, qv (Gary C Hickerson, Ft Smith AR) RRI Purwokerto on new 2472, hr 1700-2000 ex-2300 kHz (E H Pranoto Semarang, Indonesia, RA JP DX Time 10/3) RRI Palembang and Banda Aceh (ex-3905) are [both] hrd on 2433--Banda Aceh to 1800\* but Palembang continuing past 1845. No doubt that RRI are now 24h w/SW channels used appropriately to suit propagation condx. Palembang on 4855 and B-A 4955 s/off as usual at 1600. 120mb has become very exciting w/several Indos hrd late in the night such as: 2390 unID, maybe RRI Cirebon past 1800 9/1; 2475 unID perhaps Angkatan Bersenjata, the military stn in Jakarta which is only one listed here; past 1830 perhaps entertaining the armed forces. 2490 RRI Semarang past 1900 u/Fujian Front; 2520 unID past 1700 relaying Jak nx. Two stns logged w/positive IDs are 3810 V[ariable?] RPDT2 Labuan Batu in Rantanrapkat, [and] 3460v RPKD Langsa. Badly-modulated non-RRI stn on 3580 +1300-1600 RPDT2 Asahas in Kisaran in Northern Sumatra is the stn I could think of (Sarath Weerakoon, Sri Lanka, Nov-Dec UADX) On RA Talkback 24/3, Mark Warner gave a very negative review of the 1985 WRTVH: "Indonesian sexion is beyond belief--no RPD freqs are listed" because of erroneous assumption that they had all left SW; "As & Pac sexions full of errors which should have been fixed..." (gh) RRI, Jakarta, Natl Pgm, DS in Indo: 2155-0100, 0100-0455 Sun, 0455-0800. 0955-1610; freqs: 2155/0800 11770 9680 7270 6045 2332; 0955-1610 same. Pgm on this which are also bc via RRI regional stns: 2200-2210 News, 2300-2330 News and (not Mon) press review; 0000-0030 News and commentary; 1200-1230 News and commentary except Sunday Parliamentary report. 1300-1330 Economic/financial nx; 1310-1325 [sic, these two obviously overlap/conflict] Archipelago News, 1500-1530 News. Local pgm Khusus on 4775 & 3277 2155-0100, 0100-0200 Sun, 0800-1500; relays natl pgm at certain times, no further details. (WBI 14/2) more, IMI

IRAN Four new high power xmtrs are on and 4 more are on the way; tent J85 sked shows lots of new 500 kW freqs; M85 has 9525 at 1600-2200 but unhrd (Andy Sennitt, WRTVH, RNMN 21/3) VOIRI reported 9/2 that Managing Director of stn estimated that following Islamic Revolution, 16 radio & TV xmtrs were required to improve domestic & external coverage of the Voice & Vision. Of these, 11 had already been commissioned. At present 84% of total population had radio & TV coverage. Inhabitants of areas 'd be able to watch Ir TV after xmtns using satellite commenced next year. Added that at present there were 40 radio stns being propaganda in Persian directed against the Islamic Republic of Iran (WBI 14/2) VOIRI on 9022 +1930-2030\* 22/2, EG pgm in nicely today, SIO 3+53+, usually pretty muddy. ID "From our studios in Tehran, this is the Voice of the Islamic Republic of Iran." Trumpet fanfare, anthem, s/on ams, recitation from Quran, then EG xltm, 'live' nxcast 1938; 1950 feature on Malcolm X, 1957 pgm of Soc-Eco nx; 2013 greetings to United Muslim Fighters of Afghanistan & pgm called "Survey of Resistance in Afghanistan." Really on Soviets' case (Richard A D'Angelo, Wyomingising PA) IRAN/IRAQ: Two stns on 5960 & 5961 hrd 23/2 under flutter-jammer from 1330; 5960 perhaps in Farsi but 5961 in AR to 1400 f/out probably VOIRI; same stns hrd in Nov & Dec on 6190/6191 and 9510/9511. Another Farsi pgm hrd 23/2 on 7285 at 1330-1404\*, // 9515, probably Baghdad; then moved to 7290 in AR, // 7120 & 6190 (Ernie Behr, Ont)

#### IRELAND, IMI

ISRAEL TASS reported 8/2 & 9/2 that Israel had consented to setting up VOA stn; said USA authorities 'made lavish promises to add substance to the request, such as 200 megadollars for the operation and permit Israelis to make use of the newest elec eqp.' Tel Aviv favorably reacted to Wash's request, saying VOA won't do Israel's image any harm for its pgms are 'not propaganda'. However, TASS claimed, VOA w/bc time of nearly a kilohour per week long had reputation as mouthpiece for psywar against socialist countries and natl libn mvmts. Spain, Greece and Turkey refused to set up VOA relays on their terms, explaining refusal by clearly inciting character of VOA bcs. And Tel Aviv'd like to make use of money & facilities of VOA for spreading aggressive Zionist ideas and militant anti-communism (WBI 14/2) Newspaper Ha'aretz reported 8/3 that against background of dissatisfaxion w/pgms beamed to USSR by VOA & R Liberty, top elements in Jewish leadership in US & WEu 'd recently been working to establish a new radio stn to be called R Maccabee, which'd concentrate on helping struggle of Soviet Jewry. Initiators wanted to locate its xmtrs in Israel. This'd also been examined for some time by groups within the US Democratic Party. Initiators said policy of RS-lang svcs of VOA, VOI and R Liberty was "too careful, almost servile" to Soviet authorities. Per them this was what many Jewish activists in USSR believed too, and visitors from West had often hrd such complaints during visits to USSR. Said current pgms often served as subject for bitter jokes among Jewish activists. As for setting up stn, suggested two alternatives: new Jewish svc w/in framework of R Liberty (American-financed, via W Germany), or establish new stn R Maccabee, which'd xmit both from US & Israel. In both cases, initiators intended to ask for Israeli approval to locate xmtrs in Israel. Appeared this connected both to internal situation w/in stns and to attempts within & outside them to make further budget cuts; RL & VOA funded from US taxpayers' pocket (WBI 14/3) Israel has agreed to allow RFE/RL as well as VOA xmtns from US relay stn to be built there (CBS TV Evening News 24/3)

**ITALY** Adventist World Radio Italy, xmtr in Forlì is starting testing to EEU countries on 41 & 49 meters at 0800-0900 & Suns 1700-1800 (M Schaay, AWR DX via Play-DX 18/2) Hrd on 6205, 3/3 1300-1330, test IDs & mx, F-G (W Mola, Play-DX) R Earth hrd again testing over R Milano Intl on 7146 & 7295; tests on 9430 suspended (Eckhart Körner, GFR, SCDX 19/2) **UNITED NATIONS**

**IVORY COAST** Rdif Ivoirienne, Abidjan, Natl Svc mainly in FR 0600-1502 11920 7215 4940; 1502-1900 11920 7215; 1900-2100 11920 7215 4940; 2100 4940 -2400\*; including EG not Sun 1800-1900. Various vernacular svcs hrd various days of week on 4940 between 1502 and 1900 including 1845 obituary notices (WBI 28/2) This is quite contrary to Bloch's report in Mar LN that 7215 was the only active SW fq (gh)

**JAPAN** Annual sked revision effective 1/4 for R Japan includes: Regional svcs to NAM moved another quarter-hour later: 0015-0115 on 11710; 0200-0300 on 21640 21610 17825 15195; additional one-hour General svc at 2300, mostly duplicating material in 1300 & 1500 pgms--but the day before or after?--on 7105 15210 15235, and to NAM 17755. 0500 hour to NAM moved to 11950 --also revised block program schedule; full details in RIB 98 (gh)

**JIBUTI** Jibuti Radio-Television (RTD), R Jibuti, Jibuti, on 4780: Sat-Thu: 0300-0430 Somali, 0430-0600 Afar, 0600-0800 Arabic, 0900-1100 Afar, 1100-1300 Somali, 1300-1600 Arabic, 1600-1700 Somali, 1700-1900 Afar. Fridays: 0500-0700 AF, 0700-0900 SM, rest of day same (WBI 14/1)

**KENYA** VOK now regular on 4885 to 2010\*, weekends to 2110\*, presumably 250 kW (Richard 3) Ginbey, Boputhswana, RSA, RN MN 21/3)

**LAOS** NRL, Vientiane, ES to SEAs on 7122v and 1030: 23-2330 TI, 2330-24 VT, 00-0030 CB, 0030-01 FR, 01-0130 EG; 04-0430 CB, 0430-05 VT, 05-0530 TI, 0530-06 FR, 06-0630 EG; 1130-12 TI, 12-1230 VT, 1230-13 CB, 13-1330 FR, 1330-14 EG (WBI 14/2) EG segment is unimaginative and propagandistic, usually w/nx, commentary, communiqués from central committee of Lao Peoples Revolutionary Party (Sarath Weerakoon, Sri Lanka, UADX)

**LEBANON** V of Arab Lebanon is operated from Beirut by the Independent Nasserites Movement "Al-Murabitoun". Stn started in 1975 on MW 970 kHz, and on SW in 1983. Now on 6233 but was first stn hrd on 6204. SW ops described as 'experimental' full sked unk, but daily \*0400; FR nx at 1230 & 1800; EG nx 1300 & 1815; other pgms in AR w/AR & Western mx; many ads. Says antenna is hand-made vertical, 11.5 metres long, xmtr 5 kW; addr: Corniche El-Mazraa, Rue Barbour, Beirut; info rxd w/recent QSL (Robert Yeo, March ADXN) V of Lebanon on 6548.7 27/1: 0000-0139\* in AR talk, local mx, s/off w/anthem at 0138 (Brian Alexander, Mechanicsburg PA, OMDX 24/2)

**LIBERIA** Good chance to hear ELWA now on 11830 from arnd 2045 to 2119\*. Free from WYFR, but has similar pgming; except for some regional Af nx after 2110 (Grant Lochmiller, Denison IA)

**LIBYA** Surprisingly, has left 17930 for its registered fq of 17895, where there is jamming & R Liberty (Andy Sennitt, WRVTH, RNMN 21/2) LJEC on 3200 in AR 0400-0450\* 24/2, varies to 0440\*, // 6155; both strong; other fqs close earlier, cf Feb LN-26 (Ernie Behr, Ont)

**MADAGASCAR** RTVM, 2/2 \*0257 on 5015 about 5 kHz high, in FR, IS for about 35 secs, then corrected to 5010; G sig over weak IAm stn (Shane Mercer, Tyler TX, OMDX DX Log) R Madagascar 9689 \*0500 in FR w/NA (Mike Shockley, SPEEDX, via RA JP DX Time 24/2) /oh, yeah? see LMI

**MALAYSIA** All SW operations from peninsular Malaysia are from Kajang; the SW stn in Penang was dismantled a few years ago. So xmtrs on 9710, 7295 and 4985 listed for Penang are actually in Kajang. Only MW xmtrs remain in Penang (Sarath Weerakoon, Sri Lanka, SCDX 12/2)

**MALI** Bamako reactivated on 4783, 15/2 2315-0001\* w/radio drama, soul mx, ID, NA; weak het de Carabobo (W J Parks, FL, DXSF) VG 15/2 2320-0001\*, no // s found (Steve Reinstein, DXSF) 16/2 2128-0001\*, mix of hifife & EG songs, w/several clear IDs before NA & S/off (Robert Wilkner, DXSF) When I checked this was // and better on 5995 (gh)

**MALTA** IBRA Radio North America now on 9510 2030-2115 in EG ex-6110, via R Mediterranean (Grant Lochmiller, Denison IA, mid-Mar) EG rel pgm & mx 2030-2115\*, v/strong 10/3 (Behr) Hrd 17/3 2030 on 9510, EG pgm including xmtr site ID; E strength (J Lucas, Lindenhurst NY)

**MAURITIUS** MBC on 9709, 5/3 0400-0430 f/out, EG pgm; 0400 time pips and anmt for 8:00, "This is the Mauritius Broadcasting Corporation. Good morning, here's the news for March 5, 1985; first, the headlines." Unseen reported at this time lately; also hrd two more nights but not since (Artie Bigley, San Antonio TX) MBC on 9709, 3, 5/3 0326, EG & FR M anmt in FR, mx IS w/ID, W yells "R Maurice!", Into world & local nx 0332; full ID 0350, "Dancing Queen" remix, 0400 M TC in EG, ID as above; good nx, quite detailed. 0410 ending nx; SIO 343 (Alan Bussie, Gainesville FL, and Phillip Marshall, East Point GA, Banzai DX Klubb) 9709.5, first noted 2/3 0359 w/flll mx, EG nx by W, fade; 3/3 0227-0340 fade w/G sig at t/in, subcont vocals, lang. Woman at 0230 w/seeming English phonetics "MBC" and back to Asian vocals, M talking. 0300 into what seemed FR w/few As songs, 0330 nx. Format & fq fits and sig peak arnd 0230 is near Mauritius sunrise (Terry Krueger, DXSF) 9709.5, MBC FR/Hindi 0234 6/2 strong het on fq at 0230 and audio came on 0234 w/talk by M in presumed Hindi, ID by W 0245, then subcont mx to 0300; chime-like IS, time pips, ID by M in FR, then FR nx to 0305; weak stn in fq, RAI IAm svc but this stronger (W J Parks, DXSF) Under normal condx RAI is on 9710 during this entire time period, including unsked EG at 0350-0410, usually // 9575 (gh)

**MEXICO** RMI has dropped 17765 since 1/2, for 9705 & 15430 at 2000-0500 incl EG nx. XEQ on 9680 w/500 watt relay of 940, 1200-0600 since end of Jan (Christian Zetti, Mexico DF, SCDX 26/2) XEQQ, 9680.3, reactivated fq, relaying XEQ 940, 7/2 1411-1430, iv w/popstar, PSAs, chocolate ads, 8:11 TC, "Q Mexicana, Voz Pública", F-G, but buried 1430 by jammer/beacon WA

(John Wilkins, CO, OMDC DX Log) 9679.9, "La Q de México," 3/2 1454, hrd since 27/2, IDs, jingles by W (Alan Bussie, FL, Banjai DX Klubb) [Cf Mar LN] XEQQ is back on old fq 9680.3, after 24-year absence; opens daily at \*1300/1308v, XEQ IDs, SP talks & choc ads past 1400, 14/2 and other days; talk about 'aniversario de la revolución'; Mex mx on Sun 17/2. XEWW on 9515 same time, 1300-1500 // 6165 & 15176.3; all have better sigs than XERMX. As of 10/3: XEQQ, 9680.3 now hrd at various times from \*1157 to 0603\*; best from s/on to 1500, 0030-0130, 0300-0500, since 5/3; ancg "desde Radiópolis, la ciudad del radio, Ayuntamiento 52" which is next door to XEW at No. 54. Last regular operation was in 1954/55, but was reactivated briefly in 1957 & 1961 (Ernie Behr, Kenora Ont) 9680.4, this one appears here AMs around greline time and PMs after band starts to go out for the evening. AMs, the usual type of AM pgming in Nam w/lots of talk, ads, etc. Eves, mostly Mex mx. IDs variously as "La Q de México." "La Q Mexicana," for MW outlet XEQ, and gives fq as 940; 4/3 (Bob Palmer, Spokane WA) 9680 3 hrd 5/3 1607, variety of local mx, ancd addr as Ayuntamiento 52, so 85 WRTH is wrong (John Wilkins, CO, OMDC) Local level here, 2/3 1616-1645 on 9680.3, jingles, store ads (Krueger, DXSF) R México Internacional noted nightly since 23/2 2310-0140 w/spur on 10285v and 9995v, which are 290 kHz increments from 9705; usual SP pgming (Krueger, FL, DXSF)

MICRONESIA A 25 kW SW xmttr is planned to serve all four Federated States, one of many interesting tidbits in a book from the Asian & Pacific Broadcasting Union about facilities from 1964 thru 1984, price unknown (Andy Sennitt, WRIVH, RNMM 21/3)

MONACO TWR MC hrd in EG on 100 kW xmttrs: daily 0525-0540 11695, 0625-0720 7160, 0731-0910 9495. Also Mon/Fri/Sun 11695 0540-0555; Tue/Sat/Sun 0910-0940 9495; Sun 0940-1000 9495, in effect 31/3 to 4/5. Report via TWR, BP 349, Monte Carlo 98007; IRCs required (CIDX)

MOROCCO Kuwaiti nx agcy KUNA reported from Rabat 2/3 that work began that day on construction of new VOA relay stn; 'd be ready for opn in 1990 andd cost 200 megabux. Moroccan Minister of Economy, who participated in cornerstonelaying, said Morocco'd be able to use stn to convey Morocco's voice to all continents (WBI 7/3) Just as present stn is (gh)

MOZAMBIQUE Emissora Provincial de Sofáia, Beira hrd recently on 9638 w/local pgms in SH & PT, 0310 local mx, quite unstable, formerly on 9643 in Jan (Craig Seager, RA JP DX Time 17/2) On 9637 0507-0530 fade 24/2, vern w/bits of PT, Af pops. A couple of "Radio Mozambique-eh" IDs but no site or svc mentd; TGS; not // 7112 or 9618 (Mitch Sams, Wichita KS) 9637.2, NF R Mozambique, Beira-2, 23/2 0437-0520 down to this fq, listed in WRTH 85 as 9667, recently reported by Padula on 9642, so obviously a gypsy. VG w/SH pgming. not to be confused with TWR-Swaziland on 9640, and bilife. SH M DJ w/sev ID, brief PT ID 0500, mentioning Provincia de Sofala [sic] and back to mx (Terry L Krueger, FL, DXSF) R Mozambique Interprovincial de Maputo e Gaza, 7112v, 0410-0555f, vern & PT. Mostly Afro pop mx, electric guitars, etc. Lang mainly verns w/bits of PT, fq down to 7111 by 0415; 0439 time tone, ID; // 4919 10/2 (Mitch Sams, KS, DXSF)

#### NEPAL LMI

NETHERLANDS RN's complete 'New Era' EG sked since 31/3 w/Flevoland in full opn replacing Lopik: 55 mins u.o.s.: 0430 ME F11720 F9895 [and no doubt Nams will be trying to hear this for Media Network, GMT Thurs first be 21-25 hours ahead of Nam svcs]. 0630-0655 Waf F11930 F9895, 0730 NZ B9630 B9715. 0830-0855 weekdays only Au B9715. 0830-As/ME M 21485. 1030 Au /Carib/Surinam B9650 B6020. 1130 ME/Eu F17605 F9715 F5955; E&SEAs M21480 M17575 F15560. 1430 S&EAs F17605 M17575 F15560 M11740, Eu F5955. 1630 EAF M9515 M6020. 1830 C&WAF B21685 B17605 & Eu F6020, & S&EAF M9540 M6020. 2030 Waf F11740 F11730 M9715 M9540. 0130 ENAM F9895 F6020, 0230 E&BNAM B9590 B6165. 0530 WNAM B9715 B6165 (RN 18/2 via Dick Rush, Oak Ridge TN) Xmsns to AF & As have separate pgming Wed & Fri, even when simultaneous to other targets (gh)

NETHERLANDS ANTILLES TWR M85, and tent for J85 & S85, i.e. changes may axually be made on short notice, complete by fq: 9535 0355-0440 50 kW 327° Nam EG. 9535 0458-0600 80 kW 285° Cam SP. 9535 0603-0700 Mon & 0603-0730 Sat/Sun 80 kW 327° Nam EG. 9665 (ex-9560) 0658-1100 Mon & 0725-1100 other days 50 kW 160° Sam Pt/SP. 11815 1110-1242(Sat -1405, Sun -1337) 50 kW 336° Nam EG. 11875 2210-0235 50 kW 176° Sam SP/PT/RS/SP. 11895 0455-0600 50 kW 172° Sam SP. 11895 0925-1030 250 kW 160° Sam PT/SP. 15355 2255-0045 250 kW 160° Sam PT/GM/SP; 15355 0045-0235 80 kW 172° Sam SP (TWR)

#### OMAN see UKOGBANI

NEW ZEALAND RNZ M85 as revised: Pac 1845-2115 15150 17705; 2345-0145 17705; 0345-0730 11960. Au/PNG 2345-0145 15150, 0345-0730 15150, 1030-1215 9620 11960. Kiwi Radio on 5850 with 30 watts 0700-1000; shortly to increase power and move to 7375 (Arthur Cushen, NZ, RNMM 7/3) That sked is Sat only (Cushen, NZDX Times) R Kiwi, 5850, Hastings, 0800 past 1000 Sat only w/relays of R Waves Intl and R Paradise Intl, along w/own pgming, P-F (John Durham, NZDXT)

NICARAGUA LV de Nic on 6014.7 has been off-fq since mid-1984 & causing its own het, not jammed; however, since 10/3 QRMD by VOA on 6015 in SP from 0200; LVN is an exact clone of R Habana, probably run w/help of Cuban or Soviet 'advisors' (Ernie Behr, Ont) R Sandino, Managua, reactivated! on 6199.8, first hrd 8/3 0013, VG sig (Juan Carlos Codina, Lima, Perú)

PAKISTAN Relay of Azad Kashmir R from Islamabad 1200-1400 after using 4815 has replaced it with 5240v; at 1410-1800 on 4790 (Sarith Weerakoon, Sri Lanka, SCDX 12/2) R Pak has new 10-min EG at 1000 during Urdu pgm, 15595 & 17660v to 17663 (Andy Sennitt, RNMM 21/2) New fq for Pashto/Dari Peshawar pgm via Islamabad is 4655, E at 1230-1600 (Victor Goonetilleke, RNMM 28/2) Is stn hrd at 1030 on 6190 w/test cricket, from where? // Is'bad 9645 for cricket (Victor Goonetilleke, Sri Lanka, UADX Nov-Dec) Relay of Peshawar Pashto by Is'bad now 4775 ex-47 60 1230-1600. Importance of this svc increased considerably since Soviet invasion. 4775 is former fq of Afghanistan for ES & pgm 2 before moving to 6230; any ulterior motive behind Pak

move? ES in Hindi to India on new 5980 & 7315 0100-0215 (Sarath Weerakoon, UADX) After searching found Azad Kashmir R on 4814v 1200-1400 w/het from Peking ex-5990; 1410-1800 still on 4790 while 4890 from \*0045 (Goonetilleke, UADX) This is relay of AKR by Is'bad which announces "Azad Kashmir Radio Trankhel" (Weerakoon, ibid.) R Pak good level 16/1 1710 on 13605, V to 13603/13609; next day steady on 13606; 1730\* NA after Turkish (Jack Searle, Haumoana, NZ DX Times) EG at 1705 on 11690 to Eu, co-channel Spain in AR (Edwin Southwell, SCDX bc 12/3)

**PAPUA NEW GUINEA** Luke Umbo, former stn mgr and v/s at Radio Manus, has been posted to R West Sepik in the same capacity (John Wilkins, CO, CMC 24/2)

**PARAGUAY** Hrd in January when I was in Buenos Aires, a Pgy stn very powerful on 5350.0, very little carrier the DSB and w/amazing signal, mx pgms, some days, sports others. Not much time to follow up for ID but guess it's some kind of relay, like previously on 10 MHz range. Hrd all during Jan, tho irregular, sometimes \*2000 carrier, then xmsn to 0300\* or 0200\*. Or could be xmt problem of 49mb stn, tho powerful sig makes me doubt that. (Juan Carlos Codina, Perú, md-Feb) Could be a PTP feeder; similar stn hrd on 5272 in 1971-2 w/R Nac pgms (Ernie Behr, Ont) It's R Comaneros, Asunción, 5350 USB 13/3 0000-0300; and 21/3 w/fútbol, and // to Mbaracayú, and apparently feeder to that stn; or/and possibly to CARACOL, Colombia, which was // for fútbol (Juan Carlos Codina, Perú, 22/3) In WRTH 85 I spot two MW stns w/names like that: ZP27, 820, R Mbaracayú, Salto de Guairá; and ZP31, 980, R Mburucuyá, Pedro Juan Caballero. Tho Pgy doesn't have very many stns, there are some other wild names, qv (gh)

**PERÚ** R Gran Pajatén, 4485, sent nice 2-page letter, photo, business cd, ppd cd signed & stamped by Milciades Echeverría Puitza, Gerente-Proprietario, in 29 d for SASE which was used. Says 160 watts! Proper addr is: Jirón Ayacucho 319, Celendín, Cajamarca. Says he is from Provincia de Bolívar, Dpto de La Libertad, comes from humble family, studied at Secundaria Nocturna en el Instituto Técnico (Politécnico del Norte) where he took up Radio/TV electronics. Due to his economic condx he left the coast & went back to mtns where he built his xmt using one 6DQ6 tube as oscilador, two 811s as moduladores, and one 813 as amplificador. Has quarter-wave horiz ant using RG-59 coax, mounted 15m hi. Says as of 5/2 he has been off air for a while due to burned out transformador modulador but promises to be back soon on new 4465 w/Improved audio from two 616 tubes and 6SQ7, 6SJ7, etc. Promises spl 'saludos' pgm to be aired 4/3 at 11 pm local during which he'll read my report along w/others from around the world. Milciades is deeply in love w/Inca heritage and culture and named his stn in honor of ancient Incas. Seems a likeable fellow! Reply was sent registered, needing 1.6 kilosoles of postage (Steve Reinstein, DXSP) What means name? 2/2 clipping, source unk, via Ernie Behr:

# Lost city found in Andes

## Civilization flourished for 1,000 years, experts say

**BOULDER, Colo. (AP)**—Ruins of a civilization that flourished for 1,000 years were found by four Colorado adventurers who trekked into the remote Andes of Peru in an exploit worthy of Indiana Jones.

They found elaborately carved burial towers perched atop sheer 300-metre cliffs, 18 buildings, well-preserved pottery and other artifacts of a previously unknown civilization in the South American mountains.

University of Colorado scientists plan to excavate the site in hopes of finding out who lived there and what happened to them.

They say the site, known as **Gran Pajatén**, and an adjacent site called Los Pinchudos may rival the Inca ruins at Machu Picchu in archaeological significance.

The university announced Thursday it had signed a five-year agreement with the Peruvian government to excavate Gran Paja-

ten, which overlooks a nameless river and receives up to five metres of rain annually.

Preliminary investigation indicates the sites may have been inhabited as early as 400 A.D. and as late as 1500 A.D.

No one knows what happened to Gran Pajatén's mysterious inhabitants. But it is thought they may have been killed by disease spread through Peru by early Spanish treasure hunters.

The ruins—deep in the Rio Abiseo National Park in the eastern Andes—were found in July by a team of Boulder adventurers led by archeologist Thomas Len-

non. Dr. Alan Stormo, a Boulder plastic surgeon, had returned from a 1983 vacation to Peru where he saw a 20-year-old clipping reporting Gran Pajatén's existence.

Lennon and Stormo, along with two of Stormo's neighbors, Stan Brenton and John Lovett, raised the two-week expedition. Carrying

their supplies on pack mules, they were led by 12 Peruvian guides.

Before setting out, they said they had no idea "if it was something real, or whether it was just something out of a Peruvian newspaper."

"We had to pack in everything," said Lennon.

"We had everything from dehydrated potatoes to fuel, and not enough bug repellent."

At one point on the rainy hike back to civilization, Brenton lost his footing and somersaulted over a cliff. His most serious injuries were a bruised shoulder and a scalp cut.

Lennon, who will investigate the lost city with fellow archeologist Jane Wheeler, believes a full study of the area could take 15 years and cost about \$200,000 a year.

"This is a major archeological site involving a civilization that is literally unknown, and the slides show a very high level of completeness and preservation," said university president Arnold Weber.

I checked for the DX mbg pgm but could not hear stn on either fq or inbetween; instead BBC SP feeder on 4467 (gh) As of mid-Feb; R Gran Pajatén, Celendín, Cajamarca effectively now on 4485.3 with 30 over 9 signal, so new xmtr w/both sidebands very well modulated, no problems as with former xmtr used in 4200-4100 range. Going til 0445+. Evidently 'new professional equipment' and some time ago when arnd 4200; ancr sometimes made mistakes, ancg "El Canal 4200", then correcting quickly as "El Canal 4485 kilociclos" (Juan Carlos Codina, Lima)

Lots more Peruvian DX news from Juan Carlos Codina: Radio Grau, Huancabamba, Piura, on 4004.9, first noted 10/2 just after connecting my rx after two months of inactivity, 2000 v nice Andean mx, G & very stable signal, 10 over 9. Hrd again 12/2 +2120-0020+ w/variety of mx, mensajes musicales format, S9 sig, sometimes w/hvy fax QRM, Slogan hrd: "La gran estación, Radio Grau, la frecuencia del amor y la amistad". Pgm til 2330\* is called "Al Tic-Tac del Corazón"; at closing anmt gives sked as 0800-2300, but closes daily at 2330\*. No NA at end. Lots of ads for Huancabamba stores; also hrd "en esta ciudad de Huancabamba". Ancg "con estudios en Calle Grau 403, Huancabamba"; 17/2 hrd ancg 4010 kHz. [more Grau mid next page]

R Celendín, Celendín, Cajamarca, 7054.6, confirmed QSY, also seems a new xmtr due to VG strength and because of first QSY in more than two yrs.

R Frecuencia 7 [Siete], Celendín, Cajamarca, 7010.1, new stn first hrd 12/2 2100, when they ancd suspension of xmsns for tech adj; back after 2300, G sig, clear & well mod tho not exceeding S8; 2315 first ID: "Transmite desde la provincia de Celendín Radio Frecuencia 7, la diferencia," going till 0400+. It's the 5th SW in that city, the others being Moderna 4300.1, Celendín 7054.6, Gran Pajatén 4485.3, Nuevo Edén 6814.6--inactive. RF-7 varies 7010.2 to 7010.0.

R Ondas del Oriente, Nuevo Progreso, Huallaga, San Martín, 7310.5, new stn hrd 13/2 2015, ID saying "la nueva radio Ondas del Oriente está contigo, porque siempre está pensando en ti" Could be xmtr formerly used by Selva, which is now on 7196.7v, leased or sold to new stn. Situation resembles the tale of Moderna/Estación C, which also moved to another fq giving the old xmtr to another bcr. Varies in range 7310.9 to 7310.2.

R Tacna, Tacna first hrd on 6562.8 10/2 2100 w/amazing sigs, no longer noted on 3mb. At 2230 has sports pgm, Jornadas Deportivas; slogan: "R Tacna, la radio que está más cerca de Vd" but by mid-Mar hrd on both 6562.5 and 9486 [see below for possible explanation]

R Selva, Moyobamba, San Martín, on 7196.7, first hrd 12/2 2116 w/brazilian mx; 2116 M ancr w/slogan "En Selva, que es más música y menos palabras", a QSY from 7310-7300; varying to 7197.0; going past 0400+ [not to be confused with R 15 de Setiembre also arnd 7195, qv.]

R Ayaviri, Ayaviri, Puno, 5776.9, back here leaving again as it did one year ago, 4606.7. First hrd 12/2 2225 w/cumbias, v strong, to 0330\*; 16/2 on both fqs in //

R Yungay, Yungay, Ancash, 3037.7, first hrd 12/2 2100, 10 over 9; nothing hrd on possible fundamental 1518.8 nor on 4556.5, or on 6075.4, possible other harmonics, so 3 MHz fq must be fundamental; 2320\* w/NA. Also nothing on 1012.6, 2025.2 or 4050.4.

R Santa Cruz, Santa Cruz, Cajamarca, 6657.6, hrd daily arnd here. At the end of Dec when I was vacationing in Santa Teresita, Argentina, 400 km SE of Buenos Aires, also hrd it on 66-40, ancg 6600, as well as all the other Peruvians and Bolivians audible in Perú; also hrd this one when back in Buenos Aires.

R Acunta, Chota, Cajamarca, regular daily in Lima on 5802.

R Eco, Iquitos, Loreto, 5009.8 now; before leaving Perú in Dec it was on or around 5112.

R San Juan de Caraz, Caraz, Ancash, 4733.9; this exotic stn still well hrd here despite possible loggings by Nam DXers arnd 4900.

unID Peruvian on 4501.3, very faint, hrd daily, to closing 0200\*

R Nuevo Cajamarca now on 3924.5 to 3925.6, hrd 12/2 +2200 and at same time R Quiruvilca distorting in range 3933.3 to 3937.7. R Nuevo Cajamarca going till 0230\*: 0150 had folkloric pgm, Por Los Caminos del Ande. Slogan: "R Nuevo Cajamarca, La Número Uno"

unID Peruvian on 3825.2 to 3826.8, first hrd 12/2 0140 w/totally distorted sign, tho marginally listenable in AM, Not so much strength, S8. Huaynos and cumbias andinas, F ancr; distortion made the ID, if any, nearly impossible. Next day arnd 3823.4 0340\*

R San Marcos, San Marcos, Cajamarca, 3182.5, 11/2 0200; next day as early as 2320; as usual, v poor sig, improving however to S9 late at night, going till 0430+, ancg "3180 kilociclos, banda internacional de los 90 metros" 0300 pgm is "Sentimiento Peruano". This stn is of course the old R Universal w/a new name; had been inactive for many months.

[above items cover mid-Feb period only; below ones thru 21/3; by the way, JCC's method is to give evening dates in local terms rather than UTC altho times are of course UTC -gh]

R El Porvenir, El Porvenir, Huamachuco, La Libertad, 3933 apx; new ID and new QTH, distorting as usual; ancg studios in "Calle Hermanos Sangren(tent.) 424, El Porvenir." Remember that this xmtr was formerly in Huamachuco city itself as R Huamachuco, later in Quiruvilca, as R Quiruvilca, and now here. Seems aconstant in the Peruvian northwest, the changes of QTHs for these stns. 0200 begins evangelical mx pgm; announces as usual "3950 kilociclos, banda de 90 (sic) metros" Some days going down to 3916; IDing as "R.E.P."

unID Peruvian on 3823.5 apx, hrd w/SS ballads, distorted, 20/2 0140, closing at 0155 w/ Perú NA; before that hrd partial ID as "La Voz del Río -- " "para todo el nororiente peruano" but distortion made impossible understanding full ID. Following days arnd 3860-3835. Hrd ancg "...la frecuencia de 3845 kcs, banda internacional de 80 metros, onda corta" 1/3 0149. At that time hrd them varying 3842-3840. Generally play cumbias and similar trop mx, but also huaynos from the north. 0210 hrd that in the future they will give news in network w/R Programas del Perú, and w/R Nacional de Tarma; IDs as R Pucayacu (tentative). Pgm after 0150 is "Má-

sica Romántica' but is mainly a cumbias pgm

R Universo, Santa Rosa, Cajamarca, 6815.6: at first thought it was R Santa Cruz, but found that on 6651.2 which 27/2 at 0020 had pgm 'Voces del criollismo'. So this is a new Caj stn. Msgs to people in Bagua Chico area. Very poor at mic tirades, tho respectable in mx punches. Lots of huaynos, pasillos and some cumbias, slightly better strength than R Santa Cruz, which was going downwards to 6649.7. Sometimes w/QRM from north Peruvian PTP ute on 6814.7 USB. Unseems related with long inactive R Nuevo Edén, Celendín, because style is vy different--very few amts on new stn, short dedications, etc. Also much stronger than Nuevo Edén was, and slightly overmodulated, unlike Edén. That stn also bc on slightly diff fq, 6814.6 USB. Msgs to people in Cutervo area, answering msgs radiated via Ilucán 5617.5. 28/2 after 0130 several clear IDs as "...en los estudios de Radio Universo, son las..." Gone at 0200 check. 1/3 hrd closing w/NA 0205\*; 0142 3/3 and "..." en Radio Universo, que transmite desde Santa Rosa, en la localidad de..." On 4/3 hrd opening at 0013 w/NA, saying that due to problems w/rain would be only till 0100; GMT -4 TC said "transmite desde la Provincia localidad de Pucaypas (??), inicia su labor orientada al día de hoy, 4 de marzo de 1985".

R Espinar, Espinar, Cuzco, 6428.3, reactivated, hrd Sat 9/3 w/an 'aficionado' singer pgm; regular signal; irregular since, afternoons and evenings.

R Moquegua, Moquegua, Moquegua, hrd at first aftn check of 31m in several months, so possibly here for many months, but who knows? 10/3 1730 criolla mx, but no sound after 1732 tho carrier remains on; reasonably good sig. Hrd again at 1828 check w/pops. Sig now reaching 10 over 9 in Lima tho sometimes w/audio cuts, as if some problem in the lines. So perhaps testing on SW? Many IDs, slogan "El nivel más alto de la AM". Lasted till 20 or 2100 when overcame by European QRM. On 9651.1

R Bambamarca, Bambamarca, Cajamarca, 5657.2, very well hrd here 10/3 1735, playing old recording of a Lima TV comedy pgm. Sig even stronger than nearby Ilucán 5617.5.

unID Cajamarca stn on 5529.1 apx; distorting 10/3 2110; at same time another distorted Peruvian but far weaker on 5551.2 apx. Both w/huaynos all around. Tentatively they should be San Francisco and Tongod... Last upwarding to 5560 apx. but disappearing around 2138; tentatively mentd location of Yaucán.

R Selecta de Virú, Virú, La Libertad, 6791.5, new stn since 16/3 2330-0456; following days from early morn to 0500\*

R Cochán, Cochán, Cajamarca, 5339.9, same xmtr as former R LV del Oriente which is no longer hrd; since 14/3 0200 to NA 0223\*; following days \*2359 w/NA. (JUAN CARLOS CODINA, LIMA)

R Grau, 4004, 24/2 noted very poor w/RTTY QRM 1019-1024 w/folk mx & M ancr; 1044-1102 P-F w/out RTTY. Vy simple vocal OA mx & flute song; ID 1058 "R Grau, la gran estación", greetings to listeners & staff of R Inca in Lima, after reading letter from someone who said he usually listens to R Inca. Lost at 1102 to RTTY. Name refers to (Miguel?) Grau, Peruvian naval hero of war of the Pacific w/Chile, 1879-1883 (Don Moore, Quito, Ecuador) R Nuevo Continente, 8923 ± 1 kHz, 0040 17/2 F-G w/ballads, M ID (Don Moore Ambato, Ecuador) R Nuevo Cajamarca, 0120-0131 13/2 P w/OA mx, ads incl a ferretería, cerveza San Juan; M ID at half hour; still on at 0205 recheck. R Gran Pajaten 0017-0045 13/2, F-G w/OA mx, M ancr, lots of ads incl Bar-Restaurant El Campesino, and Disco Centro Dos Mil (Don Moore, Puyo, Ecuador) Forgot fqs

R Frecuencia (Juvenil?), clear ID on 7009.9 0330 9/3 but hard to make out last word, possibly the reported R Frecuencia [Siete, above]. Gsig, many ments of Celendín, TC mx, SIO 332 (Alan Bussie, FL and Phil Marshall, GA, Banzai DX Klubb) R Celendín, 7054.6, poor sig, Andean mx, perfect ID taped, 0125 9/3, SIO 232 (ibid.)

R Atlántida, 4790, G sig 23/2 0425 to 0435\* w/NA, not 0500 as in WRTH (Chuck Oliver, TX)

R Mil Diez, 6009.8, 2/3 0805 oncc 24h opn, buckets of modern IAm pops; IDs preceded by electronic zap noises and only once mentd "América", at 0805; "América-Radio Mil Diez..." Some mix w/het from AFAN, 0740-0808 (dan sheedy, Encinitas CA, OHDC) 1010 is their MW fq

R del Pacifico has problems; this evangelical stn is supposed to have QRMd another Lima stn, Panamericana TV, while the latter was transmitting by satellite from Venezuela, mass celebrated by Pope. Unknown if casual or intentional QRM, but State Security has intervened in the case. If found to be intentional, those guilty will be punished in accordance with Law 19020, which imposes fine or cancellation of license. Nevertheless, it's possible that the QRM came about upon reducing audio volume of the TV stn, which operated manually invaded another sector, in this case AM radio, which is near the audio level of TV. So far the QRM has been designated 'an incident of a technical nature' for both stns [This may have lost something in my xltm, but it doesn't make much sense to me in Spanish either -gh].

Altho subversive activity has diminished considerably in the last few months, the Association of Radio Stations has sought guarantees for its member stns in Ayacucho, such as Radio Huanta 2000 and R Amauta, in Huanta and La Mar provinces, from National Security, who have fully endorsed the security and functioning of these stns and the people who work in them.

From February, a new denomination of Peruvian currency went into use. Now it will no longer be called Sol or Soles, but Inti, which is worth a kilosal. Intis are expected to go into circulation shortly, but old Soles will remain in use until they disappear and Intis take over national markets. Thus a simple letter to Europe will cost one Inti, under present rates, but if it goes up we will call it 2, 3 or 4 intis. What nonsense! (Mery Blas, Lima, via Play-DX 4/3)

Regarding R Tacna on 6564, hrd at 0800 2/2 w/Buenos Dias Perú, by António R Da Motta, Brazil, note that 9504 minus twice the MW fq 1470 equals 6564 (Tetsuya Hirahara, R Nuevo Mundo) Well, I guess that's enough about Perú for now... (gh)

PHILIPPINES FEBC M85 EG: SEAs/India 0100-0500 11815, 0000-0100 11915, 0000-0500 15445, 0500-1000 21610; SEAs/India at 130°-1400 11920, 1400-1600 11905 (Bunn & Padula, RA Talkback 24/2) R Veritas Asia new EG sked is 0200-0230 on 15195; 1500-1530 on 9675, the ancd as 9670 (Bruce MacGibbon et al, SPEEDGRAM) R Veritas planning to be in 24 langs using 8 xmtrs (José Jacob, India, IDXCI ADXR) Govt plans to get two 100 kW xmtrs for external svc (Asia & Pacific BCing Union book via Andy Sennitt, RNMN 21/3) I'm surprised they haven't prevailed on VOA for usage of some such facilities (gh)

PORTUGAL R Renascença on 9680 now in PT to Brazil 2330-0130, ex-11730; terrific signal (Chuck Oliver, Spring TX, early March) Per info recently rxd from RDP, due to economic restrictions all bcs in Spanish and FR to Canada were suspended at yearbegin. Other for-lang bcs cut back from daily to Mon-Fri only (WBI 14/2) 11 meters not completely disused yet: (gh) RFE Polish 25665 1100-1500; R Liberty Russian 25690 1000-1530, both from Glória; also still on several 13m fqs (RA Japanese DX Time 3/3) AWR time change 31/3 so that EG is Suns 0800 on 9670 (SCDX 12/3) including DX news from Finn Krone, DSWCI

QATAR Six new hi-power xmtrs are planned 120km north of Doha (As/Pac BC Union book via Andy Sennitt, RNMN 21/3) Saudi nx agcy SPA reported 19/2 that V of the Gulf Co-operation Council (GCC) 'd be resuming bcs in line w/decision by GCC Info Undersecys at recent Riyad meeting. While rxing youth delegation from GCC member states, GCC Genl Secy said svc'd be on air 2h a day. QNA reported from Doha 21/2 that QBS 'd start daily xmsns of VOCC 23/2; 0830-1030 and'd continue until regular date fixed for xmsn via stns of six member countries; monitored 23/2 0830-1030 on 954 & 657, replacing QBS normal sked bcs in main AR pgm (WBI 28/2)

SAPAN [Cf Mar LN LMI; this sked similar but not identical & arranged differently] KFBS M85 sked shows three xmtrs in use: 21-22 11790, 22-24 11740, 21-22 9675, 22-24 9720, 09-11 11915, 11-14 11920, 14-15 11825, 15-1645 9715, 17-18 9555, 18-19 9535, 19-20 9715, 09-14 9630, 14-16 9610, 22-24 15135, 10-13 15125, 13-1545 15145 (Bob Padula, March ADXN)

SEYCHELLES Early 1988 is on air target for new BBC relay (Waveguide 20/3) FEBA Final M85 & tentative J85 by fq, power up to 100 kW except #=25 kW. 6030 0026-0113. 7165 1627-1730 & 1827-1845(Sat/Sun 1900). 7265 2157-2300(Sun 2315). 7275 0114-0216. 9510 1612-1700 & 1731-1833. 9535 1608-1626. 9600 1700-1716(Wed-Sun 1731). 9610 0311-0358. 9670 0156-0258(Mon 0244). 11750# 1700-1716(Wed-Sun 1731) & 1731-1833. 11755 0342-0430(Sun 0445, Fri 0500). 11760# 1457-1607 & 1612-1700. 11770 0259-0331. 11810# 0311-0358 & Sun 0458-0530. 11855 0217-0305. 11865 1202-1220 Sat; daily# 1227-1400. 11895 1257-1345, 1400-1607. 15200 Sun 0458-0530. 15320 Sun 0712-0830, Sat 1202-1220, 15325 1227-1607. 15405 1057-1145(Sun/Thu/Fri 1200). 15430 0912-1000(Wed 0945). 17780 Sun 0712-0830. 17875 1057-1145 (Sun/Thu/Fri 1200). EG now sked only Sun 0712-0830 15320 17780; daily 1500-1607 11760 11895 15325 (gh)

SERRA LEONE Hrd SLBS while doing 49mb scan; 5980 13/1 0715 M ancr reading what sounded like obits, some relig nx, item on chartering aircraft for sightseeing; off abruptly at 0732 (Kraig W Krist, Falls Church VA, 25/2)

SINGAPORE 5010 reactivated to 1603\*; ancd 5010 & 11940 (Arthur Cushen, RNMN 7/3)

SOMALIA R Mogadishu, 22/2 0515+ found on 7207 in Somali? rapidly moving down in fq to 7177 in about 10 mins, when suddenly corrected back up to 7207, and carrier began trip back down again. R Mogadishu ID 0515; could hear het rise and fall in pitch as it passed thru other stns (Mitch Sams, Wichita KS)

SOUTH AFRICA SABC reported 24/2 that Deputy Minister of For Affairs rejected allegations that SABC gave inferior nx coverage to opposition parties. Addressing Afrikaans Lang & Culture Union in Jo'burg, said that the SABC sometimes warranted criticism, that should not be misplaced. SABC often accused of favouring govt by propagating its policies and saying nothing abt its mistake, but Corp faced w/problem common to all Western nx media, namely that the govt of the day was biggest single nxmaker in country. Ultimately, consideration of what should be bc in nx had to be determined by its newsworthiness and not its propaganda value (WBI 28/2) Radio RSA M85 sked shows 25790 finally dropped, but still on 21535 at: 1000-1026 PT 335°, 1100-1156 EG 3500, 1200-1256 FR & 1300-1556 EG same; all 500 kW. EG to Nam 0200-0256 9615 6010 5980; 9615 and 6010 are on 305° beam, 5980 320°. 9615 & 5980 are 500 kW, 6010 250 (gh) Capital Radio-Transkei noted for first time at a place other than Pahaia HI, on 3930 at 0404 7/2; Brit-sounding DJ w/patter and wx mentioning 28° and only 15°, then long version of "Miss American Pie", 6:13 TG, ads and ID in a promo. However, this pales in comparison to Dr Wood's reception of Namibia on 747 kHz! (Dale Park, HI)

SPAIN SFR M85 has 5970 in SP at 2300, EG at 0530-0600[sic] // 9630; 5900 in EG to Nam [sic] 2300 // 7105 (Padula & Bunn, RA Talkback 24/3) SFR EG 5970 ex-6065 at 0500-0600 (John Norfolk, ORC) SFR now using two 49mb channels at 0500, 6125 // new 5970. Also on 9630 at 0000. 0100, 0500, 11880 not ancd at all, assume dropped. How do they find such good fqs? (Grant Lochmiller, Denison IA) more, LMI

SRI LANKA DW started from Trincomalee not really tests but straight into regular pgm relay. Local ID at beginning of svc "This is a relay xmsn from Trincomalee, Sri Lanka"; no stn ID at s/off unlike other DW stns. Uses satellite feeder and is usually fraxion of a second delayed compared to German sites. I spoke to resident engr, Mr Gaussman who says only one 300 kW xmtr running full power. Antennas up only can cover 240° to 65° but hopein 3 months time, March, to have 2nd SW and in further 3 months 3rd 300 kW xmtr. MW xmtr will be next on air arnd Feb. DW not supposed to beam over Sri Lanka on MW? So no AR or UD likely to bc on MW.

Definitely Bengali, Hindi and maybe Indonesian too on MW. Gausmann says MW will not be omni but spread antenna w/reflector. So very little power will come down south (Victor Goonetilleke, Sri Lanka, Nov-Dec UADX) Test fqs which went into effect 3/3: GM 06-08 15105, 17-1855 9670, 6160; 22-24 9600, 22-0055 6065, EG 21-2150 6185 9600; 02-0250 6135 9670. Bengali 01-0150 6135 9670. Urdu/Hindi/Englisch 1430-1650 6160 7200. 10-1050 Persisch/Persian 15185 & 17875. 19-2035 AR 11705. 08-09 Dari/Pushto 17825. 1130-1230 JP & 1245-1420 Chinese 7265 (via Eric Falkenhan, Baltimore) [see also FRANCE]

The agreement providing VOA a kilocare area of land between Chilaw and Natthandiya in NW coast of SL was signed between Am ambassador and SLBC. About 200 fisher families will be moved to alternate land to clear the way for new relay stn (Victor Goonetilleke, UADX) RMM5 5/2 reported on this; USIA bigwig to attend ceremony; "an integral part of the global psywar launched by US against developing world and the non-aligned movement". It was clear sp1 attn 'd be paid to Afghanistan, to sow seeds of mistrust in govt and distort essence of social & economic changes there. The public of SL was shocked when it learned that the territory of the country would be used for imperialist propaganda of US. The Freedom, Socialist and Communist Parties denounced construction of the VOA relay stn in SL (WBI 14/2) Ho, hum

SUDAN 5039 reactivated, hrd arnd 2000 //1296; 1296 had EG 2000-2040 on & off in Nov & Dec; maybe on SW too now? (Richard Ginbey, Boputhatswana, RSA, RMMN 21/2) V of the Sudanese Nation from Omdurman reported the Minister of Culture & Info'd be leaving for Japan 22/2 on a week's working visit, during which he'd sign contract for establishing 5 radio stns in Madani, Ubayyid, Dunqulah, Kassaal and Atbarah. He'd also discuss possibility of an agreement for financing one SW and five 10 kW MW stns for Halfa, Fashil, Damazin, Kaduqli, Port Sudan. Sudanese radio from Omdurman currently hrd on 5037.7 and 1296 (WBI 28/2)

SURINAME R Apintie, reactivated, 5006 since 2/3 0349-0400\*, clear ID as in WRTH, NA; also night before, RTTY QRM, LSB best (Andy O'Brien, Washington DC) R Apintie hrd on 5005.7 at 0340-0400\* 19/3; harmonica and jazz mx, M ancr in Dutch at s/off, then NA; fairly heavy ute QRM, SINPO 22332 (Gary Hickerson, Ft Smith AR) R Apintie, definitely the one reactivated on 5005.7; noted 13/2 0100 t/in w/EG pops & C&W mx, M ancr. Poor sig, embedded in RTTY QRM. Improved by 0201 EZL pgms w/ven classix. No amnts to 0358 distinctive ID in DT by M, s/off amnt string at 0359, Suriname anthem, 0401 off (David Potter, FL, DXSF) Speaking of Suriname, I rxd 2 cassette tapes from Sur DXer Ravindranath Sewdien, with IDs, promos and tidbits from SRS, R Paramaribo, R Apintie, R Suriname Int'l and R RANI. Tapes were of fairly good quality, taped off FM. Available for \$3 US from Bechaniestraat 58, Paramaribo. A nice addn to a DX tape library. Expect to wait about 3 months for delivery, tho (Steve Reinstein OMDG) R Suriname Intl has a 2100 test xmsn in DT on 6070 to Eu. Reception here impossible due to Sofia. They are trying to find correct fq/signal to Eu to improve reception (J Bitsjsterbosch, Netherlands, Feb DSWCI SWR) What xmt is this--in Surinam or elsewhere? For sure, they won't reach Eu on 49m at 2100 (Noel Green, DSWCI ed.) Why not? 49m is propagationally optimal for early-evening path if only on clear fq (gh)

SWAZILAND TWR w/fairly good signal on 7300 at 0500-0550 fade 10/3 in EG w/sermon on "How to recognize the good church" (Grant Lochmiller, Denison IA) TWR M85 EG to Af includes: SAF 0430-0500 3200 5055/4760 7295; 0500-0530 5055/4760 7295. 0530-0600 4760/5055 6070 7295. 0600-0615 6070 7295. 0615-0700 6070 7295 11760. 0700-0735 6070 11760. 1700-2015 3200. Caf 1630-1700 & 1800-1845 4760. Eaf 1630-1700 & 1800-1845 9785. A new ant, #11, has come into use w/this sked to improve Eaf reception, flexible 60 thru 25m (via Joe Talbot, Alta) Swazi Radio sked: Mon-Fri 0600-0800, Sun 0508-0800 on 4980 9704. 0800-1500 M-F, 08-14 Sun 6155 9704. Sat 11-14 6155 9704. 1730-2030 M-F, 1730-19 Sat, 17-18 Sun all on 1377 6155. MW 100 kW xmt on 954 is off again (Richard Ginbey, Boputhatswana, RSA, RN MN 21/3)

SWEDEN Swedish Radio reported 1/2 that over 100 jobs'd be disappearing in SEC during the year up to 1986, per rationalisation plan and by SEC Board. Not quite clear how jobs'd disappear, but radio management was hoping for voluntary retirements. SEC had to save over 26 megakronor and Board said there were no alternatives to reducing staff (WBI 14/2) incl RSI?

SWITZERLAND SRI is planning pgm changes for J85 season beginning 3/5: Dateline will expand to Sats too; Swiss SW Merry go Round becomes weekly for 10 mins rather than biweekly (SCDX 19/3 bc)

SYRIA EG fqs changed to 17840 at 1200 to NAM; 15435 at 2005 to Eu (Kjell ---, SCDX bc 12/3) Confirmed 17840, why in the world move from clear 17510 to inband crowding? But 15435 not hrd (gh) At 2000 definitely in EG on 12085, awesome sig (Bob Bodell & Bruce MacGibbon, OR) Not here, but at least swdible (gh) more SWITZERLAND: UNITED NTNS TUNISIA LMI

TANZANIA R Tanzania ES, new fq 9684, 15/3, 16/3, 17/3 0400-0430 in EG; 0400 nx, 0410 commentar, 0415-0430 V of Namibia; 9684 in WRTVH listed as Natl svc fq (Artie Bigley, San Antonio)

THAILAND Groundbreaking at 3 new VOA sites first week of March, including Udorn, Thailand 7/3 where 7 hi-power xmtrs to be installed, including 1 for Thai govt use; construction begins within a year; on air by 1989 (Bill Whitacre, Udorn, VOA 15/3) Thailand has future plans for high-power worldwide coverage (As/Pac BCing Union book via Andy Sennitt, RMMN 21/3)

TURKEY Sent a follow-up report with cassette recording of the V of Meteorology, which I hrd & taped 4/12/83 from 0412 to 0430 UTC and 22/2/84 0448-0459 on 6900; and rxd a no-data verie form letter signed by Dir-Gen M Cemil Uzgülli, Major General Retired. Rxd the reply in 3 weeks along w/full color pgm sked in TK & EG, a tourist brochure containing a V of Turkey sked that is somewhat dated, and pamphlet commemorating Mustafa Kemal Atatürk; founder and first pres-

ident of Turkey. Stn info on sked: Turkish State Meteorological Svc operates VOM w/5 kW (the varie letter says 2.5 kW), to provide met info to public and all other sectors concerned. Its bc is on 6900 kHz and 43.3m. Ant is a delta matched open wire balanced 500-600 ohms and 28m long, 17m high from ground. Sked 0400-0600, 0700-0840, 1100-1550 UTC. Pgm consists of "Opening remarks. Turkish mx w/wx nx at the interludes during the pgm" Back of sked had a copy of a certificate awarded them for "Radio Stn of the Month, Aug 1981" from St Louis Intl DXers and signed by Terry Klasek! Concerning my reception, I first hrd this 30/10/83 and last hrd this 26/2/84 and never for more than 25 mins, between 0400 & 0500, P-F sigs when geomag field gen'ly quiet. Basically nonstop TK mx w/occl short voice anmts Declining sunspots might make this a tough catch, and I've not hrd it since Feb 84 (Chris Bagge, Springfield MA) V of Turkey EG sked effective until 1/7: 04-05 9560 9730, 1330-14 17885, 21-22 7215, 23-24 5960 9560 9730 9755 (Robert Chester, RA JP DX Time 24/2) I suppose the move to one hour later last fall was a singular change due to timezone change, rather than a seasonal shift for DST which might lead to an hour earlier any time now (gh)

UGANDA Recent QSL letter dated 18/1 from L B Lubega, Senior Xmtr Planning Engr, advised me that HS uses 20 kW Thomson CSF xmtr on 5027 eves & nite; 7196 days. Also says short range log-periodic directional ant is beamed towards north of the country at 0300-2100. EG is 0400-0415, then eastern and northern vern nx bulletins. ES to US & Canada is 0300-0415 on 15325 (Neil Carleton's Ottawa, CIDX) & hardly ever active or audible (gh)

U S R R Tikhy Okean, Vladivostok, 11900, 2/3 1930 organ IS, YL w/EG nx, ID "You are listening to R Tikhy Okean" into RS 1956 (Bruce MacGibbon, OR, SPEEDXGRAM) Much longer EG segment than before & might be hour earlier now (gh)

Mayak (Lighthouse/Beacon) 2nd pgm of mx & nx info svc w/occl sports commentaries relayed thruout USSR and for listeners abroad, 24h in Russian; w/IS of first ten notes of "Moscow Nights" (Midnight in Moscow) repeated three times on the hour and half hour, includes these pgms other than just plain nx on the hour or half hour for 5 mins: [times here shifted 1 hour earlier by UTC for DST period compared to times listed in 28/2 sked] 0030-0035 Missing persons report on 14th & 28th day of each month. 0100-0105 agricultural nx repeating previous day's 1100. 0135-0200 Yunost Field Mailbag, for Sov armed forces. 0210-0220 International Diary. 0230-0235 Pravda press review. 0250-0255 Pravda Int'l Commentator's column. 0305-0330 Mon-Fri Good Morning!--comedy pgm. 0343-0348 Mon-Sat sports nx. 0350-0355 wx reports in detail. 0400-0405 Tue-Sun Sovetskaya Rossiya press review. 0420-0425 wx reports in detail. 0500-0505 sports nx. 0530-0535 nx from socialist countries. 0605-0609 mx pgm review. 0830-0835 forn press review. 1100-1105 ag nx. 1130-1135 sports nx. 1205-1209 mx pgm pwv. 1300-1305 Sun philatelic nx. 1330-1340 nx from a Republican [regional] studio on weekdays. 1430-1500 Red, Amber, Green alternate Fridays [traffic reports?]; on Sat Towards the 40th Anniv of the Great Victory - end of WWII. 1500-1505 Izvestiya press review. 1530-1600 Land & People = farming nx and interviews/features. 1600-1605-wx reports in detail. 1605-1630 Yunost Field Mbg for sov armed forces. 1700-1705 Missing persons report 14th & 28th day of each month. 1735-1800 Tue/Thu With a Smile; Sat It's Sat Night! 2030-2035 foreign nx w/ world wx report. 2030-2025[sic] wx report in detail. 2100-2105 nx including shipping. 2130-2230 pgm for Baykal Amur Railway (BAM) workers including general and BAM nx 2130-2135. 2300-2305 Sun Philatelic nx. 2305-2330 Sun-Thu Good Morning! comedy pgm; 2330-2400 alt Fria Red Amber Green, repeat of Fri 1430.

Fifth pgm, ES for Soviet Seamen and compatriots abroad, also 24h takes some Mayak pgms, and First pgm pgms, and original material, including: 2230-2330 Radiostn Homeland (Rodina). 2330-0030 For Those at Sea, irreg not Sun; I Serve the Soviet Union irreg on Sun; Int'l Situation Q&A irreg. 0100-0200 Rodina; 0515-0600 Sat Hello Comrade, Sun Good Morning. 0615-0700 For Those at Sea. 0715-0800 Youth. 0800-0840 Tue & Fri pgm for Soviet Specialists abroad. 1200-1300 Radiostation Atlantic; 1300-1400 Homeland; 1530-1630 Atlantic; 1630-1700 Tu pgm for Soviet Specialists abroad; 1900-2000 Rodina [note: I have moved these an hour earlier than shown for DST tho I'm not positive this applies to Fifth pgm & BBCMS doesn't specifically mention such w/5th -gh]

Special nx bulletins for polar regions: 1030-1100 Mon to E sector of Arctic on Radio Orbita One fqs [GMT +12, 13, 14 svc]; and Mon/Wed 1500-1530 to W Arctic and Antarctica on 9590 & 9490. TASS Dictation Speed BCs for domestic local nxpapers: Mon-Fri 0700-0900 (or 0600-0800?) 9850 9730 7420 7340 6770 5780 837. Opening anmt: "Attn, attn, this is Moscow, this is Moscow. We begin a xmsn of Tass info for town and rayon nxpapers." Followed by brief indication of material to be bc, giving headlines of each and number of lines (WBI 28/2)

After carrying classical and serious nx in place of other pgms of light nature since abt 2230 10/3, All-Union R and death of Konstantin Ustinovich Chernenko at 1100 11/3, AUR Pgm I, its four associated time-shifted Orbita versions for non-Eu USSR and 5th pgm had remained linked after sked simultaneous relay of 0900-0940 Time, Events, People nx magazine. Regional radio svcs joined at 1000, while AUR's Mayak svc remained separate til 1100. All svcs then remained linked until end of local bc day, w/Mayak separate from 2100. Next day, Orbita versions of Pgm I linked up as well as w/Eu Pgm I, for substantial periods. Mayak fqs relayed Eu Pgm I at 0300-2100 apx (WBI 14/3)

UNITED ARAB EMIRATES On 18/3 rxd QSL card for V of the UAE, Abu Dhabi test on 4800 accompanied by 'a provisional SW sked' of tests: 0200-0400 17815 SAM, 0400-0600 15330 NAM, 0600-1000 15490 Eu, 1000-1300 17820 FE, 1300-1600 11715 Indian subcont, 1600-2100 9595 Eu (Charles Fox VA) 19m usually dead during NAM sked, but maybe'll pick up towards summer (gh) V of UAE testing again on 4800 1917-1958; 250 kW per QSLs. also at 1600 on 5010 (Bernhard Grundl, 6/2,

GFR, DXSF) Abu Dhabi testing on 9850, E w/mx, EG anmts 1400-1500 (Robert Chester, SA, RA JP DX Time 24/2) R Dubai, UAE, \*2330 in AR, nx 10/3 on 9850, 33333 (Gary C Hickerson, AR) I assume you mean Abu Dhabi (gh) UAE Radio, Dubai, March-May xmsn sked: Nam 0230-0415 7310 9565 11730. FE 0415-0615 15435 17830 21700. Eu/NAF 0615-2050: 0615-09 15325 17775 21700, 09-10 17775 21605 21700, 10-13 17775 21605 21695, 13-15 15320 17775 21605, 15-1730 11955 15300 & 15320. 1730-2050 9550 11955 15320. EG at 0330, 0530, 1030, 1330, 1600 (via Tom McKeon, IN)

U K O G B A N I As of Apr, BBCWS usage of major OOB fqs is: 9410 0200-2430. 12095 0300-2430. 15070 0300-2115. These are often useful off-target in Nam during off-hours; a variety of official overlapping targets are involved. Strangely, April London Calling shows simultaneous use of 12095 by the Eastern Relay, Masirah, Oman at 0300-0530; such oo-channel skeding is unlike BBC, as is the use of OOB by relay sites. Could this be an error? A number of BBC 'regular programmes' will be reskeds the last week in April, including Waveguide: Tue 1115 & 2100, Wed 0430, Thu 0130 (gh) BBC has been denied permission to build its controversial new SW xmt stn near historic Stratford-upon-Avon. In upholding decision of planning inspector, Environmental Secy Patrik Jenkins resisted strong pressure from the For Office and the BBC. The many local protesters included the Royal Shakespeare Theatre, who said they'd be put out of business by electrical interference from the proposed xmsns (The Times, via David Sykes, SCDX 29/1) BBC has also met opposition to plan to build 23 antenna masts for xmt stn on Suffolk coast. New ants'd improve BBC SWBC to WEU. But local conservationists say project'd damage an area of outstanding natural beauty (Evening Star via Peter Thorpe, ibid.) +IMI

UNITED NATIONS UNR sked dated 4/2 thru 3/8 says: For 9 months of year when UN Genl Assembly not in session, UNR bcs only on weekends, Fri & Sat, in 13 langs: AR, CH, EG, FR, GK, HB, JP, PT, RS, SM, SP, SH, TK. Effective 4/2 on expl basis til 3/8, UNR'll bc 6 days a week, Mon-Sat representing increase of 4h a week. Addl xmsns are to 4 targets, Eu, E&W&C&NAf, in EG & FR. The magazine pgm UN Radio Club, Thurs 1915-1930, and FR equivalent BP 20 are of spl interest to listeners. Includes responses to listener questions and genl info about any aspects of UN. New sked: M-F 19-1930 EG, 1930-20 FR 21710G 187824G1 15650G1 15360T 15330P 15120G 10454G1. F only 1830-1840 EG, 1840-1845 PT, 1845-19 AR 21710G 187824G1 15650G1 15360T 15120G 10454G1; 20-2015 PT 21710G 15120G; 2100-2145 EG, 2145-2200 FR 17730G 15120G, Sa only 0000-0015 PT on 15235M 15115G 11920G 10380G1 10235G 9715M; 0200-0215 EG, 0215-0230 FR, 0230-0245 SH, 0245-03 SM on 11780M 10869B 10454G1 6190M; 0530-0545 PT, 0545-06 EG 11740G 9540G; 0630-0655 FR, 0655-07 GK, 07-0705 HB, 0705-0710 TK, 0710-0715 EG on 17815T 15245T 9565G 7651G 6873G; 0730-08 SP 17815T 15245T 9620G 7651G 6873G; 0815-0845 FR 17860M 15235M 11825G 11740G 9680G; 0915-0945 JP, 0945-10 CH, 10-1030 EG 15250P 9565D 8110Ds. Also Mon only 1920-1930 AR on 15245 R 11800R 9575R; Tue & F only 1830-1840 RS 14500Ss. G=Greenville, T=Tangier, P=Philippines, M=Monrovia, B=Bethany, D=Delano, R=Rome S=Switzerland. l=lsb, u=usb, s=ssb (Dale Park, HI)

U S A WYFR J85 sked: 12-13 11830, 13-14 11830 9535 5985, 14-15 11830 9590 9535 15-16 15215 11830 9535, 16-17 21525 17845 1740[17640??] 15566 15440 15215 11830 9535, 17-19 15215 11830 9535, 19-21 21615 21525 17845 17640 15566 15440 15215 11830 9535, 21-22 21525 15215 11830 9535, 22-23 17750 15440 15215 11830 9535, 23-24 15400[sic] 15170 11830, 00-01 15260 15170 11830, 01-02 15170 9715 9680, 02-03 15170, 03-08 Nam unknown at press time; 06-08 98524 9455 7410 7355. Via VOPC Taiwan: 1302-1602 15035, 21-23 15035 (Dale Park, HI) Note use of 17640, until now a VOA-only OOB fq; once authorized for a private stn, an OOB also becomes available for other private stns if they can all agree on a sharing sked. Thus, e.g. it should not be surprising that once WYFR was authorized 9852.5, WRNO began using it too. Some other VOA OOB fqs, however, it retains exclusive use to even if not currently in operation certain hours of the day, such as 11580 and 11675 (gh) Grandiose plans of High Adventure stns in California & Lebanon for powers of 1500 kW sound impressive, but no doubt they are referring to ERP, w/axial xmt power probably not higher than 50 or 100 kW. I have an old QSL card from WINB which says xmt power 50,000 watts, ERP in excess of 1,000,000 watts. It seems there is a lot of bragging going on, but no action from any of the new US stns, such as WMLK, KCBI or NDXE (Ernie Behr, Ont) NDXE keeps delaying target date; one source now says fall 85 instead of June (gh) KCBI hrd testing to Eu on 11685 until 2103\* (no source, SCDX 5/3)

URUGUAY R Montecarlo, Montevideo, 11735.1 hrd daily with not so strong sigs, ex-9595.1. That was regular daily in Dec. El Espectador better on 11835.1 (Juan Carlos Godina, Lima, Peru) RMC, 11735 15/2 2340-0020, P, mx & nx, some IDs (Hitoshi Miyashita, Tokyo, RNM) Also 2230-2330 F 16/2, mx to 2300 then ID "Transmite CX-20, Radio Monte Carlo...Uruguay". Also "Esta es la cadena radial del...simultanea, Monte Carlo y Oriental". 2300-2305 mx, 2307 TC as 20:07 in the RODU (Aoi, Radio Nuevo Mundo) RMC, 11735, hrd from 0030 pop songs, ads, talk to 0130 f/out 17/2; weak, perhaps 1 kW. No sign of SODRE on 9620 or 15273, both less than 1 kW (Ernie Behr, Ont)

VATICAN In an iv bc on GM svc 10/2, tech head of Vatican R, speaking in halting GM, said VR bc in abt 35 langs, incl Esperanto, had permanent staff of abt 340. In order to improve reception, AEG Telefunken was building new direxional ant for VR's MM on 1530. VR intended to buy addl 500 kW SW xmt and to install second rotatable ant for SWBC. Tech head added that BBC already linked by satellite w/11 stns being BBC pgms and it was possible VR may do something similar in future (WBI 14/2) I.e., establish worldwide net of sat-fed relays? (gh) Non-religious workers in Vatican City are threatening to strike today (SCDX bc 26/2)

VIETNAM During last week of Jan these regionals monitored: Son La 4701 & 6333 \*1200-1400\*, best at 12-1230 w/good ID 1200. Bac Thai 6610 \*1125, some CW QRM, fq shifts to 6620. Cao Bang

6510 \*1200, ID 1202, s/off arnd 1400-1430. Hoang Lien Son 5596 \*1000, G to 1027\*; same stn on 6720 but untraced. Lang Son 6514 weak from 1130, be careful as Cao Bang closeby on 6510 from 1200 (Prodyat Bannerjee, Calcutta, IDXCI ADXR)

YEMEN SOUTHEAST Addr for Aden is now: Peoples' Democratic Republic of Yemen Broadcasting Service, Box 1222, Steamer Point, Aden, PDRY. Per QSL (Ian Eadie, March ADXN)

ZAYRE 15245 has been reactivated (Richard Ginbey, Boputhatswana, RSA, RNMN 21/3)

ZAMBIA Have been monitoring R Zambia on 4910 a couple months hoping for some EG and was pleased to hear 10 min rx 9/2 0500-0510, poor sig, but partially readable; again 18/2 much clearer. Started w/local TC of 7:00, into local rx, incl items abt Mozambican refugees being registered in Zimbabwe genl elections, and trouble on Zimb side of Zambezi River, racketeers arrested by Zimb security forces. Nx ended curiously: "And that is the end of the news; remember, UNIP is the people's party.." (Chris Bagge, Springfield MA)

ZIMBABWE Moscow's RSP&P reported 6/3 that Zimb govt planned to put radio stn into opn in Gweru (ex-Gwelo) to bc abroad. Zimb Minister for Info/Posts/Telecomms said it'd counter propaganda of lies & misinfo that radio svc of the Pretoria regime was bcng to residents of some regions of Zimbabwe (WBI 14/3)

UNIDENTIFIED 9975 Spanish at 2230 27/2, M&F ancrs; Korea on 9977 w/diff pgm (Chuck Oliver, Spring TX) 9925 at s/off 0126 5/3, unk lang then several notes from some type of trumpet (1bid.) 9863.9 at 1400-1615 apx, weak w/SAs mx, TS 1500 27/2, but gone since 4/3; new Soviet on 9865 in RS to 1400\*, also EG from 2000 since 2/2 (Ernie Behr, Ont) 9640 from 1415 w/SAs mx, 9/3; after 1432 QRM from another on 9641 (Behr) 9620 what stn comes on at 2100 playing few bars of mx in different ways, much like VOA does Yankee Doodle? (Oliver) 9026 stn in EG, first caught at 0040, still on at 0110; very weak here, but think he's giving stock market reports; reads figures in the thousands, one after another. Sometimes breaks for 30-45 seconds (Chuck Oliver, TX, 11/3)

7425 Have seen very little about this in DX pubs--unID Arabic cland xmtr just about every night, also widely hrd by others. Xmsn pattern varies, but dead carrier comes on arnd 0100, sometimes as early as 0000; usually 0130 ME cland pgm starts w/whistling, Koran chant, animated M talking. Length varies; sometimes diff pgm at \*0230 same fq, minor-key AR instl mx IS, and cland-style M talks. The \*0130 also hrd by me at \*1530 on 15050 on some occasions. Dexter seems to feel 15050 is V of Unity, a.k.a. V of United Muslim Fighters of Afghanistan--I equate the two only because s/m whistling is identical. I don't have certain IDs on any of these thru my own listening. I don't speak Arabic, Farsi or whatever else. Signal strength is interesting--11/3 it was S7; runs anywhere from S4 to S9 depending on condx; does not have fluttery fading typical of Prague, BBC, other Euros on 4lm arnd this time; tends to be more stable along lines of WRNO-7355. Likely in western hemisphere, probably NAM, given its sig. Even a hi-powered xmtr in Eu/AE/ME 'd fade faster than 7425 does, at least on 4lm given recent propagation arnd 0130 to my QTH. Ideas or other logs of this? If indeed on this side of world, raises vy interesting questions (George Zeller, Ashland OH) Well, R Iran was reported a few months ago at same time on 7420 (gh)

6104 apx, beacon 17/3 1200 t/in: VVV VVV VVV VVV K DE VK36. A1 emission, considerable AC hum; vy strong at t/in, weak at 1600 rchck; G at 2100, about 15 wpm (J Lucas, Lindenhurst NY) Probably US military tactical, increasingly infringing on SWBC bands (gh) 6020 14/2 only from 1230 US pop songs & lt mx to 1330 f/out; some long pauses but no anmts, a test? (Behr) 5020 What stn s/on w/RA at 0400, unfam lang, maybe AR? (Chuck Oliver) Probably Albania, & maybe \*0300 now (gh) 4957.5 16/2 from 1400 in As lang & local ME-type mx to 1430 f/out; perhaps Baku? 6110 was vy strong in Farsi same time (Behr) 4879.0 Been hearing something here a number of weeks; carrier seems \*0015 or so, fairly respectable, but little audio pulled. One night did have 0100 W w/nx in lang, but faded rapidly 19/2 0030 also threshold sigs from presumed Nepal 5005, Sri Lanka 4902. During last season, numerous logs of Quetta Pakistan on 4878.8, tho slightly later; also note Grundl and others report Dhaka \*0030; this plus f/out occurring arnd 0130v correlates well with 4902 & Dhaka seems reasonable bet; needs really good TP subcont opening to break! (David Potter, DXSF) 4870 unID Brazilian at end of Dec, highly overmod & difficult to understand; 0930 30/12 Braz mx, ocll TCs, zone unk; 1000 ID w/ZY calls MW & SW fqs, name as "Ridf de..." w/3rd word sounding like "mar-ah-Veh". Pretty far gone by 1030; not checked further; was very strong (Jerry Berg, MA, via Radio Nuevo Mundo, Japan) 4200 La Voz de la Carriencia ?? 28/12 SP ad for Cardeco, rx, songs, msg 0918-0939; also 7/1 0755 -0839 SP mx, talk, songs, 0817 ID; 8/1 0015-0045; help! (Ravin G Sewdin, Suriname, DSWCI SWN) 3800 Indonesian at 1350, trnx to Wilkins/Perry tip hrd W in Indo here and playing US C&W mx, SCT on hour, no ID hrd and no //s found 21/2 (Mitch Sams, KS) 3660 M in SP, several ments of Guatemala, ballads 20/2 sudden off 1210, 23222 (Gary C Hickerson, AR) R Luminaria, 3 x 1220? 3345 Help--past 2-3 weeks hearing stn I can't ID, 1200-1220\* After s/off you can hear the Indo stn [qw]. This is bothered by utes and often weak, muffled audio; ments of Islamabad! Lang sounds like AR; maybe R Kashmir, India? Gets more and more confusing; mx sounded mid-Asia or Middle Eastern (Gary Hickerson, AR, middle March)

CLANDESTINE CRANNY R Nejat-e Iran has addr of P O Box 102, 2670 Greve Strand, Denmark, but replies postmarked Paris or DUs-seldorf. No connexion w/DSWCI in same Danish city; this is run by Front for Liberation of Iran, umbrella orgn for this and R Vatan (Homeland) et al. Gave sked 0330-0525 15555, 1630-1825 on 9027, ie. almost Vatan's old sked; or maybe both fqs at both times (John Campbell, RNMN 21/3) V of Libn of Iran, 15555 in Farsi 1815-1825\* M shouting, mx every few mins, more speech &

ID, 11/2 33222 (Gary Hickerson, AR) Here are the 3 addrs ancd by VOLI (Sidaye Nijate Iran):  
1) Box 201225, 53 Bonn 2, West Germany; 2) Box 102, 2670 Greve Strand, Copenhagen, Denmark;  
3) Box 301582, 2000 Hamburg 36, West Germany. Sked is 0330-0530 & 1630-1830 on 9027 & 15555  
in Farsi, Turkish, etc. Adrrs xlt'd by Iranian lady who lives nearby (José Jacob, India, IDX-  
CI ADXR)

V of the Communist Party of Iran, 4470, has 20 min or so bc from 1730, or from 1657 on 3941  
as noted by Hitoshi --; best addr is BH, Box 2123, London WC1V 3XX. BM is British Monumark  
[sp?], a maildrop also for London pirates. VOCPi unhrd so far this year; plays International  
ale at s/on (John Campbell, RNMN 21/3) VOCPi, 4470 sent letter in reply to C60 and 1 IRC aft-  
er 120 days; v/s is H. Nakisa. Report was sent to Postfach 50 11 42, 5000 K8In 50, W Germany  
but received from BP 23, F 75660 Paris Cedex 14, France (Clive Rooms, UKGBANI, Play-DK 11/3)  
Radio Voice of Liberty WRNO apparently got nervous over publicity about this pgm it carried  
Mons 0000. CCN talked to Matt Bell at the stn who seems surprised the pgm had gotten publi-  
city, but promised to call back with a mailing addr, which didn't happen. A f/up letter a couple  
of weeks later brought terse reply that pgm no longer on the air (and still no addr) (Ger-  
ry Dexter, Feb CCN, via DXA) You can hardly put something on the open airwaves and expect  
no one to notice... (gh) See also IRAN for alleged number of clands

V of the Mujahedin Khalgh seems to have changed sked; hrd arnd 1430 & 1700 on 3500 & 4220;  
both recently used as the fixed fq, but 6655v not hrd--or not found, and now in 6200-7000  
kHz range (Hitoshi Miyashita, Japan, Feb DSWGI SWN)

V of the Fedai'i, in Persian hostile to Khomeyni ancd 15/2 this addr for listeners to write:  
A.C.A., BP 43, 94120 Fontenay-sous-Bois, France. To make certain stn rxd letters, listeners  
should observe all security & safety measures by sending two separate copies of letters to  
friends abroad asking them to forward them to the [sic, something was cut off] (WBI 21/2)

V of Afghanistan recently obs in Dari, Pashto & Uzbek 1130-1215 apx on 3251, 3243, 3231 or  
3223. Fq changes day to day and sometimes during pgm, presumably to avoid QRM. Carries re-  
ports of guerrilla attacks on Sov & Afgh troops and condemns Sov 'occupation' of Afgh. Stn  
w/identical name & carrying similar material hrd in Jan 84 (WBI 14/2) Continues hrd from  
1130 apx on 3214 3223 3231 3238 3243 or 3251, varies. Ancs it can be hrd in 90, 75 and 49mb  
i.e. on 3, 3.8 and 5.8 MHz at various times. Another xmsn hrd arnd 1510 on 3214 (WBI 21/2)  
Dari ID: In Seda-ye Afghanistan Ast. Uzbek: Afghanistan Sesiden Gapriamiz. At 1130-1230  
in Dari, Pashto & Uzbek on 3.24 MHz, and ancd on 3.8 and 5.8. At 1515-1615 in same on 3.24;  
first hrd 15/1/84 (WBI 28/2)

Afghan Mujahedeen Radio noted on 15050 at 1530-1630 in Pushto/Dari; Vienna addr ancd. Uses  
same xmtr as V of Libn of Iran; wonder where it is? (José Jacob, Bombay, IDXCI ADXR Jan)

Khalsa Voice Press Trust of India (PTI) reported from London 27/2 that separatist Sikhs  
had bc first pgm on their so called stn from a commercial stn previous evening. 15-min pgm  
via R Luxembourg, msg from self-styled leader of so-called Khalistan separatist mvmt, recita-  
tions from the Sikh holy scriptures and some cultural items. Indian High Commission in Lon-  
don had raised objections to bcs and urged Brit govt to take 'appropriate axon'. 28/2, RNI MN  
said pgm did appear 26/2 1845 not as Brit pirate but on R Lux 1440 (xmtr in Lux, the offices  
in London). Week later, 5/3 R Lux ancd on 1440: "For listeners expecting to hear Khalsa Voice,  
whilst full editorial control was of course exercised on this pgm in the normal way, a num-  
ber of questions have been raised by certain offl bodies whose views we have to consider and  
it's only right we look at pgm taking into account various points raised. Therefore, this  
pgm will not be bc tonight" (WBI 7/3) R Lux failed to carry further bc of this at 1845 12/3.  
Instead, its own nx info pgm in EG abt cheap air flights to Italy (WBI 21/3)

V of the Libyan People (AR): Sawt ash-Sha'b al-Libi), hostile to Qadhafi, sked 0430-0630 &  
1800-2000 & 2030-2230 in AR on 15040. First hrd 13/9/82; describes self as v of Natl Front  
for the Salvation of Libya. For each of above xmsns, VOLF ancs fq in these ranges: 10000-  
12000, 10855-12235 and 11300-12200 kHz (WBI 14/2) /more, LMI

R SPLA / V of the Sudanese Popular Revolution Monitoring shows R SPLA introed new bc at 1600  
-1700 on 17940 5/2, apart from opening annt in EG, entirely in AR and w/in xmsn span of VOSPR  
which is via Libyan xmtr. VOSPR therefore now 1430-16 & 17-1730 apx on 17930. R SPLA con-  
tinues via Ethiopia 13-14 on 9610 (WBI 14/2) R SPLA is controlled by the Sudan People's Libn  
Army and the Sudan People's Libn Mvmt. First hrd testing 18/10/84; regular pgms 2/11 from  
Ethiopia 9610 (WBI 21/2) VOSPR (AR): Sawt ath-Thawrah ash-Sha'biyah as-Sudaniyah), hostile  
to Pres Numayri and Sud govt, 1430-1600 & 1700-1725 AR on 17940 incl nx 1445-1500 & 1715-1720.  
First obs 17/8/82; all times subject to variation. Was off the air Jan-Feb-part of Mar 84;  
reappeared 28/3/84 after sevl days intermittent tests incl relay of Libyan DS (WBI 21/2)

R Halgan AFP reported 15/3 this Ethiopian based stn had toned down its bcs, carrying talk pgm  
instead of war communiqés. Confirmed by monitoring. Hostile to Pres & govt of Somalia, in  
SM lang, now low-profile 'soft' chat pgms rather than former 'fire & brimstone' (WBI 21/3)

R Freedom SABC reported 21/2 that decision of Netherlands govt to discontinue support of  
this ANC stn would have little effect on stn's ops. Group of Dutch workers in media had for-  
med so-called solidarity group, Omroep, to assist. Said to be exchanging info w/ANC that  
could be used in its propaganda bcs to SAF. R Freedom still rxd support from a number of bc  
orgs in 4 countries (Angola, Ethiopia, Madagascar, Zambia) providing bc facilities (WBI 28/2)

V of Truth, in PT is gone from 4950; Irish-mx stn on 5030 gone too (Ginbey, RNMN 14/3) This

PT stn Voz da Verdade, in Transvaal, back on 4950 USB at 2000-2010 (Ginbey, RNMN 21/3) hrd on 4950 0307-0340 3/2, 1L, ments of Angola, Brazilian tunes IDs, EZL mx, 0340 disappeared in mid-song, SIO 2+42+ (Richard A D'Angelo, Wyoming PA)

R Truth, hrd 26/1 0440-0501\* on 5015, W ancr abt Sen Kennedy in SAF; 0444 Neil Diamond mx, anti-Zimb/Marxist talks. 0459 big fanfare, said would be back tomorrow same time; no actual ID but fits pattern of past reports; closed with bird IS: SIO 2+42+ (Richard A D'Angelo, PA) 1C/3 0435-0500\* on 5015 EG, W talking of civil rights, IDs, s/off & IS, strong 33443 (Hickerson) Sunday Star in Jo'burg reports there were tone tests 20/2 1630-0615 on 4935 from the presumed northern Transvaal clandestine site; then on 3950 to 0930\* 21/2. This fq also had mx tests in 1983 & 1984 (Richard Ginbey, RNMN 14/3)

V of the Natl Army of Democratic Kampuchea appeared to be off the air 10/2, 11/2, 12/2. Hrd again 13/2 on usual 5200. But monitoring obs and antenna bearings suggest it may have moved from possibly SW Phnum Malai region of Cambodia to northern Cambodia/southern Laos area (WBI 21/2) Those seeking a QSL from either V of Democratic Army of Kampuchea [sic] or V of Kampuchean People may try HQ addr for Khmer People's Natl Libn Armed Forces: KPNIAF General Staff, c/o Kok Sar, P O Box 22-25, Ramntra PO, Bangkok 10220, Thailand. They are looking for US\$10 per month to pay for uniforms and personal eqp for troops (Vashek Korinek, Feb CGN via DXA) 16/2 hrd ham YL on 14245 SSB arnd 1140 giving OQ from XULSS. QSO w/WU in New Delhi and gave her QTH as KPNIAF, Cambodia (?). Also mentd during attack by Viet troops "everything was taken away" and she is now living in the borders (?), and operating one reserve xmtr. QSL addr was given in Japan (Prodyut Banerjee, Calcutta, IDXC1) Letter from KPNIAF Paris HQ says stn is audible only near Thai/Kampuchean border on MW, at 23-24, 05-06, 11-13 daily. A more powerful xmtr has been given them by ASEAN, unk if MW or SW which will be "clearly audible thruout Kampuchea" (Geoff Coster, RA Talkback 17/3)

V of the Chinese People noted 30/11 1330-1430 on 1234.8 kHz; per monitoring by ABI members it's irregular on 1235 kHz at 1230, 1300, 1330, 1400, 1430, 1500, 1530 in Chinese. Each pgm abt 15 mins long and bc once a month (Hitoshi Miyashita, Japan, DSWCI SWN)

R Venceremos now on 6548.5 ex-6556 28/2 0100, variable to avoid jamming, jumping to 6538.6; tone-type jamming (Juan Carlos Godina, Perú) Supports FMLN, first hrd Jan 81, claims to be in Morazan Dept, El Salvador, addr ancd as P O Box 71-907, Mexico City, Mexico [really? used to be 7-907 -gh] & full sked in SP is, all fqs constantly varying: 00-01, 02-03, 1215-1315=not Sun, 14-15 Sun, 1830-1930=not Sun, 20-21 Sun, all on 6557 & 3670; on 98.5 MHz FM: 02-03=not Mon, 0630-07, 20-21=not Sun (WBI 21/3)

R Farabundo Martí, operated by FMLN, ancd 26/2 that contrary to 'misinfo from dictatorship & US imperialism' it was being daily on SW close to 7 MHz (at present on 6630) at 1230, 1830, 2300, 0100; and on FM 105 MHz for San Salvador at 0100 (WBI 7/3) 1-hr bcs. Cuban nx agency claimed that when first hrd Jan 82 this was in northern Chalatenango Province, El Sal (WBI)

La Voz de Sandino This anti-Nic govt stn now hrd 2230-2330 & 0400-0500 on 5874 (WBI 14/2) 0400 bc includes ocll item in EG; first hrd 7/6/82 but existence originally reported by V of Nicaragua 17/5/82; may be associated w/V of Free Nicaragua (WBI 21/2) Regarding Bolland's [and above] report of this on 5875--that is the old fq for HRN, LV de Honduras. On a visit to HRN two years ago, I was told the xmtr was in working order, kept up in case of emergencies. Coincidence, I wonder? (Dan Moore, Ecuador)

R Quince de Septiembre, 7194.8 NF 3/3 0432-0450 surprised to find here, justifiably wreaking havoc to hams, w/usual rhetoric of SP M & W pro-FDN talk, sirens, IDs, //5555.3 & 5580, VG (Terry L Krueger, FL, DXSF) I've also noted them a bit later around 0600 (gh)

R Monimbó, 6230, 0017-0039 11/2 in SP, easy vocals, ID by M and brief comtry/talk abt Nic; more mx, upbeat & Latin vocals/pops; silent at 0034 for 2 mins but back w/W ID "La Voz de Democrática [sic] Libertad, Radio Monimbó", SIO 2+42+ (Richard A D'Angelo, Wyoming PA)

LV de Alpha 66 on 6665v NF, \*6200-0225\* tnx Crawford tip, QSYed here. E w/upgraded & very slick pgm producion, SP report on shortwave benefits, mx fragments, comtry by Dr Diego Medina, theme mx, xmtr cut amidst, V to 6666.5 5/2 (Terry Krueger, DXSF) 0202 5/2 also but very poor sig here in Miramar! Either skipping over or moved xmtr to central FL! Again 7/2 \*0200 on 6665 & again VP sig, drifted to 6669.6 by 0229\*, vy distorted & badly FMing (Reinstein, " On 6665v \*0159 w/ID & tlks, moved up to 6669 until 0226\*, G 2/3 (Ernie Behr, Ont)

R Antorcha Martiana, 7080 RF, first noted back on air 5/2 0205 but VP sig; again 7/2 0201-0227\* at same time as A-66. ID "Esta es Radio Antorcha Martiana, órgano radial del Movimiento Insurreccional Martiano", F level (Steve Reinstein, DX South Florida)

La Voz del CID back on 6305 since 14/2, from \*0055v; used only 9940 since 25/1; strong sig 1300 on 6305 indicates a western location, rather than Dom Rep (Ernie Behr, Ont) 6305 had strong sig to 1345\* v 27/2, contd on 9940 \*1352-2450\*v, but both absent since early March; 6305 was same level as Nic & CR on 49m (Behr) R Camilo Cienfuegos, CID on 6305 has one of the strongest signals on the 6 MHz band at my location--as strong as VOA Greenville, R Ned Bonaire or numerous others, S9+40 db. This is no fly-by-night opn from the back of a truck somewhere. This particular xmtr may still be testing however, as there are fqt audio and/or carrier dropouts (Bob Rankin, Lawrence KS, OMDX DX Log 10/3) All CID xmtrs except 11680 were off the air Sun & Mon 10/3 & 11/3 (Grant Lochmiller, Denis on IA)

Radio Free Surinam; the CIA xmtr on 9940 is also used for Anti-Surinamese tirades, hrd 13/2 2030 in Sranan Tongo, lots of ments of Suriname; few mins before hrd usual anti-Cuban propa-

ganda tirades which resumed at 2045; is regular sked, hrd following days, so seems CIA wants to use the last cent put into opns of this xmt for anti-democracy campaigns. Will we now see anti-Nic pgms from this? (Juan Carlos Codina, Perú) LV del CID first noted here carrying R Free Surinam 24/2 2030-2040 short pgs in S-T. Still using addr in Holland? (Grant Lochmiller, IA) Also hrd 24/2 on 11680, R Frie Suriname via R Camilo Cianfuegos, 2028-2040 in DT & local lang, // 9940 stronger (Ernie Behr, Ont) CID stn ROC on 11680 & 9940 and at 2028 24/2 that its net'd be granting 20 mins of airtime to Surinam Libn Council, then 13-min bc in DT & ST by R Free Surinam to 2041. Pgs from RFS last hrd on 6850 at 0100-0135 many months ago (WBI) Sounded to me like they were saying in SP before it that it'd last 24 mins, but never (gh)

## PUBLICATIONS

Enjoying Radio, new publication emphasizing technical aspect of ham & SWL, edited by David Newkirk, first issue now available. Samples \$1.75 in NAM, elsewhere \$2.45 US or 8 IRCs; subs for 12 issues/240 pages: \$19.50 US in NAM, (Canadians add \$3 US, Washingtonians add 7.9% sales tax), elsewhere US\$21 by seairmail; \$25, \$28 or \$31 by airmail. US funds only on US bank to: David Newkirk, Box 85024, Seattle WA 98145-1024 (gh)

Review of International Broadcasting, Issue 97, features return of Shows We Like, a minute-by-minute sked of more than 500 recommended SW pgms-times thruout the week, "You Can't Have Your QSL and Eat It Too," and much more. A few extra copies of this issue may remain, for \$1.50 in US, \$1.75 in Canada; subs \$18 in US, US\$21 in Canada, on US bank from gh's addr.

Brazilian MW-SW-FM Stn List available from 10/4 for 8 IRCs airmail worldwide (Antônio R da Motta, Box 949, 12200 São José dos Campos, SP, Brasil) see also SURINAME

## LAST MINUTE ITEMS

ARGENTINA New RAE sked in use from Mar: JP 10-12 9690. EG 12-13 & 18-19 15345; 01-02 & 04-05 9690 11710. GM 19-20 15345, IT 20-21 15345, FR 21-22 9690, PT 00-01 6060 9690 11710. All above are daily. AR Thu & Fri only 17-18 15345. SP daily 12-14 11710, 22-24 6060 9690 11710, 02-04 9690 & 11710. Spl bc on Sat & Sun only: 19-21 6060 9690 (Arg SW Panorama #5 edited by Gabriel Iván Barrera, who produces the DX pgm on RAE)

CHINA R Beijing EG to NAM incl unanncd feeders/test fqs: 1100 9820, 1200 11650 9820 4200 1296. 0000 13650 11860 9880 7440 6825. 0100 17855 13650 11860 9880 7440 6825. 0200 11685 10865 9880. 0300 15520 15385 10865. 0400 15385 10865 (WBI 21/3)

COLOMBIA R Lux, Guachucal, Nariño, still hrd evenings, 12/2 0150 on 3705.5 (Codina, Perú)

FINLAND From 31/3 R Finland EG sked: 0430 ME 15430, Eu 11755 6120, 0630 Eu same, 0830 Eu 152-65 11755 6120 (Sats from 0730); EAs/Au 15115. NAM 1100 1200 1300 17800 15400. 1400 on 15400. Eu 1830 9655 11755 6120; 1930 6120 MW LW; 2100 Eu same, EAs/Au 11755 (Juhani Niinistö, R Finland, SCDX 19/3) What about Sunday Best? Should be at 1230-1425 or so on usual fqs (gh)

HUNGARY RB seems to have defective xmt, hrd in recent months on 6860, 7580 abt 2100 (Podney Size, Cornwall, Media Monitor via SCDX 5/3) One day in Dec on 7577 (Werner Rauth, ibid.)

INDONESIA R Malang hrd at 1100 on 15240 (Maximo Tenenti, Italy, SCDX 19/3) What in the world?

IRELAND Private stn R Valleri Intl resumed bcs on 6870 bcs 10-13; previously bc Oct 1973 to late 1979 (Derek Jones, RVI, via SCDX 12/3)

MALAYSIA [Cf main section] SW xmt in Penang is still being on 9665, w/domestic Blue Network (Barry B L Gan, Malaysia, SCDX 19/3)

NEPAL R Nepal now has no annual budget from treasury, just ad revenue; ad rates increase has backfired (WBN via Maarten van Delft, Neth, SCDX 26/3)

SPAIN Another bc of nx in Catalan, Galician and Basque is on REE 1630-1700 on 17660 15535 15395 11920 11635 9570 7450 (WBI 21/3)

TUNISIA TR now relays natl net in AR on SW: 0430-0630 on 11755 9610 7225. 0630-16 17820 15225 11735. 16-18 15225 11735. 18-19 15225 11735 7225. 19-21 15225 11735. 21-2330 15225 11735 7225. ES bc in AR hrd at 16-18 on 15225, 19-21 on 7225 (WBI 21/3)

UKOGBANI BBCWS budget cut; some 20 jobs in ES have been lost; this will affect new pgms and London Calling (SCDX 26/3)

CIANDESTINE V of Sudanese Popular Revolution, 3/3 1550-1609 on 17940, incl EG ID 1600; anti-Sudan talks, Bugle call, machinegunfire, "This is Radio SPLA, the voice of the S P R Army". Brief mx then more AR talks, SIO 2+52+. Why ID in EG? Perhaps EG pgm or short features next? (Richard A D'Angelo, Wyoming PA)

## NORTH AMERICAN PIRATES

WBBH (Cf Mar IN-26) Joe DiLeo is about 18 yrs late in trying to track down the Cortland School of Mx and WBBH. WBBH was hrd by the late Bill Graham and other east coast listeners back in 1966 and the story was recently recounted by Tom Kneitel in Jan 85 Popular Comms. Someone has recreated a 'ghost' or --if I lived somewhere in Ont, I might suggest--the original signal has bounced off some distant star and has returned to earth nearly two decades later (Don Jensen, Kenosha WI) FCC busted it in Fairlawn NJ way back then; article inspired reactiv?(gh)

WPBR - Pig Boy Radio, 27/1 2327-2330\* monolog on pirate radio, IDs, Woodstock tune, 7435 USB (Chris Bagge, MA) 25/2 0135 on 7425 1sb QSY to 7430 before 0155\* Farm rpt, pgm on Hemingway, mx, "Old McDonald" IS, and Battle Creek box, bcs next 2 weekends & T-shirt giveaway. Ancr called self "The Messenger" (Dave Weeks, Los Angeles) 25/2 7435 LSB, then began again \*0103 on 7425 LSB w/strange pgm on swine husbandry, mx, pirate report, mx pgm on human sex problems, mx, Box 982 addr, T-shirts, 0142 to 7430 LSB, s/off or f/out 0150 (Lochmiller, IA)

Until the next, 73 de Glenn

# QSL REPORTS



Sam Barto, NASWA QSL Editor  
47 Prospect Place, Bristol, CT.  
USA 06010

## ADMIRALTY ISLANDS: Radio Manus

3315 p/d ltr. in 47 ds. for ms. v/s Luke B. Umbo, Mgr. v/s now at West Sepik. (Davis-CO). p/d ltr. in 25 ds. for 3 IRCs. v/s Raka Saini. (Paszkwiewicz-WI).

ALASKA: KNLS 6120 f/d cd. in 10 ds. for ms. (Hardester-CA). same in 8 ds. for ms. v/s Anne Bailey, Sec. (Wilkins-CO). 6085 cd. in 10 ds. for ms. (Lawrence-CO)

ALGERIA: RTVA 17745 f/d "Tapestry" cd. in 5 mo. for 3 IRCs. (Loudell-TN). 15215 f/d cd. in 35 ds. for a SP rpt. (Barrera-ARG).

ANGOLA: Radio Nacional 9535 f/d cd. w/ ltr. via registered mail. v/s Luzia Falcony, Director of Programs. (Field-MI).

ARGENTINA: RAE 15345 f/d cd. w/ pennant in 73 ds. for an EG rpt. (Levison-PA) 11710 cd. in 49 ds. (Speer-CA). same in 53 ds. w/ pennant. (Cones-VA). in 48 ds. for 2 IRCs. (Kacir-MI). Radio Rivadavia 4588 f/d "Owls" cd. w/ sticker in 2 mo. for a SP rpt. and ms. v/s Ing. Jorge Armando Falcone, Gerente Tecnico. (Orcutt-NY). LOL 10000 f/d folder cd. in 65 ds. for 1 IRC. v/s Pascual Jaime Patuel. (Cones-VA).

ASCENSION ISLAND: BBC 11750 f/d ltr. in 150 ds. v/s M.R. Watkins. (Cones-VA). 7160 f/d personal ltr. in 148 ds. for 2 IRCs. (Lawrence-CO).



ASIATIC RUSSIA: Radio Moscow 9520 via Irkutsk f/d cd. in 1 mo. (Witherington-FL). Vladivostok Radio 4040 f/d cd. in 38 ds. for a RS rpt.

Sent to site - reply via Moscow. (Barrera-ARG).

AUSTRALIA: Radio Australia 15320 via Shepparton cd. in 46 ds. (Levison). 9580 cd. in 65 ds. w/ poster. (Levison). 11910 f/d "Woodchopping" cd. in 100 ds. (Renfrew-NY). 9580 cd. in 27 ds.

(Speer-CA). 5995 via Lyndhurst f/d cd. in 5 wks. (Tow-AL). in 11 wks. for ms. (Loudell-TN). 7135 via Darwin f/d "Wattle Plant" cd. in 21 ds. for ms. (Sgrulletta-NY). VW9 9610 via Perth f/d "Map" cd. in 3 wks. for ms. (Loudell-TN). same in 24 ds. (Tow). VNG 7500 f/d cd. in 1 mo. for 1 IRC. (Karsh)

AUSTRIA: ORF 15320 f/d cd. in 9 wks. (Tow). 6000 f/d "Wien" cd. in 51 ds. for 1 IRC. (Wilkins-CO). 12015 cd. in 35 ds. (Levison). 9770 f/d "Snail with Castle" cd. in 2 mo. for 3 IRCs. (Loudell). 11665 f/d cd. in 80 ds. for a SP rpt. (Barrera-ARG). 5945 f/d "Chalet" cd. in 72 ds. (Levison-PA).

BELGIUM: BRT 17610 f/d cd. in 35 ds. (Levison). p/d ltr. in 36 ds. (Tow). 5910 f/d "Hospice" cd. in 47 ds. (Blanchette-FL). cd. in 6 wks. (Swaringen-NC).

BIAFRA: FRCN 6025 via Enugu f/d ltr. in 22 wks. for 1 IRC. v/s Olisa Nriagu, Chief Engineer. (Swaringen-NC).

BOLIVIA: Radio Santa Cruz 6139 f/d cd. in 1 mo. for a SP rpt. (Field-MI). f/d cd. w/ prepared cd. in 3 mo. for a SP rpt. v/s Jose Ross. (Berg-MA). Radio

\* San Jose 5985 ltr. w/ prepared cd. and colorful pennant in 7 wks. for a SP rpt. v/s Daniel Ordonez Plaza, Sect. General of Sindicato de Trabajadores Mineros de San Jose. (Berg-MA). Radio Nacional de Cochabamba 5974 ltr. in 1 yr. for a SP rpt. v/s Rogildo Fontenelle Aragao. (Field-MI).

BONAIRE: Radio Nederland 17605 f/d cd. in 40 ds. (Speer-CA). f/d "Flevo" cd. in 15 ds. (Renfrew). 9630 cd. in 1 mo. (Stuart). Trans World Radio 9535 f/d "Harbour" cd. in 13 ds. (Karsh-MN).

BOURKINA-FASO: Radio Nationale 4815 f/d ltr. for a FR rpt. and

2 IRCs. (Barrera-ARG).

BRASIL: RadioBras 15290

f/d cd. in 45 ds. for

2 IRCs. v/s Denise

Uchoa. (Kacir-MI).

same in 3 wks. for

3 IRCs. (Loudell-TN).

**RADIO DIFUSORA**  
DE POÇOS DE CALDAS LTDA.



BRASIL: RadioBras 15290 f/d cd. in 46 ds. for 1 IRC.(Richards-CT). Radio Cultura do Para 5045 cd. in 3 mo. (Berg-MA). same in 64 ds. for a PT rpt. and ms.(Witherington-FL). Radio Aparecida 6010 f/d cd. for a PT rpt. and 1 IRC.(Barrera-ARG).

BULGARIA: Radio Sofia 11850 via Plovdiv \* f/d cd. in 3 mo.(Kacir-MI). 9700 cd. in 145 ds.(Witherington-FL).

BURUNDI: La Voix de la Revolution 3300 \* f/d folder cd. in 24 ds. for a FR rpt. and 2 IRCs.(Cones-VA).

CAMEROON: Radio Douala 4795 f/d "Map" cd in 5 wks. v/s A. Nsima.(Loudell). in 45 ds. for a FR rpt. and ms.(Tow-AL)

CANADA: CFCX 6005 p/d "Skyline" cd. in 66 ds.(Davis-CO). same in 3 wks. for ms.(Loudell). CFRX 6070 f/d cd. in 7 wks. for ms.(Loudell). CKZU 6160 p/d "CBC Studio" cd. in 25 ds. for 1 IRC (Hardester-CA). RCI 11945 f/d "40th Anniversary" cd. in 15 ds.(Renfrew). CKFX 6080 p/d cd. in 21 ds. for 1 IRC. v/s T. Rattenbury. (Lawrence).

CANARY ISLANDS: REE 15365 f/d "Castillo de Valencia" cd. w/ site in 6 wks. for 3 IRCs.(Loudell-TN).

CELEBES ISLANDS: RRI Ujung Pandang 4753 long p/d ltr. in 22 ds. via registered mail for an IN rpt. and ms. v/s Mohammad

\* Noor.(Reinstein-FL). 4719 f/d "Logo" cd. in 287 ds. for an IN rpt. and ms. v/s H.A. Nyongki, Kepala Stasiun.(Davis-CO).

CHAD: Radio Nationale Tchadienne 4904.5 f/d form ltr. in 2½ mo. for a FR rpt. and 2 IRCs. v/s Danrhet Oualbadet, Directeur.(Orcutt-NY). same in 28 ds. for a FR rpt. and 3 IRCs.(Loudell). in 100 ds. for a FR rpt. & 2 IRCs.(Schmitz-FRG). f/d cd. in 3 mo. for a FR rpt.(Kirkland-ONT).

CHILE: Radio Patagonia 6080 n/d ltr. in 2 wks. for a SP rpt.v/s Claudia \* Barquez Castro, Secretaria.(Field-MI). Radio Agricultura 9630 f/d ltr. in 33 ds. for a SP rpt. and 2 IRCs. v/s Carlos Toledo Verdugo.(Barrera).

CHINA. PEOPLES REP: Radio Beijing 9730 f/d "35th Anniversary" cd. in 19 ds. (Wilkins-CO). 6933 f/d cd. w/ pennant in 44 ds. for a SP rpt.(Barrera). 9820 f/d cd. w/ pennant and stickers in 19 ds. for 2 IRCs.(Loudell-TN). 9880 cd. in 34 ds.(Karsh-MN). Fujian Front Station 5770 n/d folder cd. \* in 6 mo. for 3 IRCs.(Loudell-TN). Fujian PBS 4975 f/d cd. direct from the station for a CH rpt. in 49 ds.(Barrera-ARG). Sichuan PBS 7225 and 6058 Chengdu form ltr. rcvd. direct from the station in 4 mo. v/s Liu Li. (Berg-MA).....Good going on the direct replies!



CB 106 / CE 9750  
RADIO MINERIA  
SANTIAGO  
CHILE  
Q S L

CLANDESTINE: Radio  
\* Venceremos 6560 f/d form ltr. in 43 ds. for a SP rpt. and \$1.00. Used Mexican addr. (Barrera-ARG).  
\* Radio Camilo Cienfuegos - La Voz del CID 9939 f/d cd. in 1 mo. for 1 IRC. (Palmerheim-MN).  
\* Radio Iran form ltr in 6½ mo. after a f/up rpt. to: 17 Blvd. Raspail, 75007 Paris.(Berg). more to follow.....

**CLANDESTINE: Radio Maximo Gomez - La Voz del CID 11680 f/d cd. in 101 ds. for a SP rpt. via Chicago addr. (Dillon-DC). Radio Surinam International 17755 via RadioBras form ltr. in 2 mo. (Valko-PA). same in @ 1 mo. v/s G.B. Sankatsing, Editor in Chief. Addr: P.O. Box 2979, Paramaribo. (Berg-MA). p/d ltr. in 9 wks. for 1 IRC. (Palmerheim-MN). n/d ltr. in 2 mo. fir 1 IRC. (Swaringen-NC). Although transmission is from Brasil I've listed this station under clandestine. Sam.**

**COLOMBIA: Radio Macarena 5975 f/d cd. w/ personal ltr. and stickers in 25 ds. for a SP rpt. and 3 IRCs. v/s Enrique Zambrano Nieto, Gerente. (Loudell). La Voz del Guaviare 6035 prepared cd. w/ postcard in 9 mo. for a SP rpt. v/s Guillermo Pulido, Gerente. (Berg). f/d prepared cd. in 1 mo. for a SP rpt. and ms. (Orcutt-NY). Emisora La Voz del Orinoco (Caracol Carreno) 5936 p/d form ltr in 2 mo. for a taped rpt. and SASE (which was used). Addr: Av. del Puerto, Puerto Carreno. Station a/k/a LV de Marandua. (Berg).**

**COSTA RICA: Radio Reloj 4832 p/d "Clock" cd. in 13 ds. for a SP rpt. and 3 IRCs. v/s Francisco Barabona. (Loudell). 6006 cd. in 1 mo. (Berg-MA).**

**CUBA: RHC 11930 f/d "Santa Maria del Mar" cd. in 5 1/2 mo. for 2 IRCs. (Loudell-TN). same in 98 ds. (Richards-CT). 11760 f/d cd. in 211 ds. v/s Francisco Luna, Correspondence Head. (Witherington). Radio Moscow 4765 f/d cd. in 20 ds. for a RS rpt. (Levison).**

**CZECHOSLOVAKIA: Radio Prague 5930 f/d cd. in 6 wks. for 2 IRCs. (Loudell). f/d cd. in 25 ds. (Levison). 7345 f/d cd. in 21 ds. (Witherington-FL).**

**DENMARK: Radio Denmark 15165 f/d cd. in 17 ds. for 3 IRCs. (Loudell-TN).**

**DOMINICAN REP: Radio Clarin 11700 large f/d cd, very colorful and a collectors item: (Berg-MA).**

**ECUADOR: (I hope your ready for this one!!!) HCJB 11740, 15115 and 17890 f/d "Indigenous Peoples" cd. in 1 mo. for ms. (Loudell). 17890 f/d cd. in 42 ds. for 3 IRCs. (Levison). 6095 and 9745 f/d cds. in 33 ds. (Wilkins-CO). La Voz del Upano 5040 n/d personal ltr. in 70 ds. for a SP rpt. and 2 IRCs. pennant rcvd. v/s M. Patricia Jaramillo J., Secretaria. (Henschen). n/d ltr. w/ pennant in 15 wks. (Valko). same in 70 ds. for a SP rpt. and ms. (Wilkins-CO). ltr. w/ pennant in 10 wks. for a SP rpt. (Field-MI). Radio Quito 4920 n/d folder cd. w/ pennant for a SP rpt. (Wilkins). Radio Catolica Nacional 5055 n/d ltr. w/ pennant in 2 mo. for a SP rpt. (Field)**

\* **Radio Targui 4977 f/d "Santuario de Guapulo" cd. for a SP rpt. v/s Hernan Herdoiza Leiva, Gerente. (Wilkins). f/d prepared cd. w/ 2 LPs. (Moore-EC). Radio Pastaza 3316 p/d ltr. for a SP rpt. v/s Raul Diaz C., Recaudador. (Wilkins). ltr. w/ prepared cd. w/ photo in 8 mo. (Berg-MA). 3315**

\* **ltr. via station visit. (Moore-EC). Escuelas Radiofonicas Populares 5015 prepared cd. in 19 mo. af er 4 f/up rpts. in SP. (Berg). p/d postcard in**

\* **4 mo. for a SP rpt. (Reinstein-FL). Ondas Quevedenas 3325 p/d ltr. for a SP rpt. v/s Maruja Jaramillo E., Administrador. (Wilkins). p/d ltr. w/ cd. per station visit. (Moore-EC). Radio Paz y Bien 4820 f/d cd. w/ ltr. in 6 wks. for a SP rpt. Pennant rcvd. v/s Enrique Pesantez G., Gerente. (Field-MI). Emisora Gran Colombia 4910 ltr. in 4 mo. w/ pennant for a SP**

\* **rpt. v/s Eduarde Cevalles Castanedo, Director-Gerente. (Field). Radio Casa de la Cultura 4930 f/d cd. for a 1979 reception. v/s Marco Vinicio Escalante, Director. (Moore-EC). Radio Nacional Espejo 4680 f/d ltr. w/ calender. v/s Mercedes Boborich de Caicedo. (Moore-EC). Radio Nacional de Ecuador 4940 f/d ltr. for a 79 reception. v/s Eduardo Rodriguez Vivas, Director. (Moore-EC). Radio Bahai 4990 B&W cd. w/ pennant and poster. v/s Marcelo Quinteros M., Gerente. (Moore-EC). Radio Jesus del Gran Poder 5050 folder cd. v/s Eduardo**

\* **Enriquez. (Moore-EC). La Voz de las Caras 4795 ltr. w/ folk mx LP. v/s Alejandro E. Nevarez, Gerente. (Moore-EC). Radio Iris 3380 ltr. from J. Antonio Marchan, Gerente. (Moore-EC)....note to follow.....**

**emisora**  
**VOZ DEL UPANO**  
**HCVB-7**  
 via  
 Wilkins



**1540 KHz. onda media**  
**5.040 KHz. onda corta**  
**MACAS**  
**MORONA-SANTIAGO**  
**Agosto-5-1984**

**广播收听証**

亲爱的朋友, Fujian QSL via

茲证明您 11月15日的收听报告, 频率 4975 千赫, 符合本台节目, 欢迎继续告诉我们收听情况。

Barrera-ARG.

中国福建人民广播电台



**ESPORTES-MÚSICA-NOTÍCIAS**

Inauguração dos novos transmissores do Rio de Janeiro

L. S. 87  
ONDA MÉDIA 1200 Kcs  
ONDA TÍPICA 2.318 Mc DO SPT.  
F. M. - 1061 mps.  
ZYL - 21 - ZYL - 26Organização  
Associação de Maceio

**ECUADOR:** A great many of the Ecuadorian QSLs, were obtained by Don Moore who personally visited many of the stations. Great job!  
**EGYPT:** Radio Cairo 9475 cd. in 151 ds. for 2 IRCs. (Witherington-FL).

**ETHIOPIA:** Voice of Revolutionary Ethiopia 9560 f/d cd. in 27 mo. for 2 IRCs. (George-NC). same in 78 ds. w/ sticker. (Reinstein-FL).

**EUROPEAN RUSSIA:** Radio Moscow 6170 via Armavir f/d cd. in 1 mo. (Witherington-FL).

**FALKLAND ISLANDS:** FIBS 3958 cd. w/ ltr. in 3½ mo. v/s Wendy Ross, Broadcast Sec. (Kirkland)

**FERNANDO POO:** Radio Nacional 6250 via Malabo long ltr. w/ postcard in 1 mo. v/s Matias Ovono Engonga Nsang, Program Asst. (Berg-MA).

**FINLAND:** Radio Finland 15400 n/d ltr. in 31 ds. for 2 IRCs. v/s Eddy Hawkins. (Witherington).

**FRANCE:** RFI 17600 f/d ltr. w/ sticker in 7 mo. for 2 IRCs. (Witherington).

**FRENCH GUIANA:** RFO 5055 f/d folder "Logo" cd. in 1 mo. for a FR rpt. and 3 IRCs. (Loudell). \* RFI 15440 via Montsinery cd. rcvd. direct in 2 mo. v/s Groizaro Yannick. Addr: Telediffusion de France - Montsinery, B.P. C24, 97307 Cayenne Cedex. (Berg-MA).

**GABON:** Africa #1 15200 p/d "Logo" cd. in 166 ds.

for a FR rpt. and 2 IRCs. (Lawrence-GO). 4810 p/d cd. in 7 wks. for a FR rpt. and 3 IRCs. (Loudell). Radio Japan 21695 via ANO p/d cd. in 6 wks.

for 3 IRCs. (Loudell-TN).

**GAMBIA:** Radio Syd 7425 and 7485 ltr. for rpt. on special one time 9/84 contest arranged by the Grangeberg SW Club in Sweden. v/s Constance Wadner Enhorning, General Manager. (Berg-MA).

**GERMAN DEMOCRATIC REP:** RBI 9620 f/d cd. in 5 mo. for 3 IRCs. (Loudell). 6080 f/d "Art" cd. in 15 ds. (Cones-VA).

**GERMANY, FEDERAL REP. OF:** RFE 3970 via Biblis f/d ltr. in 4 ds. for SASE. v/s Dave Walcutt. (Sgrulletta). Radio Liberty 3985 f/d ltr. in 4 ds. (Sgrulletta). VOA 3980 via Munich f/d cd. in 219 ds. (Harvester).

**GHANA:** GBC 4915 f/d "Logo" cd. in 10½ mo. for 2 IRCs. v/s Nick Fenet. (Talbot-ALB).

**GUATEMALA:** Radio Cultural 3300 f/d cd. w/ ltr. in 36 ds. for a SP rpt. and 3 IRCs. v/s Wayne Berger, C.E. (Green-TN). f/d "Quetzal Bird" cd. in 132 ds. for 2 IRCs. (Lawrence). same in 235 ds. for a SP rpt and 1 IRC. (Cones-VA). in 52 ds. w/ personal ltr. for ms. (Witherington). Radio Tezulutan 4835 f/d cd. in 42 ds. for a SP rpt. and ms. (Witherington). La Voz de Nahuala 3360 f/d cd. w/ personal ltr. in 7 wks. for a SP rpt. v/s Juan Fidel Lepe Juarez, Director. (Valko-PA). TGMUB 6090 f/d cd. in 24 ds. for an EG rpt. and ms. v/s Bany Barillas, Tecnico. (Niekamp-MN). Radio Maya de Barillas 3325 f/d "Indian Warrior" cd. in 1 mo. for a SP rpt. and 3 IRCs. (Loudell).

**RADIO DUBLIN INTERNATIONAL**

**Q.S.L.**

TO Joe or Alberta

We are pleased to confirm your reception report of Radio Dublin on 4/10/84 between 09:30 and 10:30 AM on the 1200 kHz QSL.

Studios: 51 INCHICORE ROAD, DUBLIN 8 (Wicklow) (Ireland)

Mailing Address: RADIO DUBLIN, DUBLIN 8, IRELAND.

Telephone: 01-738864 *Mavis Reynolds*

**GUYANA:** GBC-2 5950 f/d ltr. in 5 wks. for ms. v/s Phyllis Hyles. (Tow-AL).

**HAITI:** Radio 4VEH 4930 f/d cd. in 5 wks. for 3 IRCs. v/s Edna Beachy. (Loudell).

**HAWAII:** WVH 15000 cd. in 13 ds. (Karsh-MN).

**HOLLAND:** Radio Nederland 13670 f/d cd. in 2½ mo. (Palmerheim-MN). f/d cd. in 2½ mo. (Berg-MA)...all from Flevo site.

**HUNGARY:** Radio Budapest 6100 f/d cd. in 45 ds. (Renfrew). 6025 via Jaszbereny f/d cd. in 1 mo. (Kacir). same in 33 ds. w/ schedule. (Levison-PA).

**INDIA:** AIR 9545 f/d cd. in 1 mo. for 2 IRCs. (Tow). 7295 via Aizwal f/d cd. in 2 mo. v/s H.O. Agrawal, Director. (Berg-MA).



RADIO NEW ZEALAND

INTERNATIONAL WATERS: Voice of Peace 6240 f/d ltr. in 1 mo.

\* for 3 IRCs. v/s Mark Edwards. (Sgrulletta).

IRAN: VOIRI 9022 f/d cd. in 165 ds. (Barrera).

ITALY: RAI 9575 f/d cd. in 8 mo. (Kacir-MI). IBF 5000 p/d cd. in 53 wks. (Valko-PA).

JAPAN: NSE Radio Tampa 9595 and 6055 f/d cd. in 3 mo. (Field-MI). 3945 and 6115 cds. in 20 ds. for 1 IRC. (Hardester). 3925, 6055 and 9595 f/d cds. in 20 ds. for 1 IRC. (Hardester). Radio Japan 15195 "Hakata" cd. in 24 ds. (Speer). NHK 3607.5 p/d cd. in 16 ds. for 2 IRCs. (Hardester-CA).

KAMPUCHEA: Voice of The People of Kampuchea 9695 f/d ltr. \* in 10 mo. v/s Mao Mayan, Deputy Head of Foreign Service. Pleas'd w/ this one! (Valko-PA).

KOREA, REP. OF: Radio Korea 11810 f/d cd. w/ sticker in 38 ds. for 1 IRC. v/s Y. Choi. (Stuart).

KUWAIT: Radio Kuwait 11675 f/d folder cd. in 6 wks. (Tow-AL).

LESOTHO: Radio Lesotho 4800 f/d "Map" cd. in 4 mo. for 3 IRCs.

LIBYA: Radio Jamahiriya 15450 f/d cd. in (Paszkievicz-WI) 40 ds. for 2 IRCs. (Barrera-ARG).

LITHUANIA: Radio Vilnius 15240 f/d cd. in 103 ds. (Speer-CA).

LUXEMBOURG: Radio Luxembourg 6090 f/d cd. in 52 ds. for 1 IRC.

MALI: Radio Mali 4783 f/d "Map" cd. in 21 ds. (Witherington-FL) for a FR rpt. and 2 IRCs. (Witherington). 5995 same cd. in 350 ds. for an EG rpt. and 1 IRC. (Cones-VA).

MONGOLIA: Radio Ulan Bator 12015 f/d cd. in 43 ds. (Barrera-ARG).

NEW ZEALAND: Radio New Zealand 15450 f/d cd. in 58 ds. for 3 IRCs.

NICARAGUA: Radio Zinica 6120 p/d ltr. in 35 ds. for (Barrera-ARG).

a SP rpt. and 2 IRCs. v/s Arturo Valdez. (Lawrence-CO). n/d form ltr. in 9 1/2 mo. for a SP rpt. and ms. (Niekamp-MN). same in 6 wks. for a SP rpt. (Field-MI). same in 6 wks. (Valko-PA).

NIGERIA: Voice of Nigeria - Educational Service 4932 f/d cd. in 9 mo.

\* (Field). VON 15120 f/d cd. in 3 mo. (Field). 7255 f/d "Lagos Airport" cd. in 258 ds. for 2 IRCs. (Lawrence).

PARAGUAY: Radio Nacional 9735 p/d form ltr. in 49 ds. for a SP rpt.

and 1 IRC. v/s Carlos Montaner. (Henschen-IN). Emisoras Paraguay prepared cd. w/ postcard in 6 wks. for a SP rpt. v/s Carlos M. Sanchez Neira. (Berg-MA).

PERU: Radio Quillabamba 5025 form ltr. w/ pennant in

3 1/2 wks. for a SP rpt. v/s P. Rufino Lobo Alfonso, Director. (Kirkland-ONT). Radio Oriente 6189 ltr. w/ prepared cd. in 23 mo. for a SP rpt. v/s Prof. Ricardo

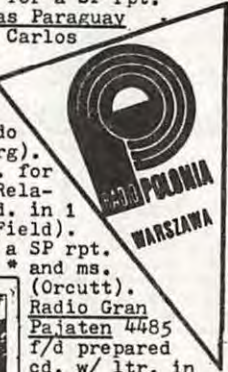
Arevalo Flores, Administrador-Director Artistico. (Berg).

Radio del Pacifico 9675 f/d ltr. w/ sticker in 24 ds. for

a SP rpt. and ms. v/s J. Petronio Allauca, Dpto. de Relaciones Publicas. (Niekamp-MN). Radio San Martin 4810 cd. in 1

mo. for a SP rpt. v/s Carlos Poehlionell, Director. (Field).

Radio Union 6115 f/d "Machu Picchu" cd. in 1 mo. for a SP rpt.



\* and ms. (Orcutt).

Radio Gran

Pajaten 4485

f/d prepared

cd. w/ ltr. in

29 ds. for a SP

rpt. and SASE.

160 watts. v/s

Milciades Eche-

verria Puitiza,

Gerente-Propieta-

rio. Addr: Jiron

Ayacucho 319,

Celedin, Caja-

marca. (Reinstein)

Cher Auditeur,

Nous avons bien reçu votre rapport d'écou-

te du 31 Janvier 1960

et vous en remercions sincèrement. Celui-ci

est parfaitement exact.

Nous serons toujours très heureux d'être  
tenus au courant des conditions dans les quel-  
les vous recevez RADIO ANDOIRE qui fonc-  
tionne simultanément sur Ondes moyennes  
de 996 kcs. et Ondes courtes de 5.972 kcs.

Soyez assuré, cher auditeur de nos senti-  
ments bien cordiaux.

*J. Rees*

A.S.C. Art Photographique, AXILES-THIEBAUX.  
Réduction interdite. Photo véritable.



Mr. C. VERNON HYSON

10508 Parkwood Drive

KENSINGTON MARYLAND

(United States of America)

**VERIFICATION SIGNERS:** Radio Catolica Nacional 5055 Monsenor Jose Vicente Eguiguren, Director General. La Voz del Upano 5040 Mercedes Riva de Neira. Radio Quito 4920 Alfonso Laso. Emisora Gran Colombia 4910 Eduardo Cevallos Castaneda, Director Gerente. La Voz de la Selva 4825 Raquel Pinta Diaz. Radio Madre de Dios 4951 Francisco Yavier Aniz. SLBC 11800 Anton Perera. Radio Baha 1 4990 Marcelo Campos Encolada. Radio Tingo Maria 4760 Leonidas Infantas G., Director Gerente.

**PORTUGAL:** Radio Renascenca 11730

"Antenna" cd. in 76 ds. (Levison). RFE 11815 and 17725 via Gloria f/d ltr. in 4 ds. v/s Dave Walcutt. (Sgrulletta). Radio Portugal 6075 p/d cd. in 42 ds. (Karsh-MN). same in 5 wks. (Tow-AL).

**QATAR:** QBS 9905 f/d "Map/Logo"

cd. in 43 ds. for 2 IRCs. v/s Jasse Mohd. Al-Qattan. (Cones-VA). same in 2 mo. for 1 IRC (Swaringen-NC). 17910 f/d cd. in 32 ds. for an AR rpt. and 2 IRCs. (Barrera-ARG).

**RIO MUNI:** Radio Nacional de Guinea Ecuatorial 4926 via Bata f/d

cd. in 143 ds. for a SP rpt, tape and 3 IRCs. v/s Jose Mba Obama B. (Sgrulletta). 15106.6 f/d prepared cd. w/ personal ltr. in 2 wks. for ms. v/s Gene Grassie. (Palmerheim-MN). same 1 mo. for an EG rpt. and ms. (Swaringen-NC).

**SARAWAK:** Radio TV Malaysia 7270 via Kuching f/d

cd. in 7 wks. for ms. (Tow-AL). Sibn 5005 f/d cd. w/ ltr. in 6 wks. v/s Edward Kechendal. (Berg-MA)

**SICILY:** RAI 7175 via Caltanissetta f/d "Gran Lorenzo Bernini" cd. in 370

ds. Schedule rcvd. (Cones-VA).

O. S. L.

REPUBLIQUE  
DU SENEGAL  
- 095  
POSTES  
P. 8852




Nous avons le plaisir de vous  
confirmer l'exactitude de votre rapport  
d'écoute du Bahama 24 aux 4890Kz  
de 23.28 à 23.58 heure GMT  
dont nous vous remercions.

OFFICE DE RADIODIFFUSION  
TELEVISION DU SENEGAL - O.T.S.  
B.P. 1766 - DAKAR

M. JEAN Pierre CARAYAN  
911 Hamilton Mall  
Allentown, PA 18101  
U.S.A.

CHAÎNE INTER-SENÉGAL	CHAÎNE NAT. SENÉGAL B.	SENÉGAL III	SENÉGAL IV	SENÉGAL V	SENÉGAL VI
11845 kHz - 100 W	7175 kHz - 100 W	1891 kHz - 20 W	6270 kHz - 4 W	1790 kHz - 4 W	6045 kHz - 4 W
2110 kHz - 100 W	4795 kHz - 100 W	8915 kHz - P. 210	3210 kHz - 4 W	2415 kHz - P. 211	3210 kHz - 4 W
4310 kHz - 100 W	780 kHz - 200 W	SAINT-LOUIS	2725 kHz - 20 W	2415 kHz - P. 212	2415 kHz - P. 213
4350 kHz - 100 W			1115 kHz - P. 173	KAOLACK	KAOLACK
1002 kHz - 20 W			ZIGUINCHOR		TAMBACOUSSA

QSL via Stephany



**SPECTRUM WORLD BROADCASTING**

Confirmation of your reception report on our broadcast of 23-4-84

On a frequency of 7710 KHz/MHz at Q530 UTC/SGT

73 from C. Sinclair Engineering Information Department  
134 EASTWORTH RD, CHERTSEY, SURREY, ENGLAND KT16 8DT

**SAO TOME:** Radio Nacional 4807 f/d form ltr. in 321 ds. for a PT rpt. and 2 IRCs. v/s Antonia Sebastiana (Barrera-ARG).

**SPAIN:** REE 9630 f/d cd. in 27 ds. (Speer). 15365 cd. in 73 ds. (Barrera-ARG).

**SOUTH AFRICA:** Capital Radio 3930 p/d ltr. in 62 ds. (Barto-CT). f/d ltr. in 400 ds. for 1 IRC. v/s Lois Wheeler, Secretary. (Cones-VA). in 5 wks. (Kirkland-ONT). Radio RSA 4990 cd. in 18 ds. (Stuart-OK).

**SUDAN:** Radio Omdurman 5039 f/d ltr. in 32 ds. for 2 IRCs. v/s John

Brown Deng, Public Relations Section. (Cones-VA).  
**SWAZILAND:** TWR 4760 f/d folder cd. in 33 ds. for ms. (Dillon-DC).

**SWEDEN:** RSI 17860 f/d cd. in 19 ds. for 2 IRCs. (Kacir-MI).  
**SWITZERLAND:** SRI 3985 f/d cd. in 41 ds. (Tow-AL). 9885 cd. in 57 ds. (Levison-PA). Red Cross Broadcasting Service 11870 via SRI f/d "Globe" cd. in 3 wks. (Valko-PA). United Nations Radio 4UZ 14500 f/d cd. in 12 ds. w/ complete UNR schedule. (Valko-PA).


**TANGIER:** VOA 15205 f/d cd. in 49 ds. (Witherington-FL). (Barrera-ARG).  
**TUNISIA:** RTVT 15225 f/d ltr. for 2 IRCs. and an AR rpt. v/s S. Ennaifer.

**TURKEY:** Voice of Turkey 9515 f/d cd. w/ pennant in 55 ds. (Levison-PA).  
**UGANDA:** UBC 5027 f/d cd. for 4 IRCs. (Barrera-ARG).

**UKRAINIAN SSR:** Radio Moscow 9720 via Lvov f/d cd. in 48 ds. (Witherington-FL). 15135 via Simferopol f/d cd. in 48 ds. (Witherington-FL).

**UNITED ARAB EMIRATES:** Voice of the UAE 4800 white folder cd. in 18 ds. (Valko-PA). same in 31 ds. (Levison-PA). Dubai Radio and Colour TV 7310 f/d cd. in 18 ds. for 1 IRC. (Stuart-OK).

**USA:** WINB 17730 f/d cd. in 73 ds. for ms. v/s John H. Norris, V.P. (Dillon-DC). same in 22 ds. for ms. (Stuart-OK). WWV 10000 f/d folder cd. in 23 ds. (Karsh-MN).



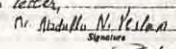
PEOPLE'S DEMOCRATIC  
REPUBLIC OF YEMEN  
BROADCASTING SERVICES  
P. O. Box 1222  
STRAND POINT, ADEN  
P.D.R.Y.

FILED 2005 REC 100 - 10

DATE Slurles R. Fox

Your Reception Report of the 20 JANUARY 1983  
has been checked and found correct/accurate.

Remarks: Reply to your letter.

  
Signature

**Radio Japan****Radio Japan****Mark Warner Special Commemoration Verification Cards**

Radio Japan is to issue two kinds of verification card commemorating the start of our relay broadcasting via Moyabi Station in Gabon. After April the 2nd we will send these cards to

anybody who writes reception reports to us.

We are looking forward to hearing from you. 16,000 cards are available

- \* **Medieval Radio** 7425 f/d ltr. in 5 wks. for ms. (Palmersheim-MN). **Radio**
- \* **Sine Wave** 7430 f/d cd. in 2 wks. (Berg). **Radio North Coast International**
- \* 7425 blue "Ship" cd. in 7 wks. (Berg-MA). **KRZY** 7433 f/d ltr. in 36 ds. for
- \* ms. (Karsh-MN). **Zeppelin Radio Worldwide** 7427 f/d cd. in 47 ds. for ms. cd. says 120 watts. (Reinstein-FL).

**USSR: Radio Moscow** 7160 and 7330 cds. in 46 ds. (Levison-PA). 17810 cd. in 52 ds. (Levison).

**VENEZUELA: YVTO** 6100 f/d cd. in 30 ds. for a SP rpt. and 1 IRC. v/s Simon Salas Salas. (Richards-CT). **Radio Juventud** 4900 f/d cd. in 85 ds. for a SP rpt. and ms. (Witherington-FL).

**ZAIRE: Radio Candip** 5066 f/d cd. in 19 wks.

- \* for a FR rpt. and 1 IRC. v/s Anton Heinskill. (Swaringen-NC). **La Voix du Zaire** 15245 n/d ltr. in 11 wks. for a FR rpt. and 1 IRC. v/s Lepamabila Saye, Conseiller Technique. (Swaringen-NC).

**ZANZIBAR: Radio Tanzania Zanzibar** 3339 f/d ltr. in 35 ds. for an EG rpt. and 2 IRCs. v/s

- \* Tatu A. Abdulla, Director of Information. (Cones-VA).

**ZIMBABWE: ZBC** 3305.7 large f/d cd. in 25 ds. for ms. (Tow-AL). 3306 and 3396 same cd. in 7 wks. for 1 IRC. (Swaringen-NC).

**USA: VOA** 5995 via **Greenville** f/d cd. in 1 mo. (Renfrew-NY). 15120 cd. in 30 ds. (Renfrew). **United Nations Radio** 17730 via **Greenville** cd. in 6 ds. (Niekamp-MN). 10869 f/d cd. in 10 ds. \* (Tow-AL). **KCBI** 11790 f/d "Globe" cd. in 2 wks. for ms. (Palmersheim-MN). **USA (Pirate): Radio Database** \* **International** 15430 and 26040 f/d cd. in 1 mo. (Hardester).....Why do I keep listening this station in this section???

*This verifies your reception report on our transmission via Sholom Gliksmann*  
Date: 10.XI 1982

Time: 12.38 13.03 GMT.

Wavelength: 4040 Khz.

**RADIO YEREVAN**

Mr J Talbot  
604 4902-37 Street  
Red Deer, Alberta  
CANADA T4N 6H9

Dear Joe

Thank you for your reception report on radio station WY. The transmission you recorded was in accordance with our normal schedules and is therefore confirmed.

The Outpost Radio Network is operated by the Australian Telecommunications Commission (Telecom Australia) primarily to provide two-way communication with remote homesteads and communities, some of which do not as yet have conventional telephone services.

Telecom Operators, based in Darwin, have the facility to inter-connect users of this network into the Australian National Telephone Grid. Overseas calls can also be connected via the International Operator in Sydney.

The domestic news service of the Australian Broadcasting Corporation is also relayed twice a day to the service area which covers the northern half of the Northern Territory of Australia.

Transmitters are 500 watts peak envelope power feeding quadrant antennas, which are roughly omni-directional at the vertical angles used. They are located at the Radio Australia transmitting site on Cox Peninsula near Darwin, latitude 12° 24' south, longitude 130° 37' east.

I have enclosed a copy of our booklet "Information for Licensees" which will give you some idea of how the service operates.

Yours sincerely

John Duffield  
for DISTRICT TELECOMMUNICATIONS MANAGER  
NORTHERN TERRITORY

**NOTES:** Quite a nice selection of stations this month. **John Sgrulletta** sends a nice thank you to our good friend **Dave Walcutt (RFE)** for verifying his loggings. Also received letters from **Dave Valko** and **John Tow**. **Peter Dillon** has moved to the DC suburbs. He hopes reception of Latins will improve. **Ray Niekamp** says that his reply rate has gotten so bad that he has started to report to domestic stations! Ray has also joined the MN. DX Club and made many new friends.

That's about it for this time....

# update

April 1985\*\*\*Number 182

Tom Alleman  
636 E. 74th Terr.  
Kansas City, MO 64131 USA  
(816) 523-7292 7-10 pm Central only!

UPCOMING DEADLINES: 20 April (May) 10 May (Mid-May) 20 May (June)

Reproduction permitted. Credit original reporter and NASWA UPDATE. Dates, times and days GMT. Freqs kHz.

\*\*\*\*\*

**ANTARCTICA** Very tentative R. Nac. Arcangel, LRA-36, 15474, in SP/EG 0006-28. EzL vocals and soft instrumentals. Anncmts 0014 in SP, then EG. Presumed ID but only caught bits and pieces. Gave freq and requested reports, even mentioned QSL. All this by W then back to mx. Later M w/ SP talk. High static throughout but so bad that s/off buried. Poor. (Richard D'Angelo, PA 3-14)

**BRAZIL** R. Anhanguera, 4915, in PT 0335-52; fair. PT vocals of Beatles love songs. ID and freq anncmts by M. Into a series of romantic tunes and ballads. Some anncmts but mainly mx. (D'Angelo, PA 3-12)

**GUATEMALA** R. Cultural, 3300, in EG 0327-34; good. End of "Back to the Bible," ID: "From the heart of the Americas this is TGN and TGNA, Guatemala City." Gave freqs and TC for 9:30, then into "Through the Bible" program. Signal has been quite strong and steady recently. (D'Angelo, PA 3-12)

**INDONESIA** RRI Yogyakarta, 5046.1 (normally 5046.3) in IN and EG 1120-1145; light mx, 1129 W anncr: "Good evening listeners. This is Yogyakarta, Indonesia...English Service...program of news and music." 1130 EG nx, 1136 light pop mx, 1140 back to IN and mx prgm. On 3-11 signal strength fair but poor audio due to het. (Ron Howard, CA)

**JAPAN** NHK Kumamoto, 6130, in JP noted in early March around 1145 with prgm of traditional JP mx, 1200 four time clicks, ID. Fair reception with QRM from Laos. (Howard, CA)

**KOREA (REP.)** RK, 6135, in EG 1300-1330; nx, commentary, information about Korea (3-10 at 1315, "Youth in Action" prgm) at fair levels during most of early March. (Howard, CA)

**LAOS** Tentative Lao National Radio, 6130, under Kumamoto, in lang 1200. SEAsian mx, 1200 distinctive sound of large bell tolling seven times slowly, nx, at times almost the same level as the NHK outlet. (Howard, CA)

**MALI** RDN du Mali, 4783, in FR 2338-0000\*; fair w/ strong het. Plenty of hilife mx, anncmts, ID at s/off an plug pulled during middle of anthem. Noted next day w/ talk by M 2254 and instrumental mx. Better signal and less het. (D'Angelo, PA 3-10,11)

**SARAWAK** RMKuching, 4950, in EG 1135. Nx relay/ RM Kuala Lumpur IDs, 1140 local ID and TC, prgm "Topics of Today," 1145 EG local ID and TC, into lang program. Fair. (Howard, CA 3-12)

**SOUTH AFRICA** Capital Radio, 3930, in EG 0303-25. Rock mx, ID, weather forecast, ID: "This is Capital Radio. Today is the seventh day of March. Good morning." David Bowie mx. Recently received program schedule calls this the "Early Bird Show" with Oscar Renzi. TC, "19 minutes past 5," followed by Winston Sports Roundup. (D'Angelo, PA 3-7)

**TAIWAN** Voice of Asia, 5980. 6, in EG 1100-1125; very good. Local nx, 1110 "Music Gallery" (prgm of pop EG songs as rated by Cash Box). (Howard, CA 3-10)

**USSR** Radio Peace and Progress, 9640, in PT \*0058-0104; fair. IS, ID, clear in PT and mentioned as being to Brazil. Mentioned Voice of Soviet Opinion, M w/ nx items. (D'Angelo, PA 3-14)

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Moving on to the features block, we continue with Kraig Krist's fine survey of EG prgms to be heard in the 49 mb, from 5950-6200 kHz:

1400-1430	1500-1600	1930-2000	2030-2100 cont'd
5985 WYFR	5985 WYFR	5980 Moscow	6110 IRBA Radio
5995 R. Australia	6005 CFCX	5995 RCI	6175 BBC
6005 CFCX	6070 CFRX	6005 CFCX	6180 BBC
6060 R. Australia		6070 CFRX	6190 BBC
6070 CFRX	1600-1900		
6080 R. Australia	6005 CFCX	2000-2030	2100-2130
6140 VOA	6070 CFRX	6005 CFCX	5980 RSA
		6070 CFRX	6005 CFCX
1430-1500	1900-1930	6175 BBC	6025 R. Budapest
5985 WYFR	5995 R. Canada Intl	6180 BBC	6030 BBC EG by Radio
5995 R. Australia	6005 CFCX		6035 R. Australia
6005 CFCX	6040 VOA	2030-2100	6040 VOA
6060 R. Australia	6070 CFRX	5975 BBC	6070 CFRX
6070 CFRX	6165 R. Kiev	6005 CFCX	6110 IRBA Radio
6080 R. Australia		6070 CFRX	6175 BBC

<u>2100-2130 contd</u>	<u>2200-2230</u>	<u>2230-2300 contd</u>	<u>2300-2330 contd</u>
6180 BBC	5975 BBC	6005 CFCX	6120 BBC
6185 DW	5980 Sierra Leone BC	6030 AFRTS	6125 RBI
	5990 RAI	6045 VOA	6175 BBC
	6005 CFCX	6070 CFRX	6180 BBC
<u>2130-2200</u>	6005 BBC	6110 R. Mediterran	
5980 RSA	6015 Vatican R.	6175 BBC	<u>2330-0000</u>
6000 Austrian R.	6030 AFRTS	6180 BBC	5960 VoTurkey
6005 CFCX	6045 VOA		5975 BBC
6030 BBC EG by Radio	6070 CFRX	<u>2300-2330</u>	6005 CFCX
6040 VOA	6125 RBI	5960 VoTurkey	8030 AFRTS
6055 R. Prague	6150 Swiss R. Intl.	5975 BBC	6065 WYFR
6070 R. Sofia	6175 BBC	6005 CFCX	6070 CFRX
6070 CFRX	6180 BBC	6030 AFRTS	6120 BBC
6125 RBI		6055 R. Prague	6125 RBI
6165 Swiss R. Intl.	<u>2230-2300</u>	6065 WYFR	6175 BBC
6175 BBC	5975 BBC	6070 CFRX	
6180 BBC	6005 BBC	6110 R. Mediterran	
6185 DW			

Many thanks to Kraig for an interesting and informative feature.

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As always, it is a pleasure to feature the DXing of our friend in Peru, Juan Carlos Codina. We've had a bit of a hiatus in his reports as he took a well-deserved vacation, but he is back and has much to report. First a bit of news:

How are you my friends from all over the world??? I am back in Peru, that spectacular DX country after two months vacation in wonderful Argentina. But I soon will be moving again ... to Berne, Switzerland, where I will reside for several years!

While on vacation, I couldn't forget the hobby so I did some listening with my older ICF-6800 both in Buenos Aires and Santa Teresita, a holiday resort to the south of Buenos Aires. But even though this wasn't truly DXing, just some shortwave listening prior to going to bed, I was still able to hear all of the Bolivians and Peruvians I can hear while in Peru, including the most exotic ones, such as:

Radio Santa Cruz, heard on 6640 at the end of December while in Santa Teresita, announcing 6600 kHz.

Also heard when back in Buenos Aires in January a Paraguayan station with very powerful signals on 5350.0 kHz. The signal was with very little carrier though double sidebands and amazing strength, with musical programs some days and sports programs on others. Not enough time to dig out the ID, but I guess it is some kind of relay such as the one heard in the past in the 10 MHz range. Heard this station throughout January though with irregular schedule. Sometimes opened the carrier at 2000 and into the program shortly after that till after 0300\* sometimes and others 0200\*. Nevertheless, a very irregular schedule. Another explanation for this could be a transmitter problem is some of the 49 mb Paraguayans but the powerful signal made me doubt this.

And now onto the DX:

- 3037.7 PERU Radio Yungay, Yungay, Ancash. First heard 2-12 at 2100 with 10 db over s9 signal. Nothing heard on 1518.8 or 4556.5 or 6075.4 so must be a fundamental. Closing 2320\* with national anthem. Also nothing noted on 1012.6, 2025.2 or 4050.6 so pretty sure this is fundamental.
- 4004.9 PERU Radio Grau, Huancabamba, Piura. First heard 2-10 just after reconnecting my rcvr at 2000 with very nice Andean mx. Good and very stable signal, but couldn't get ID at that time. Noted again on 2-12 at 2120 till 0020+ with a variety of mx and "mensajes musicales" format. S9 signal in Lima, sometimes with heavy fax QRM. Slogan heard: "La Gran Estacion, Radio Grau, la frecuencia del amor y la amistad." The program till 2330 is called "Al Tic-Tac del Corazon." In final anncmts the stn gave the schedule as 0800-2300 but daily closes at 2330\*. No national anthem at the end. Lots of commercials for Huancabamba stores. Also heard "en esta ciudad de Huancabamba." Also anncing "con estudios en Calle Grau 403, Huancabamba. On 2-17 heard anncing 4010 kHz.
- 4485.3 PERU Radio Gran Pajaten, Celendin, Cajamarca. They are now here and with a big 30 db over s9 signal, so this is a new transmitter. Both sidebands very well modulated, and no problems as with the old transmitter used in the 4200-4400 range. Going till 0445+. This is evidently the "new professional equipment" announced some time ago when freq was around 4200 kHz. The anncr sometimes made some mistakes, anncing "el canal 4200" then correcting quickly to "el canal 4485 kilociclos."

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More goodies from Peru, Japan and, I hope, from you next time. Till then

73, TPB



# LOG REPORT

## section A

2000 to 4899 kHz

Editor: Mike Nikolich, 2137 West Farwell Ave., Chicago, IL 60645

- 2380.1 Brazil, R. Educ. de Limeira; presumed 1103 w/OM tx and mx, vry pr signal, but peaked at 1111 (Bolland, FL 2/21)
- 2390 Guatemala, LV de Atitlan; 0135, ID by YL and marimba mx (Johnson, TX 2/22), 0105, marimba mx and whistling (Dickson 2/5)
- 2440h Cuba, R. Reloj; 0815, SP, slow ballads, YL host, full ID by OM at 0830, (2x1220), also hrd Cuban on 2580h (Trotto 2/10)
- 3200 Libya, SPLA/JBC; 0338, AR, OM w/slow tx, some Western semi-classical mx (Jordan 2/10); two stns here at 0416 with equal strength, suspect Libya and Swaziland (Young 2/27); 0400, march-type mx, OM tx (Summers, PA 2/27)
- 3200 Swaziland, TWR; 0413, hymns and OM tx in GR, EG at 0430 w/ID
- 3205 UNID; 0215, PT or SP, sx event, weak signal w/ (Speer 2/26) heavy QRM (Dickson 2/19)
- 3215 Sulawesi Utara, RRI/Manado; 1245, IN, US R&R (believe it or not), ID at :58 into Jak. relay, complete ID after nx (Forsgren, WI 2/26); 1133, IN w/pop mx (Bolland 2/2)
- 3225 Venezuela, R. Occidente; 0200, romantic LA mx, pops (Dickson)
- 3230 South Africa, R. RSA; EG, nx, ID, "The Message" (relg px), DX Corner (Speer 3/3) \*\*Nightline is featuring broadcasts from South Africa this week -- 3/17 -- great stuff...mln) 0322, EG w/nx, "Good Morning Africa" px (Jordan 2/10)+1
- 3235 New Britain, R. West New Britain; 1255, PD, lots of nice lcl mx, ID at :30, "RWNB, Box 412" (Forsgren 2/16)
- 3250 Honduras, R. Luz y Vida; 0241, tx, vocals, kids' choir, het, ID, possible mailbag (Paszkievicz 2/18)\*\*How do you like your new NRD-515? Sheryl...mln. 0341, EG/SP (DeWhitt 3/3)
- 3250 South Africa, SABC; EG, pop mx and ads (Feeley 2/9); 0403, EG, rock mx, ad for Camel Lights (D'Angelo 2/10); 0405, pops, ads, time check and ID (Summers 2/26); 0500 (Speer, CA)
- 3253 Venezuela, R. 1570; 0735, bouncy LAmx, rapid IDs (Summers)
- 3260 Ecuador, LV de Rio Carrizal; 0215, EZL LA mx, love songs, unusually strong tonite (Dickson 2/6)
- 3265 Sulawesi, RRI/Gorontalo; 1240, IN, Koran, some AR mx to ID 1258, IS and into Jakarta relay (Forsgren 2/21)
- 3270 Namibia, RSWA; 2330, hilife mx, very poor audio (Gray 2/21)
- 3280 Ecuador, LV del Napo; 0040, SP, nx, mention of Argentina and Chile (Dickson 2/10)
- 3285 Belize, RB; 0336, EG, interview w/businessman in Hong Kong (Feeley 2/19); 0425, Miss Youth Int'l contest live from Belize Miss Bahamas won! (DeWhitt 3/3); 0039, PSAs, IDs (Polchlopek)
- 3295 Japan, R. Tanpa; JP, pop mx, ID 0735 into tx (Speer 2/26)
- 3295 Namibia, RSWA; 0300, EG, EZL mx, ID at 0300 (Feeley 2/15); 0200, EG ID, non-stop mx til 0230 (Polchlopek) +2
- 3330 Burundi, LV dl Revolution; 0445, FR, TGNA gone tonite leaving LVR in the clear w/pop hi-life plus some Madonna mx, into vern at 0500 as signal faded (Sams, KS 2/21)
- 3300 Guatemala, TGNA; 0125, big band swing, "Moments of Reflection" px (Dickson 2/8); 0328, "Through the Bible" (Palmer 2/21); 0335, relg pxs (Fleming, MD 3/7)\*\*More details, please...mln.
- 3315 Admiralty Islands, R. Manus; 1310, PD, OM w/C&W mx, this stn likes Kenny Rogers, good signal (Forsgren 2/14)
- 3316 Ecuador, R. Pastaza; 1109, full opening ID followed by tx & mx, haven't noted 3491.9 lately (Bolland 2/23)


- 3320 South Africa, SABC: AK, MoR mx and long tx (Speer 3/1)
- 3325 Guatemala, R. Maya: 0030, SP/IN w/relg tx, ID "R. Maya, Barillas..." (Forsgren 2/19); 0015, mx, out-of-tune vocals ///
- 3335 New Guinea, R. East Sepik: 1255, PD, YL w/early (Dickson 2/25) '60s lite pops, few good IDs (Forsgren 2/14)
- 3356 Botswana, RB: 0430, EG tx on farming and population problems, 0440, Afro lang, nx, //4820 & 7255 (Hohnstein 2/9); 0422, poor in Vern w/light pop mx, ID and tx, //4820 (Rigas 2/19)
- 3360 Guatemala, LV de Nahuala: 0240, SP, marimba mx, tx, folk mx and other selections (Dickson 2/11)
- 3365t Brazil, R. Cultura Araraquara: 0233, mellow vocals mixed w/ phone-ins, could not get ID (Forsgren 2/28)
- 3366 Ghana, GBC-2: EG w/OM nx, TC, ID, fair (Cobb 2/24); 0600, EG, nx, relg px (Hill 2/24)
- 3375 New Guinea, R. Western Highlands: 1256, mixture of '50s pop and lcl mx, ID on the hour (Forsgren 2/15)
- 3380 Guatemala, R. Chortis: 0205, choir mx, relg tx by OM in SP (Dickson 2/15)
- 3380 Malawi, MBC: 0400, Chichewa: nx, ID, hi-life, pop mx, also noted 0358 2/15 w/EG ID and FC (Paszkiwicz 2/14); 0328, tent w/tribal mx hrd, not ID (Jordan 3/5)
- 3385 Fr. Guiana, Cayenne: missed ID but sounded like them at 0245 w/EZL mx, tx by OM (Dickson 2/19)
- 3385 New Britain, R. E. New Britain: 1255, PD, nice lcl mx w/some lite pops, OM DJ w/two good IDs (Forsgren 2/8)
- 3395 Ecuador, R. Zaracay: 0100, folk-type mx, TC, love songs and EZL mx, YL (Dickson 2/10)
- 3642 Clandestine, R. Venceremos: 0045, SP, political speech by OM, rev. song, slight CW QRM (Dickson 2/17)
- 3772.2 UNID, PR stn here at 1432 w/chanting under heavy jamming, chants to 1457, possibly Voice of the Broad Masses of Eritrea or VOIR, Iran. Was not //to RRI Kendar(which uses this freq. irregularly) on 4000 (Young 2/23)
- 3799.3v Indonesia, UNID, siren sound at 1414, IN tx, strange mx not typical of IN stns, some singing choras at 1426, opera-type mx at 1452, heavy QRM de AROS (Young 2/13); 1350, tnx to Perry/Wilkins tip, hrd w/weak signals, YL DJ playing C&W mx, SCI in the hour, no //s (Sams, KS 2/21)
- 3910 Japan, FEN/Tokyo: 0840, EG/SP, Mexican and other LAmx w/OM in SP, YL in EG -- quite a surprise...(Sharpe 2/17)
- 3925 Japan, NSB: 0839, live JP tx by many YL's, "Jamie" by Ray Parker, Jr. ID in JP then EG ID 0900 (Valko 2/20); 0843, RCI via NSB, tx on computers, s/off in EG/JP w/Vancouver address on the RCI px (Park, Hawaii 2/16)
- 3930 Transkei, Capitol Radio: 0338, EG, "Early Bird Show" w/US R&R, John Roth cigs. ad, clear ID (Polchlopek 2/19); 0330, pop mx, IDs and TC (Summers 2/26); Brit-sounding DJ w/long version of "American Pie" (Park 2/7) + Hill & Levison...
- 3931 Cape Verde, RV de Sao Vicente: 2230, PT OM w/IDs nice PT vocal mx, EG pop mixed in (Cobb 2/23); 2341-0001\*, ID and close-down -- 4 chimes... (D'Angelo 3/1); 2305, best signal ever from them...PT tx (Rigas 2/18)
- 3958 Falkland Islands, FIBS: \*0859:20, s/on w/inst mx to :59:40, "This is FIBS, the Falkland Is. Broadcasting (Station?)" notes on upcoming pxs, BBC nx (Hardester 2/11); 0902, OM w/many "Good morning, Islanders!" coca-cola ads (Leite 2/3) 0859-0934, s/on, BBC nx, Beatles mx (DeWhitt 2/14) + Cobb
- 3995 England, BBC: 0725, EG until 0730\*, World Svc (Trotto 2/17)
- 4040 USSR, Vladivostok: 1047, RS w/YL tx and semi-classical mx, poor signal (Bolland 2/8)

- 4119.5 N. Korea, V. People's Republic of Korea; presumed at 1052 w/OM and YL (Bolland 2/8)
- 4300t Peru, LA mx here at 0424, SP anmts that are too short, singing in lang other than SP, Peruvian NA at 0442, but no ID caught -- R. Moderna listed and D. Moore reports them, s/off 0445 (Young 2/26)
- 4330 China, Fujian; 1056, CH choral mx and OM tx (Bolland 2/8)
- 4485 USSR, Petropavlovsk-Kamchatskiy; 1430, RS, Georgian Rep. px w/Novosti Press mx and mx by Georgian artists (Sharpe 2/25)
- 4545 Kazakh SSR, R. Alma Ata at 0135 w/tx in lang and RS mx, tx to 0158, lcl IS at 0200, believe //6180, after 0200, //5260 also (Young 2/28)
- 4659 Laos, Houa Phan; singing at 1151, mx, anmts, ID at 1200 and audio off (not carrier) at 1201, strong today (Young 2/9)
- 4672.6 Vietnam, VV tx by YL at 1117, OM at 1126, modulation caused freq to slightly alter, singing at 1130 w/gongs, anmts, then mx, 1208\* -- I suspect this is missing Gia Lai-Kon Tum that used to be around 4701 -- times satisfy sked (Young 2/28)
- 4680 Ecuador, R. Nac Espejo; 2305, SP coverage of Pope's arrival in Ecuador (Moore, Quito 1/29)
- 4725.4 Burma, BBS; 1124, Burmese, best signal I've hrd in many moons with mx and OM/YL (Bolland 2/20)
- 4740 Afghanistan, RA; 0125, PK OM/YL w/flute mx followed by poss. NA or other nat'l mx, time ticks and ID by OM, 0133, Qur'an followed tx (Bolland 2/28)\*\*Thought this was from USSR...
- 4750 Cameroun, R. Bertoua; 0503 w/tx, Afro mx, anmts in FR, ID at 0530, into EG nx, //other regional 60M outlets, don't confuse this with Zaire on 4750.7 (\*0400) (Young 2/13+16); 0536, EG/FR w/nx from Yaounde (Valko 2/21); 0542, EG (O'Brien 2/22)
- 4750 Manchuria, Hailan; 1144, CH tx, heavy noise (Bolland 2/20)
- 4753 Indonesia, RRI/Ujung Pandang; 2202, OM w/ nx and mx w/YL host (Bolland 2/20)
- 4755 Brazil, R. Dif. Maranhao; presumed at 1015 w/PT OM, mx and tx, very weak (Bolland 2/14); 0130 (Bolland 2/21)
- 4760 Liberia, ELWA; VoA nx at 2200 (O'Brien 3/3); \*0655, EG IS, EZL inst mx at 0657, opening anmts and nx 0700 (Alexander); 2130, EG, full ID, VoA nx 2200 (Polchlopek 2/20)+2
- 4765 Brazil, RN Cruzeiro do Sul; 2308, PT, RadioBras px, some code QRM, but no Mayak (Moore, Quito 1/29)
- 4765 Cuba, Mayak px; 0151, RS mx (Feeley 2/18); R. Orbita One, 1138, RS, IS, ID, nx by YL (Trotto 3/6); 1957, lite inst mx, Mayak IS (Alexander 2/25)
- 4765 UNID, Stn here seems to s/on at 0400 under Cuba, which is always too strong for audio help -- Congo? (Young 2/27)
- 4770 Nigeria, FRNC/Kaduna; 2205, EG, focus on development in Nigeria w/many interviews, exams of new biz (Dillon 2/13); 2238, Afro hi-life, EG ID by OM (Gray 3/3)
- 4774.5 Indonesia, RRI/Jakarta; 1207, IN nx by OM until 1214, then tx and mx (Bolland 2/2)
- 4775 Peru, R. Tarma; 1005, SP OM w/mx and canned ID, caught only a few words due to RTTY QRM (Bolland 2/14)
- 4777 Gabon, RTVG; 2230, nice hi-life mx, clear ID (Forsgren 2/8); 0506, FR ID, "Vous etes a l'ecoute de la Radiodiffusion de la Republique Gabonaise" (Wood 2/12); 2038 (O'Brien 3/3)
- 4780 Venezuela, LV de Carabobo; 0120, SP, EZL mx, lively mx, too TCs and ID (Dickson 2/14); 0310, LA mx w/OM, 0315, SP number stn for 2 min. (Fleming 3/7); 0004 (D'Angelo 2/10); 0041, OM DJ w/several IDs, ads after 0100 (Enkenhus, MD 2/26)+2
- 4783.3 Indonesia, UNID; lite orchestral mx at 1348, anmts by OM, pop singing 'til past 1401, gone by 1542 (Young 2/7)
- 4783 Mali, RM; 0640, solid cora mx to ID as "Ici Bamako--RTV Nationale du Mali..." (Forsgren 2/27) 2310-2357\* (3 reporters)

- 4785 Colombia, Ecos del Combeima; 2310, trop. mx, Super net IDs, excellent signal (Moore, Quito 1/29)
- 4790 Peru, R. Atlantida; 0325, SP version of old US pop (Pate 3/4)
- 4795 Cameroon, R. Douala; 2210, FR, pop mx, muffled audio, ID & s/off (Gray 2/24); 0630, ID by YL in EG (Witte 2/20); 0548, "That's the end of the nx" (Wood 2/28); 2205 (Dillon 2/26)
- 4795 Ecuador, LV de los Caras; 0100, LA pop, IDs, anmts by 2 OMs, full production ID w/echo at 0112 (Jordan 3/3); 0109, anmts and IDs (Enkenhus 2/26); 0110, big band mx (Dickson 2/25)
- 4796 Bolivia, R. Nueva America; 1055, SP, OM tx f/out 1103 (Bolland) 0315, SP, fair w/lcl flute mx, ads and ID (Rigas 2/28)
- 4800 Ecuador, R. Popular; 0130, lively LA mx, TC by OM (Dickson 2/25)
- 4800 Lesotho, RL; \*0259, Sesotho, NA and IDs and freqs, into relg. choir singing (D'Angelo 2/24); \*0300, s/on (Jordan 3/5); 0456, EG w/pop mx, 0500 ID and nx by YL (Speer 2/24) \*0258 (Forsgren)
- 4803.5t Bolivia, suspect R. Santa Ana w/lite ballad mx, SP anmts & lively Bolivian singing from 0118 (Young 2/28)
- 4803.8t Vietnam, suspect Lam Dong here at 1215 w/2 YLs, mx and singing at 1221, short anmt and ID text sounded like Lam Dong at 1223\*, exc. morning for VV regionals -- possibly hrd Lam Dong on 4720.5, Nghia Binh on 5120.3, Hoang Lien Son on 6704 Cao Bang on 6507.3 and Son La on 4700//6331.3 (Young 2/28)
- 4810 Peru, R. San Martin; 0137, SP dance mx (Paszkiwicz 2/25); 0952, OM tx, ID (Bolland 2/14); 2315 (Moore, Quito 1/29)+1
- 4815t Burkina Faso, RBF; 0648, FR, OM w/afro drums (Witte 2/20)
- 4815 Brazil, R. Nal. Tabatinga; 0330, PT ID, schmaltzy Brazilian mx, strong (Dickson 2/19); 0200 (Forsgren, 2/27)
- 4820 Honduras, HRVC; 0340, EG, relg px, good until Botswana s/on at 0400 (Pate 3/4)
- 4820 Botswana, RB; 0430, Setswana/EG, world nx, lcl nx, black vocals, full ID at 0511 (Sharpe, 2/19); possibly them at 2100\* w/prayer, NA (Gillis 2/17); tent 0515 (Jordan 2/15)
- 4826.lt UNID, suspect R. Sicuani, Peru; SP mx and anmts from 1030, heavy QRM de USSR/4825 (Young 2/8)
- 4835 Sarawak, RMS; 1531, Malay, world nx, sx, TC by OM, into Koran before s/off (Sharpe 2/15)
- 4845 Brazil, R. Nac. Manaus; 1002, general comments w/mentions of RadioBras (Bolland 2/28)
- 4865 Colombia, LV del Cinaruco; 0917, SP, OM w/many IDs and TCs, "Musica popular" (Sharpe 2/17); 0012 (Trotto 2/9)
- 4870 Ecuador, R. Rio Amazonas; 0155, SP, EZL mx, inspirational tx (Dickson 2/9)
- 4877 Colombia, R. Super; 0400, good signal w/commentary and PSAs
- 4880 S. Africa, SABC; 0448, AK, tx on US/RSA re- (Fleming 3/6) lations, ID as R. SA, tx on release of political prisoners
- 4885 Brazil, R. Clube de Para, \*0800, theme from (Speer 3/1)/// "A Summer Place" and s/on anmts in PT (Young 2/28)+ 1
- 4885 Colombia, Ondas del Meta; 0140, mx and comedy (Dickson 2/22)
- 4889.8 Ecuador, R. Centinela del Sur; LA mx, SP anmts at 0312, IDs at 0403, NA and s/off (Young 3/2); 0146 (Dickson 2/25)+2
- 4890 Papua/New Guinea, NBC; 1152, EG nx, ID, C&W mx (Feeley 2/18)
- 4890 Senegal, RS; AR/FR, booming signal w/meditations, string mx, YL in FR at 0625 (Witte 2/20) 2205-0102\* (Dickson, Dillon)
- 4895.5 Angola, ER do Bie; \*0500, PT, presumed w/vibraphone IS, MPLA song, Angolan NA, s/on anmts (Valko 2/7); tent w/weak modulation, anmts past 0526 (Young 2/28)
- 4895.5 Peru, R. Chanchamayo; 0910, beautiful campo mx, nice clear ID by OM, Brazilian on a couple days later (Valko 2/26)

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A couple that got away...3230/Pakistan 1640 (Wood)...3377/NHK Sendai, 1015, EG (Wood)...4030/Asian RSFSR/Anadyr 0820 (Wood) CUN30...mln.



# LOG REPORT

## section B

4900 to 6199 kHz

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

- 4904 CHAD N'djamena at 1558 2-8 with IS, very strong despite FSK QRM; talking, FR amts, ID, Afr mx past 1640. This is long path of 17,000 miles; fqy is not 4904.5 (Young-CA).
- 4905 BRAZIL R. Araguaia, usual pop mx, ID over guitar mx, 0215-0220 2-27 (Forsgren-WI).
- 4905 BRAZIL R. Relogio Federal, M&W keeping Cariocans informed and on time, 2355 2-27 (Bobb-MN)
- 4910 ECUADOR Emisora Gran Colombia, 0145 2-12, ammts of upcoming events, LA rx, big band mx, good in wx static (Dickson); IDs, talk, 1150 on 2-16, fair sig (Bobb-MN).
- 4910 GUINIA Conakry, mx and ammts 2123 3-1, hvy 4900 QRM; poor sig (Bolland-FL).
- 4910 ZAMBIA Lusaka, 0420 2-24, mx, DJ talk interspersed, ID 0500 (Jones).
- 4915 BRAZIL R. Anhanquera, 0034 2-27 with polka-rhythm EZL mx, PT nx 0100 (Hankins-PA); fair 0200 2-22, EZL, love songs, LA stnds, ads (Dickson); 0310 2-4 with TC, ID, LA mx, nx (Paszkiwicz); 0905 2-6, IDs, songs, bird chirps heard, fair sig (Bobb-MN).
- 4915 GHANA Accra, 2143 on 2-24, nx by man, football scores, into local rx 2155; poor overall (D'Angelo-PA); poor with rx in EG, 0605 3-5 (Dewhitt).
- 4920 AUSTRALIA ABC-Brisbane, rx 1055 2-26, talk about effect of anti-nuclear stance on NZ Labor Party, ID and TC 1100 (Erkenhus-MD).
- 4920 ECUADOR R. Quito, 2336-0001 2-26, cmtry, nx, frequent IDs, ads for Banco Central and Banco Popular (Erkenhus-MD); waltzes 0050 2-8, ads, TCs, nx from Washington, good; also exc sig 0200 2-25 with sports (Dickson); LA pops 0445 3-3, ID as "R. Quito, la voz de la capital" 0449, poor overall (Speer-CA); man talking 1135 2-7, ID with harp sounds, TC, mentions of Banco Pichinchia, nx, fair in QRM (Bobb-MN).
- 4920 INDONESIA RRI-Tanjung Pinang, pops 1447 2-12, ammts, ID 1459, RRI nx past 1506 (Young-CA)
- 4919y MCZAMBIQUE Maputo, 0322 2-11 with mx, ID 0329, into "Programa a Voz Nacional" which is more mx; fqy went to 4917 0327, then back to 4919 (Valko); fair-good 0410 2-20 with vocals, ID by man in PT (Krueger-FL); mx 0426 2-21, 4-note gong, ID; hrd another night at \*0250 with IS and EG ID before a/on (Johnson-TX).
- 4927 INDONESIA RRI-Jambi, pops, ammts, RRI nx, weak but daily 1211-1400\* (Young-CA).
- 4930 HAITI 4VEH, clas, mx 0145, FR ID 0200, good (Summers-PA); 1145 2-16, echo ID (Dillon-DC).
- 4932 INDONESIA RRI-Surakarta, talk 1426 2-7, RRI nx 1500, vy strong, daily (Young-CA).
- 4935 PERU R. Tropical, 0255 2-11, EZL mx, ammts, ID, NA, 0308\* (Dickson); OA mx 0905 2-9, ID, ads (Alexander-PA); 0933 2-14, fair with ranchera mx, thot HJ at first (Bolland-FL).
- 4940 UKRAINIAN SER Kiev, RS 2215 2-1, mx 2220, fair this date (Bolland-FL).
- 4940 UNID. orch. pops 0458 2-28, no TC or ammts, talk 0518, very weak by 0538 (Young-CA).
- 4950 CLAND Voz de Verdade, nx by man 0302 3-5, mx, remakes of US songs, 0332\* (Fleming-MD).
- 4950 SARAWAK Kuching, 1530 in EG, pops, requests, 1600\* 2-15 (Sharpe-CA).
- 4955 BRAZIL R. Cultura, 0930 2-14 with ID, ad, into a bit of mx, poor sig (Bolland-FL).
- 4955 BRAZIL R. Marajoara, carnical coverage 0255 2-19, a huge party, ID 0300 (Forsgren-WI).
- 4965 BOLIVIA R. Juan 23, 1003-1015 2-20, ID hrd while tuning past, ranchera and flute mx, more ammts and mentions of Dpto. Sta. Cruz, Bol; not there at 1000. Fair (Valko).
- 4965 BRAZIL R. Poti, ID 0100 2-19, carnical coverage (Forsgren-WI); EZL 0215 2-13, not too bad w/narrow filter (Dickson); instr. mx 0230 2-22, ID 0258 (Johnson-TX); full ID at 0806, good signal (Wood-HI).
- 4965 NAMIBIA R. SWA, Afrikaan talk 0545 2-28, into Damara/Vama 0550, good sig (Wood-HI).
- 4965 UNID. at 0540 2-10, man in Arabic-like chants (O'Brien-VA).
- 4970 VENEZUELA R. Rumbos, "la emisora de Venezuela," ID 0225 3-2, EZL mx, promos, big band, good sig (Dickson); 1200, bell between ammts, ads, TCs, big IDs, hyper DJ (Dillon-DC).
- 4975 PERU R. del Pacifico, ending concert 0300 2-14, Antonio Vivaldi mx, good sig (Wood-HI).
- 4976 UNID. LA 0127, flutter like on ZY-4985, ammts, seemed PT singing 0132, weak (Young-CA).
- 4980 UNID. lite orch. mx 0554 2-28, vy weak, short ammts, nearly gone 0617 (Young-CA).
- 4980 VENEZUELA Ecos del Torbes, big band 0215 2-9, rx bltn 0235, exc sig (Dickson); ID at 0335 2-18, LA mx, NA to 0400\* (Sharpe-CA); mx, nx, bells, TCs, IDs, 1210 2-16 (Dillon-DC).
- 4985 BRAZIL R. Brasil Central, 0240-0315 3-1, varied mx, full ID 0259 with calls, fqys, power of all outlets, nx 0300, more mx 0304 (Palmer-WA); pops 0417 3-8, fair sig (Dewhitt).
- 4990 PERU R. Ancash, \*0830 2-28, distorted somewhat, lively DJs, short mx interludes, many IDs, and strong (Young-CA); fast talking 0840 2-6, IDs, TCs, varied mx, fair sig (Bobb-MN); 0920 on 2-16, huaynos, talk, commercial plugs, fair signal (Bolland-FL).
- 4990 SOUTH AFRICA R. RSA, piano 0340 2-4, ID 0345, talk, QRM; all EG (Gray-MI).
- 4990 VENEZUELA R. Barquisimeto, 0240 2-13 with sentimental LA mx, TC, some songs in EG, exc sig during snow storm; ID 0245; RSA QRM from 0257, but not too bad (Dickson).
- 4996 PERU R. Andina, man with ammts and TCs 0920 2-14, continuous comments, fair (Bolland-FL).

- 5006 SURINAM R. Apintie, jazz piano 0349 3-2, ID 0357 mentioning AM-FM stereo, NA to 0400\*, RTTY QRM. (O'Brien-VA); 0755 2-20 with instr.mx, drum IS, NA, ID with psble mention of SRS; "Good morning friends," hvy QRM, weak voice audio (Valko); unid. in DT 1005 2-23, talk, mx 1019, poor (Bolland-FL); unid. mx 0253 3-2, gone at 0407 check(Young-CA).
- 5008 UNID. strong carrier, weak modul, M&W in language to 1446\* 2-16;Rawalpindi? (Young-CA).
- 5010 CAMEROUN Garoua, 2138 3-1, poor and mixing with R. Eco, talk, sub-Sahara mx(Bolland-FL); talk 2140 2-26, flute mx, FR 2150, ID, world nx, fair (Dillon-MD); EG mx from Yaounde 0540 3-5, FR nx 0600 (Dewhitt).
- 5010 PERU R. Eco, sports match 0040 2-28, ID 0050, excited anncr, gooaals, etc (Fate-MD); sports 0210 on 2-10, fast talking, scores, good sig in slight QRM (Dickson); ads at 0238 on 2-28, TCs, pop mx, exc-5112 (Rigas-IL); amrts at 0952 on 2-14, mx, many mentions of Peru, Eco mentioned during ads (Bolland-FL); ID 1053 2-8, M&W talking, fair(Bobb-MN).
- 5010v MADAGASCAR Tananarive, \*0300 2-19 with IS, NA, ID by gal, into local mx, quite nice, best ever sig (Forsgren-WI); jazz mx 0304 2-12, ID, maybe some nx, into local choral mx; fair at outset but barely audible by 0350 (Jordan).
- 5015 CLAND R. Truth, \*0430 2-28 with EG nx, cmtry on Cuban troops in Angola, hvy QRM (Fleming-MD); 0437-0500\*, items critical of Zimbabwe govt, trumpet fanfare, fqy mention, birdcall IS, no ID, very good sig (McCoy-NE); talk abt socialism 0444 2-9, poor (Feeley); slightly distorted audio, 0450-0458 2-16, all EG, mostly discussions; didn't hear s/off but gone at 0509 recheck; good African night (Young-CA); to 0504\* 2-12 after talk; anncd "5015 kHz. in the 60 m. SW band," and good signal (Wood-HI).
- 5015 PERU R. Moyobamba, very weak 1030 2-28 with talk, reverb mike effects, mx; also 1034 on 2-23, amrts, TCs, huaynos, many IDs, fair sig (Bolland-FL).
- 5015 USSR Vladivostok, 1030 2-28, nx by M&W, poor with OA QRM (Bolland-FL).
- 5020 ALBANIA Gjirokaster, in Albanian 0500 2-12, Tirana ID, local mx, fair sig (Wood-HI); 0540 2-6, Albanian mx, ID 0545, more mx, IDs 0550, 0600, talks, //5057 (Jordan); M&W voices 0603 2-15, orch.mx, maybe a drama, much better than 5057 (Young-CA).
- 5020 PIRATE "You are lstrg to a 50 watt test xmen on 5020 kc/s" 0224 2-25, into "The Shadow" to 0239\* (Forsgren-WI).
- 5025 BRAZIL R. Borborema, EZL mx 0230 2-10, ID 0259, fairly clear (Dickson).
- 5025 CUBA R. Rebelde, 0025 3-6, US mx, turntable a little slow, SP, "Learn RS via Radio" at 0030 (Fleming-MD); Cuban mx 0530 2-6, ID 0536, off abruptly at 0540 (Jordan).
- 5024v UGANDA Kampala, EG ID 0400 on 5024 2-27, regional nx, fair signal (Trotto-FL); on 5029.5 2-12, EG ID 0500, nx, drifted to 5026 by 0505; good sig (Wood-HI).
- 5030 PERU R. Los Andes, 1015 2-10, much Andean mx to 1028 ID, choral tune, fair (Bobb-MN).
- 5030 VENEZUELA R. Continente, 0139 w/big band mx, LA vocals, TC, good sig 2-14 (Dickson).
- 5035 UNID. LA vty weak to 0257\* 3-8, no ID, no NA, maybe PT; orch.mx; Aparecida? (Young-CA).
- 5035 USSR Tent. a Ruesian, 1245-1301 3-1, gal talking, solemn song, poor sig (Bobb-MN).
- 5039 SUDAN Omdurman, AR-type mx to 0430 pips 2-15, into nx to 0445 fade-out (Forsgren-WI).
- 5040 COLOMBIA R. Cinco, LA mx, amrts, ID, 0130 on 2-17 (Alexander-PA).
- 5040 ECUADOR LV del Upano, 0005 2-22 with M&W in relig.drama, crowds, ID, pops, march mx to 0105 (Bobb-MN); 0155 with instr.mx, amrts, full IDs, two NAs, singing, 0207\*, on 3-1, -2 (Young-CA); clas.mx 0203 on 2-26, man anncr with fqy and stn address, into Beethoven's 9th, to 0211\*, good signal (Gillis).
- 5045 BRAZIL R. Cultura do Para, 2354 2-10, talks, guitar, ID 0005, then EG ID with request for rpts; into soft vocals (D'Angelo-PA); 0125 2-15, Gh-style mx, TCs, show tunes, strong sig (Dickson); ZY mx 0129 2-19, EG ID 0203, then IDs in GM and SP, then PT; poor sig (Bolland-FL); EG ID 0230 2-21, requesting rpts to Belem, GM and SP IDs (Sams-KS); \*0700 3-3, pops, strong het, fair overall (Dewhitt).
- 5047 TOGO Lome, FR nx 0620 2-12, US pop mx 0535, light talks, poor w/muffled audio, QRM (Jordan); clas.mx 2150 2-28, world nx 2200, ID 2215 (Dillon-MD).
- 5055 COSTA RICA TIFC presumed tho no ID, EG relig.prgm 0315 2-23, RTTY QRM (Alcorn-NJ).
- 5055 ECUADOR R. Catolical Nacl, M&W talking 0244 2-28, ID, NA to 0308\*, fair (D'Angelo-PA).
- 5055 FRENCH GUIANA Cayenne, instr.mx 0901, FR talk by man, ID by gal, 2-17 (Dewhitt).
- 5061 ANGOLA Probably ER do Huambo, Afr mx, PT talking 0523 3-5, drums 0530 (Young-CA).
- 5063v ECUADOR R. Nacl Progreso, SP pops, echo amrts, ID, 0310 2-10, not hrd often lately (Alexander-PA); opera at 0317 2-28, ID 0325, also hrd at 1242; drifting upwards lately (Young-CA); 0320 2-10, HC mx, TCs, strong, IDs 0330, 0341, 0346 (Dickson); 0325 2-10 with vocals, ID (Forsgren-WI); talk on immigrants 1345 2-14, good sig (Wood-HI).
- 5095 COLOMBIA R. Sutatenza, LA mx, clas.mx, many IDs, CW QRM, fair overall at 0255 2-15 (Feeley); exc sig but CW QRM, 0502\* 2-9 with NA, 2-10 on past 0550, more recently on much later, formerly off 0400 (Palmer-WA); LA mx 0720 2-2, ID 0730, good (Summers-PA).
- 5120 VIETNAM My unid. of 1-29 appears to be Nghia Binh, now hrd daily, good audio (Young-CA).
- 5170 CHINA PLA, time sig 1200 2-9, ID, into Amy talk, poor sig (Trotto-FL).
- 5180 ECUADOR HCJB, spur of 3220 hrd here (Don Moore in Quito-EC).
- 5238 AZAD KASHMIR Trarkehal at \*1200 2-3, gal anncr, hvy FSK, Urdu singing and mx at 1206 (Young-CA). Replaces 4815 at 1200-1400, per UADX; Pakistan relay? (JB).
- 5257 UNID., maybe Indo, 1355-1402, soft lang, EZL mx, F-P, hrd 2-10, not thereafter(Hardester)
- 5274 PERU R. San Juan de Chota, 0050-0108\* 2-17 on 5274.4, campo mx, amrts, ID, no NA at s/off (Alexander-PA); 5275, good 0215 2-21, flutes, "R. San Juan" IDs (Sams-KS).
- 5274 PERU R. Moderna, 0020-0106 2-26 on 5274.3, huaynos, IDs, TCs, F-F; and on 5275 on 2-6 at 0024-0038 with ID at 0037 as "R. Moderna" (Bolland-FL).

- 5310 UNID. 2342 2-5, barely audible, Angola usually stronger and on 5335 (Bolland-FL).
- 5333 ANGOLA tentatively, R. Nacl, LZL mx 0155 2-6, lively African mx, hrd almost every night for a long time but never caught ID; rapid fluctuation in signal (Dickson).
- 5360 PERU R. Vision, LA mx 0240 2-9, TCs, one of best OAs, singing IDs, NA, 0302\* (Dickson).
- 5366 UNID. gal talking 0237 2-28, lively mx, poor audio but good signal, amnts 0300; doesn't seem LA; Angola? Also in PT 0504, pble nx, very strong, EG pops 0619 (Young-CA).
- 5403 ANGOLA ER do Namibe, 0512-0547 2-20, local mx, reberb ID 0530, nx, chimes (Krueger-FL).
- 5444 PERU R. Imagen, light LA mx 0835, amnts, ID, hrd 2-17 (Alexander-PA).
- 5451 INDONESIA RRI-Biak, 50's tunes 1523 2-7, incredible sig, considering (Young-CA).
- 5555 CLAND R. 15 de Septiembre, good sig 0417 3-6, //5580; nx, gal shouting slogans, sirens and machine guns (Fleming-MD); 0558 2-9, //5580 (strong but bad modul), 0604\* (Young-CA).
- 5601 UNID., most likely clandestine, \*0600 2-9, SP talks, hum, weak modul (Young-CA).
- 5617 PERU R. Ilucan, ballads to 2348, poor-fair, not there at 0040 recheck (Moore-EC).
- 5659 LACS Xieng Khouang here at 1137 2-9, singing (no accompaniment), amnts (Young-CA).
- 5770 CHINA PLA, CH mx 1028 2-21, man in Army, ID, talking by gal, fair sig (Trotto-FL).
- 5816 PERU tentatively, maybe LV del Altiplano, M&W with nx 0210 2-8, loud and clear at times, QRM'd others; TCs noted (Dickson).
- 5875 SAUDI ARABIA BSKSA, IS 0255 2-28, AR amnts, no audio hrd to pble mx 0321! (Young-CA).
- 5910 BELGIUM BRT, EG 0030 with "Brussels Calling", on technology fair, sports, wx, some RTTY but got better toward 0100 (Alcorn-NJ); 0042 2-17 with mx from film interview; cmtry on business 0053 2-16 (Levison); talk on missiles 0109 2-27, pops 0110 (Hankins-PA).
- 5930 CZECHOSLOVAKIA Prague, world nx in EG 0113 2-27, nuclear wps, Arabs-Israel, etc (Hankins-PA); nx 0140 3-1, ID, DX prgm, into SF 0200 (Enkenhus-MD); IS 0300, ID, sked, world nx, "Cntry of the Week," press rvw, etc 3-13 (Dillon-MD); 0322 2-13 (Levison).
- 5930 USSR Mayak, RS vocal mx 1140 2-20, slow and solemn, IS 1200, poor sig (Bobb-MN).
- 5935 LATVIAN SSR Riga, ivry flutter at 0617 2-9, clas.mx, strong signal and in the clear; Mayak IS 0630, then RS talking (Young-CA).
- 5945 AUSTRIA Vienna, EG 2155 with rpt on Austrian newsreels 2-23, EG ID 2155 2-10, into GE (Alcorn-NJ); EG nx on nuclear wps 0141 2-27, concert mx 0145 (Hankins-PA).
- 5940 USSR Magadan at 0820 3-5 in Chukchi, local mx, mention of Magadan at 0825; many RS words noted, and //Anadyr-4030; good signal (Wood-HI).
- 5955 SWAZILAND TWR, IS 0400 2-11, GM ID, hymns; stronger than RCI-5960 (Park-HI).
- 5960 CANADA RCI, "As It Happens" 0247 2-12 (Park-HI); nx, SWL Digest 0300 2-10 (David).
- 5965 BRAZIL R. Guaiba, fair 0250 2-25, EZL format, many IDs, pips, nx headlines 0300 (Palmer-WA).
- 5965 MALAYSIA Kuala Lumpur, in Malay with Malay pop vocals at 1615 on 2-2, local time WA). check, nx, religious talk, talk about Malaysian air traffic, etc. (Sharpe-CA).
- 5970 JAPAN Tokyo, JP ID 0856 2-25, bilingual ID, theme, preview, nx, //9525 (Park-HI).
- 5970 SPAIN Madrid, IS \*2258 3-5, MA, ID, exc sig, all SP (Trotto-FL).
- 5975 COLOMBIA R. Macarena, 1115-1200 2-6, world, HJ and local nx, ads (Folchlopek); LA mx 1210 2-24, Julio Iglesias, ID (Prath-FL).
- 5975 ENGLAND BBC WS, 0330 2-7, cmt on US budget, all EG (Bonnet-IN).
- 5982 MEXICO XEUJ, in SP 1229 2-18, fair with ID, local mx, TCs (Rigas-IL).
- 5985 MEXICO R. Mexico Intl, full ID 1305 3-3, Mexican mx, weak (Dewhitt).
- 5985 USA VoFC over WYFR, EG 0210 2-27 on CH history, talk about RCC, //6065 (Hankins-PA); EG cmtry, mx, talk about Muslims 0226 2-8 (Levison).
- 5990 ITALY RAI, EG nx and cmtry by gal, prgm of Italian pops, 2205 2-10 (Prath-FL); nx, Italian mx, EG talk, 2209 on 2-24 (Paszkiwicz).
- 5990 ROMANIA Bucharest, operatic mx 0146 2-27, into EG to NA at 0200 (Hankins-PA).
- 5995 MALI Bamako, in FR and lang, 2205-2245 2-11, African harps, chanting, nx in FR, ID at 2245, fair-good signal (Bobb-MN).
- 5995 USA VOA-Greenville, 0230-0300 3-6, talk abt Sup.Ct, freedoms, etc. (Bonnet-IN).
- 6000 AUSTRIA Vienna, FR nx, cmtry, 0108-0128 on 2-24 (Hawk); EG talk on tourism, the economy, composers, 0139-0155\* 3-6 (Bonnet-IN); listener ltrs 0145 2-4, good signal (Dickson); "Letterbox" with Eugene Hertz 0148 2-4, off 0200 (Feeley); political discussion 0336, talk on power blocs, recent history, 2-16 (Hankins-PA).
- 6000 USSR PE site, seemed Orbita 1, rpt from correspondent 1040 2-21, talk, //4940 (Park-HI).
- 6005 CANADA CFCX-Montreal, 1221 2-9, canned EG ID in middle of tune: "This is CFCX from Montreal, Canada, broadcasting on 6005 kHz in the 49 meter band," fair sig (Bolland-FL).
- 6005 S. YEMEN Aden, pips 0330 2-16, nx, cmtry, singing by gal, all AR; no sign of Reloj or CFCX, but BBC s/on 0354 (Paszkiwicz).
- 6006 COSTA RICA R. Reloj, good at 0130 on 2-24, nx cmtry, mx, het (Hawk); on 3-2 in SF at 0700, nx, lively LA mx, weak with much QRM (Hazel-MY).
- 6010 SOUTH AFRICA R. RSA, 0200-0230 3-6, nx and views, sports, nx in detail (Bonnet-IN).
- 6012 ANTARCTICA, tentatively AFAN at 0803-0900 2-26, EG pop and rock mx, definite EG amnt mentioning GMT and song titles, but not quite strong enough for ID (Valko).
- 6015 NICARAGUA Voice of Nicaragua, EG nx, cmtry, mx, 0148-0203 or 2-24 (Hawk); 0155 in EG on 2-4, talk about US aggression, LA mx, into SF nx 0200 (Dickson); SF mx 0330 on 2-11, ID, M&W annrs, good signal (Summers-PA); EG nx at 0405 3-3, headlines 0411, nx in detail to 0416 (Jones); SF M&W annrs 1130 2-8, SF pops, very good sig (Cobb-ME).
- 6020 NETH. ANTILLES RN-Bonaire, good 2344 2-26, deep fades, mx, RN ID in SF 2346 (Palmer-WA).
- 6025 HUNGARY Budapest at 2109 on 2-9, EG cmtry by gal, DX prgm, to Europe and lots of static (D'Angelo-PA); 2-8 at 2115, ID, fair (Bolland-FL); SP 2220 2-10, ID, talk (Irath-FL).

- 6025 MALAYSIA Kuala Lumpur, in CH at 1500 2-25, CH pop mx, ID and Malaysian mx arnd 1530, 1555\* after NA (Sharpe-CA).
- 6030 CYPRUS Tent. CBC, IS weak under VOA at 2215 3-3 (E'Brien-VA).
- 6030 ENGLAND BBC WS, "EG by Radio" 2125 3-8, talk with pilot; not in WRTH (Hill).
- 6035 LIBERIA VOA relay, good 0302-0330 2-7, world nx, jazz (Bonnet-IN).
- 6040 CDR RFI, 0005 on 3-5, IS, SP, ID, nx by gal, fair signal (Summers-PA).
- 6040 FRG Dw, good in EG 0110-0131 2-7, world nx, editorials, "Germany Today" (Bonnet-IN).
- 6050 NIGERIA Ibadan, soul mx to 2159 2-19, drum IS, ID, into nx, all in EG (Foragren-WI).
- 6055 CZECHOSLAVAKIA Prague, \*2130 in EG, nx in brief after IS, then detailed nx (Alcorn-NJ); in EG with nx, 2155 on 2-8, ID 2140, cntry, good signal (Bolland-FL); "Inter Prgm" at 2300 on 2-23 with multi-lingual nx (Czech, GN, FR, EG), "Nighttime Concert" (Frath-FL).
- 6060 AUSTRALIA RA, nx 1200 3-2, pop mx (Bonnet-IN); "Austr Editorial Opinion" 1310 2-16, light pops, TCs, good signal (Dillon-DC); TC, ID, nx, 1400 2-10 (Alcorn-NJ).
- 6060 CUBA Havana, EG 0205 2-27, EZL mx, Cuban history, talk abt heroes (Hankins-PA).
- 6065 CANADA ChC Nq SW Svc, in EG to 1400\*, mx, talk on water baby class, ID to s/off, fair signal (Dillon-DC); 1245 3-2, show tunes, "Good morning, Quebec," good sig (Hazel-NY).
- 6065 USA VoFC over WYFR, EG 0300-0330, mx, talks on CH culture, science (Bonnet-IN).
- 6065 ZAMBIA Lusaka, EG ID 0353 2-3 after fish eagle IS, ID agn 0400, fair overall (Feeley).
- 6070 CANADA CPKX-Toronto, showtunes 0155 2-9, MW ID 0200, fair (Bolland-FL); nx 1330 2-16, wx, CFRB ID, sports, C&W mx, fair-good (Dillon-DC); ads, wx, pops, 1400 3-3 (Green); 2030-2100 3-6, nx, wx, ads, features, traffic problems (snow) (Bonnet-IN).
- 6080 AUSTRALIA RA, ID 1238 2-17, end of nx, rock mx with man DJ, poor signal (Dillon-DC).
- 6080 GIB RFI, EG talk on medicine 0130 2-4, ID, IS, into GM at 0145 (Cobb-ME).
- 6085 ANTIGUA Dw relay, prgm on classical guitarists at 0746 on 2-28, KMLS/VOA QRM (Park-HI).
- 6090 LUXEMBOURG R. Luxembourg, pops 0045 2-27, nx, good till Lisbon s/on 0130 (Hill).
- 6090 PORTUGAL Lisbon, \*0300 in EG 2-7, ID, nx till 0313, ID, Portuguese history (Polchlopek); \*0300-0310 2-19, IDs, accordion mx, man anncr, poor signal (Jordan).
- 6095 ECUADOR HCJB "Guidelines" prgm 0305 2-16, EG nx, talk on prayer in schools (Hankins-PA); "Passport" 0546 2-28, talk on avalanches, fair signal (Park-HI).
- 6095 PORTUGAL Lisbon, 0045-0100 2-9 in EG, talk on amateur radio in Portugal, full ID (Bolland-FL); EG 0050-0102\* 2-19, bltn board, ID, off for 3 mins 0055 (Jordan).
- 6100 YUGOSLAVIA Belgrade, mx 2020 3-3, asking for reports (Levison).
- 6110 MALTA IBERA Radio 2050-2115\* 2-12, fair sig, sermon from Toronto church, gave NA address as POB 521, Stn F, Toronto, ONT M4Y 2L8 (Prossise-MD); ditto 2-22 with gospel mx, 2050 (Alcorn-NJ); R. Mediterran, fair with EG 2230-2304, world and regional nx, mx, 3-7 (Hill); EG nx, lstrn ltrs, 2230-2310 3-6 (Fleming-MD); 2254-2310 2-28, talks about medical scientist and writer Bonavico, ID 2300, address, nx, sports; good (Enkenhus-MD).
- 6110 PHILIPPINES VOA, nx in special EG, 1230 on 3-5 (Green).
- 6115 CUBA R. Moscow over Havana, 1200-1230 2-8, world nx, sports, nx, instrumental mx (Bonnet-IN); 0245-0315 2-8, History Club series, Leningrad in WW II (Owens).
- 6125 SPAIN Madrid, 2355 2-28, good-exc until VOA-6130 s/on 2358; mx, man anncr, pips 0000, then ID by gal, nx, all SP (Palmer-WA); 0050 2-23 in SP, talks abt LA countries, mx; still on at 0330 and 0430 checks, into EG nx 0503 (Jordan); 0132 3-8, talk on Basque politics, press rvw, wx, exc sig, //9630 and replacing 11880 (McLemore-FL).
- 6130 USA VOA-Greenville, good rcpn 0325-0400 3-1, mx prgm, world nx 0355-0400 (Bonnet-IN).
- 6135 SWITZERLAND SRI, EG 0205 2-25, good with light clas.mx, ID 0210, amt 0215 (Speer-CA).
- 6138 PERU R. Colonial, 1145 2-24 with M&W talking, IDs, Andean mx, shouting, P-F (Bobb-MN).
- 6140 CANADA RCI, ID 0645 3-6, fgy, nx, stock quotes, wx, sports, ID, 0700\*; good (Trotto-FL).
- 6140 CUBA Havana, M&W alternating with EG nx 0116 3-1, Castro interview 0120, sports 0127, Cuban songs 0131 (Enkenhus-MD); EG "Today in History" 0230 2-25, fair with Iraqi bubbling jammer against Iran on 6140 (Wood-HI); 0235 on 3-2, EG nx, local quality; also 0305 on 2-9 with Cuban mx, talk about US aid to Afghanistan (Dickson); discussion of agrarian problems 0315 2-16, civil rights, etc, etc (Hankins-PA).
- 6150 COSTA RICA R. Impacto, in SP at 1130-1155 2-25, nice SP vocals with a few IDs mixed in, strong signal (Cobb-ME).
- 6155 ANTIGUA BBC relay, 0007-0017 on 3-1, good level but not very stable, fading in and out; IS only to 0015, then LY gave SF ID, fgy's by man, then SP nx (Palmer-WA).
- 6160 CANADA CKZN-St. Johns, 1100-1230 on 2-3, CBC nx, local nx, mx, local concert rvw, fair rcpn (Hill); 2-29 at 1100 with CBC nx, poor signal (Hazel-NY).
- 6165 NETH. ANTILLES RK-Bonaire, EG nx and "Media Network" 0230 on 2-7 (David); "Newline," "Friday Rpt," sked changes, headlines, 0230-0325 2-9 (Dillon-DC); good 0230-0300 2-7, world nx, talk about cable (Bonnet-IN); 0310-0325 2-9, EG nx, culture, amt for "Dutch by Radio" course, good sig (Owens); DT 0328 2-16, into SP 0330 (Hankins-PA).
- 6169 CHINA Beijing, 1657 on 2-24, RS after nx summary, fair sig, het from 6170 (Wood-HI).
- 6175 ANTIGUA BBC WS, pops 0150 2-19, talk about 60's dances, ID, world nx (Dillon-DC).
- 6180 GUATEMALA LV de Guatemala, SF ID 1430 3-3, TC, much talking, mx, to 1446 (Dewhitt).
- 6180 VENEZUELA R. Turismo, interesting mx 1010 2-8, sound effects, peppy DJ, ID (Bobb-MN).
- 6185 USA WRNO, "World of Radio" at 0530 on 3-2 (Hazel-NY).
- 6186 UNID., possibly IN at 0818-0830 and 0950-1005 2-11, man anncr in IN, EZL mx, couple of light pops; no ID on hr, not //3427; overall poor, bad het against 6190 (Hardester).
- 6189 PERU R. Oriente, NA 0929 2-7, IDs, singing with flute and drums, instr.mx; fair with het (Bobb-MN); fair 1139 2-23, SF armts, mx (Bolland-FL). All for this time--73. X



# LOG REPORT

## section C

6200 to 11699 kHz

Editor: David L. Walcutt, 211 West 56th, Apt. 36-F, New York, NY 10019

- 6225 GREECE VOG; 2340-2350 news, Greek music (Hill 2/25).
- 6230 CLAND. R. Monimbo; 0017-0039 SP, ID & brief cmntry ment. Nicaragua, "La Voz de Democratica Libertad, R. Monimbo" (D'Angelo 2/11).
- 6545 CLAND. R. Venceremos; 0206-0243 SP, martial mx, ballads, ID's ment. Farabundo Marti; jumped to 6553 at 0235 (Paskiewicz 2/25).
- 6586.8 VIETNAM Stn reported here is probably Lai Chau; last month heard a second one, so might be Pakse at some time (Young February).
- 6610t VIETNAM Bac Thai; 1155-1205 Vietnamese, heard Viet mx, talk by W and possible ID at 1200, with news; signal very poor (Trotto-FL 2/21).
- 6665v CLAND. LV de Alpha 66; \*0200-0225\* SP cmntry, mx fills, ID's, speech by Dr. Diego Medina; excellent; ex-7545v (Krueger-FL 2/5).
- 6668 CLAND. LV de Alpha 66; 0217-0226\* anti-Castro talk; f (Rigas 2/28).
- 6699.1 UNID Heard weakly since last month at 1229 but too weak for language. Suspect VV; drum mx & "singing" at 1243; anmts on hour but no TS; M&W in Chinese at 1300 but not // any PLA or CPBS outlets (Young 2/5).
- 6890 CHINA CPBS II; 0915 CH, Western-style waltz mx (Park-HI 2/19).
- 6910 IRELAND R. Dublin; 2130 EG pop tunes, chatty DJ taking phone calls; earliest I've ever heard them! (Alcorn-NJ 2/22); 0308-0335 EG pop mx, ID at 0334, into religious program at 0335 (Hull 2/22).
- 7026.3 CHINA R. Beijing; 2138-2156\* RS Svc., good over reversed and FM-ed Mayak tape jammer; nice Asian orchestral classical mx, W with ID in Russian; jammer crashed one minute before s/off (Krueger 3/3).
- 7056 PERU R. Celendin; 0048 SP, local anmts, ID, TC (Moore-QUITO 1/30).
- 7112 MOZAMBIQUE RM; 0415 PT, Afro pops, several "Radio Mozambique" ID's but no site or service ann'd; // 4919 (Mitch Sams-KS 2/11).
- 7140 UZBEK SSR R. Tashkent; \*1630 IS, Arabic ID, news; g (Wood-HI 2/15).
- 7150 SOUTH AFRICA Capital Radio; 0420 EG, "Kon-Tiki Holidays" promo, where station is giving away a trip to such places as Tulsa & Ohio; Opel Cadet car ad; // 3930 (Sams 2/10); 0401-0442 EG nx, weather for Transkei, ad, TC, EG pop mx, possible sports program; // 3930 (DeWhitt 2/12)
- 7165 USSR RM; 0215 EG to N.Am., via Lvov per UHN (Dillon-MD 3/3).
- 7170 NEW CALEDONIA R. Noumea; 0822-0902 FR mx pgm (Keiichi Kondo-JAPAN 3/3)
- 7177v SOMALIA R. Mogadishu; 0500+ Somali?, rapidly drifting from 7207-7177 then corrected back up again; took 5 minutes from 7207-7177 (Sams 2/25)
- 7194.8 CLAND. R. Quince de Septiembre; 0432-0450, surprised to find here w/ usual rhetoric of pro-FON talk, sirens // 5555.3, 5580 (Krueger 3/3).
- 7215 TURKEY VOT; 2120 EG culture & arts program (Alcorn 3/3).
- 7240 MOZAMBIQUE RM; 0530-0600 PT M&W nx, ID "Em. Nacional" (Hohnstein 2/9).
- 7245 UNID. Frequent but not daily AR, s/on at 0800 with guitar IS; not Mauritania; strong w/chants; Morocco? (Young). Maybe ALGERIA? -ed.
- 7255 BOTSWANA RB; 0354 usual IS, NA "Oh God Our Help" (Gray 3/3); 0358 IS, choral NA, freq anmts into vern. (McLemore 3/7); 0420-0440 presumed Setswana subdued talks, exotic flute combo (Jordan 2/6).
- 7255 NIGERIA VON; 0455 EG, W.Afr. Svc., ID, pgm schedule, nx (Summers 3/5).
- 7265 SEYCHELLES FEBA R.; IS, ID's "This is Feba Radio" (Park-HI 2/20).
- 7270 POLAND R. Polonia; 2335-2355\* EG, jazz show, ID's (Cobb-ME 3/2).
- 7285 MALI RN du Mali; 2335-0001\* FR, lively Afro mx, ID, NA (D'Angelo 2/9);
- 7310 UAE R. Dubai; 0330 EG, nx, talk about role of Moslem women (Paszkiewicz 2/18); 0342 relay of FM pgm (Feeley 2/9).
- 7392 PIRATE "WKUE"; 2050 rock mx, "74 WKUE"; poor (Rigas 3/3).
- 7412 ISRAEL Kol Israel; 0007 EG discussing ME situation, PLO (Hankins 2/17); 0200 IS, ID, into EG nx; // 9815 (Wood 2/17); 0100-0125 EG, ID ME nx, "Forum" about Peres' trip to Europe; schedule (Dillon 2/27).
- 7425 PIRATE "WBBR"; 0107 "Quest of the 80's - how to become a perfect lover, promised T-shirt for two reports to Box 982 Battle Creek; 0155\* (Feeley 2/25); 0110-0132 "Big Boy Radio", Van Halen mx, talk on pirate radio on behalf of "Big Boy" (McLemore 2/24 & not 2/25 UTC? -ed).
- 7427 PIRATE "KROK"; 2131 with oldies program; Moorhead add (Rigas 2/17).

- 7430p SYRIA SARBS; 0233-0510 AR (3 reporters, none with any kind of ID).  
 7432 PIRATE R. Woodlands Int'l; 0037-0110, lbx pgm? (DeWhitt 3/3).  
 7435 PIRATE "WKUE"; 2304-2329 ID, cmnts, rock mx (Bolland-FL 2/24).  
 7436 PIRATE Bootlegger Radio; 2201 fair to poor w/talk by 2 DJ's, rock mx; s/off at 2251 (Rigas 2/23); 0107 s/off, Minneapolis add (Feeley 2/23).  
 7450 SPAIN REC; 2015 SP political cmntry (Green 3/3); 2205 SP (Prath 3/2).  
 7470 CHINA R. Beijing FS; 1930 Albanian, IS, ID's (Park-HI 2/17).  
 7480 CHINA RB; 1020-1115 JP, LL, nx, ID (Park 3/10, Trotto-FL 2/22).  
 9365 CHINA RB; 2010 Esperanto, on Esperanto movement in Sichuan; //7470, 9965; (Wood-HI 3/3).  
 9385 ISRAEL IBA "B"; 0503-0535 HB, local nx & entertainment (Jordan 3/2).  
 9430vv MEXICO R, Mexico Int'l; 2346 SP, mx, ID, over-modulated, no sign of it on 9705 (Trotto 2/20); 0010 SP local mx; spur? (Jordan 2/26).  
 9475 EGYPT R. Cairo; 0135 SP to L.A., Eypitain mx -- wonder what they have against the Latin Americans?! (Dickson 2/19); 0200-0315 EG, feature "Add To Your Knowledge", request for "long letters", mx (Polchlopek 2/25); 0250 EG, Mecca pilgrims (Hankins); 0317 EG (Feeley)  
 9480 ALBANIA RT; 2120 FR nx, NA, IS at 2128 (Vadino-WA 2/23).  
 9480NF SYRIA SARBS; 0227 NA (possible s/on), AR ID "Huna Dimasha", list of freq's and beams including N.America; still good 0400 (Wood-HI 2/25).  
 9495 MONACO TWR; 0720-1033+ EG rel pgms (Kondo 2/27, Hill 2/18, Feeley 2/9)  
 9514.9 MEXICO LV de la America Latina; 1403 SP, nx, ads (Palmer 2/22).  
 9515 SAIPAN KFBS; 1358-1400\* CH s/off, ID "KFBS"; Mexico QRM (Palmer 2/22)  
 9525 GUAM KTWR; 1500 EG, "Wesley Hour"; poor (Zilmer 3/3).  
 9525 NORWAY RN; 2000-2032 NO, NO/EG ID at 2000, wx, fairy tale about bear & fox, songs (Enkenhus 3/2); 2000 EG Sunday broadcast (Feeley 2/17).  
 9525 POLAND RP; \*0400 Polish IS, ID, nx; to sailors; good (Wood 2/25).  
 9540 VENEZUELA R. Nacional; 0020 SP, ID at 0025 w/program intro & guitar mx (Jordan 2/9); 0105 SP, nx, cmntry, Latin mx; good (Owens 2/11).  
 9550 CHILE R. Nacional; 1123-1138 SP, ID at 1130; fair (Kondo 2/28). 0220 SP mx & mentions of Banco de Chile, ID 0224 (Johnson-TX 2/14).  
 9560 KOREA DPR R. Pycngyang; 1300 SP M&W ID, sked, nx (Bolland 2/20); 1415 SP M&W with E2 Spanish mx; good (Hardester 2/11).  
 9560 NETH. ANTILLES TUR; 1040 SP nx then gospel mx (Hankins-PA 2/27).  
 9560 TURKEY VOT; 2349 EG closing announcements (Feeley 2/17).  
 9570 JAPAN MHK; 0400 RS, IS, ID w/ment. Tokyo & MHK; nx (Dillon 3/2).  
 9565 PORTUGAL RP; 0200 PT ID, nx; g (Wood 2/17); 0314 EG (Feeley 2/19).  
 9575 ITALY RAI; 0100 EG, nx, difficult to copy due to the way she talks (Dickson 2/4); 0139 IT nx for L.Am. by two men (Sharpe-CA 2/19).  
 9580 AUSTRALIA RA; 0830-1300+ EG mx, sports, nx etc. (4 reporters).  
 9595 BULGARIA R. Sofia; \*1700 IS, into AR nx; g (Wood-HI 2/24).  
 9600 GERMANY, DR RBI; 0215 SP press review; g, //6040 (Wood 3/4).  
 9600 KOREA PDR RP; 2205 JP ID "Kochirawa Pyongyang Hoso", nx (Wood 2/24).  
 9610 AUSTRALIA VLW9-Perth; 1445 EG, old movie scores, ABC nx (Dillon 2/16)  
 9610 IRAQ R. Baghdad; 2200 EG, W reading letters, "This is R. Baghdad the BC svc. of Iraq" (Bolland 2/8); 2203 EG answers to listeners' letters, music and news; ID at 2219; 2220\* (Feeley 2/16).  
 9610 SEYCHELLES FEBA; 0319 SH, rel pgm w/lots of Afro singing (Park 2/19).  
 9615 VATICAN VR; 2210 EG, M&W answering letters; f, //6015 (Bolland 2/9).  
 9618 MOZAMBIQUE RM; 0402 PT time check in "tempo oficial de Moçambique"; g (Wood 2/25); 0405 PT chatty talk, ID & anmts (Jordan 2/12).  
 9625 CANADA CBC N.S.; 1235-1330 EG, nx, wx, etc. (Trotto 2/23, McLemore).  
 9625 ROMANIA R. Bucharest; 1700\* AR, news summary; g (Wood-HI 2/24).  
 9630 SPAIN SFR; 0000-0115 EG to North America (4 reporters).  
 9635p SINGAPORE SBC; 1535 CH golden oldies w/occasional W DJ, time pips, into news at 1600 (Speer 2/23). As this is seldom reported it would be excellent to cite more than circumstantial evidence that this is in fact Singapore and not just your presumption; such as text of ID -ed.  
 \*9637.2 MOZAMBIQUE RM, Beira-2; 0437-0520 SH, hilife mx, M DJ w/many ID's as "R. Moçambique", brief PT ID text 0500 w/ment. of "Provincia de Sofala"; listed as 9667, reported by Padula on 9642, so obviously a gypsy; very good and in the clear (Krueger 2/23). 0500+ PY/vern, several "Radio Mozambiqu-eh" ID's but no site or service mentioned; pop mx, time checks; decent signal level; not //7112 (Sams 2/24).  
 9645 VATICAN VR; 1940 Latin Rosary followed by church nx in EG (Owens 2/10)  
 9650 NETH. ANTILLES RN-Bonaire; 1102 EG mx & nx items (Hankins 2/27).  
 9650 VATICAN VR; 0215 EG religious program (David 2/19).  
 9660 USA WYFR; 0128 SP rel pgm, ID 0139; QRM from R. Rumbos (Enkenhus 3/2)  
 9660 VENEZUELA R. Rumbos; 1230-1305 SP soap opera, ads at 1245 (Dillon 2/16). ID heard?? -ed. 0135 SP ID & MOR mx; good (Speer-CA 3/5).  
 9665 KOREA PDR RP; 0817 Korean, W w/serious mx, ID by M (Sharpe 2/24).  
 9665 SAIPAN KYOI; 1601 EG/JP s/on into rock mx, anmt in EG & JP requesting letters to Canoga Park address (Hardester 2/11); caught frequency

- changeover from 9665 to 9670 at 1900, took 10 seconds (Palmer 2/10).
- 9675 PHILIPPINES R. Veritas Asia; 1545-1601\* Bengali but at the end of the pgm gave the sked for 1030-1600 for this fqy, in EG (Palmer 2/22).
- 9680.3 MEXICO XEQ, Mexico DF; 1616@1646 per Mitch Sams tip, local level here in SW FL w/rancherops, SP singing "X-E-Q Radio" jingles, many store ads (Krueger 3/2); appears around greyline times w/ID's such as "La 'Q' de Mexico", "La 'Q' Mexicana" & fqy as 940 (Palmer 3/4).
- 9680 PORTUGAL RP; 0042 EG, on foreigners in Portugal, nx (Hankins 2/12).
- 9680 USA VIFC relay via WYFR; \*0200 SP ID, freqs, nx, f (Wood-HI 2/17).
- 9681 MEXICO XEQ; 1430 & 0400 SP, rancho mx, ment. of Cinco de Mayo; thanks to Shockley/Wilkins tips. ID's "La radio de ciudad, ... Cuidad de Mexico." (Mitch Sams 2/24). See above, I "missorted"...-ed.
- 9689 IRAQ R. Baghdad; 0505 AR mx hetting 9690; gone at 0515 re-check so just presumed (Sams 2/23). Being heard ca. 0400-0900 in Europe -ed.
- 9690 ROMANIA R. Bucharest; \*2100 EG to Europe, news (Alcorn-NJ 2/22).
- 9695 BRAZIL R. Rio Mar; 1102 PT M&W, canned ID in German followed by PT cmnts & features; wonder why the ID was in German? (Bolland 2/14). 1108-1250 PT, LA mx, nx, jingles (Kankins 2/27, Prath 3/2).
- 9695 PORTUGAL RFE; 2120-2215 Hungarian, about Soviet defector Shevchenko, nx at 2130; C&W tune 2157, Westmoreland trial (Dillon 2/18).
- 9695 SWEDEN RSI; 2300 EG to N.Am., seldom heard here (Zilmer-NM 3/11).
- 9705 BRAZIL R. Nacional, Rio; 0030-0100 PT sports pgm "Esportive Nacional"; decent signal but QRM from XERMX (Forsgren-WI 2/13).
- 9705 MEXICO R. Mexico Int'l; 0235 SP chatty banter, slogans (Jordan 3/2).
- 9709.5 MAURITIUS MBC; 0227-0407, first noted 3/2 at 0359 w/fill mx into EG v,p, nx by W; on 3/3 0227-0407 good at tune-in, subcontinental vocals, unid. lang; 0230 W w/seeming EG phonetics "MBC" and back to Asian vocals; at 0300 into what seemed to be FR with a few Asian songs, nx at 0330; signal peak 0230 matches Mauritius sunrise (Krueger).
- 9715 AUSTRIA DRF = R. Austria; 1500 EG nx, lbx, ex-9650 (Zilmer 3/11).
- 9735a PARAGUAY R. Nacional; 0959-0159\* SP, LA & S.Am. mx, ID's, national nx (Sharpe 2/17, Jordan 3/2).
- 9745 CAMEROON RC; 2100 flute IS, hילה mx, nx in EG, TC, "This is Yaounde, the National Station of R. Cameroon" (Alexander 2/9); 2110 FR, nx, ID at 2117 in EG/FR; poor (Gray 2/10).
- 9745 ECUADOR HCJB; 0035 EG nx, Bible study (Owens 2/8); 0200 EG rel pgm (David 2/19); 0310 EG, Christ mx vocal group, rel cmnts (Bonnet 3/6).
- 9745 KOREA PDR RP; 1002 KR list of freqs & nx by M&W (Park 2/20).
- 9748.4 TANZANIA RT; 1910-1916\* EG, nx by M, ID w/two freqs inc. MW at 1915, NA & s/off; weak with QRM from 9745 (Valko 2/12). 0356-0415 EG External Svc., fair w/hilife; M: "This is the Ext. Svc. of R. Tanzania, the news...", into datelines, commentary, etc. (Krueger 2/11).
- 9750 SOCIETY IS. R. Tahiti; 0640 FR phone calls w/listeners (Witte 2/27).
- 9764.3 SOUTH AFRICA Capital R., Transkei; 0618-0635 EG ID's, Winston cigarettes sponsored coverage of golf tournament live, TC's (Krueger 2/23).
- 9780 YEMEN ARAB REP. R. San'a; 2048 AR, Western/Arab mx (O'Brien 3/3).
- 9789.6 ALBANIA RT; 0111 SP to L.Am., nx; QRM-ing RFI, below (DLW 3/27).
- 9790 FR. GUINEA? RFI; 1117-1128\* FR vocals, ID in SP (Hankins 2/27); 0323 -0330 EG world nx by M&W, ID, poor (Trotto 2/19). Skipping over? -ed.
- 9800 FR. GUINEA? RFI; 0100 SP ID, request reports; g, // Montsinery 9535, 11670 (Wood 2/18); 0300 FR/EG nx spots, // 9790 (Jordan 3/2).
- 9840 VIETNAM VOV; 1102-1128 EG nx, contest, mx; weak (Hill 2/18).
- 9870NF ECUADOR HCJB; 0235 RS time pips, ID "Golos Ahnd", evidently ex-9655; sked 0200-0500; // 11835 (Palmer 2/10); 0357-0402 RS?, music & ID on the hour (DeWhitt 2/11). Not dual 6205 -ed.
- 9870 SAUDI ARABIA BSKSA; 2120-2145 AR mx, talk by professor, Western mx interlude, ID "... il-'Arabiyyat Is-Sa'udiyyah min Riyadh" (Dillon 3/2)
- 9890 LIBYA SPLAJBS; \*0120 AR on "as-shaab" (the people) (Wood 3/6).
- 9905NF GREECE VOG; \*2100 GK to Australia, // 9420, 6225 (Rigas 3/3).
- \*9940 CLAND. R. Free Suriname relayed via LV del CID; \*2028 DT w/ID (Rigas 2/24); 2030-2047 Sranan-Tongo per "WOR", ID anmts, drums (Jordan 3/3).
- 11620 INDIA AIR; 1745 Hindi, sitar mx, list programs; g (Wood-HI 3/4).
- 11655 ISRAEL KI; 2000 EG s/on to Europe (Green 3/2).
- 11660 KOREA PDR RP; \*1900 GM nx by M&W; // 9360,6576 (Palmer 2/24); \*2200 Korean anthem, ID, news; good (Wood-HI 2/24).
- 11680 CLAND. LV de CID; 1315 SP comedy skit making fun of Castro (Fleming 3/7); R. Free Suriname relay <see 9940 above -ed.>; 2000-2100 SP, ID, LA mx, RFS ID at 2030; 11679.5, f; // 9939.9 (Alexander 3/3).
- 11685 SYRIA SARBS/R. Damascus; \*20005-2105\* EG to Europe, nx, pop mx (Pate 2/18); 2005-2104 EG nx, cmnt about Lebanon, several ID's (Vadino 2/23) 2005-2100 EG, ID at 2007 by M "You're tuned to R. Damascus" then pgm "Welcome To Syria" (Leite 2/16); 2005 EG nx headlines, ID (Alcorn 2/16); \*2007-2103\* EG Syria history pgm (Valko 2/11). 73, *Dave*



# LOG REPORT

## section D

### 1700 and above

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

- 11705 SWEDEN RSI in EG 2300 to N.Am. (Zilmer 3/11) \*0200 in PT after ID, f (Wood 2/24)
- 11705 MONTSERRAT DW in GM \*0600-0630, IS, ID, into nx, lively mx, f/g (Jordan 2/6)
- 11710 CUBA RHC \*2150 IS, 2200 into Quecha, nx, g (Wood 2/24)
- 11710 JAPAN RJ in EG 0100\* to N.Am., nx, anthem, QRM RAE, g (Wood 3/6)
- 11710 ARGENTINA RAE in EG 0200, nx re Malvinas, relations with Spain (Dickson 2/23)
- 11715 VATICAN STATE VR in Slovenian \*0700, sermon, g (Wood 2/24)
- 11720 TAIWAN VOFC in CH \*0100, IS, ID, gave BED call letters still used, g (Wood 3/6)
- 11720 AUSTRALIA RA in EG 0815, "Talkback", band mx, ID, nx, g (Park 2/24)
- 11725 SOUTH KOREA RK in SP 1004, KR lang lesson, het QRM KFBS (Park 2/14)
- 11735 GUAM KTWK in KH 1103, EG religious-oriented lesson, p (Park 2/23)
- 11735 BULGARIA R. Sofia in EG 1925, into FR 1930, nx (Hankins 2/15)
- 11745nf BRAZIL Radiobras \*0055 IS, C100 into PT, nx, ID, pop mx (Wood 3/6, Jordan 2/19)  
also in EG 0200-0245, lively mx, talks, nx (Levison, Hankins, Dickson, Owens)
- 11755 ANTIGUA BBC relay in EG 1119-1125, rpt on EBC & food for Morocco, ID (Trotto 3/6)
- 11759.5 COOK ISLANDS RCI in EG 1939, sports mx, into mx requests 1940, f (Wood 3/3)
- 11770 MEXICO RMI in SP 1430, ID, mariachi & campesino mx, f/g (Palmer 2/26)
- 11800 AUSTRALIA RA in JP 1046, "DX Time", QRM VOI & RRI, //15125, f (Park 2/10)
- 11805 BRAZIL R. Globo in PT 0037, ID, soccer (Palmer 3/1) ads, mx, ID 0136 (Dickson)
- 11810 SEYCHELLES FEBA in SH/EG 0354+, interview, IS, ID's, relig pgm (Park 2/9)
- 11815 LIBYA R. Jamahiriyah in EG 2246-2348, ID, mailbag, US rock mx, nx (Polchlopek 2/1)
- 11815nf INDONESIA RRI in IN 0730, mx, repl 11700, //11770, both good (Wood 2/24) also hrd  
in IN 1535-1600, lagu-lagu mx w/dedications, nx (Sharpe 2/19)
- 11820 TURKEY VOT in TK 0700, time sig (morse V), ID, nx, g (Wood 2/24)
- 11820 UNIDENTIFIED Mid-East? s/on 1600 daily w/anmts in reverb, into Holy Koran, hrd  
daily but unable to identify, test tone before s/on (Valko) Oman?
- 11820 ASCENSION IS. BBC relay in EG to 2159, BBC Calling the Falklands (Dewhitt 3/5)  
into PT after Big Ben IS, beamed to Brazil, f (Speer 2/24)
- 11825 TAHITI Papeete in TT 0305-0335, US pop & island mx, f/p (Dewhitt 3/5)
- 11835 URUGUAY R. El Espectador in SP 0055-0110, ads, mx, nx, ID (Wood 3/6, Cobb 2/17)
- 11845 SWEDEN RSI in SW \*1900 after multi-lingual ID, nx, beamed to Afr, f (Wood 2/24)
- 11850 CUBA RHC in FR 1855-1930, tlks, ID, fcys, upbeat mx, cntry, vg (Jordan 2/24)
- 11850 GUAM KTWK in Cantonese \*2200, IS, ID, relig pgm, g (Wood 2/24)
- 11860 CHINA R. Beijing in EG 0015-0125, feature, sports mx (Hankins 2/12, Feeley 2/18)
- 11860 USSR RM in EG 1708-1810, chess tourn nx, polit tks (Hankins 2/16, Gillis 2/24)
- 11880 AUSTRALIA ABC Lyndhurst \*1940 different Matilda IS, in EG 2000 s/on (Wood 3/3)
- 11880 SPAIN REE in SP 1935-2000, ID, carnival mx (Dillon 2/18) SP nx 0300 (Dewhitt)
- 11890 SPAIN REE in SP dialects 2025-2100, bull fight mx, ID, //9570 (Jordan 2/23)
- 11900 ECUADOR HCJB in Quecha 2200-2245, ID, choral mx, guitars, //9745 (Dillon 2/16)
- 11905 BRAZIL R. Universo in PT 0210, tlk & ID, fading by 0220, f (Summers 1/29)
- 11910 HUNGARY R. Budapest in TK 1830-1842, IS, TK mx, //9835, both g (Palmer 2/24)
- 11940 CANADA RCI in EG 0110, features, nx (Jordan 3/5) in SP 0240, nx (Dewhitt 2/12)
- 11940 ROMANIA R. Bucharest in EG 1500, s/on Asian service (Green 2/28)
- 11955nf BRAZIL Radiobras in GM 1900, tlk on Mato Grosso to Europe, g (Wood 2/24)
- 11955 ANGOLA RNA in PT 1940, Afr choral mx, g (Wood 3/3)
- 11970 TAIWAN VOFC in EG 0219, pgm re Hong Kong return to China, //12050 (Hankins 2/26)
- 11990 CZECHOSLOVAKIA R. Prague in EG 1130-1150, folk mx, ID, nx, g (Cobb 2/7)
- 12015 USSR R. Moscow in EG 1705, Afr service, p, //12045 (Hill 2/24)
- 12035 SWITZERLAND RSI in GM 1922, nx, ID 1928, Swiss mx, ID in FR 1930 (Hankins 2/16)
- 12050 EGYPT R. Cairo in AR 1930-2005, feature, ID, bells 2000, f (Dillon 2/16)
- 12050 TAIWAN VOFC in EG 0308, YL anncr hard to understand, CH background mx (Hankins)
- 13797 ICELAND ISBS Reykjavik in Icelandic 1240-1345\*, nx, ID, tlks, sig weak in Pa.  
and fair in Fla. (Jordan 2/25, Trotto 3/3)
- 14500 SWITZERLAND UN Radio (via 4UZ in USB) 1830-1841\*, 6 note chime IS played many  
times w/ID's in FR by M mentioning 4UZ, Italy, GMT, and R. Moscow (Valko 2/5)
- 15007 VIETNAM R. Hanoi in VT 0105, nx, ID, active again, g (Wood 3/6)
- 15050 CLANDESTINE Voice of Unity in AR 2300, OM w/long tlk, location? (O'Brien 2/18)
- 15060 SAUDI ARABIA BSKSA in AR 1535, tlk, chanting, g (Summers 2/26)
- 15107 EQUATORIAL GUINEA R. Bata in EG 2013-2029, US-based relig pgms, severe QRM Deut.  
Welle (Rigas 2/18, Gray 3/3) also in EG/SP 2044-2123, SP ID 2045 (Polchlopek 2/1)
- 15115 USA UN Radio via Greenville in PT \*0000-0015\*, ID in EG, polit cntry (Jordan)
- 15140 CHILE R. Nacional in SP 1746, Beatles mx (Park 2/26) futbol in SP 0105 (Wood)

- 15150nf NEW ZEALAND RNZ in EG 2000, nx, repl 15485 after ITU QRM complaint, g (Wood 3/3)
- 15170 TAHITI Papeete in FR 0135-0205, fine pop mx (Dickson 2/17, Forsgren 2/19) also in TT 0303-0330, //11825, polynesian mx w/o interruption (Sharpe 3/6)
- 15180 UNIDENTIFIED 2200-2215 w/Catholic mass in Latin; R. Catolica? (Owens)
- 15180 CHINA R. Beijing in SP 0001, CH mx (Hankins 2/12)
- 15190 VATICAN STATE VR in SP 1330, s/on Lat Amer service (Green 2/27)
- 15200 CHINA R. Beijing in SP 0105, nx w/item from Lhasa, g (Wood 3/6)
- 15230 CUBA RHC in AR 1715-1733\*, lengthy tlk, ID, IS then NA to s/off (Jordan 2/6)
- 15240 AUSTRALIA RA in EG 0038-0050, interview of playwright L. Murrwo, (Enkenhus 2/28)
- 15250 PORTUGAL RP in PT 2001-2015, nx, ad for "loteria nacional", mx, (Palmer 2/26)
- 15260 ASCENSION IS. BBC relay in EG 2005, feature on N. Mandella, "24 Hours" (Gray 3/3)
- 15260 CANADA RCI in EG 1806, discussing pgm changes due to budget cuts, p (Park 2/10)
- 15260 JAPAN FEN(AFRTS) in EG 0235, "American Country Countdown", p (Park 2/16)
- 15300 CUBA RHC in EG 2100, nx slanted against the USA, pro-communist (Hankins 2/11)
- 15305 NORWAY RNI in EG 1400, "Norway Today", a move from 15310, f (Zilmer 3/10)
- 15310 NORWAY RNI in EG 1310-1330, travelog, ID, into NO at 1330 (Cobb 2/10) also hrd in NO \*1357 w/ID in EG 1415 (Enkenhus 3/2) see above logging on 3/10.
- 15320 UNITED ARAB EMIRATES R. Dubai in AR 1455, orch mx, pips 1500, nx (Dillon 3/2)
- 15350 JAPAN RJ \*2225 IS, into IN 2230, ID in IN "R. Jepang", g (Wood 3/3)
- 15350 LUXEMBOURG RTL in FR 1830, Euro/US top 40 mx, tlk, f (Paskiewicz 2/23)
- 15390 EAST GERMANY RBI in PT 1920, tlk on culture of Dresden to Afr, g (Wood 2/24)
- 15395 AUSTRALIA RA in EG 2100, IS then world nx, heavy QRM VOA, p (Gray 3/3) also hrd 0115-0220 in EG w/features, cntry, polit tlks (DeWhitt 2/12, Dickson 2/17)
- 15420 USA WRNO New Orleans in EG 1832, "FM 100 Hall of Fame" oldies, ads (Park 2/6)
- 15425 SRI LANKA SLBC in EG 1520, US mx, ID 1530, into relig pgm, f (Summers 2/21)
- 15400 ASCENSION IS. BBC relay in EG 1941, stock rpt, feature on cooking, g (Gray 3/3)
- 15450 LIBYA R. Jamahariya in EG 1902-1930, Koran reading, interview, g (Hill 2/1)
- 15560 NETHERLANDS RN in EG 2045, African svc, "Newline" (Hankins 2/11)
- 15570 MADAGASCAR R. Nederland relay in DT 1820, nx, s/off anmt 1826 (Speer 2/27)
- 15575 SOUTH KOREA RK in EG 2215, nx, class & KR mx (Paskiewicz 2/24) also in EG 0222, "Bridge of Friendship" feature (Sharpe 2/17) in SP 0105, nx, tlks (Dickson 2/17)
- 15600 LIBERIA VOA relay Monrovia in EG 2140, tlk on budget deficits, f (Gray 3/3)
- 15600 ECUADOR HCJB in GM 2300-2315, ID in EG, f, QRM fr VOA (Trotto 2/15)
- 17590nf CHINA R. Beijing in EG 0110, distorted mod, //17721.5, 17855, 11860, g (Wood 3/6)
- 17690 BELGIUM RTBF in FR 1602, nx, mx (Levison 2/22)
- 17705 NEW ZEALAND RNZ in EG 0506, nx, //15485, f (Feeley 2/28)
- 17715 ANTIGUA DW relay in GM 1320-1357\*, nx, IS, ID, GM mx, speech clips (Jordan 2/6)
- 17755 SURINAM RSI via Radiobras in DT 1755-1817\*, speech, tlk, ID, local mx, nx, g (Jordan 3/4) also in DT 1755, ID 1758, tlk on industry in Surinam (Speer 3/4)
- 17755 JAPAN RJ in EG 0100-0130, world nx, current affairs feature (Sharpe 2/19)
- 17765 SWITZERLAND SRI in EG/GM 1345, sked in EG, into GM 1345 (Alcorn 2/10)
- 17790 ECUADOR HCJB in EG 2130-2145, "DX Party Line", exc (Owens 2/11)
- 17795 FRANCE RFI in EG 1600-1615, ID's in EG & FR, accordion mx, nx (Jordan 2/11)
- 17795 ITALY RAI in IT 1530-1600\*, excited sports nx, tlks, ID 1600, blotted out at 1600 when RFI s/on, g sig prior to 1600 (Jordan 2/11)
- 17800 RWANDA DW relay in FR 1325-1400, Hi-life mx, nx 1330, ID, f (Dillon 3/2)
- 17810 ANTIGUA DW relay in GM 2025-2100, instrumental mx, g (Bonnet 2/8)
- 17815 BRAZIL R. Cultura in PT 2238-2303, political speech, ID, vocal mx (Enkenhus 2/27)
- 17940 CLANDESTINE V. of the Sudanese Popular Revolution in AR/EG 1530-1615, EG ID 1600, anti-Sudanese tlk, trumpet fanfare, machine-gun fire, local mx, AR tlks, bugle call (Alexander 3/3, Dillon 3/2, D'Angelo 3/3)
- 21515 PHILIPPINES FEBC Manila in EG 0115, relig mx, f (Wood 3/6)
- 21600 WEST GERMANY DW in EG 1305, M reading Afr listener's letters, off 1315 (Prath)
- 21640 JAPAN RJ \*0110 IS, EG/JP ID 0115, JP nx, new time, ex-0100, g (Wood 3/6)
- 21685 FRANCE RFI in FR 1530, excited sports coverage, mx, tlks, ID, p (Jordan 2/11)

\*\*\*\*\*  
 Correction: Steven Lare points out that the listing of 11965 WEST GERMANY at 1500 in the March FRENEX, pg. 54 should be changed to RWANDA. ED: Sorry, I was rushed to meet the press deadline and didn't have time to cross-check this.  
 \*\*\*\*\*

There continues to be a drop-off in loggings for Log D due to the shift to the lower frequencies. 201 reports this month compared to 271 in March and 293 in February. As in the past, reports included in the previous month's issue are not listed in this month's issue. Best regards and good DX'in to all members and many thanks to those who submitted loggings  
 \*\*\*\*\*

# LOG FRENDX REPORTERS

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Sam ALCORN, Maplewood, NJ, DX200, ICF6500W; Brian ALEXANDER, Mechanicsburg, PA; Charles BOLLAND, Lake Worth, FL, R71A, R70; Arthur BONNET, W. Lafayette, IN, DX400; Ken COBB, Portland, ME, R70 RF4900; Richard D'ANGELO, Wyomissing, PA, R70; Ronald DAVID, Jamaica, NY, DX160; Carl DEWHITT, Ponca City, OK, DX200, DX400; Richard DICKSON, Goshen, OH, DX302; Peter DILLON, Washington, DC, Columbia, MD, DX400; Kurt ENKENHAUS, Silver Spring, MD, NRD515; Jim FEELEY, Norcross, GA, R2000; Ulises FLEMING, Odenton, MD, 2021; Ray FORSGREN, Chippewa Falls, WI, FRG7700; Neil GILLIS, Reading, MA, R70; J. Speed GRAY, Grand Rapids, MI, NRD515, R71A; Jerry GREEN, Maryville, TN, FRG7700; Arthur HANKINS, Greensburg, PA, R1000; Mike HARDESTER, Modesto, CA, R1000; Michael HAWK, Hampton, VA, ICF6800W; Pedro HAZEL, New York, NY, ICF2001; Ken HILL, Somerville, MA, DX1000; William HOHNSTEIN, Waverly, NE, CR2021; Hans JOHNSON, Kingwood, TX, R71A; Brian JONES, Houston, TX, R70; Rufus JORDAN, Pittsburgh, PA, DX302; Lavoyd KUNEY, Detroit, MI; Terry KRUEGER, Largo, FL, R70, ICF2001; Steve LEITE, Fall River, MA, R71A; Harold LEVINSON, Philadelphia, PA, R70; Robert MCCOY, Lincoln, NE, RF2200; Travis MCLEMORE, Clearwater, FL, FRG7; Don MOORE, Quito, Ecuador, ICF7600D; Andrew O'BRIEN, Chantilly, VA, R2000; Sally OWENS, Amboy, WA, RF2200; Robert PALMER, Spokane, WA, R71A; Dale PARK, Honolulu, HI, ICF6700W; Sheryl PASZ-KIEWICZ, Manitowoc, WI, NRD515, J. Gary PATE, Baltimore, MD, R70, R1000; Joe POLCHLOPEK, Virginia Beach, VA, ICF6800A; John PRATH, Fort Lauderdale, FL, R71, FRG7000; Christos RIGAS, Chicago, IL, R2000; Mitch SAMS, Wichita, KS, FRG7; Bryane SHARPE, Castro Valley, CA, DX302; Dr. Richard SPEER, Baldwin Park, CA; Steve SUMMERS, Mechanicsburg, PA; John R. TOW, Pinson, AL, R70; Ron TROTTO, St. Cloud, FL, CR2021; George VADINO, Bellevue, WA, R71A; Dave VALKO, Dunlo, PA, R388, FRG7; Marjorie WITTE, Torrance, CA; James YOUNG, Wrightwood, CA, HQ180A.....

#### \*\*\*\*\*KAP'S KOMMENTS\*\*\*\*\*

The Ides of March are upon us, and thus more of less ends the traditional DXing Season. Don't let the increasing noise levels on the lower bands get to you, it's now coming upon Prime Time DX from the Southern Hemisphere. There's as much great DX to catch out there in Mid-July than there is on the coldest (here in New England) day of Winter.

Basically, the Distributing Editor's job is to snip and sort, forward you loggings to the various column Editors, and type the Contributor's Page. It is, and always has been, the individual Editor's prerogative to print what he feels will be of most interest to the readership as a whole. So, if your logging doesn't get in, please understand that it would be impossible for each and every logging to appear.

#### \*\*\*\*\*AWARDS NEWS\*\*\*\*\*

I've been advised that the new Awards, mentioned several months ago, should be in my hands shortly. As soon as that happens, the "Official" Announcement will be made.

Also, due to popular demand, we will now issue "Endorsement" Stickers for 160-170-18-190-210-220-etc countries. SASE and list takes care of it.

Out of room, Best,

*JK* 3/19/85

**HAP BID ITEMS:** ITEM #617:KEZK match book, brown, white. #618:6WF (Aust.) blue, orange cloth arm patch (2x3"). #619:KQDS black, yellow cloth arm patch (2x4") nice. #620:WIBA sticker (4x9") m/c. #621:CEDEX-II (Spain) sticker (2.5x4.5") B&W. #622:KANI sticker (3x11") blue, white. #623:KOGI sticker (4x12") red, B&W. #624:JOFF (Okinawa) sticker (1x4") m/c - rare. #625:KROY T-Shirt (S) m/c - very nice. #626:WLLZ sleeveless T-Shirt (S-M) gray, white. #627:KWBE T-Shirt (M) orange, black - nice. #628:Radio Pvoengvong flag pennant (4.5x8") red, white, blue - cloth - rare. #629:KLVVL pot holder (6x6") m/c - very useful. #630:CHNS red, white station pen. #631:CHFX blue, white station pen. #632:Radio Korea-1984 felt pennant (4x8.5") m/c. #633:REE (Spain) cloth pennant (4.5x8") m/c. #634:Radio Polonia QSL card, blue (4x6"). #635:Radio Polonia QSL card (4x6") m/c. #636:KNAP ref. sticker (3.5x4") blue, white. #637:KWRW ref. sticker (3.5x4") blue, white. #638:KFRN ref. sticker (3.5x4") blue, white. #639:KNEL ref. sticker (3.5x4") blue, white. #640:KTRM ref. sticker (3.5x4") blue, white. #641:KPRO ref. sticker (3.5x4") white, blue. #642:KCRS ref. sticker (3.5x4") blue, white. #643:VOA sticker (3" cir) white, red, blue. #644:Radio Espana de Barcelona cloth pennant (6x8") m/c - very nice. #645:Radio Vilnius cloth pennant (4x7.5") m/c - beautiful. #646:Union City Radio (Pirate) sample B&W letter QSL (8.5x11"). #647:KRYX ref. sticker (3x4.5") m/c. #648:CKBW red, white station pen. #649:CBC metal badge (1" cir) bronze. #650:RBI DX Club certificate (8.5x11") m/c. #651:KVLG/KMUZ sticker (4x14") yellow, black. #652:KLOK sticker (3x9") m/c. #653:Radio Hauraki (NZ) ref. sticker - odd shaped, m/c - beauty. #654:WFKB sticker (3x11") blue, white. #655:CCJCB decal (4" cir) m/c. #656:CHNS plastic ID card (2x3") m/c. #657:CHFX sticker (4x11") m/c - very nice. #658:Beacon Radio 303 (UK) odd shaped sticker. m/c. #659:KGEI "20th Anniversary" paper pennant (5.5x8") blue, yellow. #660:WJUP "Trivial Pursuit" T-Shirt (M), white, blue. #661:Radio Vatican First Day Cover w/ stamp (3.5x7") m/c. #662:KCGT pepper shaped decal, green, B&W. #663:KTON decal, odd shaped, m/c. #664:CKCK large "Top 500 Hits" poster, B&W. #665:Radio Tirol (Italy) sticker (4x4") red, B&W. #666:Radio Aire (Ireland) decal (5x5") m/c. #667:4EFF Radio Freedom (NZ) sticker (3x6") red, B&W. #668:Radio Oxford (UK) decal (4x8") m/c. #669:Radio Valera (Venezuela) decal (4x6") m/c - nice. #670:Voice of Turkey sticker (4" cir) m/c. #671:Radio Liberaire (France) sticker (3.5x5") B&W. #672:IQB sticker (4x7") m/c - very beautiful. #673:KDKA cloth hat, red, white. #674:RTE Radio 2 (Ireland) plastic litter bag (10x20") red, yellow. #675:Viking Radio newspaper w/ exotic photo - great. #676:Radio Cacique de Sorocaba (Brasil) station poster, m/c. #677:BBC Radio Manchester 1984 diary book w/ ads, photos, maps - nice. #678:CFWR C60 cassette "Collectors Edition" of hits - great. #679:RTE Radio 2 paper holder (9x12") m/c. #680:CKSM paper holder (8.5x11") m/c. #681:WJUP chopsticks pennant of sorts honoring The Vapors, red, gold. . . very unusual. #682:KKHI large 1985 flower poster, m/c. #683:KSFQ 1960s large poster, m/c. #684:WRCK T-Shirt (M) blue, white, yellow. #685:KKLU T-Shirt (M) sleeveless, red, yellow, purple. #686:CKY Radio Winnipeg sticker (5" cir) red, white, blue. #687:Radio Monte Carlo sticker (2.5x6") red, white. #688:Radio Clwgd (Wales) decal (5.5" cir) m/c. #689:Radio TV-Cultura (Brasil) decal (2.5x3.5") m/c. #690:Radio Korea QSL card (4x6") m/c. #691:WTOS plastic ID card (2x3") m/c. #692:SBQ QSL card (4x6") red, B&W. #693:RNZ QSL card (3.5x5.5") m/c - nice. #694:BBC Radio 1 match book, m/c. #695:NHK sticker (3x5") m/c. #696:Radio Italia sticker (3x5") m/c. #697:Radio 4 (Spain) sticker (3x5") m/c - rare. #698:CFSL sticker (4x13.5") red, blue. #699:WLLZ metal badge (1" cir) B&W. #700:RBI QSL card - City Scene (4x6") m/c. #701:RBI QSL card - Painting (4x6") m/c. #702:RBI QSL card - Childs Painting (4x6") m/c. #703:RBI QSL card - City (4x8") m/c. #704:LRA Radio Nacional QSL card (3.5x6") blue, B&W. #705:Northsound Radio (UK) 2 different DJ photos (4x6") B&W - nice. #706:Top Italia Radio sticker (4x4") blue, white. #707:Red Rose Radio (UK) decal (5x5") m/c. #708:WZZO metal license plate (6x12") - nice. #709:Radio Polonia ref. sticker (2.5" cir) m/c. #710:Radio Polonia ref. sticker (2.5x2.5") m/c. #711:KBKX sticker (3x11") brown, tan. #712:Radio Nederland QSL photo (4x6") B&W - nice. #713:RBI-1984 very large cloth wall calendar, m/c. #714:Radio Budapest cloth pennant (4x6") m/c. #715:AWR Radio (Portugal) cloth pennant (4x7.5") blue, gray. #716:Radio Habana Cuba plastic covered cloth pennant (4.5x7") purple, red. . . The following are DX Club bulletins #717:RIB 1984 complete. #718:ASWL 1979 complete. #719:FRENEX 1977 complete. #720:FRENEX 1978 complete. #721:VHF-UHF Digest 1971 complete. #722:VHF-UHF Digest 1976 complete. #723:NNRC 1972 complete. #724:NNRC 1976 complete. #725:NNRC 1977 complete. #726:NNRC 1974 complete. #727:NNRC 1975 complete. #728:NNRC 1973 complete. #729:NNRC 1978 complete. #730:SPEDX 1979 complete. #731:SPEDX 1980 complete. #732:RCMA 1981 complete. #733:DSWGI 1977 complete.

**ADDRESS:** Send your bids and orders for direct sale items to: Sam Barto, 47 Prospect Place, Bristol, CT, USA 06010.

**DIRECT SALE ITEMS:** The following stickers/decals are \$.25 each or any five (\$) for \$1.00. CFNB, BBC Radio 1, WONE, CKBW, CFCH (yellow) (blue), CHQO, KITS (large) (small), 96-FM, KEY-103, KFRC, KSJO, KQUE, KILT, KXYL, CKCK (large) (small), WWWW, KIKK, DJ-TV, Radio More Music, Radio Bucharest, BBSI Radio, WXLX, KRQR, WMYX, CFNB (small), KDHN, KHAR, MTV, Capital Milano, KIKR, CKY, WCAU, KKYS, KLOS (Party), RTE, WJUP (large) (cir), BBC Radio 2, BBC Radio Highlands, NNRC, CKKR, KKYN, KELP, KNIN (large) (small), KRBE, WARD, KIKY, BC-W.S. Radio Budapest (red) (blue) (small), IZB, KTAM, Radio Kuwait, WCAU (large) (small), KETX, RTE Radio 2 (cir) (triangular), CHAB, KHUN, CKND, KQTI, CJME, CKOM (large) (small), RMI, Telecom-83, RNE, Polskie Radio (large) (small), City-TV, RBT (blue) (white), 4XD, Radio Carom-line, ZGH, Radio El Mundo, KAIM, RFI, Radio 270, WQFM, WNVV, KDKD, Telecom-Geneve, DG-101, line, ZGH, Radio El Mundo, KAIM, RFI, Radio 270, WQFM, WNVV, KDKD, Telecom-Geneve, DG-101, KBOI, KPNW, WMR, Radio Forti, CFRA, WDR (rock) (TV), KROY, Radio Shetlands and WEMP.

**ADDITIONAL DIRECT SALE ITEMS:** ANARCON-84 large poster \$1.00; BBC World Service poster \$1.25; RBI litter bag \$.25; WNW or KIVI litter bag at \$.25 each; KBOI paper hat at \$.25; WMMR book covers at \$.25; CBE plastic litter bag \$.50;

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