

INTRODUCING INTERNATIONAL RADIO
Kenneth D. MacHarg
GLOBAL VILLAGE PRESS
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PRESS RELEASE

At last, a simplified, painless introduction to international shortwave radio! Here is international radio explained in language anyone can understand, with all terms defined. No complicated frequency mathematics, no antenna drawings, no coded words or unexplained abbreviations. Just a simple, straight forward introduction to the fascinating world of international shortwave broadcasting!

INTRODUCING INTERNATIONAL RADIO is veteran shortwave listener and broadcaster Ken MacHarg's latest contribution to the shortwave hobby. This twenty-eight page book is crammed full of information for the person who wants to know how to listen to London, Moscow, Johannesburg, Tokyo or Quito. Sections include "Selecting the Proper Radio", "Tuning in the World", "Coming To Terms With Shortwave" and many more topics. Also included is an extensive listing of what to hear on the shortwave bands and the frequencies to tune.

INTRODUCING INTERNATIONAL RADIO by Ken MacHarg is available now from local bookstores, hobby distributors, or by sending \$ 3.95 in U.S. funds only plus \$ 1.00 postage and handling to the publisher, Global Village Press, Box 1345, Jeffersonville, Indiana 47131 USA.

Author Ken MacHarg has been listening to shortwave broadcasts for over 25 years. He is the author of Tune In The World, The Listener's Guide to International Shortwave Radio published in 1983. MacHarg said he decided to write this new introductory book after he received a call from a lady in her 70's who wanted to know what kind of radio to buy, and how to hear the BBC World Service from London. "I realized that newcomers ask the same questions, and there is no book available which really answers their basic needs. So, I decided to write INTRODUCING INTERNATIONAL RADIO to answer those questions", he said.

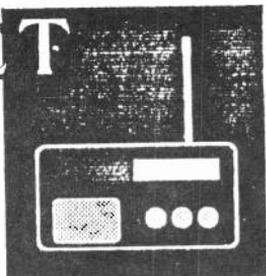
Ken MacHarg is also host of the popular English language program "Saludos Amlgos" heard weekly on HCJB from Ecuador.



CONTACT

Editor:

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



December 1987

Welcome to this, the last CONTACT of 1987. Lest I should forget, in the rush of assembling the column, let me take this opportunity to wish all of you — and those for whom you care — the very best wishes of this wonderful season.

We begin with a very interesting and informative letter from *Peter Barta* (Toronto, Canada). He is the first to comment on James Michener's comment in the *New York Times* about Radio Free Europe/Radio Liberty. In addition there is much to be learned:

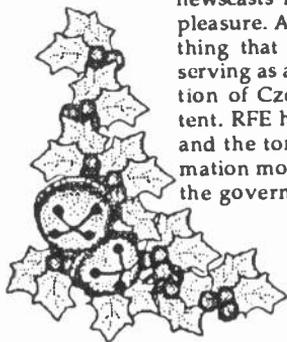
First — see ** footnote, page 3 [FRIENDX, September 1987] — I believe that "radios" rather than "transmitters" is the correct word. to describe RFE/RL. "Transmitter" denotes mere hardware; "radio," in this context, includes staff and programming. "Station" may be an alternative word. RFE announcers refer to their employer as "our radio;" criminal charges against listeners — still being laid in some countries — specify "listening to foreign radios." [Undoubtedly you are right; what threw me off was that the word 'radios' in reference to RFE/RL was not capitalized. — SGM]

Re *** footnote: The phrase "outworn relics of the cold war" is attributed to Senator W. Fulbright in Sig Mickelson's *America's Other Voice* (Praeger, 1983), an excellent reference on this subject.

I have been monitoring the Hungarian service for the past ten or so years — both here in Toronto (9695 and 11895kHz, late afternoon) and while travelling in Europe, which I do almost every year. Based on my own listening and observation of RFE's impact on life in Hungary, I can support the Michener editorial without reservation. I couldn't have said it better myself, especially in such a limited space (I am working on a report on the Hungarian service; it keeps growing longer).

In the early fifties, the tone of RFE had often been strident — but then, those were years of fear and loathing and central Europeans were desperate for relief from, and an antidote to the daily barrage of Communist propaganda.

After the crisis of 1972 (Mickelson, Chapter 14), the new RFE was born. Calm, intelligent political analysis and well-edited, objective newscasts in my native tongue have since been giving me great pleasure. At no time did I hear incitement to specific action or anything that I knew from other sources to be false. Rather, RFE is serving as a school of democracy in a region where, with the exception of Czechoslovakia, democratic tradition is scanty or nonexistent. RFE has probably been instrumental in improving the quality and the tone of Hungarian broadcasting and in breaking the information monopoly of "the Party." (In the early fifties, state radio and the government press were treating the public as retarded juveni-





les.) Particularly useful are the international press reviews (a copy of *TIME*, if you can get one, sells for about half a day's wages); the program "Forbidden Books" and a series on Hungarian history, the unedited version. Very importantly, RFE broadcasts are a lifeline to the large Hungarian minority in Rumania which is reported to be a victim of ongoing cultural genocide. A recent innovation at RFE is a 24-hour telephone message recording service through which continuous feedback is obtained from the listeners. One of my favourite programs is the 20-minute Listener's Forum, where the recorded messages are read and answered. From this, one can conclude that RFE has become a central fact of life to its millions of listeners. The only topic on which there has been much negative feedback recently is the refusal of the RFE staff to give advice on emigration. Such advice, they argue, might be interpreted as encouraging emigration. (RFE did deliver several programs on life in refugee camps and West European refugee policy.)

RFE is a major success story in the world of SW. In East/Central Europe, SW has been a survival tool since the thirties. Unlike many recipients of U. S. aid and protection, RFE's massive audience is largely pro-American. The annual cost of running RFE/RL is estimated to be about the price of six combat helicopters. In my opinion, the American taxpayer is getting his/her money's worth. It would be interesting to hear from those who understand the other languages of RFE/RL.

Footnote 1: Last summer's travelling had taken me to the Normandy coast and to Southern Spain. Soviet jamming was coming in at such strength that listening to RFE was difficult at all frequencies. So much for glasnost'. Ironically, a few weeks earlier, I'd had no problem listening inside Hungary.

Footnote 2: I don't believe that most listeners of RFE give a lot of thought to the fact that the broadcasts are on SW. Many have a radio permanently tuned to RFE.

Indeed it would be fascinating to hear from other RFE/RL watchers, and an open invitation is hereby extended to all those SWLers who have some insights into this important aspect of American foreign policy.

Next, a plea for help and information from *Ronald B. Karlsson* (5651 Persimmon Ave, Temple City, California 91780). My thanks to *Chuck Rippel* (DXers Forum) for forwarding this letter to me so that we can explore it here in CONTACT:

I am in need of some help from any of our fellow SW listeners. My problem is with Radio Finland's letter response. I understand that Radio Finland is undergoing some changes, but they should still answer their letters. I have sent QSL report letters to them. One in June, July, and August. Also one complaint letter in late August.

But how can you complain when they don't answer their mail? I would like to see if other listeners are having the same problem with Finland. It would be greatly appreciated if another listener could help me to solve this mystery of Finland's letter answering.

If you could print this in FRENDX with my name and address for answers, I will appreciate it very much.

A very pertinent point is raised here: what do we do when broadcasters will not respond to us? In sorting through this question, several things should be remembered in dealing with SW broadcasters. Almost invariably, they are under staffed. Be very careful not to criticize: they are doing the best they can, often under difficult conditions. Patience is the best way to get a reply: keep sending in your reports and letters — someone is reading them, and, eventually, you *will* get a reply. Has anyone else some advice on this frequently difficult and exasperating situation? A very good source of ideas for getting hard-to-get QSLs is *Gerry Dexter's Secrets of Successful QSLing*. This invaluable book is available from most SWL dealers.

Contact Bookcase

Some interesting reading materials have reached CONTACT. Before we get to them, however, it would be as well to reiterate the list of the most useful reference works for the SWLer/DXer. There are three (Not including *FRENDX*, of course, which should always be within easy reach):

1) *The World Radio TV Handbook* — this is the oldest and most prestigious of all publications devoted to radio broadcasting. It is a gold mine of information and it should be on your bookshelf. Don't be put off by the seemingly high price — it will earn its keep. It is available just about everywhere including SWL radio emporia and bookstores.

2) *The International Listening Guide*, an absolutely essential quarterly publication that keeps you up to date with all of the seasonal changes that broadcasters make in their schedules: well worth the \$15 that it costs. Especially valuable is the daily/hourly listing of DX programs on SW: you could spend the whole day just listening to programs for the SWLer. It is available from: Bernd Friedewald, P.O. 11 12, D-3588 Homberg, West Germany. It is an extremely good buy at \$US15 (for airmail delivery to the US), 30 West German Marks or 27 International Reply Coupons (for airmail delivery worldwide).

3) *Radio Database International* has become in a very short time an indispensable source of large quantities of carefully arranged information. This annual publication is full of useful broadcast information and it is presented in a clear and uncluttered format. In addition, there is a wealth of information about almost every available SW receiver. Again, this can be obtained from just about all SW retailers.

New to me is Kenneth D. MacHarg's *Introducing International Radio*. This 36 page pamphlet would make an excellent and non-threatening introduction to SWLing. Included are some sound words to the wise about what to look for in a radio; indications of the range of broadcast material on SW; thumbnail sketches of the principal SW broadcasters; a general frequency guide to broadcasters (by time); a discussion of antennas; a glossary; and a bibliography. It costs \$US3.95 and is available from: Global Village Press, Box 1345, Jeffersonville, Indiana, 47131, USA.

Also received for review is a copy of *The Ace*. This is a monthly journal devoted to the activities of any non-standard broadcast activity: pirates, clandestine, numbers, etc. It is a well put together piece of work, and if you are interested in this aspect of broadcasting, then you will want to subscribe. Subscriptions and information can be obtained from: The Association of Clandestine Radio Enthusiasts, P.O. Box 1744, Wilmington, Delaware 19899. An annual subscription is \$12 (1st class, U.S. and possessions, and Canada) and \$US18 world air mail. A sample issue is \$1.50.

Contact Notes



This month's column was put together on MacPublisherIII (from Boston Publishing Systems, Inc.) with some help from Cricket Draw1.1 and SuperPaint. Fonts are Palatino and ITC Benguiat.

If you have written for copies of the SWL forms and The Calculating SWL and haven't heard anything, don't panic. I have experienced some delays in reproduction and revision. you will be receiving your materials as soon as possible.

Once again, the best wishes of the season to everyone. Your contributions are always invited and appreciated. Many best 73s —



Easy Listening

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

SUNDAY

- 0115-0120 **"Tourist Guidebook"** (Radio Prague). As the title implies, this program features places in Czechoslovakia that might be of interest to tourists. Usually, this involves the focus on a town, such as Brno or a Moravian village, outlining the history, geography and architectural sights. One particular program featured a place in Czechoslovakia where there is only a village nearby - the battlefield of Austerlitz. Frequencies are: 5.930 // 7.345 and the program was repeated at 0315 GMT.
- 0330-0400 **"Anything Goes"** (BBC). This may be one of the most delightful musical programs on shortwave. The premise of the show is that Bob Holness, the program's host, will play any request. That includes music, comedy, spoken, poetry or any other type of material that can be found in the extensive BBC archives. Past requests have included "Fern Hill," a poem by Dylan Thomas, selections from T.V.'s old Goon Shows as well as many modern, standard and pop selections. One excerpt from the BBC sports radio broadcast of Finland's winning goal over the Russians in ice hockey was even played. Selections, may of course, be dedicated to anyone and frequently are. If you have a special date for a request, Mr. Holness asks that you send it in at least two months in advance. Frequencies are: 5.975 // 6.175. The program is also broadcast earlier on Saturday. Look for it at 2330 on the same frequencies.

MONDAY

- 0245-0300 **"Cultural Life in Egypt"** (Radio Cairo). This program contains a series of brief features on cultural events taking place or soon to take place in Egypt. There are usually four to six items featured per program. Past programs have spotlighted the success of Egyptian films at the Moscow Film Festival, dramatic productions by Egyptian playwrights and a performance of Aida of which there will actually be two of this year. Also were items on archaeological and Egyptian exhibitions and findings. Frequencies are: 9.475 // 9.675.
- 0315-0330 **"Folk Spot"** (Radio Polonia). This program contains a series of brief features on cultural events which are occurring or will be taking place in the near future and features all aspects of Polish folk music. Past programs have included a letter from a Polish-American listener requesting the folk music of her ancestors' region, a feature on a Polish folk music festival and a feature on Polish radio music bands of the 1930's. Frequencies are: 7.145 // 7.270 // 9.525 // 11.815 // 15.120. The program is also broadcast earlier at 0215 on the same frequencies.

TUESDAY

- 1930-2000 **"The Sound of Soul"** (Voice of America). This program, hosted by Georges Collinet who has a unique style all of his own, is designed primarily for listeners in Africa but is easily heard in the United States. On the program, Collinet reads letters from listeners in Africa, comments in his own inimitable way and plays some good, solid Rhythm and Blues. Also aired are some specifically requested Hi-Life and Ju-Ju music. On Fridays, the "Sound-of Soul Magazine" is featured in which particular performers are interviewed. Frequencies are: 15.410 // 17.800 // 17.870 weekdays.
- 0255-0325 **"Images"** (Radio Nederland). This is Radio Nederlands' arts and culture magazine billed as "reflecting the arts today." The program was recently expanded from ten to thirty minutes. Most editions feature two stories about the arts such as a dramatic production in the Hague or a Renaissance and Early Music Festival. Some programs include only one extensive, in depth report, such as this summer's programs on a West German arts festival. Frequencies are: 6.020 // 6.165 // 9.590 // 9.985. It is repeated at 0555 for the West Coast on 6.175 // 9.715.

WEDNESDAY

- 2210-2220 "Question Time" (Radio Berlin International. Each week, RBI answers in some detail a listener question about life in the GDR. Past programs have featured questions about pop music in the GDR, the treatment of diabetes and other items of interest. Frequencies are: 6.125, later repeated at 2325 on 6.070 // 6.125 // 6.165. The program also airs at 0025 and 0110 on 6.080 // 9.730. For West Coast listeners, look for it at 0355 on 9.560 // 9.620.
- 0050-0105 "Vatican Week" (Vatican Radio). A review of the week's events in the Vatican always beginning with that Wednesday's general audience (many of the participants at which are interviewed). Other items include address of the Pope or special services or meetings during the past, general conduct of Church business, and synods of bishops and other matters important to Catholics (as well as others, of course.) (6.015 // 9.605 // 11.780. Repeated at 0310 on 6.150).

THURSDAY

- 1350-1355 "The Fourth Community" (BRT). In general, items of interest to or involving members of the English speaking community in Belgium. The program is presented by Blackie Blackwell and past editions have featured productions of the Shakespeare Society, other amateur productions by the English speaking community, and in general items which concern them. Frequency is 15.590. The broadcast is earlier on Wednesday at 0050 on 5.910 // 9.925.
- 0215-0220 "Friendship and Co-operation" (Radio Bucharest). This program features the various ways--economically, culturally, scientifically, etc.--that Romanian and other socialist countries are co-operating with each other. Frequencies are: 5.990 // 6.155 // 9.510 // 9.570.

FRIDAY

- 0130-0155 "Jazz Australia" (Radio Australia). The best in jazz performed or written by Australian jazz groups. Of course many of the pieces featured on the program are jazz standards not written in Australia but rendered by Australian groups, but many are original Australian numbers. The presenter is always careful to inform the listener of a bit of the history of the piece and the musicians who perform on a particular recording. Actually quite good. Frequencies are: 17.795 // 15.395 // 15.320.
- 0230-0300 "People and Politics" (BBC). A program devoted to the working of Parliament and the parties which constitute the British electoral milieu. It was a particularly interesting program during the recent British elections, and most of the past programs have been devoted to the election "post-mortem", detailing, for example, the flap of the proposed merger of the Liberals and Social Democrats. Another recent program featured the Labour Party Conference. This show is not aired when Parliament is not in session. Frequencies: 5.975 // 6.175 // 7.325.

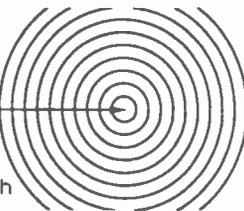
SATURDAY

- 0115-0135 "Mailbag" (Deutsche Welle). As the name implies, a listener contact program hosted by Larry Wayne and done with his natural personal charm. As well as reading letters from listeners and commenting briefly, Wayne also finds someone to answer a question or two in more detail. The program also includes some pop music interludes, usually two per edition. Frequencies: 6.040 // 6.085 // 6.145 // 9.545 // 9.565. Repeated again at 0315 on 6.010 // 6.045 // 9.545 // 9.700 and for the west coast at 0515 on 5.960 // 6.120 // 6.130 // 9.635 // 9.700.
- 0135-0155 "Spin the Disc" (Radio Prague). This show, which airs on the last Saturday of each month, features Czech pop artists who have produced English language albums for export. The program usually averages four or five songs per edition, but since the number of these albums is somewhat limited, many shows repeat a song or two or at least take songs from the same album from month to month. Actually that's not a bad way to get to listen to an English language album by a Czech pop artist to find out if you would like the album as a whole. Frequencies: 5.930 // 7.345. Repeated at 0335 on the same frequencies. This is aired on the last Saturday of the month.

DX'ers Forum

Conducted by:
Chuck Rippele
1272 Parkside Place
Virginia Beach, VA 23454

E-Mail: ODDX or ACE BBS
ID = Chuck Rippele
Deadline: 17th of the month



December, 1987

The season rolls on! Comments by Ye ed will be short due to the large amount of material this month.

Who's who dept: It was thankfully brought to my attention that I had made rather a blunder. In the November column, I seemed to have credited October's outstanding contribution by Bill Sparks to Bill Sharp. My apologies to Bill Sparks! Bill Sharp was a very dear friend of mine I knew through amateur radio who has recently passed away. When proof-reading the column, I simply passed over the boo-boo. Again, my apologies!

Before we get into the real meat of this month's column, my thanks to *DX'ers Forum* contributors Dr. Charles Wootton, Sheryl Paszkiewicz, Don Jensen and Andy O'Brien. A special thank you to Rowland Archer who has been printing *DX'ers Forum* on his laser printer so the column looks as good as the material you submit to it! Thank you to those of you who have donated your time to continue to maintain FRENDEX as the premier SWBC publication.

Through information passed on the Sunday morning 7.240 SWL net (see last month's *Contact* for details), I happened on a very useful service for DX'ers. The DX NEWSLINE is a 24 hour automated voice storage and retrieval system based in the Washington, D.C. area. The system, which allows DXers to exchange up-to-the-minute DX news, is now in its 5th year of operation.

The Newsline offers two levels of service. Anyone may call the Newsline and hear the "public" announcement and/or leave a contribution of DX news. The public announcement is updated daily and contains a summary of the latest DX log reports. This service is referred to as "level 1".

The second level provides a unique service to the DXer be they SWL, Ute, LW, MW, FM, or TV oriented. Use of a special access code provides access to the COMMAND MODE. Once inside the Command Mode, a subscriber can access up to 30 of the latest DX tips (including any placed on the system up to the minute you call). Skip or repeat functions are also provided.

Level 2 allows subscribers to hear DX tips within minutes of the original call and without having to wait for the daily update on level one. Callers can actually hear samples of what others have DXed since members often play examples of their loggings directly down the line to the DX Newsline. Unidentified transmissions can be left on the system for others to assist in identifying, band openings can be known in minutes, technical questions can receive speedy replies.

Newcomers to the hobby can enter into a dialogue with those more experienced, or ask questions about those strange "noises" lurking on the bands. News of frequency/schedule changes are often announced. For sale items may also be advertised.

The system is GREAT for catching pirate broadcasts, since these broadcasts are of short duration and with irregular schedules, speedy news of their xmission is essential. A timely call to the DX Newsline has resulted in several members logging their first pirate! Some pirate broadcasters have left advanced tips regarding their schedule (anonymously) on the Newsline.

As you can see, the system is quite versatile. THE ONLY EQUIPMENT NEEDED IS A TOUCH TONE TELEPHONE (or a way to generate the tones) NO COMPUTER IS NEEDED!

The DX NEWSLINE is a good supplement to club bulletins and radio DX programs. Since you are engaged in conversation with other DXers it enhances communication in a hobby where communication with like-minded folks is often hard to establish. Visually impaired DX'ers have found the DX Newsline to be of valuable assistance.

The DX NEWSLINE is now well established and has been featured on several radio DX programs including: Media Network, Sweden Calling DXers, SWL Digest, The DX Partyline, World Of Radio, and several others (please note that we are NOT implying that these programs have endorsed the DX NEWSLINE).

A small subscription fee of \$10.00 per year is charged for access to level 2 of the Newslines (level one is free). The DX NEWSLINE is not for profit, all money received goes to operating expenses. The subscription fee of \$10.00 has not changed since 1982!!!

If you would like to become a full subscriber, please forward \$10.00 made payable to: Andrew O'Brien at 13914 Broadway, Alden, NY 14004-9736, USA. (As a special to Canadian subscribers only, \$10.00 in Canadian funds is acceptable). You will receive access codes and instructions by return mail. In some instances, you may receive a direct telephone call with verbal instructions from a DX NEWSLINE member in your area.

If you choose not to become a DX NEWSLINE subscriber, remember you can still call (301)-953-0777 and hear what some of the most active DX'ers in North America are hearing. Feel free to leave a contribution of DX news at any time you choose to call.

A DX'ERS GUIDE TO THE SOVIET SOCIALIST REPUBLICS
A FRENCH EXCLUSIVE
PART II

By Dr. Charles Wootten and Sheryl Paszkiewicz

Republican First Program: In most cases this is a relay of the Moscow 1st program. There are also local programs in Russian and also the main language of the Republic. In the Baltic republics, separate Russian and local language programs are broadcast.

Republican Second Program: This is broadcast in the main language of the Republic and varies from just a few to 24 hours in length. These programs usually have a special name, which is the only station identification used.

Most districts (ASSR kray, oblast, okrug) have their own local programs and are broadcast only a few hours a day on a transmitter within or near the district. These programs consist of local news, weather, press reviews and locally produced features. Programs in local languages are included where applicable.

All Home Service information was taken verbatim from the 1987 Edition WRTH.

The extensive frequency and time coverage will not be included in this paper because of the depth of material that may be outdated or incorrect by publication. Readers are strongly referred to the updated WRTH and the hobby press' associated publications.

NOTES ON THE SOVIET PEOPLE: A DXERS GEOGRAPHICAL GUIDE. In this section we shall take a look at selected Republics.

The Armenian SSR. One of the earliest states on what is Soviet territory today arose far from Moscow, a thousand years or more before the city was founded and two or three thousand kilometers away from the Kremlin. These ancient states were formed by peoples who lived south of the Caucasus, near the Black Sea and in Central Asian oases. The Armenians have, for thousands of years preserved the basic features of the Anatolian, or Armenian race.

Yerevan, the capital, initially lay in a hollow, but now has grown onto the surrounding plateau. The Armenian capital is a city of pink hues with a multitude of tufa buildings. Tufa is a wonderful building material of volcanic origin although the volcanoes themselves have long since become extinct. Yerevan is one of the oldest cities in the Soviet Union. A Roman born in the year of the founding of the Eternal City could have witnessed the emergence of Yerevan, itself only 30 years younger than Rome. Yerevan is located at 40 10' N 44 20' E.

Armenia itself is old enough to have been known to the Babylonians who lived on the upper reaches of the Euphrates in biblical times. Armenians and their vast lands on a plateau in Asia Minor are mentioned in ancient Persian and Greek texts. Also, when the Egyptians were building the pyramids, the ancestors of today's Armenians were making swords and ploughshares from bronze. Writing was known to Armenians some 3,000 years ago.

Last year Yerevan Radio had a series of Armenian language programs numbering around sixty that were written by Petros Petiryan and Sona Krmoyan. This may turn into a yearly event! The External Service on Short Wave: 0330-0355 to NAM & 0355-0400 EG on 11860, 11790, 9765, 7205, 7165. 0600-0700 Sundays AM ME still unconfirmed. As with other external broadcasts from particular republics, don't assume that a broadcast is actually being transmitted from Yerevan. They tend to use transmitters scattered throughout the Soviet Union. One External Service frequency which Tom Ross of Lyons, Ill was able to verify was 9.865 at 0230. Regional (home service) frequencies to try are 4.810 and 4.990. These of course are not in English but should really be Yerevan. Verification is by QSL card. Write to: 5 Mravian Str., Yerevan 25.

The Georgian SSR. With a population of over five million Georgians it ranks seventh among the constituent republics and is tenth as far as its area is concerned. Half of Georgia is 1,000 or more meters above sea level, the lowlands constituting just over one-tenth of the area. The remainder

is a high-altitude region where you will find the village of Ushugli, Europe's highest community, 3,200 meters above sea level. The Greater and Lesser Caucasus mountain ranges are as typical of Georgia as its 300-kilometer coastal strip where health resorts and sea ports strike the imagination with the tropical exuberance of their vegetation. Most of the literature dealing with Georgia is oriented to having a marvelous time in eating and drinking and a general holiday atmosphere. Spontaneous outbursts of whole streets turning into song during major holidays is nothing unusual! Major holidays are Tbilisoba, which occurs in Tbilisi, the Humorina in Odessa, and the republic-wide Shotaoba, a day devoted to story-tellers. Rtveli is a day that starts the harvest season. Those who are familiar with the Golden Fleece and the Argonauts will be interested to note that Jason led his men to Colchis, which is today a national preserve in Georgia which has not changed since God made it!

The site to log is Tbilisi, hard to pronounce but not that hard to receive. The world service has been verified by several DX'ers on 15,500 around 1830. Georgia has also been noted in Russian, Georgian, Armenian, and Azerbaijani on 5040kHz between 0200-2100 UTC. Write to: Radio Tbilisi, 68 Lenin Str., Tbilisi 380015. Tbilisi is located 41 50' N 44 50' E.

The Azerbaijan SSR. The name of the third Transcaucasian republic, Azerbaijan, means the "land of flames". In ancient times people would come from thousands of kilometers just to see bluish tongues of fire dancing in the air. In recent times this has been found to be nothing more than natural gas seeping and burning as it escaped from the earth. One thing led to another and today, since 1870, the region around Baku is the leading oil producer in the USSR. Azerbaijan lies to the south of the main Caucasian Range. Armenia has only mountains, Georgia has mountains and part of the Black Sea coast, while Azerbaijan, though mountainous, has also an 800-kilometer long strip of coast on the Caspian.

The Azerbaijani nationality took shape between the 11th and 13th centuries and a single language, very similar to contemporary Azerbaijani, one belonging to the Turkic family of languages, gradually spread throughout the Azerbaijani lands.

The Caspian Sea, whose level is continually dropping, is a very unquiet sea. Its main port, Baku, is named such because it means "city of winds". Up to 280-300 days of stormy weather are recorded there annually. The site here is Baku. One external service is supposed to be on 15,260 from 0330 till 1400 but loggings are rare. The regional service is quite easy to log from *0200 on 4.785 and 4.958. The QTH for Baku: 40 25' N 49 45' E.

The Ukrainian SSR. The Ukrainian SSR is just a bit larger than France. Its language is so close to Russian, with the exception of several letters, that only those totally familiar with the Russian language can actually tell the difference. Russian, Ukrainian, and Byelorussian use the same alphabet with that slightly marked difference. Many words are spelled or pronounced similarly. Kiev entered its 1,500th year as one of the largest Soviet cities, indeed the third largest regarding population. Kiev was once known as the "Beauty of the East" and a "rival of Rome and Constantinople". Over 1,500 kilometers of the Ukrainian coast are washed by the Black Sea and large rivers cross the Ukrainian plains. The Dnieper, which is fed by its tributaries in Byelorussia and the Russian Federation, enters Ukrainian territory as a mighty full-fledged river. From the lower Danube one can travel by water to seven European countries.

There are several sites to receive in this republic. Some that have actually been verified are Simferopol on 5.920 at 0300 and 9.825 at 1930. Also, Starobelsk on 7.320 at 0220, Lvov on 9.765 at 1830, Ivano-Frankovsk on 7.115 at 0200 and Vinnitsa on 9.720 at 000 UTC. Kiev is located at 50 30' N 30 28' E.

The Moldavian SSR. Moldavia is the Ukraine's southern neighbor and borders on Romania. It was once known in old geography books as Bessarabia. The green stripe of the Moldavian flag, as well as the cluster of grapes, cobs of maize and other fruits of the earth portrayed on its state emblem spotlight typical features of this sunlit southern land. A Moldavian will tell you that the outline of the republic on the map resembles a cluster of grapes. Although Moldavia's capital, Kishinev (47 0' N 28 50' E), is more than 500 years old, the casual visitor would rarely find any antiquities that were not completely destroyed by the Nazis.

Radio Chisinau is a notorious non-verifier. It is not currently on shortwave. In the event you travel that way you can find them on medium wave 999, 1449, 1467, and 1494 kHz at various times. Drop them a warm smile at: Kotovskoye Shosse 64, 277028 Kishinev.

The Byelorussian SSR. To make *draniki*, grate raw potatoes, add a small quantity of flour, soda and then salt to taste. Pour the mixture into a frying pan in which vegetable oil is sizzling. In a few minutes a delicious dish is ready to eat hot. Don't forget the sour cream! The Byelorussians claim they have the greatest potato dishes in the world. Potatoes there are the most important foodstuff after grain. In this area is found the greatest concentration of people in the world well over 100 years old. Perhaps potatoes combined with proper climate make the right ingredients for a ripe, old age! Once known as the backwoods of the USSR, the capital city, Minsk (53 52' N 27 30' E) now has a population of 1.4 million and leads the whole federation in producing more than on-sixth of the needs of the USSR. This is in pleasant contrast to the edict of the Tsar who completely banished the name of the Republic from official records!

While munching on *draniki* tune to Radio Minsk! There are two sites to be concerned with here. Recently verified is Radio Minsk on 15.150 at 1400 and on 15.540 at 0309. Orsha showed up on 9.820 at 1440 recently also. You can try to obtain information from them at: U1, Krasnaya 4, Minsk 220807.

The Lithuanian SSR. This republic is situated in the northwestern part of the Soviet Union, stretching for 373 kilometers from east to west and 276 kilometers from north to south. It borders on the Latvian SSR to the north, on the Byelorussian SSR to the east and the south, and on the Kaliningrad Region of the RSFSR and the Polish People's Republic to the southwest. This land was always referred to as Litva in Russian chronicles and Litauen in German chronicles. The British gave it the name Lithuania, and, its inhabitants themselves call their land Lietuva. Prehistoric activities caused great deposits of peat and also mineral springs. Lithuania is basically a rest and cure area, especially in the cities of Palanga, Nida, Druskininkai, Birštonas, and Likėnai. The capital of Lithuania, Vilnius, is situated in the eastern part of the republic in a deep valley at the confluence of two rivers, the Neris and the Vilnia. The latter, whose name in Lithuanian means "wave," gave the city its name.

As with many of the Soviet radio services, Radio Vilnius broadcasts from transmitters throughout the USSR so don't assume you've actually heard Lithuania on this one. There is a domestic service from Kaunas on 6.100 but this one would be a tough one to log due to heavy use of the frequency by some of the large powerhouses and lots of QRM. You may write to: Lietuvos Radijas, Konarskio 49, Vilnius. Vilnius is located at coordinates: (54 38" N 25 25" E).

The Latvian SSR. "Sveicinati" is the most common Latvian greeting. The republic is often referred to as the land of amber. The Baltic Sea, whose Latvian coastline runs nearly 500 kilometers, often washes up onto the shore pieces of amber, which is the petrified resin of prehistoric trees and used for decorations. North to south the Latvian Republic stretches 210 kilometers while east to west is 450 kilometers. At present only 76.8% of the population speaks Latvian, but that is growing every year. The Latvians strive to keep their language pure. Newspapers, including the youth newspaper "Padomju Yaunatne", carry daily columns in which the linguists examine and explain common mistakes. Although the capital city, Riga (56 53" N 24 8" E), is noted for its ice cream, cheese curd and sour cream, its most outstanding food product is the dark rye bread. Riga is always building and growing. Legend has it that once every 100 years that a man dressed in a black tail-coat and carrying a cane is said to come out of the Daugava River at midnight asking if the city is ready. If anyone ever answers "Yes", the city would then be inundated with water at once. According to some of Roger Legge's material, the SWBC outlet from this republic is Riga and it's on the air on 21.615 between 0900 and 1600. Also look on 7.140 from 0400 till 1100. Riga's domestic service is on 5.935 which it shares with Radiostantsiya Atlantika. The simplest address is: Latvijas Radio, Box 266, Riga, Latvia.

The Uzbek SSR. Central Asia is a land of ancient civilizations. In the Samarkand region, archaeologists have discovered an area where primitive man lived before the dawn of recorded history. Traces of primitive man have also been discovered near Tashkent, in Khorezm and in Kara-Kalag region. Central Asia was conquered in the 6th century B.C. by Cyrus, founder of the Persian Empire. Alexander the Great wiped his work out in 330 B.C. Nomadic tribes and Arabs fought over the region for several more centuries. In the 14th century Tamerlane rose to power picking up the destruction left by Genghis Khan. After his death, the region degenerated into slave markets and similar small khanates and emirates for almost 400 years. Of such things are legends made. In 1966 the capital city, Tashkent (41 20" N 69 10" E), was destroyed by a tremendous set of earthquakes. It was rebuilt by complete cooperation, a "khoshar", of the entire USSR. A "Khoshar" is a similar activity to a barn-raising in this country. Only Ashkabad was destroyed quicker (17 seconds) during a similar quake. Radio Tashkent can be heard in English to Asia 1200-1230 UTC 9600, 9540, 5985, 5945 kHz and also at 1330-1400 UTC. Tashkent has been verified through the world service on 15.515 at 0130. Some frequencies of Radio Tashkent, if not all, are supposed to count towards Uzbek SSR. An article in "Soviet Uzbekistani" says Radio Tashkent receives more the 4000 letters annually from 70 countries on all continents. Address your letters to: Radio Tashkent, Khorezmskaya 49, Tashkent, 700047 GSP.

The Turkmen SSR. Its capital, Ashkhabad (38 0" N 57 50" E), is the most southerly capital of the constituent republics and consequently the hottest. Turkmen history is a history of the desert. The USSR's largest desert, the Kara-Kum, lies over an area of 350,000 square kilometers. Horse lovers will be thrilled to know that the Akhalteke horses originate in Turkmenia. These are descendants of the legendary Bucephalus, Alexander the Great's mighty stallion. It may be interesting to note that here also live some of the world's greatest carpet makers. They think so because a carpet is on the state emblem. Ashkhabad could be found on 4825 kHz with the first program between 0100-2100 UTC and with a bilingual program on 4895 kHz at times between 0400-1800 UTC. Turkmenia seems not to verify.

The Kirgiz SSR. Although Kirghizia is at the same latitude as Rome and Lisbon we find that snow and glaciers are the dominant features of the landscape. Like Tajikistan, Kirghizia is a mountainous country which has a considerable part of one of the world's highest mountain ranges, Tien Shan. Even the valleys are 500 meters above sea level. One of the most interesting tourist spots is Lake Issyk-Kul. On its shores one can get a decent suntan in a matter of hours! In summer, the never-clouded sun gives so much heat to this lake, lying at an altitude of 1,600 meters, that it never freezes even in the coldest weather. Where Kirghizia's capital, Frunze (42 54" N 74 36" E), stands today, was once the site of Pishpek, a typical Central Asian village with

adobe houses and hovels dug in the ground. Frunze today is an industrial center with a population of over half a million. The transmitter site here is Frunze and has been verified in the world service on 15.420 at 0130 and 15.140 at 0100. The home service can be heard between 0000-2000 on 4010 kHz and with some programs in parallel on 4050 kHz. Although they rarely verify and then only for Russian reports, the address to try is: Dom Radio, Pr. Molodoy Gavardii 63, 720885 Frunze 10, GSP.

The Tadzhik SSR. Up on the Roof of the World is the Pamir Mountain Range. Although the Pamirs are close to India, sometimes it is colder there than in the Arctic. The Pamir plateau lie about 4,000 meters above sea level with the highest summit in the USSR, the Peak of Communism, at 7,495 meters. One Soviet expedition into the high country found a small village that still has the language and some of the customs of Sogdiana, a state that existed in about 500 B.C. The language of the Tajiks belongs to the Iranian group of the Indo-European family of languages. Dushambe (also spelled Dushanbe), the capital of Tajikistan, (38 40" N 68 50" E), was a village at the crossing of old caravan routes. It was on Mondays that the caravans arrived and trading began, hence the name of the place--Dushambe meaning Monday. Dushambe supposedly has been logged on 15.520 at 0430 but Radio Moscow indicated that transmission was from Moscow itself. Someone recently reported a QSL indicating Dushanbe on 7.115 khz but that information may be questionable. The author (Sheryl Paszkiewicz, ed) has verified 7.115 at 0200 UTC as Ivano-Frankovsk (Ukraine). The home service frequencies would be 4635 and 4975 alternating between Russian, Tadzhik, and Uzbek. Although this station has not been known to verify, the address is: Tadzhik Radio, U1 Chapaveva 25, 734025 Dushanbe.

The Kazakh SSR. Kazakhstan is not part of Central Asia, its southern region just borders on three Central Asian republics. A vast territory, second in size only to the Russian Federation, it extends for nearly 3,000 kilometers from east to west and for 1,600 kilometers from north to south. In the north it borders on Siberia. While the Kazakhs portable dwelling, or yurts, are no longer in use across the republic, in their own homes traditions die hard. Kazakh folklore is still practiced, especially among the "akyns", bards who improvise verse. The "akyn" must have a gift for acting and mimicry, be resourceful and witty. The capital city, Alma Ata (43 15" N 76 57" E), was once an out of the way settlement but now has a population of one million. Soviet DX'pert Chris Rigas recently verified Radio Alma Ata on 13.795. One of radio Alma Ata's home services can be found on 4.545. While reports are required in German for verification, the hobby press has noted that their services relay much of Radio Orbita 4 including all major news bulletins. The address is: Radio Alma Ata, U1. Mira 175-A, Alma Ata 480013.

The Estonian SSR. The Estonian capital, Tallinn (59 29" N 24 58" E) was the first Soviet city to win the Gold Medal of Europe awarded by the Hamburg Foundation for the Preservation of Ancient Buildings. No motorized traffic is allowed and transportation through the reservation zone is either by foot or horse cabs. It is one of the few places that the Nazis did not completely wipe out during WW II. The Olympic regatta was held there in 1980. The republic has a coastline over 3,000 kilometers long, including the islands. The Estonian state emblem, much as that of Lithuania, features golden ears of corn and green boughs. An interesting facet of life there is the noted taciturnity of the population. Whereas most other republics are full of noise, Estonians are basically a quiet people with only a nod or a look communicating great volumes. Tallinn has only a home service that has been noted on winter afternoons and is a very difficult catch. Tallinn does verify via QSL card. The address is: Eesti Radio, Lomonosovi 21, 200100 Tallinn.

INCIDENTAL NOTES. Several autonomous republics lie to the north of the Caucasus-- Teh Daghestan, Chechen-Ingush, Kabardin-Blakar, and North Ossetian Autonomous Soviet Socialist Republics. All of them are republics of small Caucasian nationalities. In each republic there are also several small ethnic groups whose name can be found only in books on ethnography.

Several autonomous republics lie in the Volga basin--the Tatar, Chuvash, Mari, Bashkir, Udmurt, Mordovian, and Kalmyk Autonomous Soviet Socialist Republics. Close neighbors though they are, the peoples inhabiting these republics nevertheless have entirely different roots and languages.

Mordovian and Mari, for instance, belong to the Finnish group of the Uralic family of languages while Tatar, Chuvash, and Bashkir belong to the Turkic group of the Altaic family of languages.

In the other direction is a 13 million square kilometer area call Siberia. Here we find groups such as the Yakuts, Khakassians, Turinians and other small nationalities of the Tungus-Manchu, Eskimo-Aleut, and Paleo-Asiatic groups. Some Siberian peoples, incidentally, could cover only one block of a modern city. The Yukagirs and Nganasanes number less than a thousand and the Kets slightly more than a thousand. Each nationality has its own language, customs and history. The Kets, for instance, speak a language that has no commonality with any known language, while in appearance they resemble North American Indians.

According to the '87 Yearbook the 1979 nationwide census recorded over 100 nationalities and ethnic groups in the Soviet Union. Russians, numbering 135 million, are the largest nationality. Twenty-two nationalities are more than a million-strong, forty-nine number less than 100,000 and six, less than a thousand.

The Negidals form the smallest ethnic group: there are only 504 of them. They speak a language that belongs to the Tungus group and they live in the valleys of the rivers Amur and Amgun in the Khabarovsk Territory. Another small group are the Aleuts. They number 546 and live on the Commander Islands in the Far East.

The absolute majority of the northern ethnics lives in three autonomous republics--the Yakut, the Tuva, and the Buryt, two autonomous regions--the Gorno-Altai and the Khakass, and eight autonomous areas, the largest of them being the Chukchi and the Khanty-Mansi areas.

Murmansk, transmitting on 5930 kHz, could be considered the world's most northernmost shortwave broadcasting station along with Dudinka, located in the remote Taymyr region of Northern Siberia, listed on 4425 and/or 4975 kHz, is only 40 miles farther north than Murmansk. Credit that to Ernie Behr in Ontario.

We have done what we could to make this overview of the Soviet Union as brief as possible. Please bear with us if we were too silent on one subject and too verbose on another. It is our hope that this effort will encourage you to find out more about the complexity of the Soviet Union and its internal and external short wave broadcast radio services.

SPEEDX has a 32 page booklet entitled "A Guide to Soviet Radio" wherein the entire gamut of Soviet radio is covered to include Internal Services, External Services, RMWS, Feeders, Military, Hams, Maritime, Beacons, and Jamming among the sections. QSLing, Sunrise/Sunset Charts, and Frequency Charts are also included. Their cost is \$2.50. Write to them at 7738 East Hampton Street, Tucson, AZ 85715-4212.

ABC TALKRADIO/ RAY BRIEM SHOW

THIRD ANNUAL "DX SPECIAL"!

Saturday, JANUARY 9, 1988--- 0806 UTC

Here's your chance to take time out from those post-Holiday bills and income tax preparation -- to spend some time with your favorite subject. Tune in and listen to some of the world's foremost Radio and DXing authorities ... STEWART MACKENZIE, President of the American Shortwave Listener's Club ... STEVE MILLER, of Radio West... GEORGE JACOBS, Shortwave engineering & propagation expert... BOB GROVE, President of Grove Enterprises... TOM KNEITEL, Editor of "Popular Communications"... DR. BRUCE ELVING, Publisher of the "FM Atlas" and "FMedia!"... and many more surprises!!

Program times will vary around the country, so check your local listings... and get your questions and comments ready for our panel. You can call in and join us on the air by dialing 1-(213)-879-8255, if you're outside the L.A. area. This is a toll call; when dialing in, just let the phone ring, and we'll answer your call just before your turn to go on the air.

Here are some "best bets" for hearing the program--again, check local listings for starting times: WABC-770 kHz; WSB-750 kHz; WIOD-610 kHz; WTKN-970 kHz; KSTP-1500 kHz; WJBO-1150 kHz; KOA-850 kHz; KABC-790 kHz; KTAR-620 kHz; KXL-750 kHz; KENI-550 kHz; KGU-760 kHz; KOH-630 kHz -- among others!

Please send ideas, comments, etc. to: GREG HARDISON

c/o KABC RADIO

P.O. BOX 79

LOS ANGELES, CA 90016

NASWA Awards Program

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

Being that the Ides of November have passed and it is quickly approaching Turkey Day tis best that we prepare the December Edition of the NASWA Awards Page. The following folks earned NASWA Awards during the most recent period:

Kirk ALLEN, Newkirk, OK: Papua New Guinea DXer

Paul BUER, Miami, FL: Asian Continental DXPert

Richard DAVIS, Portales, NM: Senior DX Centurian - 190 country endorsement; Master British Commonwealth DXer - 60 country endorsement; Senior Ecclesiastic DXer - 30 station endorsement

Alexander DURANT, Albany, NY: Ecclesiastic DXer

Brian HOWE, Ft. Charlotte, FL: European Continental DXer

Keiichi KONDO, Asakikawa City, JAPAN: Master China DXer

Rick KRZEMIEN, San Ramon, CA: Asian Continental DXPert

Sheryl PASZKIEWICZ, Manitowoc, WI: Master Pacifica DXer, All Continent "QRP" DXer (10 kw)

Roland SCHULZE, Stuttgart, WEST GERMANY: Asian Continental DXer

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

Effective immediately endorsement stickers are available for the All Voice of America DXer. The first will be for 18 sites and the second for 24 sites. Not impossible if you've been DXing for awhile. Usual SASE or IRC applies. Thanks and a tip of kap's cap to Paul Buer for the suggestion.

Bill Plum (12 Glenn Road, Flemington, NJ 08822) sent along his latest mint stamp and printed matter flyers. SASE to Bill will get you a set. Bill keeps adding to the countries he has mint stamps available for.

I'm afraid we must close the case of UHN Newsletter. No response has been received from the publisher for over a year. This publication will be sadly missed.

To those interested in the Time Station Awards, beware of the list recently published in a tabloid commercial communications publication. Much of the information is, alas, a decade out of date. This is the same publication that had 3 different spellings of "Worcester, MA" (all wrong) in a recent Massachusetts scanner profile. We won't even mention how many errors there were in THAT listing.

Over the years, due to our NASWA, SPEEDX, ADXR and HAP-USA involvements, we've sort of become ombudsman to those who feel they have been wronged by a plethora of mail order suppliers of various DX aids. We have attempted to solve these problems by corresponding with both parties, with limited success. Surprisingly (maybe not so), in most cases it was the DXer that was in the right and the supplier in the wrong. While we will continue to try and help, we just do not have that much clout. May we suggest that in the future, if a supplier does not respond in a reasonable amount of time (30-45 days) a follow up letter be sent, along with a copy to the United States Postal Inspectors in the locality involved.

We now come to the end of our final column for 1987. Muriel and I, along with the cats (Bobcat and Silky) wish all a Most Merry Christmas and Happy Chanukah and our best wishes for a most prosperous and healthy New Year.

Till next year

BSS,  11/19/87

Computer Corner

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

Greetings, and welcome to yet another edition of THE COMPUTER CORNER! My column from last month got bumped, mainly due to the large influx of information to the other columns....all I can say is FANTASTIC! I am glad to see everyone is picking up their headphones again! Anyway, I have several interesting things for you this month!

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SHORTWAVE DATABASE V1.4

A program recently appeared on several of the SWL-BBS, most notably ACE and ODDX, called SHORTWAVE DATABASE V1.4, by Dan Keever. Dan has created a program to the SWLers who have PC and PC compatible computers, who would like to link their computer and DXing hobbies.

SHORTWAVE DATABASE is designed to take frequency information from various sources and give you the ability to manipulate the data. The program can print the data in a regular columnar format or in the "BBC" format as found in their program guides.

Dan originally wrote the program to help keep track of English language broadcasts to North America; and, as he put it, seemed to get carried away. The program works quite well, and provides you with very nice printed schedules. As an example:

United Kingdom	BBC	2200 - 2330	5.975, 6.175, 9.410
United Kingdom	BBC	0030 - 0100	5.975, 6.140
Netherlands		0000 - 0200	9.435, 7.125

and prints it out by country:

	Greenwich Mean Time									
	0000	0100	0200	0300	0400	0500	...	2100	2200	2300
NETHERLANDS	DAILY									
9.435	EEEE	EEEE	....	....	....	....	....	....	....	9.435
7.125	EEEE	EEEE	....	....	....	....	....	....	....	7.125
UNITED KINGDOM	DAILY									
9.410	....	....	....	....	....	....	....	EEEE	EE..	9.410
6.175	....	....	....	....	....	....	....	EEEE	EE..	6.175
6.140	..EE	....	....	....	....	....	....	....	....	6.140
5.975	..EE	....	....	....	....	....	....	EEEE	EE..	5.975
	1900	2000	2100	2200	2300	0000	1600	1700	1800	
	Local Time									

(continued...)

by frequency, in a similar format to the above, and of course in the standard columnar format:

SHORT WAVE DATABASE SORTED BY COUNTRY ON 09/04/87								
Country	Station	B-TM	E-Tm	Frequencies			Target	Language
GREAT BRITAIN	BBC	2200	2330	5.975	6.175	9.410	ENA	ENGLISH
GREAT BRITAIN	BBC	2430	0100	5.975	6.140		ENA	ENGLISH
NETHERLANDS		2400	0200	9.435	7.125		ENA	ENGLISH

(columns shortened in above examples)

The program is designed to allow the use of condensed printer codes, so that the maximum amount of data can be printed out onto the page. Written in Turbo Pascal 3.0, using the Turbo Database Toolbox, Dan has developed quite a program! The uses are probably only limited to our imagination. For example, at a recent HamFest in which the Old Dominion DX Association had a large booth and lectures, the program was used to create a "quick and dirty" English Language Schedule as a freebie. Another use would be to compile the schedules of those stations you want to hear, but have not had much luck at...simply enter these into the program, and you will have a list both by UTC and by frequency, all at your fingertips! If you get just ONE of those countries because you used this list to "keep the ears open", it was certainly worth it!

Dan has released the program under the user-supported concept - he is asking a \$10.00 donation if you find the program useful. The program is available on both the ODDX and ACE BBSs; you can drop a formatted disk with a stamped, self-addressed disk mailer, to me at the address listed at the start of the column, or write directly to Dan Keever, 2405 Highland Avenue, Durham, NC 27704. Try out SHORTWAVE DATABASE V1.4: you won't be sorry!

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SPECIAL DISCOUNT FOR THE SEEKER!

Many of you have read about the SEEKER, a device which connects your Icom R71 to a Commodore 64 computer, and provides complete control. Well, the manufacturer of Seeker, AF Systems of Waukegan, Illinois, is extending a special limited time discount to members of ANARC affiliated clubs. If you are interested in the SEEKER, write AF Systems and mention that you are a member of NASWA. You will be sent complete information and a special discount certificate. Additionally, if you want to really see what is happening before you spend your money, you can send AF Systems \$15.00 for a Demo disk and complete manual set. The \$15 will be applied to a later purchase of SEEKER.

AF Systems can be reached by phone at (312) 623-4744, on CompuServe E-Mail, 71310,3712 or by writing P.O. Box 9145, Waukegan, Illinois 60079. Tell them you read about them in FRENDX!

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GOOD NEWS AT ACE BBS!

Recently, the ACE BBS has been having difficulty with the hard drive in the machine. Thanks to the efforts of Kirk, the Sysop, a new hard drive was donated - that's right - donated! - to the cause! Chuck Freeman of NORTHGATE COMPUTER SYSTEMS in Plymouth, Minnesota donated a hard disk to ACE, so that the system could keep on running! A most generous gift, and I

am sure that Chuck will be repaid many times over by the goodwill generated by his action. As a side note, I own one of Northgate's computers, the XTurbo, and have been VERY VERY pleased with it's performance! Northgate has ads (LARGE ADS!) in most of the major computer magazines, such as COMPUTER SHOPPER and PC RESOURCE (my favorites), so be sure to check them out. Prices are outstanding, and the warranty cannot be beat! If you are looking for a PC compatible, then I strongly urge you to contact NORTHGATE COMPUTER SYSTEMS at (800) 328-8907. Please tell them you heard about them in FRENDX.

MINI-PROP

MINI-PROP is a propagation prediction program that had appeared on many of the SWL-BBSS around the country. What is it? Why is it? How does it work? Well, that is one of the major topics of the next issue of Computer Corner. If you have a PC-compatible computer, and have access to a modem, I suggest that you download the program from one of the boards, like ACE or ODDX, and start playing with it. I am going to enlist the help of DX'ers Forum conductor Chuck Rippel and the infamous Dr. DX to help out with an in-depth review of the program for next month. So, stay tuned!

GENERAL STUFF!

Not much has been happening around here, just kinda cruzin' so to speak. I have just become the owner of a second pc-clone, and am using it to run my BBS on. Pretty awesome machines! The PC has made a BIG difference in my "computing life" in that now I have much more power and speed that ever before! When will it end?

Playing with another (!) word processor this month; this one is pfs:WRITE. Very simple, easy to run program. Menu driven. Easy to dance to. Kinda reminds me of Pocket Writer for the C64. You MS-DOS users might wanna check this one out!

The old mail box has been pretty slack. I hope that SOMEONE out there is computing, besides me! I would really like to get some input from you readers, so that I will know what to give you folks in this column! How about a letter, even if it is a nasty one?? (Easy, Dr. DX!)

That just about wraps it up. I trust you all will have a happy Holiday Season, and that you get plenty of DX for them! I will be tuning around the bands to try and find something new....still need more countries! Oh yes! Don't forget the ODDX SWL/HAM net each Sunday Morning at 1400 UTC on 7240 kHz. Pretty fun listening!

HAPPY HOLIDAYS!

73 till next month!

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DR. DX GOES TO THE ANARC CONVENTION
PART II

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Dr. DX was sure amazed at all the things to do at ANARC. He was especially excited by the first activity--a cash bar with a chance to see big broadcasters. Dr. DX got his powder blue polyester suit out of the shower (Mrs. Dr. DX had taught him that!) and headed for the party. When Dr. DX got to the party he was really mad. The cash bar had given away all the cash and was now selling liquor. On top of that, there were some big people there alright, but none of them were casting broads around--Dr. DX had been pretty excited about the broadcasting part but had to settle for a beer instead. Dr. DX actually settled for several beers and doesn't remember much more of the first night. Dr. DX really enjoyed the next day although his head did not. Dr. DX went to alot of seminars. At one seminar he learned that they don't build radios like they used to. Now Dr. DX is not the smartest person in the world but he knew that! Radios are built in Japanese now instead of English and that must be real tough to do. Dr. DX also learned about propagation. He learned that propagation is what you blame when you cannot hear anything on the radio. Dr. DX was pretty excited to be recorded for "Saludos Amigos" too. He is not sure what Saludos Amigos means, but he had a chance to say hi to his friends. In the display area Dr. DX saw VOFC, HCJB, VOA, DW, BBC, ASWLC, ODDXA, SPEEDX, and a bunch of other things he could nopt pronounce. Dr. DX was excited, though, when someone told him that the Voice of America was there. Dr. DX could hardly believe it! When Dr. DX asked the man in front of the sign to sing, he sounded awful. Dr. DX thinks that Dr. DX could be a better voice of America than that. At the HCJB booth Dr. DX saw a man dressed like an Indian and realized why he had never been able to pronounce HCJB; it must be an Indian word, and Dr. DX is not so good at languages. Dr. DX also had the chance to pick up free ink pens from BBC and DW (Dr. DX thinks those must be Indian words too, but from a different tribe). Dr. DX picked up a pen, then changed his tie and got another, then limped by and got one, then stuffed rolled up toilet paper in his cheeks and got another. Dr. DX was indeed a master of disguise and managed to get 12 pens. It doesn't take much to make Dr. DX proud of himself. Dr. DX also talked to Fred and Barb Osterman and they gave him a free screwdriver. He tried the rolled up toilet paper trick again, but it did not work with them. Dr. DX thinks they must be smarter than that because they speak a language called RTTY/FAX. Dr. DX very much wanted to get the HCJB Indian and the Ostermans together so he could listen to them speak RTTY/FAX/HCJB, but Dr. DX was having so much fun that time just got right away from him. One night, everybody dressed up nice so that they would not look like who they really were. Dr. DX went to a banquet with all these dressed up people and sure enough did

not know who anybody was. Dr. DX was real lucky because after the banquet they drew his name and he was a lucky prize winner. Dr. DX won a large wooden parrot from HCJB! Dr. DX was really excited--many people had given Dr. DX the bird, but now he had received the bird from a major international broadcaster (even though Dr. DX could not pronounce HCJB, he was still proud). Many of the dressed up people liked Dr. DX's bird and so did Dr. DX. After the banquet, somebody suggested that Dr. DX take a dip in the pool. Dr. DX did this but his potato chip got very soggy and Dr. DX thinks he likes onion dip better. The best thing Dr. DX did at ANARC was to go to an antique radio museum. The museum was not antique but the radios were. They were also very old. Dr. DX had a great time there. The Voice of America was there too but he did not sing. At last it was time for Dr. DX to board the train for the trip home. The train was very full of people speaking foreign languages, but when Dr. DX asked them, nobody knew RTTY/FAX or HCJB. Dr. DX had several problems on the train. First of all, the tracks were very rough and the train lurched just as Dr. DX got a cup of coffee, and he spilled it down the front of his tangerine and lavender polyester jump suit, just like on the train trip up. But that was not as bad for Dr. DX as sitting on the Three Musketeers bar. Dr. DX had to wear his straw hat on his leg the rest of the trip because some people made unkind remarks about Dr. DX's personal habits. There was also trouble at the border, just as when Dr. DX came to Canada. This time some very large men with guns handcuffed a lady and took her off the train. Dr. DX did not know why this happened, but he thinks it is because she did not declare all her DW and BBC pens. At long last Dr. DX got to New York City. Dr. DX only thought New York was scary when he came up on the train. This time it was dark and Dr. DX had to change train stations. Dr. DX had to sit in Penn Station with his straw hat on his leg until 3:00 AM to catch the train to Washington. All Dr. DX can say is WOW! Dr. DX had a nice time in Washington the next day anyway. Dr. DX bought an Oliver North t-shirt, but now Dr. DX cannot remember who Oliver North was. Dr. DX was supposed to catch the train for home at 4:15 PM but it was late because it had done something stupid. Dr. DX did not mind, though, because he enjoyed standing in the 140 degree train station for three hours with a million other sweaty people. Just before Dr. DX got home, the train did something else really stupid and lost another two hours. When Dr. DX finally got to the train station, six hours late, Mrs. Dr. DX was pretty mad and was not very interested in how Dr. DX had spent his time at ANARC. Dr. DX decided that he better not travel again for awhile. Mrs. Dr. DX is better now and sometimes speaks to Dr. DX. While Dr. DX was at ANARC, Mrs. Dr. DX cleaned out the radio room and threw away all of his QSL cards. Dr. DX is not sure, but he thinks QSL must be a RTTY or HCJB word. Dr. DX will look that up and let you know. Dr. DX is pretty excited now because next time Mrs. Dr. DX is going to present "The Spouse's Guide to Shortwave Radio" to you.

THE 22 CENT SOLUTION

by Andrew G. Wallace
65 West Forest Street
Apartment 2
Lowell, MA 01851-4827

My first reception reports were sent out when I was a teenager, and my only income was my allowance. At that time, 13¢ seemed like a lot of money for postage, and I had the idea that overseas mail cost several dollars! Lord knows why, but I thought that!! So my first reception report was to WWV, followed by reports to AFRTS and the Voice of America. It was not until 1979 that I sent out my first foreign reception report, but I thought the Radio Peace and Progress QSL I received was worth the money.

Well, domestic postage is now 22¢, and I don't think that's a lot of money anymore. I was wondering, though, just how many stations could one QSL for a 22¢ stamp today? Going through the WRTH and recent bulletins, I came up with the surprising total of (theoretically) nearly forty countries. Here's the plan: What used to be a simple station to QSL is now among the toughest, apparently. The Voice of America has abandoned its rather classy QSL's for "generic" ones, and its policy is not what it used to be, either. (A friend of mine has just sent his fourth follow-up to the VOA!) The relay sites used by the Voice of America are: Ascension Island, Sri Lanka, Greece, Federal Republic of Germany (try for the 8 kw outlet on 3980 kHz), Liberia, Philippines, Dodecanese Islands (listed as Rhodes, Greece), Tangier (a separate Moroccan radio-country per the NASWA Country List), England, and the Bethany, OH, Delano/Dixon, CA, and Greenville, NC sites in the U.S.A. Watch the sites listed on the QSL's...recently they were listing target areas instead.. ("Caribbean" is the target, not the Antigua site used by the BBC and DW.)

No longer QSLing to U.S. listeners, AFRTS uses VOA transmitters. The sites at Bethany and Greenville are used by Radio Marti, and La Voz de la OEA is via Bethany. This Organization of American States outlet QSLs readily, usually sending along a few pounds of literature.

Then there are the commercial broadcasters: WYFR (don't forget their relay via the Voice of Free China), KGEI, WINB (no wimp, this one!), WRNO, WHRI, KCBI, WMLK, KVOH, WCSN, and KNLS in Alaska. Let's not forget WWV and WWVH either.

Sometimes you can QSL a station via the programs they carry. For instance, HCJB carries the Speedx Report, and you can get a QSL for this from Dave Sharp, The DX Montage editor. Radio Mediterranean in Malta carries religious programs and occasionally the programs respond with a QSL (I got one years ago from International Christian Radio in Canada for the RM relay). Also, I know of a few people who have QSLed Radio Nacional in Equatorial Guinea in this manner. A prepared card is in order here.

Other countries may be QSLed via their station headquarters in the U.S.A. The KING of Hope in Lebanon, now a good catch on 6280 kHz (some years back it put out good signals with 50 kW on 6215 kHz), may be QSLed via the High Adventure Ministries HQ in California. HCJB may still accept reports to the Opa Locka, FL address, and may accept U.S. stamps for return postage. Now that La Voz de la Mosquitia is back on the air in Honduras, their Tupela, MS address used before may be the place to write now. Also, Fleet Post Office boxes are used for the time station NPO in the Philippines and AFAN McMurdo in Antarctica. TGMUA in Guatemala is owned by CAM International, headquartered in Dallas, TX.

"Network" headquarters may also respond. The Adventist World Radio stations in Italy, Sri Lanka, Guam, Costa Rica (Radio Lira TIASD), and Guatemala may be QSLed by writing to the Seventh Day Adventist HQ in Washington, DC. Likewise with the Trans World Radio Headquarters in Chatham, NJ which serves their stations in Monaco, the Netherlands Antilles, Swaziland, Morocco (Radio Monte Carlo Middle East), Sri Lanka, and Guam. The FEBC HQ in California may get you QSL's for the Philippines, Saipan, and the Seychelles Islands.

Another tactic which I have never tried, but which may work, is writing to the BBC headquarters in New York for their transmitters in the Ascension Islands, Lesotho, Cyprus, Oman, Singapore, England, Canada (Sackville), and the U.S.A. (Bethany and Delano). At the very least, they may forward your report to London for a no-data card.

Remember, 22¢ works for Canada and Mexico, too. Above the border, you can QSL Radio Canada International, CKZN (Newfoundland), CKZU, CFCX, CFVP, CFRX, CKFX, CHNX, and time station CHU. Below the border, there are many stations, the easiest being XERMX. The word I got from a local postal clerk is that first class mail from the U.S. is transferred to airmail once inside Mexico. Still, replies are sometimes long in coming back.

Domestic postage also works for U.S. territories and possessions including KYOI, Saipan (now owned by the Christian Science Monitor), KSDA and KTWR on Guam, and WSZO Marshall Islands. Rumor has it that some generous DXers are donating QSL's to WSZO. Perhaps that's what's delaying my reply!

And as a last resort (and I mean last resort) for those tough countries, some ambassadors will QSL reports. Check your local library for the names and addresses of ambassadors in Washington, and be very polite when writing. Should an ambassador sign your prepared card, a gracious "thank you" letter is in order.

So even if financial restrictions are not your motive, the simple fun of trying something different may make the wait for that Omdurman or Damascus postmark seem shorter. I was surprised at the number of stations which could be QSLed for 22¢, even if you discount the tentative addresses. (Hey, Kap, I smell an award idea here!)

JOHN TUCHSCHERER'S 1987 LATIN AMERICAN DX HELPER

Last year's well recieved issue of the LATIN AMERICAN DX Helper has been updated and is now available. The 1987 edition includes approximately 300 stations with schedules and selected station identifications. This represents many hours of actual monitoring as well as the compilation of information from various parts of the world by well known DXer John Tuchscherer. The LATIN AMERICAN DX HELPER is designed to update and complement FINE TUNING's previously released DXers GUIDE TO LATIN AMERICA, which included only stations reported by DXers in North America. The 1987 LATIN AMERICAN DX HELPER emphasizes shortwave stations in Peru and Bolivia.

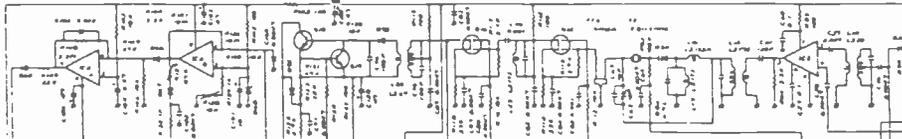
In 1988 FINE TUNING will publish a single volume updating these two publications.

The LATIN AMERICAN DX HELPER 1987 can be obtained for \$3 in North America, \$4 elsewhere from the following address:

FINE TUNING
8515 Scott
Wichita, KS 67210 USA

fine tuning

Technical Topics



Editor: T. J. "Skip" Arey, WB2GHA, P.O. Box 644, Waterford Works, NJ 08089-0664

A VISIT FROM THE BEARDED ONE
OR
T'WAS THE NIGHT OF DXMAS
(With apologies to Clement C. Moore L.L.D.)

'Twas the night before Christmas,
and all through the house
The "Harmonics" were sleeping,
and so was the spouse;

The antennas were hung
from the chimney with care
In hopes that some signals
would come through the air;

The receivers were nestled
all neat in a row,
With filters and tuners
all ready to go;

With a strong cup of coffee,
sitting at my right hand,
I had just settled in
to some radio band

When out of my headphones
there arose such a clatter,
I sprang from my desk
to see what was the matter.

Away to the window
I flew like a flash,
To determine the cause
of this odd static crash.

The moon on the breast
of the new-fallen snow,
Gave my antenna wires
an unusual glow;

When what to my wondering
eyes should appear,
But a weird little sleigh
and eight tiny reindeer,

With a strange little driver,
who looked like a Hippie,
I thought for a moment
my brain had gone dippy.

More rapid than eagles
his coursers they came,
And he wheezed, and he cursed,
and he called them by name:

"Now, Ien-Iec! now, Icom!
now, Yeaseu and Phillips!
On, Grundig! on, Sony!
on, Kenwood and Collins!

Watch out for the porch!
watch out for the wall!
Stay out of the way!
and don't let me fall!"

As dry leaves that before
the wild hurricane ride,
When they met with an obstacle,
they kicked it aside,

So up to the house-top
the coursers they flew,
And got tangled in wire
the old Hippie did too.

And then, in a twinkling,
I heard through the ceiling
A great deal of cursing,
and swearing, and squealing.

As I shook my head,
and hollered out "Stop!"
Down the chimney the bearded one
fell with a plop.

He was dressed all in denim,
from his headphones to tail,
His clothes smelled like sweat-socks,
and his breath like cheap ale;

A six-pack of brewskies
were strapped to his trunk,
And he looked like a man
who was obviously drunk.

His eyes, they were bloodshot!
His cheeks they were hairy!
His face, it was flushed,
and his nose like a cherry!

His teeth, they were clenched,
and were in need of cleaning,
And the beard on his chin
could have used a good preening.

The stump of a stogie
he held tight in his teeth.
And the rancid smoke circled
his head like a wreath;

He had a fat face
and a great big beer-belly,
That shook when he burped,
like a bowlful of jelly.

He was nasty and fat,
A right raunchy old elf,
And I gagged when I saw him,
in spite of myself.

A thunderous belch
and a nod of his head
Soon gave me to wish
I had stayed in my bed.

He spoke not a word,
but went straight to his work,
Opened up my receiver,
and he tuned with a jerk.

Then sticking a finger
inside of his nose,
He let out a burp,
up the chimney he rose;

The receiver it squealed,
and gave out a whistle,
And the stations I heard that night,
would fill an epistle.

And I heard him exclaim,
ere he drove out of sight,
"Happy DX old man,
next time leave on a light!"

See folks, If this guy had listened to Old Uncle Skip and had his preventative maintenance done during the summer, he wouldn't need to scare up a serviceman during the holidays.

May the spirit of the season bring you all joy and peace.

73,

Ships

WB2GHA

NO COLLECT CALLS ON THESE ADS, PLEASE

WANTED: HQ-180A or other classic. Also and Collins emblems or labels from junk radios. FOR SALE: Regency 8-crystal scanner, \$40.00. Many antique radios and items including transmitter tube collection. Send SASE for list. Fritz Mellberg, 1505 Central, Hawarden, IA 51023. Phone (712) 552-2458 evenings.

FOR SALE: Yaesu FRG-7000 with Gilfer filter modifications (4 and 2.4). Factory tuned 1½ years ago and in excellent condition. Price \$350.00 including shipping. C. Vernon Hyson, 9835 Lone Eagle Lane, Charlotte, NC 28215. Phone (704) 568-7577.

FOR SALE: WRTH for 1984, 1985, 1986, and 1987, \$8.00 each plus UPS. Eavesdropper antenna, new, \$46.00. 1987 Ham Callbook-U.S. Edition, \$9.50. Yaesu FRT-7700 tuner, mint, \$46.00 plus UPS. Jim Uerlings, 1437 Pacific Terrace, Klamath Falls, OR 97601. Phone (503) 884-7659 after 1:30 GMT.

FOR SALE: MFJ Signal Enhancer II (Model MFJ-752), excellent condition with manual. \$45.00. Yaesu FRT-7700 tuner for FRG-7700/8800 receivers, excellent condition with manual, \$55.00. Sony 2001, absolutely primó mint condition with AC adapter and service manual, \$165.00. Knight Kit Spacer Spanner. Works well and in great condition with manual, \$30.00. Rich Arland, 9 Vine Street, Shavertown, PA 18708. Phone (717) 696-2179.



Listeners Notebook

GLENN HAUSER, Box 1684, Enid, OK 73702

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AFGHANISTAN LMI

ALASKA KNLS tentative Sept 27-March 27 sked w/even more tentative changes in () expected for March 28-Sept 25, 1988: 08-11 As Pac Coast EG 6150 (11860, 11820, 11930 one hour each). 11-1230 China Mandarin 7355 (9710). 1230-1400 China Mandarin 7355 (7355). 14-15 Japan Japanese 7355 (9750). 15-1730 E USSR Russian 7355 (9750). 1730-2030 As Pac Coast EG 7355 (11700). 2030-23 E USSR Russian 7355 (11700) (KNLS 27/10 via Richard Lemke, St Albert, Alta, Canada)

ANTARCTICA R Nacional, 15474, Spanish, YL said at 2259 5/11 "Radio Nacional, la emisora del continente antártido". After three English-worded songs including "Dance with Me", YL signed off at 2310 with "La Emisora Antártida Argentina en el extremo norte de la península antártida... de San Martín... LRO (it sounded like O, not A) 36, Radio Nacional Arcángel San Gabriel, la emisora del continente antártido" (Father John Eckert, Collegeville PA) Usually runs to 2430*; also hrd here peaking around 2315 on 15473.8 (gh)

F Sistema Nacional, Santiago, Chile, reported 2/11: A new stn is joining the natl net, Soberanía FM at 90.5 (MHz) which bcs in the Antarctic territory from the Chilean air force base of Teniente Marsh (WBI 6/11)

ARGENTINA Telam nx agcy, Bs As, reported 29/10: Spanish Forn Minister Francisco Fernández-Ordóñez met Arg FM Dante Caputo for 3+ hrs today to analyse topix of bilateral relations... they also decided on creation of a special commission to promote Spanish participation in Arg development and installation of an antenna [relay xmtr] for R Nacional de España xmsns for Arg and the Arg R Nacional xmsns to forn countries (WBI 6/11) ¿Does this mean a site in Argentina only, which would relay SFR to Arg itself, but also hype the power of RAE for extl xmsns--or something more, like RAE via Spain/Canaries??? (gh)

AUSTRALIA Australian Navy stn on 6448, hrd 23/10 w/time pips at 1300-1500, and on 12982 at 1600-1730 f/out; 10 kw USB xmtrs replacing VNG, but vy poor fqs w/hvy RTT QRM; should move to former VNG fqs (Ernie Behr, Kenora Ont)

Middle-size ISWBCers "Group of Four" (RN, SRI, RSI, RCI) have expanded to five by inviting RA to join meetings to discuss common interests. Peter Barnett, RA Dir, reported in Talkback 11/10 after returning from his first meeting with them, in Montreal. Plan to speak with one voice at WARC 1991. Looked at SSB, DBS, but SW to remain prime means. R Sweden's phone-in arrangement w/bcers in Lam: stns call collect and record a nx pgm for bc locally reaching up to 30 megapersons may be applied in RA's region (WBI 16/10)

In Talkback 18/10, Barnett also reported on his discussions in Los Angeles w/Calif Public BCing Assn, re RA providing the net's 27 stns w/pgms; RA/ABC unequalled in Pac nx coverage e.g. Fiji story, 34 stringers in Pac. CPBA hopes to get daily svc from RA, also to be bc in Hawaii, Alaska, western states, maybe

NY, Boston, Minneapolis. RA was also only official intl bcng guests at R Beijing 40th anniv. Big celebration in Palace of Nationalities, kilo+person present, guest speaker self. RA/RB already cooperating w/personnel exchange. Also signed agreement w/RB for on-air EG lessons thrice daily to China to have backup material prepared by RB publishing house, plus cassettes of pgm. Shanghai net also planning EG pgm, asked for our help (WBI 23/10)

Talkback 25/10 reported on changes in RA pgming effective 31/10 0000 utc: Geoff Herriot, controller of nx & current affairs explained: no longer 10 mins of Au nx twohourly on half hour, due to budget, but instead 3mins of Au nx after world atop alternate hours; plus Intl Report topping other hours, extended from 20 to 25 mins. Tho RA only main source to world for Au nx, more important is its As/Pac nx coverage. Resultantly, many other pgms resked from :40 past to :30 past hour, etc (WBI 30/10)

At 0710 1/11, RA ancd due to industrial action it was unable to bc newly sked Au nx; repeated thruout day and 2/11 whenever the 3-min Au nx sked (WBI)

A U S T R I A ORF D87: 00-02 SAm 11780. 00-03 NAmE 9550. 02-04 CAm 9585 & 11780. 03-05 WNAm 6000, ME 11800. 04-05 SEEu 6000. 05-11 ME 15410. 05-07 Eu/NAf 6000. 05-23 Eu/NAf 6155. 07-17 Eu/NAf 11915. 08-09 AuAs 15410. 11-12 AuAs 15410. 11-13 EEU 9685. 12-13 ENAm 15320. 13-15 EAs 9665. 15-17 S& SEAs 9610. 17-23 Eu/NAf 5945. 17-19 E&SAf 11825. 17-20 ME 12015. 19-21 SAf 11825. 20-22 SWEu/WAf 9655. 21-23 Waf/SWEu 9655 [sic]. 21-22 EAs 7305. 22-24 SAm 9580 (via Richard Lemke, St Albert, Alberta, Canada) Cuba gone from 9550 but ORF now inaudible anyway here (gh, OK)

A Z E R B A I J A N Az R, Baku ancd 2/11: From today, Araz pgm (2nd pgmme) will begin xmsns at 0300. Changes results from listener poll. New pgms on Araz incl more info content 03-05; stereo mx twice daily, morns & eves. Is on 6135 and 4957.5 plus MW, FM (WBI 13/11)

B A N G L A D E S H RB Dhaka on 6240, from *1311 IS & Nepali? to 1345*, G sig; on 6241.1 from *1400 in Urdu?, dist & weak mod, 7/11; two diff xmtrs (Ernie Behr, Kenora Ont)

Xmtr on 6220 has now settled on 6145. Complete HS SW sked is : 4890 at 0000-0330, 1250-1600. 6145 at 1230-1715. 6195 at 0430-09. 7080 at 0330-0630. The new xmtr is used for 7080 and 6145 and sometimes comes with awful modulation. ES in EG: 1230-1330 [sic] on 15525 12030, 1815-1900 & slow nx 19-1915 on 7505 6240. V of Islam 08-0830 on 15525 12030 (Dr Supratik Sanatani, Calcutta, India, 30/10)

B E R M U D A RNMN reported 15/10: Berm govt examining plans by two Am businessmen to set up 500 kW MW stn for extl bc, to promote tourism; target Wash DC to Toronto, Montreal, Boston. More info from Edward Schober, NJ, 13/10: mostly Berms working at stn; very narrow demographic: upscale Ams likely to be tourists. Plan 1610 or 1620 kHz; AM not a disadvantage w/this target audience and most rx get these fqs: people 40+ w/high income; maybe call it "Zed-16; plans researched for 2 yrs already, but more hurdles yet. Berm govt yet to approve, but favorable. Local evening only (WBI 23/10)

B R A Z I L R Nacional, 9760, from 0500 IS & PT pgm to Af, QRM 28/10; is this a newsvc? R Cultura, 9615, from 0000 PT nx & ID, 0005 Braz pop mx, F over Vatican 28/10 (Ernie Behr, Kenora Ont)

B U R M A Burmese Army Stn on 6570, from 1250 local mx & YL ancr to 1330*; hrd almost daily since 4/10, F-G sig & no QRM (Ernie Behr, Ont, 5/11)

[Cf Oct IN-18] EG lang school les from BBS Rangoon is 1145-12, not 1245-13, on 5985 (Supratik Sanatani, Calcutta, India, 30/10)

B Y E L O R U S S I A N S S R R Minsk advises GM form svc on 1st, 3rd, 5th Sats 1830-19 on 6010 6090 6165 7170 7420; 2nd, 4th Sats 2130-22 on 5950 6065 6185 (Bill A Matthews, Columbus OH, 31/10)

C A N A D A RCI may be responsible for some of the unID hi-power tests hrd in Sept on various fqs; finally caught them in the act 4/11 on 11800 while listening to SLBC; huge 555 sig suddenly appeared at *1623 w/CBCNQ Svc in Inuk or Cree, at 1624 test tone & open carrier to 1627*; buried SLBC & was //11720

for 1 minute, enough for positive ID; hope Ian McFarland can explain this (Ernie Behr, Kenora Ont)

RCI winter/spring pgm sked reports: RCI is listened to by more than 16 mega-people weekly, per study just carried out by CBC. To arrive at the new estimate --34% higher than previously--researchers looked at more than 150 documents describing SWling habits in over 60 countries. They found that 71% of our listeners live in C& EEU, where we beam pging in nine langs. At other end of scale is As & Pac, accounting for only 4% of audience. But unlike Euros, these listeners don't have daily SW svc from Canada. They tune weekly pgms via satellite to Japan & HK for local bc. From 4/4/88, however, RCI will be on air three hours a day to As (incl Soviet As) and Pac in EG, FR, JP, RS, UK. New service possiblized by agmt w/R Japan. RCI to use R Japan's Yamata xmtrs in exch for RJ use of Sackville to US. (WBI 6/11)

C H I N A Switzerland? R Beijing first noted 3/11 on 11715 *0000-0455* in EG & CH. Each segment 55 min. 00 EG, 01 Cantonese, 02 Mandarin, 03 EG, 04 Mandarin. Sig too good to be direct. Co-ch QRM from RN Bonaire 0000-0025*, and from R Cairo and WYFR after 0045. 4/11 0300 SIO 454. Followin nights not as good (Paul Buer, Miami FL, 7/11) Noted here 7/11 0000 when trying to hear R Enlace on RN. Fq slightly high, 11715.1 or so, and later found // 9770.1. Both have satellite delay (like 2 hops) compared to barely audible 9665 //direct at 0055* However audio breakup on 11715.1 is not duplicated on 9770.1 as one would expect if both were at same site, fed by same source; both do have phone-quality audio. Neither fq ancd by R Beijing at closing until 13/11 UTC, and then no info on site. Strangely, both also ancd for the 1200 bc to ENAm, tho not audible--at that time propagation no better from trans-Atlantic than trans-Pacific on those bands. Obviously not Switz as sigs are strong and steady from the tropics. I guess Africa Number One, Gabon, most likely, w/xmtrs available overnight, and there is a Swiss connexion there too. FCC directionfinding at my request, 10/11 0030, resulted in 82° from new Vero Beach FL site, 93° from Laurel MD. These cross just off the Waf coast where Mauritania and W Sahara meet, hardly likely; presume margin of error is considerable. The Laurel bearing does cross Waf, Caf, Saf, many countries, including Gabon. Printed sked from RB just rcvd, effective 11/11, does not even mention the fqs, or the Switz relay at 2230 on 3985! (gh)

Have been trying to figure out the latest SW mystery, R Beijing relay on 31 & 25m. Both slightly off fq, 9770.1 and 11715.2, hrd since early Nov, from *00 EG, 01 CH, 03 EG, 04 CH to 0456*, w/sat delay & some xmtr noise on 11715. Both fqs had huge 555 sigs UTC 8/11 from 0300 when 31 & 25mbs were nearly dead; only a few vy weak Eu & As stns noted and SRI 9885 barely audible, which rules out a Euro relay. Besides HCJB, the only othe stn w/555 sigs at 03 was RSA on 9580 & 11900. Propagation & strength of new RB relay seem to point to a site somewhere in the southern hemisphre, perhaps in S or CAF. Stn obviously set up in total secrecy and must be vy high power, at lest 250 to 500 kW. Fq variation rules out relay by any major existing stn in Eu or W Hem. RB relay also hrd on 11790 *23-2356* in SP w/QRM 7/11, which accounts for about 6 hours of opn per day. Q: what are they doing during the other 18 hours? (Ernie Behr, Ont, 8/11) Still no info on site, but audio sounds like Gabon relay; both about 100 Hz high 11/11; if this is via Gabon, they must have added several new xmtrs, since they also relay RFI, SRI, R Japan, all at same time. SRI relay now on 11925 to 01* but always vy weak in QRM from ZY (Ernie Behr, 11/11)

R Beijing obs on 11715 & 9770 to NAM 00-05. Tho // fqs known to emanate from xmtrs in China, they had clipped telephone-type audio w/a slight time delay. Sig strength, apx antenna bearings and prop condx indicated possible use of relay xmtrs in SW Eu, possibly Portugal (WBI 13/11) Phone calls reveal: spoxe-being at ANO says not from there. R Portugal says no as does RTE Lisbon. However, someone at REE Spain hedged, saying not 'officially' aware of any relay. Meanwhile, BBCMS says more such relays found: 16 in EG on 15130 11715; Hausa 17 on 15130 11990; and all evening in BG, PL, CZ, FR, EG, AR, MD of half hour ea starting at 18 [so to 2130??] on 9745 11790 (RNMN 19/11) If it's really in Iberia, that doesn't say much for FCC DF capability, which resulted in a position given me of 21-50-37 north, 20-56-01 W, implying far more accuracy than justified. However, another clew: back on 23/10, ironically, RN's Spanish DX program Radio-Enlace, which has close contacts in Spain, and which was the victim of QRM from this relay, reported that REE planned a relay swap with China. However, I didn't get the impression it was imminent. Perhaps a compromise to Canary Isl-ands is the answer? (gh) see also SWITZERLAND and more in LMI

[Cf Nov LN] Guangdong PBS, Canton reported 15/10: Cai Hui, Dir of Prov R & TV Bureau, gave iv to Nanfang Ribao reporter re implementation of prov regs governing admn of public TV ants. Said all govt levels promoting regs, incl cities of Canton, Haikou, prefectures Huiyang, Zhaoqing, and counties admnd by Jiangmen city; promoting reception of TV sigs from Peking & prov stns; and to deal with public antennas [does this mean antennas owned by individuals?] which do not meet new regs [i.e., pick up HK/Macau sigs]. Nanfang Ribao also carried commentary "It is imperative to grasp the administration of public TV antennas through to the end", decrying influence of bourgeois TV, corrosive influence of capitalist ideology (WBI 23/10) + lots of b.s. without really coming out and saying that the govt is trying to crack down on freedom of TV reception from outside China PR. Strange, when I was in "Canton" a year ago it seemed to be reeking with capitalism (gh)

CPBS Taiwan Svc First Pgm, Peking, apx fq usage--fqs are changed progressively over the hour prior to that shown in this sked [something I've long suspected-- about time BBCMS spelled this out -gh], in Std CH w/segments in Amoy, Hakka: 0055-0610 15710 11925 11100 [MW fqs omitted here]. 0955-1220 11925 11100 9380. 1220-1245 9380 7620 3825. 1245-1400 7620 6015 3825. 14-2220 7620 6015 5125 3825. 2220-2245 7620 6015 5125 3825. 2245-2400 9380 7620 3825.

CPBS Taiwan Svc Second Pgm, Peking, in Std CH w/segments in Amoy, Hakka: 2053-2230 6790 5090 4850. 2230-2301 6790 6095 6090. 2301-0000 9170 6790 6095. 00-0103: 9170 6095. 0353-0605 15880 11000 6095. 0605-0955 15880 11000 6095 [strangely enough for this time segment, there is no bc on Wed, but the pgms within it are 7 days, a neat trick -gh]. 0955-1015 15580 11000 6095. 1015-1215 11000 9170 6095. 1215-1803 9170 6790 6095.

V of the Strait First Pgm, Fuzhou (until Mar 84 known as PLA Fujian Front R stn), in Std CH w/some pgms in Amoy: 0954-1110 6765 5240. 1110-12 2490. 12-1754 3535 2490. 2055-2220 3535 2490. 2220-2430 5240 2490.

V of the Strait Second Pgm, Fuzhou, Std CH: 0353-1145 6400 6000 5770 4840 4330. 1145-12 4840 4330 3300 3200. 12-14 4840 4330 4130 3300 3200. 14-1405 4330 4130 3300 3200 2755 [BBCMS doesn't seem to realise that this is the 2nd harmonic of the only MW fq listed, thruout, 1377, yet shows it only during this 5 min period ! -gh]. 1405-1630 4840 4330 3300 3200. (WBI 23/10)

Zhongguo Xinwen She nx agcy, HK, reported 26/10: Fuzhou. The Fujian PBS revises its radio pgms to Taiwan, from 1/11, to help compatriots trace their roots, visit relatives and make sightseeing tours on the mainland: in revised pgms, there will be two nx reports and seven spl pgms: Natl nx, Fujian nx, Home Town & Relatives, Mail by air, Something from the bottom of my heart, The world of travel, Literature and art; all in Putonghua, but Friends of fishermen and The ancestral land of Taiwan compatriots are in dialect of southern Fujian. Svc started in Aug 1950. Is on 558, 612, 881 kHz, 00-01 & 14-17 (WBI 6/11)

Liaoning PBS, Shenyang, reported 19/10: After 4 months preparation, the economics bc stn at the prov radio stn began first trial xmsn 19/10, *2050-2330*, *0830-1215*; mainly econ nx and info, also literary, art, educ and svc pgms, on 99.8, 96.8, 95.6, 90.7, 102.6, 103.4 MHz (WBI 30/10)

C O S T A R I C A Radio for Peace International has scheduled gh's WORLD OF RADIO: Tue 2100 on 21555, UTC Wed 0300 on 7375, Fri 1900 on 21555, UTC Sat 0100 on 7375. Pgms will run a couple weeks behind WRNO due to mail delays. In mid-Nov, opn on 21555 was irregular, but strong when on; 7375 more reliable in use, but power seems to vary. Overall sked is Mon-Fri 19-22 on 21555, UTC Tue-Sat 01-04 on 7375. Still looking for a good 19mb channel which may replace 13mb (gh)

R For Peace, 21556-7v, from 2100 11/1 songs & EG talks to 2200*; terrible audio & drifting up about 1 kHz per hour. Should fix xmtr if they want any listeners (Ernie Behr, Kenora Ont)

C U B A R Moscow relay on new 6045, in EG to 0400*, wiping out DW in EG, //6000, both 555 & pinning the S-meter, 2/11; is such overkill in one band necessary? Since Sept a mix of RM & RHC in EG was hrd on 6010 & 6250 until 0400*, obviously products of 6090 & 6170, now gone, but WBI actually repled 6010 as RM fq; watch for new spurs in 49mb; RM relay also hrd on 6195 in Oct, ex-9710, in SP *2300-0400*, causing QRM to CBC; R Rebelde may have been switching error. (Ernie Behr, Ont, 5/11) R Moscow relays now also on 6095 & 7345 in EG past 0600, both 555, 8/11 (Behr, 8/11) Monitoring research 1-6 Nov: SW xmtrs in Cuba currently relaying RM EG svc: 00-04 ENAm 6045 6000. 04-05 WS 6000. 10-13 WS 6000. 1330-22 WS 11840. 22-23 WS 6045. 23-24 ENAm 6045. MW xmtrs on 1040 carries spl EG pgm "Nam Svc of RM" 12-22 Suns & alt Sats; also RMWS 21-23 Mon-Fri, alt Sats. The 4765

xmtr is hrd again carrying pgming in Russian from All Union Radio's 5th pgm for Soviet seamen and compatriots abroad. However, 4/11 to 6/11 also w/RM SP to Cuba 0130-03 (WBI 13/11)

C Y P R U S CBC, Nicosia, via BBC near Limassol, GK to UK Fri/Sat/Sun 2215-2245 on 7180 6030. Svc started 1/5/77; CBC is bcng svc of Greek-Cypriot community (WBI 23/10)

C Z E C H O S L O V A K I A CS TV, Prague, reported 2/11: Bcng of USSR's All-Union Radio began in Prague today on 1 kW xmtr on 1584 kHz. Staff of Prague radio-comm admn fulfilled their pledge for the Great October anniv w/development & installation of the eqp (WBI 6/11) Astounding this wasn't done long ago (gh)

E A S T E R I S L A N D R Sistema Nacional, Santiago, Chile, reported 27/10: From today (28/10) [sic] we will make daily contact w/Easter Island, in the 5th region, thru R Manukena, named after EI's singing bird. Our good friend, Wilfredo Reyes González, is exec dir of RM (WBI 6/11) See also ANTARCTICA

E C U A D O R AFP reported 28/10: Ec govt has suspended for 15 days all bcs from Radios Quito, Católica, and El Sol because of their refusal to join a natl govt net today during the 24h strike thruout the country, which authorities had declared illegal and political. Dirs of those stns said they'd rcvd a resolution re this from telecomms authorities this aftn. Ivan Ona, nx dir of R Quito, owned by El Comercio [sic] nxpaper, ancd this morn that the radio stn would stop bcng in view of govt's prohibition to report on 'both sides of the problem'. Net, headed by govt's R Nac, bcs offl statements and msgs from pro-govt leaders, who did not support the strike, the 6th one since Pres León Febres Cordero assumed office in Aug 1984.

Monitoring 28-29 Oct: R Quito, 4920, went off the air at 1615 28/10, reappeared betw 0106 and 0221 29/10 just to carry a pgm of sports, mainly a live relay from Montevideo. Hrd again at 1549 w/nx on Ec situation, incl nx of previous day withheld because of imposed censorship which had caused stn to close. From 2030 28/10 the Spanish svc of HCJB obs on 11960 6050 3220 continuously relayin R Nacional del Ecuador pgming, incl spl cov of events related to labour unrest. Every half hour a Vozandes ancr said "This is a xmsn ordered by the Natl Secretariat of Public Info".

HCJB in Spanish 31/10 at 1325: statement by Jorge Aguilar, pres of Pinchincha [sic] branch of Ec R Bcng Assn: In view of 28/10 events involving discriminatory and unfriendly actions by govt authorities and offls against Ec bcers, the bcers of my province unanimously decided to suspend activities from 0800 to 1100 [presumably local time] today, as strong protest against misguided actions of govt offls. This has no political overtones; solely represents our protest in solidarity against these abuses: [a] periodic closure of radio stns for diverse reasons and under diff circumstances. [b] permanent request by exec branch to set up radio nets. [c] open discrimination against country's radio stns by well-known offls. [d] discrim against radio bcers shown by forcing them to join permanent nets, because this measure not applied to other nx media. [e] use of state of emergency law to force Ec radio bcers to give one-sided nx. Those stns which didn't carry any nx reports and aired their mx pgming were in fact closed and reprimanded. In view of this, Pichincha radio bcers are goin silent as of now in a clear demonstration of its proud...protest against the govt's behaviour. Here begins the network of silence. Fellow citizens, thank you. (BBCMS ed note: Vozandes then went off the air immediately) (WBI 6/11) No such luck w/their extl svc? Hi (gh)

E G Y P T R Cairo, 11775, hrd since 29/10 at *1730-1800* EG/FR/IT IDs and abt 10 secs mx betw IDs; ancg "Experimentl xmsn" for new Albanian svc to start 4/11, requesting repts to Box 566, Cairo (Ernie Behr, Kenora Ont) Monitoring 25/10: R Cairo ES obs w/anmts in EG, IT, AB, FR "This is a half-hour expl xmsn starting at 1730 on 31mb at fq 9900. Requesting reports...new svc in Albanian from 4/11 to Box 566... (WBI 30/10) In keeping w/plans in Oct LN-18

E Q U A T O R I A L G U I N E A Intl svc from Bata, 9552.5v, from 2030 EG rel pgms, mx and NA to 2200*v, 17/10; now hrd 6 days per week, Mon-Sat; stn must be a goldmine, but I wonder if they have any listeners (Ernie Behr, Ont, 5/11)

ETHIOPIA see LMI

F I N L A N D Monitoring 27-28 Oct: R Finland ancd w/regret all its SW xmsns

'd be suspended 08-12 gmt 27 & 28/10. Break due to aerial installation work at Pori; still on LW, MW, FM (WBI 6/11) R Finland ancd 0930 8/11 that due to maintenance work at HF xmtr site Pori, only one fq to As 'd be used M-F, no further details. 1625-1715 same day ancd repeatedly in FN, SD, EG: "This is the F-B-C-. Our pgm feed from Helsinki to our xmtr base in Pori has been suspended because of tech problems. We hope to be able to resume sked bcs shortly" (WBI 13/11) Stn to be commended for explaining to listeners the exact cause of outages, unlike so many other stns (gh)

FRANCE RFI in EG: 02-0215 Eu/Am 9790 6055 5950 3965. 0330-0345 Eu/ME/Af/Am 11995 9800 9790 9550 7175 7135 6175 6055 3965. 0440-0500 Eu/ME/Af/Am 9800 9790 9550 7235 7175 7135 6175 6055 6045 4890 3965 1233. 1115-1130 Eu/ME/Af/Am 21620 17850 17620 15435 15315 15300 15195 15155 11845 11700 11670 9805 9790 6175. 1305-1315 [sic--tho in printed sked as such, actually bc at 1245--is BBCMS again copying printed info w/out so stating instead of relying solely on monitoring?] 21645 21620 21580 17850 17720 17620 15365 15315 15300 15195 15155 11845 11670 9805 9790 6175. 16-17 Eu/ME/Af 15315 11995 11705 9860 6175. The 16-17 EG is also on a 4.5 kW xmtr in Romanville for Paris area on 738 kHz (WBI 30/10)

GABON ANO, Moyabi on 5030, VG at 2155 FR 29/9 (Wesley Beck, Perth, ADXN) Sure of fq? (ADXN ed) Do not see also CHINA

GEORGIAN SSR Georgian R, Tbilisi, extl svc in GR to ME: Sat & Sun 16-1730 on 5930; and unconfirmed Tue/Thu 06-0730 on same (WBI 23/10) But fq used a lot more for domestic svc, perhaps indistinguishable to non-Georgians (gh)

GERMANY WEST DW now using 22m and OOB fqs: 13790 GM 14-1655*, vy str 24/10. 15510 *1425 IS, "BRD" ID, Urdu pgm fair 20/10 (Behr, Ont)

GREECE Radiotileorassi, Athens, reported in 29 Aug-4 Sep issue: A bill on a unified Greek bcng corp has been passed and was published in "Efimeris tis Kiverniseos" (the offl Greek govt gazette) 18/8/87, provisions of which were to become law two months later. Same pub reported 24-30 Oct: Changes introed on 24/10. Former ERT-1 (Elliniki Radiophonia Tileorassis-1) and ERT- [sic, must mean ERT-2 -gh] radio nets amalgamated into single unit, Elliniki Radiophonia, ERA, with ERT-2 renamed the Fourth Programme. Former ERT-1 net had consisted of three pgrammes. ERT-1 Thessaloniki on 1044 kHz renamed "Makedonia A" and 2 on 1179 B. Two svcs of Greek TV now known as channels ET-1 and ET-2. [I assume that's epsilon, not eta -gh]. SW relay of Thess obs on 11595 at 1000 10/1 IDing as "Greek R, Macedonian R Stn, First Pgm" (Greek: Elliniki Radiophonia, Radiophonikos Stathmos Makedonias, Proto programma). Anmt said 11595 to Eu, 9935 to Cyprus, Anatolia. Greek ES from Athens also now IDs as "Elliniki Radiophonia" but continues calling itself The Voice of Greece (I Foni Tis Elladas) (WBI 13/11)

GUAM R Australia reported 25/10: This weekend AWR will be firing up its 2nd xmtr, 100 kW. CE Don Meyers says it was used on air apx a month ago, alternating w/first xmtr to give it some time on the air, but only one at a time. Sun 24/10 planned to start using both. Instead of 8 hpd w/one xmtr, both will be 16 hpd weekdays, 20 hours on Sat/Sun. Are Thomson CSF units, TCI ants from Mountview CA, 16 dipoles in curtain, slewable plus/minus 15 degrees of boresight (WBI 30/10) Contrary to widely published sked of two xmtrs from early Sept... (gh)

GUATEMALA TGMI, R Buenas Nuevas, 4800, from 0050 SP rel pgm & hymns, many IDs to 0138*, wk but clear 8/10; 250 W from Hue2tenango Dept, but San Sebastián not on my map (Ernie Behr, Kenora Ont, 5/11)

HONG KONG ? BBC relay reptd on 15435 in Oct, but are we sure of the site? 15435 hrd 12/10 from 2300 w/EG WS to 0029*, P-F, but back after short break w/booming 555 sig 0030-0045* w/EG by R. Apparently 2 sites, and my 86 WRTH says Singapore & Masirah (Ernie Behr, Ont) Well, Dec London Calling shows HK for WS at 2245-0030 on 15435; same fq, no site for E by R following; and 15435 no longer sked from any other site at any time for WS; Cyprus to 15440. And same situation in Oct & Nov issues (gh)

ICELAND ISBS on 9986 USB, in IC *1845-1930*, G sig 22/10, began w/long list of fqs, mentd "kHz" at least 20 times, tho they have only 4 AM xmtrs; at 1900 clock chimes and IC nx (Ernie Behr, Kenora Ont)

INDIA AIR on 9910, from 0000 Ind mx, 0100 EG nx & mx to 0115*; vy strong 6/10 & other days. AIR on 15360 (my unID in Sept), hrd 16/10 from *0358 IS & FS, 0430 AR pgm to 0530*, //15135 much weaker (Ernie Behr, Kenora Ont, 5/11)

INDONESIA RRI reportd 2/11: Info Minister Harmoko has commissioned an auditorium for RRI in Palembang, S Sumatera prov. Said people looking forward to improvement in quality of electronic media (WBI 13/11) more, LMI

IRAN VoIRI on 6220, from 2030 FS pgm & mx, 2230 AR for only 5 mins to 2235* strong 7/11 (Ernie Behr, Kenora Ont) more IRAN and ITALY, LMI

JAPAN RCI SWL Digest reported 8/11: By early 1980s Yamata site had total of 11 xmtrs: nine 100 kW, two 50 kW. However, it was decided they had come to end of useful life, so in 1984 a 4-year expansion project was launched. Now, more than 60% of work has been completed, remainder being mostly concerned w/ installation of antennas. When current expansion project is completed next March, there will be total 13 curtain antennas, 4 log-periodics. W/these new units, beam directions can be easily changed and altogether 25 directions can be covered. By March 1988, Yamata stn will have four 100 kW and another four 300 kW xmtrs, two of which are made by AEG in W Germany. All the 300s are capable of SSB. Many listeners of RJ have already noticed the improved signal strength, especially w/the 300 kW xmtrs (WBI 13/11)

R Japan, General Svc in EG: 01-0130 As 17845 17835 17810 15280. 03-04 As/Am 17845 17810 5960-S. 05-06 As/Au/Am 17810 15235 5990. 07-08 Eu/ME/AF/As/Au/Am 21695-M 17810 15235 15195 5990. 09-10 As 17810 11840. 11-12 As/Am 17810=to 1130 7210 6120=S 5990. 14-15 As/Am 11815 9695 7210 5990. 15-16 Eu/ME/AF/As/Am 21700=M 11815 7210 5990. 17-1730 As/Am 11815 5990. 19-1930 Am 9505. 21-2130 As/Au/Am 17835 7280 7140 5965. 23-24 Eu/ME/AF/As/Au 15280 15195 11800-M 7280.

Regional svc in EG: 03-0330 Am 21610 17825=from 1/1 11870. 09-10 Au 15235. 23-24 Am 15300. S=Sackville, Canada (the one in New Brunswick); M=Moyabi, Gabon relay (WBI 20/11)

KOREA SOUTH R Korea returned to std time 11/10. All bcs now one hour later, e.g. 1300 utc summer bc now at 1400 (William A Matthews, Columbus OH)

CBS Seoul commentary 18/10: Christian BCin System resumes its nx svc 19/10: will produce and bc truth sincerely, correctly and fairly; and commentaries will be based on truth, Christian viewpoints and conscience. Initially, daily general nx svc at 2230, 0230, 0930, 1330; daily nx on church matters at 2130, 0330. Commentary daily 1335. Nx was suspended w/upheaval at birth of Fifth Republic in 1980 (WBI 23/10)

MACAO, LMI

MARSHALL ISLANDS WSZO Majuro, 4940, from 0510 country & organ mx, 0600 vernac & EG local nx; strong 30/10, never hrd this early before. Also 10/11 from 0500 EG nx from RA, 0511 C&W songs G (Ernie Behr, Kenora Ont)

NETHERLANDS Tho easily available on request from stn, we've had some requests to print the full sked of RN, so in this slow month here it is, effective 27/9/87 to 26/3/88; there may have been a few changes in Nov (gh)

00-0025 DT SEAs M9590 M7285. 0030-0125 DT WSAm B15315, ENAm B6165. 0030-0125 [rest 55 mins uos] PT Brasil F9895 F6020. 0130 SP NSAm F9895, Carib F6020, WSAm B15315, NWSAm B6165. 0230 EG ENAm F9895 F6020 B9590, CNAm B6165. 0330-0355 DT ME/EAf F9895, ME F 7110. 0330 SP Mex B9590, CAf B6165. 04-0425 EG ME/EAf F9895 F7210. 0430 DT WNAm B9590 B6165. 0530 EG WNAm B9715 B6165. 06 SP SWEu [aka Spain] F6110 & F6110 (2 xmtrs). 0630 EG WAF F11930 F9895. 0630 DT NZ/Au B9715 B9630. 07-0825 DT As M21485, ME/NEAF M21485 (2 xmtrs), SEEu/NE F11935, SWEu F9895 F9775, Eu F5955.

0730 EG NZ/Au B9715, B9630. 0830-0855 EG Au B9630. 0830 EG As M21485 M17575= SAs. 0830 DT NZ/Au B9775. 09-1025 DT/Papiamentu/Sranan Tongo Carib/Surinam B6020. 0930 DT/Pap/ST Carib B6040. 0930 Indo Indo M21485 M17575. 1030 Sunday DT WAF F17605, SEEu/NE F15560, Eu F9715 F5955. 1030 EG Au B9650, Carib B6020. 1030 DT EAs M21485, SEAs M17575. 1130 EG SEAs M21480, EAs M17575, SEEu/NE F17605 SAs F15560, Eu F9715 F5955. 1230 FR WAF F17605, CAf F15560. 1230 Indo Indo M17575 M15330. 1230 SP SWEu/NWAF F11930, SWEu F9610. 1330 Indo to Indonesia-west F17605 F15560. 1330 DT SEAs M17575, WAU M9505, Eu F7295 F5955. 1430 EG SAs M17575, S&EAs M11735, SAs F15560 F13770, Eu F5955, NWAF F15280. 1530 Sun DT SSAr B21540, ESAm B17605. 1530 AR ME F15560 F13770 F9860, SWEu/NWAF F5955. 1530 DT SAs M17575 M15570.

1630 Sun DT ENAm B17605, WNAm B15120. 1630 EG Eaf M15570, Saf M6020. 1630 DT SEEU F9895, SEU F9895, SWEU F9775, EU F5955. 1730 AR NEAF F9860, SWEU/NWAF F5990, NWAF B17605. 1730 DT ME/EAF M15560, Saf M6020, NWAF F11730, F9895 ME, Caf B21680. 1830 EG Eaf M9540, SAF M6020, EU F6020, Caf B21685, Waf B17605. 1830 FR Caf F15560, NWAF F11730, NAF F9840. 1930 AR NWAF F9895, NAF F9840 & F6020. 1930 FR C&WAF M15560 M9540, Caf F11740 B21685, Waf B17605. 2030 EG Eaf M9715 M9540 F11740 F9895. 2030 DT Waf B17605 B15560. 2030 SP SWEU F6020 F6020. 2130 Indo Indo M9590 M7285 (60 mins). 2130 DT Carib F11730, ENAm F9895, SEU F6020, ENAm F6020, ESAM B17605, SSAM B15560. 2230-2255 DT SEAs M9590 M7285. 2230 PT Brasil B15560 B15315. 2230 SP Carib F9895, SWEU F6020. 2300-2400 Indo Indo M9590 M7285. 2330 DT/Pap/ST Carib/Suriname F9895 F6020. 2330 SP SSAM B15315, NSAM B11715 (RN fq bureau 5/8 via Richard Lemke, Alta)

RN ancd 15180 S&Eaf EG 1830 ex-9540, Madagascar (RA JP DX Time 8/11) Oh, yeah, must explain that M=Madagascar, B=Bonaire, Neth Antilles, F=Flevoland, Holland (gh)

NETHERLANDS ANTILLES TWR Bonaire, plans special Xmas day bcs Fri 25/12 in addn to normal sked below, where possible extending usual freqs: 0530-0725 6145 50 kW 170 degrees to Brasil in PT. 1257-1400 11815 50 327 NAM EG. 14-17 15185(alt 15180). 17-19 15385(alt 15390); 50 176 Brasil PT. 17-22 15290 250 kW 160 degrees SAM SP. 19-22 15385(alt 15390) 50 176 SAM SP.

Final D87: 6145 0655-0930 Mon & 0725-0930 otherdays 50 170 Brasil PT. 6180 01-02 250 Carib SP. 9535 03-0530 Sun & Mon, 03-0430 otherdays 50 327 NAM EG. 9535 0430-0530 Tue-Sat 50 285 CAM SP. 9535 0920-10 250 148 Brasil PT, 10-1030 250 160 SAM GM. 9665 0942-11 50 176 SAM SP. 11815 1110-1257(Sun 1332, Sat 1405) 50 336 NAM EG. 15355 2325-2400 250 160 SAM GM, 00-0030 same PT, 0030-0045 Sun same SP. 15385 2155-0030 50 176 Brasil PT, 0030-0218 50 176 SAM SP (via Richard Lemke, Alta)

NEW ZEALAND RA Melbourne reported 18/10 from Auckland: latest salvoes in continuing saga of SWBC from NZ fired recently by BCNZ, the major trade union groupings and DX clubs. Next year the SW svc, RNZI, will be 40 yrs old. Two war-surplus xmtrs of 7.5 kW have been operatin since 1948, but have long since been inadequate for the task. Recently tabled annual report of BCNZ spoke out for a sustained and strong voice for NZ in Pac. Expressed concern that there are still no clear indications of govt policy or financial commitment to upgrade SW svc. At NZ DX League annual conf last wknd, RNZ's SW svcs was described as "a tin whistle that has run out of steam". This comment headlined nxpaper coverage thruout country. Role of SWBCING in current Fiji crisis also highlighted. Quite coincidentally on same day, meeting of combined state unions and Coalition for Democracy in Fiji was calling for an improved NZ radio presence in Pac w/particular reference to Fiji again. They've already suggested to RNZ Dir-Gen Beverley Wakem that relay bcs via Australia be considered (WBI 23/10)

NICARAGUA R Noticias, Managua 19/10 interviewed Msgr Bismarck Carballo, Dir of R Católica: We will formally begin to bc some nx today 19/10 at 1800 gmt after the Angelus, entitled "Inglesia" (church) [sic--an "Inglesia" would be a place where the genitals are worshipped, hi! Or if you prefer, where the English language or people are worshipped -gh]. Main goal to report church activities, world and Nic nx of the last 24 hours. We had nx until 1982; now trying to hire reporters, etc. Only half an hour at first. Still using old eqp, repaired as well as possible.

Sandinista TV reported 22/10: Interior Ministry's comms media directorate has rcvd 10 new reqs to bc nx on radio. Four private nx bulletins have been authorised. R Católica bc nx w/out previously having registered it w/IMCMD. All nx bulls must be previously registered [euphemism for censored -gh]. MD has yet to approve nx on R Católica. Registering is just a procedure w/out any political intention behind it. R Corporación has already complied w/requirement. There are 41 nx bulletins being bc of which 20 are privately run. Three newspapers and 34 printed publications of various orgs and political parties. R Mundial also nx w/out problems. Despite opening established by govt after Esquipulas accords, RF directorate has not rcvd any reqs for opening new radio stns (WBI 30/10)

more NICARAGUA and PANAMA, LMI

PHILIPPINES AFP reported 28/10 from Manila: Govt TV stn Ch 4 remained off air 28/10 after hit overnight by a fire offls said damaged 10 megapesos (\$ 484,392) worth of property. A private TV stn and four govt radio stns in same compound are bcng. GM Noel Limcaoco has not ruled out sabotage (WBI 6/11)

R Veritas Asia, non-govt, Catholic Church stn, Quezon City, ES complete:
00-0025 JP 15270 9730. 00-0030 Sinhalese 15255 11820. 0030-0055 Tamil same.
0030-01 Burmese 15225 9560. 01-0130 Bengali 15370 15330. 01-0130 Karen 15225
9560. 0130-0155 EG 15370 15330. 0130-02 Kachin 15225 9560. 02-0230 Telugu
15370 15330. 02-03 Viet 15225 9560. 10-1055 Std CH 11755 9605. 11-1125 Viet
9595 9505. 1130-1155 Korean 9650 6200. 12-1225 Indo 15240 9550. 12-1225 JP
9645 7190. 12-13 Std CH 15215 9700. 12-13 Karen 9640 6160. 13-1330 BM same.
13-1330 Telugu 15215 9700. 1330-1355 Kachin 9640 6160. 1330-14 Sinhalese on
15215 9700. 14-1425 Tamil same. 14-1455 Viet 9540 6160. 1430-15 Bengali 15215
9770. 15-1530 EG same. 15-16 Std CH 9540 6160. 1535-16 Urdu 9615. 21-2125 KR
9600 6200. 2130-2325 Std CH 9740 7190. 23-2325 Std CH 15255 11820. 2330-2355
Indo 15255 11820. 2330-2355 Viet 11925 9560 (WBI 6/11) more, LMI

P O L A N D Monitoring 19 Oct - 9 Oct 87 [sic]. Since 19/10 Polish R's First
Pgmm on 227 kHz has been bcng a pgmm "The West Calling" (Polish: Mówi Zachod")
at 0709-0725 gmt Mondays. Starts w/signature tune and recordins of IDs of PL
lang svcs of various Western radio stns and this anmt: "Fewer and fewer people
are listenin to W radio stns bcng in PL. PR is therefore going to rebc a selection
of views from RFE and VOA as well as BBC, French radio and the radio of
the FRG. We are going to present W radio stns' views w/out any comment. We have
too much respect for our listeners to suggest how these should be seen. Let ev-
eryone who is goin to care to listen to The West Calling pgm form entirely their
own view on what the W radio stns are suggesting to the Polish people and why,
what reactions they want to elicit from the Poles and what attitudes they are
propagating towards the thins that are taking place in Poland. In public life,
just as in personal, it is not a bad idea also to hear the impressions of those
who do not necessarily wish us well." The pgms continue w/intros to and off-air
recordins from, the above stns (WBI 13/11) I guess they can come up with an
average of 3+ mins a week of questionable material from these stns designed to
portray them in a bad light, but precise analysis of pgm content would be en-
lightening (gh)

P O R T U G A L R Free Afgh, 11815 via Glória, from 0230 Pashto, 0300 Dari to
0330; strong ovr jmr 9/11 & the only audible RFA fq. Perhaps this should be lis-
ted simply as R Liberty, since RFE-RL seems to deny existence of RFA; is included
in RL sked & QSLs w/std RFE-RL card, refusing to indicate "RFA"; some fqs carry
only Pashto, some only Dari (Ernie Behr, Kenora Ont, 11/11)

RDP Intl 16/10 iv w/chairman of RDP board of management (Daniel Proença de
Carvalho: We intend to go ahead w/investment in the Intl Svc, both improving
pgms and quality of xmsn net. In next two sesquieyears, going to invest about a
sesquimegacoito (1.5 gigaescudos). Our compatriots all over world deserve it,
and our communities in Port-speaking countries also demand it (WBI 23/10)

RDP Antena-1, reported 23/10: All rights acquired by RDP and R Renascença
will be safeguarded. This assurance given by PM himself following 22/10 approval
at meeting of Council of Ministers of text of BCing Bill. The proposal, which
will be submitted to Assembly of the Republic soon, will mean revoking what is
known as the R Bcing Law which was passed by the last Assembly of the Republic.
What will now be submitted to Assembly of Rep is a bill regulating the basic
framework of bcng. Licensing criteria will be defined later in a decree-law.
But irrespective of what is eventually defined by this decree-law, govt has
guaranteed safeguarding rights acquired both by RDP as a public svc and R Rena-
sçença as a private operator. Assurance publicly expressed by PM, and Asst Min-
ister Fernando Nogueira, and to RDP-1 by the minister in charge Couto dos Santos
(WBI 30/10)

EDP Intl reported 24/10: Alliance Française has confirmed that it has an FM
radio project for the Lisbon area and is only waiting for publ of new bcng law
before submitting appl to Dept of Media. Asst Secy of State who is responsible
for the media, Albino Soares said, however, that he did not hve knowledge of any
formal French-backed proposal for a radio stn. But he added this'd not be proper
since the law in force rules that only Port stns bcng in PT may be licensed
(WBI 30/10) cf FRANCE, Nov LN

RDP R Comercial reported 5/11: Officers of the Judicial Police and the CTT
[Port posts & telecomms authority] engrs 4/11 closed down five TV relay stns in
Viana do Castelo, Santo Tirso, Fafe, Moita, and Faro. Some were property of lo-
cal councils who provided local popultion w/TV pgms received on dish aerals.
Since possession of dish aerial is not illegal, police left them untouched. In
a communiqué CTT justified closedown that fqs are scarce natl property (WBI 13/11)

QATAR QBS hrd on 11820.5, in AR 1500-1555 when BBC s/on; strong since 1/11, but vy weak voice mod, ex-15265.7 (Ernie Behr, Kenora Ont, 5/11)

S A I P A N WCSN Letterbox pgm 20/10 said KYOI would be changing format fairly soon, exact date unk but slowly bringing more material. In addn to present rock mx, pretty soon a little more than that, some nx and features (WBI 23/10)

S A ' U D I A R A B I A Monitoring 3-10 Nov: xmsn in Somali obs on 15430 at 04-0453 IDing as R Jiddah (WBI 13/11)

S P A I N REE, in EG: 00-01 & 01-02 Am 9630 6125. 05-06 Am 6125. 1830-1930 Eu/ME/Af 15375 11840 9765 7275. 2030-2130 Eu 9765 7275. Multilingual in SP, Catalan, Galician, Basque: 0930-10 Am 17845 15380. 1030-11(one hour earlier in summer) Eu/ME 21575 15395 12035 11920 9875 9570. 2030-21(ditto) Eu/Af 17890 12035 9875 7450 6020. 23-2330 Am 9630. SP to Am: 02-05 9745 9630 9360 6125. 10-13 17845 15380. 1930-23 11940 9630. 23-02 15365 11945 11775 9360. There is also now a FR bc to Am at 23-24 on 6125 (WBI 13/11)

S U D A N National Unity Radio, Omdurman (formerly known as Sudan People's Armed Forces Pgmme) reported 22/10: Mr al-Sadiq al-Mahdi, the Prime Minister, issued resolution today nominating and retiring a number of dirs & ofcls in the Ministry of Culture & Info. This follows submission of a memorandum by the Deputy Minister of Culture & Info abt reorganization of the ministry. Mr Muhammad Ali Dalil was nominated permanent secretary in the MCI, Mr Salih Muhammad Salih Dir-Gen of radio, and Mr Ahmad Ali Badr al-Din dir-gen of TV. In the public interest, the following were retired: Faysal Mahmud Khadir, permanent [sic] secretary in the MCI; Uthman Muhammad Nasr, Dir-Gen of Dept of Info; Muhammad Sulayman Bashir, dir-gen of radio and Ahmad Isma'il Shaylab, dir-gen of dept of culture (WBI 30/10) see also CRANNY

S U R I N A M E RSI ancd in EG 19/10: Frm 2/11, 17835 ex-17755 (WBI 23/10) 17838, Mon-Fri 17-1745 incl 1705-1715 nx in DT, 1730-1740 nx in EG; via Brasilia (WBI 6/11)

S W E D E N RSI, in EG: 0230 Au/Am 11950=usb 9695. 0330 ME 11705. 0930 Eu/Af/Au 15390 9630. 11 Eu/ME/Af 21690 9630 6065=not Sat/Sun. 1230 As 15430 9565. 14 Am 15345 9695. 16 Eu/Af/As 11940 6065 1179. 1830 Af 11845. 21 Eu/Af 9700 6065 1179. 23 Eu/Am 9695 6065 1179 (WBI 6/11) Last one had been ancd on 6045; I guess upped to 6065 due to Moscow/Cuba (gh)

S W I T Z E R L A N D R Beijing began 1/11 daily relay of ES from two xmtrs here. On 3985: 21 GM, 2130 FR, 22 IT, 2230-23 EG. 6165: 21 Std CH, 2130 Serbo-Croat [or as they say at KVOH, Serbo-Creation -gh], 22 SP, 2230-23 PT. But 6165 is marred in UKOGBANI by RHCuba in FR & EG to Eu [Soviet relay, I think -gh]. Both 6165 and 3985 are used until 2045 by SRI to Eu; had been to 2300 w/GM DS. These RB bcs are in addn to those at other times from China xmtrs (WBI 6/11)

Red Cross Broadcasting Service, in EG: 0310-0327 1/12, 4/12, 29/12, 1/1, 2/2, 5/2, 1/3, 4/3 to Am on 12035 9885 9725 6135. And one UTC day earlier at: 0740-0757 Au 11695 17830 9885 9560; 1040-1057 As on 17830 15585 15570 11935; 1310-1327 As 21695 17830 15570 11955 and via China 15135 11695. (WBI 13/11) i.e. Mon/Thu

S Y R I A R Damascus sked effective till 5/12: 04-09 12085 NAF/ME. 04-0830 15090 WEU/NAF. 09-15 15090 NAF/ME. 13-14 12085 EEU/USSR; 15-17 11625 NAF/ME. 18-1830 9950 EEU/USSR/ME. 1835-2105 12085 11625 WEU/NAF; 2110-2210 11625 ENAF; 2110-2210 12085 EAU; 2215-0015 9950 11625 CAM/SAM. Power is 500 kW (Nov Australian DX News)

T H A I L A N D R Thailand, 9655.5, from 1400 EG ID & JP pgm, 1420 EG ID & Burm? to 1450*, weak sig and QRM 10/10; sounds like 10 kW per DXLD-16 (Ernie Behr, Ont)

U S A [See also COSTA RICA] WORLD OF RADIO now sked on WRNO: Thu 1615 on 15420, UTC Fri 0130 on 7355, UTC Sat 0400 on 6185, UTC Sun 0030 on 7355. It is hoped that once the football season is over in Jan, a Sunday morn/aftn time can be resumed. (gh) WRNO on 6185 w/WoR 7/11 at 0400 was barely audible & almost wiped out by R Educaci3n w/orch mx; amazing what 1 kW can do to a much closer 100 kW stn on same fq. Noted KCBI back on 11735 since 30/10 (Ernie Behr, Ont) Weekends FCC approves use of 13 MHz band for private SW radio stns. Exc from

WORLD OF RADIO report on WRNO, 0030 15/11: The 13-MHz band has finally opened up for US shortwave stns. Blazing the way was WYFR which has appeared on 13695 kHz, altho their sked says 13690... Other private US SW stns on the 13 MHz band should follow shortly; 13760 khz is the fq chosen by George Jacobs w/approval of the FCC for a couple of his clients. WRNO plans to switch to that fq as soon as possible, between 22 and 24 UTC, replacing 9495. It can also come up an hour earlier at 21 if necessary for continuous football coverage. It's also available Sundays at 14-16 when WRNO is currently not on the air [sic, it is, too! -gh], instead of 11965. Also WHRI plans to use 13760 betw 18 & 21. It's not available west of the Mississippi, however, for KUSW (WBI 20/11) I'm pleased that after all these years BBCMS has finally found somethin suitable for quoting from WOR and hope this represents a new policy (gh)

Engineering sked from WYFR shows interesting new fqs not shown on published pgm sked: 5945 1145-1545 & 2245-06. 7440 1045-1445 & 2345-07. 13690 1145-2345, 15460 1445-2345, 17612.5 1145-2345, 17640 1545-1645 (Bob Padula, RA JP DX Time 15/11) I thought they were on 5950 (gh)

PANA nx agcy, Dakar, reported 23/10 from Monrovia: Worldnet, daily satl TV svc from USIA, is to extend xmsns to 6 Af countries, incl Liberia, from 28/10. "Afnets" will be aimed at Liberia, Ivory Coast [sic], Congo, Nigeria, Gabon, Niger w/xmsns in EG/FR; later extended to Botswana, Guinea, Somalia, Tanzania, and by end of 1988 most other Af countries, per USIA release 21/10 (WBI 30/10)

U S S R Monitoring 2-7 Nov of radiobehaviour during celebrations of Oct Rev anniv: 0650 2/11, all pgms of All Union R obs to link to cover a live relay of a speech by Gorbachëv at opening of a week of celebs for 70th anniv. Xmsn hrd on total 57 SW fqs betw 21 & 4 MHz bands, and on LW, MW. Also hd w/simultaneous xltin in EG, FR on RM ES. 0650 7/11, comtry in RS on parades in Red Sq obs on 47 SW fqs. Comtry in EG & FR by RM ES. Anmt by RM said also simlir bc in Std CH (WBI 13/11)

V A N U A T U R Vanuatu, Port Vila, of Vanuatu Dept of Media Svcs; all pgms one hour earlier than shownduring summer time. ITU THFBS D87 shows 10 kW on 7260 but fqs we give are 3945 1125 98.5 98.0: multilingual, 18-1015 (Sun to 09) incl EG nx: 19-1913 relay R Australia; 21-2109 exc Sat relay BBCMS. 00-0030 M-F nx in Bislama, EG, FR; 0030-01 daily current affairs pgm in BS, EG, FR. M-F 08-0815 local & world nx. Other pgmms: 1930-20 anmts [lang not given]. 20-2005 FR nx relay of RFI; Wed 2115-2145 Red Cross pgm in BS. Sun/Tue/Thu 2115-22 mx & Pac nx heads in BS. 2130-22 Sat Our Island nation in BS. 2230-23 Sun-Fri anmts & shipping nx. 2230-23 Sat repeat Red Cross pgm in BS. 23-2315 Sun-Thu FR nx relay RFI. 00-0030 Sat lcl & world nx in BS. 0530-06 anmts & shipping nx. 06-07 Sun About the Pacific in BS; 0630-07 Sat Review of the Week in BS; 07-0730 local & world nx in BS. 09-0915 M-F lcl & world nx in FR (WBI 13/11)

V A T I C A N VR reported in Polish 27/10: Today is 30th anniv of inaug of VR relay stn in Santa Mariadi Galeria near Rome. Now 500 KW xmtr w/own rotatable aerial, all in an area of 440 ha. Is largest rotaerial in world for MW xmtrs. Now another even larger one is being set up next to existing one. This increase in output power of VR is linked to expansion of our stn's pgmms. (WBI 6/11)

VR in EG: 06-0620 Eu 9645 6185. 0730-0745 Mon-Sat in 4 Voices pgm on 11740 9645 6248. 1145-1152 Mon-Sat in 4 Voices Eu 11740 9645 6248. 1445-15 Eu 11740 9645 7250 6248. 1615-1622 Mon-Sat Eu in 4 Voices 11740 9645 7250 6248. 2003-2006 Mon-Sat in 4 Voices Eu/Af 15120 11700 9645 9625 7250 6248 6190. 2050-2110 Eu 9645 7250 6190. That's on Eu pgm One. Overseas svc: 0050-0115 Am 11780 9605 6150. 0310-0330 Am 6150. 05-0515 Af 15190 11725. 0615-0630 Mon-Sat Af 17730 15190. 0715-0730 Mon-Sat Af 15190 11725. 1115-1130 Af 21485 17840. 12-1215 Af 21485 17840. 12-1230 Mon-St As/Au 17865 15190. 1448-1454 As 17870 15090 11960. 1545-16 Af 17730 15120 11810. 2045-21 Af 15120 11760 11700 9625. 2205-2230 As/Au 11830 9615 6015. Af xmsns include items in Swahili, Luganda, Madhi, Hausa, Igbo or Yoruba (WBI 20/11)

V E N E Z U E L A Cadena Venezolana de Radiodifusión. To complete Brouillette's info in SWN 4/87 on R Yaracuy, ex-4940 kHz: Some of you may ask why the last 4 yrs every SW outlet of the CVR network, "circuito sin fronteras," disappeared. First R Universo and R Cristal, then R Lara and R Juventud; finally, R Barquisimeto and the San Felipe chain-stn R Yaracuy. When I visited Barq I had a very interesting chat during lunch w/Rogelio Martinez, son of the net's administrator. He told this story: When the circuito was established many years ago it was one of the most modern studio and xmtr plants in the whole of LAm. It still is an en-

ormous bldg, where 100+ people work. For many yrs, Venez has been one of the richest countries in the world. Many people from all over the world made their way to Venez to work in petrol industry or to set up enterprises, stores, etc. When the oil crises started at the end of the 70s this country was highly affected and its economy went thru hard times. The bolivar was devalued from two per US\$ to 12 (now it's reached 30). Stns owners didn't make as much profit as before and started to investigate on how they could save some expenses. The monopoly situation the chain has in Barq allowed them to do on the 'media market' what they liked to do. Per Venez law, 100 kiloinhabitants of an area give rise to a new radio stn. Barq has apx 700 ki and therefore 7 licensed radio stns from which 5 belong to same family. Bolívar lost value on intl markets and as owners didn't want to reduce their living stds which allows them to pass a great deal of the year in Florida, they didn't invest a single bol in their stns. They only tried to get as much money out of the stns as possible. Quasi-monopoly situation favored them. As last resource [sic] to save money, someone came up w/ idea to switch off the SW xmtrs some years ago. Tech eqp of stns is workin well; there are no crystals blust [sic] or anything else. Guards at xmtr plants do all the maintenance work and everything is in good condx. Xmtrs simply are silent because owners want to save cost of electricity. Responsible for that is Mrs. Ligia Villanueva, Dir of chain. R Juventud even had to switch off a shortly before installed FM stereo xmtr which was only low power, for financial reasons. Sr Carlos Rodríguez Maza, Dir Administrativo de Radio Yaracuy in San Felipe, and a vy nice chap by the way, told me he rcv'd the order to switch off the SW from Mrs Villanueva, because they had found out electricity for 10 kW SW outlet costs as much as salaries for 12 stn workers. Minimum salary is 1900 bs (as of Oct 1986 = US\$ 80). When you receive ltrs from workers at the stns saying they are off the air, please take into acct that it's much easier for them to blame the poor tubes than to blame their chief who is only interested in toasting his [sic] lazy bones in Miami or wherever. At R Juventud the chaps, who are vy engaged and in love w/their radio stn, try to take over the stn on a 'cooperative' basis, offering the owner-family the same profits they can now get out of the stn, but doing all the management on their own. I believe this would be the only possibility for the stn to get back on SW and FM. As far as I know, no contract has been signed on that matter yet. I believe the history of many other Venez SW outlets is quite similar. But there are exceptions. Some stns are on SW for 'traditional' reasons. When the grandfather has founded the stn and has been one of the radio pioneers of the country, it is quite hard to let it all run down. There are still some stns which are run by owners as a matter of tradition, hobby entertainment, relaxation, tho it is also a good business at same time. To mention only a few in this category: Ecos del Torbes, R Táchira, LV de Carabobo (Michael Smitz, August DSWCI SW News)

V I E T N A M VOV, Hanoi, DS: 2145-01(Sun to 04+) on 10060 6450 4895. 04-0630 12035 10060 6450 4895. 09(Sun 08)-16 10060 6450 4985[sic twice]. Viet People's Army (VPA) pgm daily 2330-24, Sun-Fri 12-1215, daily 14-1430. Great Family of Viet nationalities Sun-Fri 1315-1330. Pgm for overseas Viet nationals daily 1530-16. Regional radio: pgms in Viet, Montagnard and/or tribal langs; all fqs and times vary. Bac Thai 6815 0330-0530, 1130-1330. Cao Bang 6563 12-14. Gia Lai Cong Tum [sic] 4702 23-2330, 03-0430, 1030-14. Hanoi City 7990, 6850 at 2330-24, 1030-1330. Hoang Lien Song 6735 5610 at 00-0030, 10-1030, 12-13. Lia [sic] Chau 6020 [sic--inband, imagine that!] 04-05, 1110-1330. Lam Dong 4413 0930-11, 1130-1230, 2230-23. Nghia Binh 4712 04-0530, 1050-14, 23-2330. Phu Khanh 5140 1030-1230. Son La 6330 4770 0230-05, 12-14. Than Hoa 4885 1030-11. Ha Tuyen 4820 2330-0030, 12-1330 (WBI 30/10)

Z A I R E AZAP nx agcy reported 12/11 from Goma: Kivu region will soon have a rural radio stn. Work on bldg xmtg centre will start in Jan 1988. Eqpd thru Canadian coop and built by nongovt'l orgs based in Kivu, the rural radio will become opl in Jan 89. Pgms produced in 4 centres, Bukavu, Goma, Uvira, Butembo, and will deal mainly w/promotion of rural activities and ag projects (WBI 20/11) Let us hope SW is involved (gh)

Z A N Z I B A R RTZ on 11734.2, from 1700 SH nx from Dar es Salaam, 1715 EG lesson, 1730 SH talk & mx, 1800 SH nx from Zanz & talk to 1832* abrupt s/off 25/10; one day to 1843*; often strong and clear on LSB, even after KCBI returned in late Oct (Ernie Behr, Kenora Ont, 5/11)

DESTINE CRANNY La Voz Popular Monitoring 10/10: This URNG stn hostile to Guat govt, hrd again 15 xmsn Sat 10/10 on 6950. 17/10 was switchin between 6960 and 6910 (0) 6950 USB Sat UTC 10/10 *0016-0042*, P w/RTT QRM: SP talk w/non-ch mx on top, which was apparently part of pgm but had same effect as URNG on 9965 USB, hrd 25/10 at *1300-1401*v, long list of numbers SP nx, also at *0100-0125*v; no longer at 1200 (Ernie Behr, Ont) LVP utc Sat 14/11 -0052* apx on 6965.2, no ID hrd at s/off (gh, Enid OK)

lor Music Jammer, 5898 USB, was here one night, UTC 5/10, at 0255-0307* many calls for "Combatientes de la FMLN" to stop fighting; was not MHz where they usually jam R Venceremos; R Liberación was on 5889.1 (Ernie Behr, Kenora Ont)

Free Sahara pgm presented by Polisario Front thru Algerian R, 22-23 is n 15215 9640 927; untraced on 576 kHz. Associated stn, National R of the rab Democratic Republic, is now hrd on 1355 kHz until 2300; pgming dur-tour of xmsn 19/10 was in FR (WBI 23/10)

in Latuka [a language?] at 1100 14/10: Major Salva Kiir Mayar Dit, Commander of SPLA forces in southern Blue Nile, yesterday disclosed to se people over SPLA radio that the jamming of SPLA radio by the Sudan sign of defeat. Said Khartoum govt didn't want Sud people to get fo about what is going on in the bush and in the country (WBI 23/10)

ity Radio from Omdurman, monitoring 19/10: Stn previously referring as Sudan People's Armed Forces Programme, hrd openin 1300 AR xmsn 19/ new ID; ancd xmsn span 13-15 in 3lmb. First hour was bc on 9560. At :ched to 9555, just vacated by anti-govt stn R SPLA (WBI 23/10) v SUDAN

ish Communist Party, 7335, in TK 14-1448*v; Bizim R in TK 15-1548*v, .rong over CHU; must be hi power (Ernie Behr, Kenora Ont) d 14/11 0900 in TK: TCP Central Committee Secy Genl Haydar Kutlu, .Workers Party Secy Genl Nihat Sargin, who have been livin abroad as e refugees, will be returnin to Turkey in the near future, to start le-ctivities of the Turkish United Communist Party, which'll be formed : of the merger between TCP and TWP. We are entering a new phase in mvmt as well as in our struggle for democracy. To bring about suc-cess phase, VTCP has decided to end its bcs as of 16/11/87. Dear listen-ers the TCP thanks all those who have listened. We wish all of you suc-cess struggle for a stronger legal communist party and a democratic Turkey. our warmest greetings.

ing research 15-18 Nov: aftn, early eve 15/11, VOTCP pgms bc as normal 18 on 7335. 16/11, only tone on fq at sked times. Had been from SW ved to be in GDR, since 15/12/74 the origins date back to pro-commie on 904 which began bcs to Turk workers in W Germany in 1968. However, (Turkish: Bizim Radyo), which also supports the TCP and which shared ities w/VOTCP, continues being normaly, obs at 08, 11, 12, 15 on 16-18 5 (WBI 20/11)

Iran's Flag of Freedom (Kaviyani Banner) Radio Monitoring 23-26 Oct: stn hos- tile to Khomeyni and Iran govt, ancd 23/10 that from 26/10 its 1630-1830 xmsn'd be bc on 9035 and 7080; 9035 ex-15555; confirmed 26/10 (WBI 30/10) 15555 from *1631 mx IS, FS/EG/FR ID, Farsi pgm & songs to 1825*; strong sig 7/10 via Egypt (Behr)

R Iran, 9400.1, from *1830 song, "Radiyo Irana" ID & Farsi pgm to 1923*, vy strong 12/10; same xmtr as V of Unity & Flag of Freedom (Ernie Behr, Ont, 5/11)

V of Mujahadeen -e-Khalq is on 7130 and 5995, not 7125 and 5990 [cf Nov LN] (Dr Supratik Sanatani, Calcutta) ICF-7600D-it is hi (gh)

V of National Salvation Monitoring 13-14 Oct: Stn favouring reunification of Korea from N Korean point of view, has increased xmsn hours, now obs in KR: 03-06 & 20-23 on 4557 1053; 10-1630 on 4557 4120 1053 (WBI 23/10) First hrd 26/8/70 & known as V of Revly Party for Reunif til 15/8/85: Korean name is now: Kugukui Sori Pangsong. Xmters believed in NK. During summer time in SK, pgms will be one hour earlier (WBI 30/10)

306.41
Hugh

LAST - MINUTE ITEMS AFGHANISTAN Monitoring 11-17 Nov: Like

many stns, RA altered some fqs from 1/11. Eu in Pashto/Dari 1730-1830, GM 1830-19, EG 19-1930 now on 6020 4760, both believed from USSR xmters (WBI 20/11)

CHINA Monitoring 8-18 Nov: R Beijing obs w/ES xmsn on addl fqs: 16-17 EG, on 15130 11715. 17-1730 & 1730-18 Hausa 15130 11790. 18-Bulgarian, 1830 Polish, 19 Czech, 1930 FR, 2030-2130 EG, 2130-2230 AR on 11790 9745. 2230-23 Std Chinese 11790 9745. 23-24 SP 11790 9665. Xmsns delayed apx half second behind others known to originate simultaneously from xmters in China; except Polish where no known fqs from China. Southerly ant bearings from UK tentatively indicate relay site outside China. Previously reported xmsns continue, likely from same site (WBI 20/11)

I asked FCC for further DFing of the 16-17 xmsn on 11715, Sunday 22/11. Several US FCC sites agreed on a point in the central Pacific near the intersection of the Equator and the Dateline. This seems highly unlikely, but perhaps they were getting longpath signals actually from the antipodal point, which would have been around Lagos, Nigeria, give or take a few countries, as any precision at such a distance is not possible. One FCC monitor speculated it was VOA-Monrovia! At presstime, the mystery continues. I have not bothered trying to find out from the China Embassy in Washinton, as would likely run up largephonebills and find out nothing. Besides, it's more fun trying to pinpoint this w/out any help from the Chinese! (gh)

ETHIOPIA Monitoring 20-Sept-17 Nov: Since declaration in Sept of Eth as the PDR of Ethiopia, the natl radio stn has been IDing as V of Ethiopia in DS & ES; since 1977 had been V of Revolutionary Ethiopia (WBI 20/11)

INDONESIA RRI Ujung Pandang using alt 4753, their daytime fq, for local eve bcs; believe also daytime 50 kW xmt, ex-20 kW on 4719. Sigs are much better than 4719 here (John Bryant, OK, Indonesian DX Review Oct). RRI Gorontalo drifted or moved down to 3264.65 now (ibid.) RRI Nabire hrd again on 6127 at 0900v* // 5055, first noted 6/9 (H Ishii, Japan, ibid.) Since mid-Sept, RRI Surakarta AN "Wayang Kulit" pgm every Sun morn; usually to 1705 v* (ibid.) RRI Surakarta, 4932 has local nx in Javanese 14-1405 daily (Y Ichikawa, ibid.) RRI Gorontalo, 3265, Javanese 1130-12 daily; ancd for Jav families in transmigration area in Kabupaten Gorontalo; also Gorontalo has nx in local dialect from 1015 (ibid.) RRI Medano [sic] and RRI Gorontalo have "Siaran Pedesaan" from 0930 (ibid.)

IRAN Monitoring 10-17 Nov: VOIRI obs on 4990 DS in Persian 0230-2030 (WBI 20/11) Seems to me reported by DXers quite some time before then (gh)

ITALY RAI in EG: 01-0120 Am 11800 9575 [gee, I thought they were on 5990 ex-11800 as usual for winter =gh]. 0350-0410 As 15330 11905 9710. 0425-0440 Eu/ME 7275 5990. 1935-1955 Eu 9710 7290 7275. 22-2225 As 11800 9710 5990 (WBI 20/11) Occhio! More EG to Japan than to NAM!!! (gh)

MACAO RDP Intl, Lisbon, reported 13/11: Teledifusão de Macau is highly likely to be opd by multi-millionaire Robert Maxwell; soon w/channel in Cantonese which will hve good reception in HK. Ed note: at present TDM believed to bc on a single ch in PT, CN, EG (WBI 20/11)

NICARAGUA La Prensa reported 9/11: Despite expiry of deadline for complying w/Esquipulas-2 agmts, R Corporación has not been able to bc its nx because Interior Ministry has not given offl answer to stn's dir. RC sent ltr 13/8 asking permission to bc nx and to date "no ans" says stn dir José Castillo Osejo. (WBI 20/11)

PANAMA Crítica reported 7/11: inaug of modern and powerful radio stn R Mensabe [sic] in Las Tablas was complete success. 5-kW stn owned by legislators Francisco Javier Solís and Magdalena de Durán and businessman Ananias Amaya (WBI 20/11)

PHILIPPINES Evening JP svc of RVA on 9500 ex-9645 from 21/9, at 12-1225 // 7190 (S Wakisaka, Japan, IDXR Oct)

REVIEW OF INTERNATIONAL BROADCASTING #121 now available from gh, \$2 in NAM....

QSLs

Sam Barto 47 Prospect Place, Bristol, CT 06010



ADMIRALTY ISLANDS: Radio Manus ltr. in 34 ds. for 2 IRCs. v/s Raphael Karahure, Station Manager. (Onley).
ALGERIA: Radio TV Algeria 17745 f/d "Persian Carpet" cd. in 19 mo. for ms. (Eckert-PA).

ANGOLA: Radio Nacional de Angola 3375.6, 4952.7 and 3354.7 3 f/d cds. in 7 wks. for a PT rpt. v/s Emanuel Louro. (Barto-CT).

ASIATIC RUSSIA: Radio Moscow 9795 via Komsomolsk-on-Amur f/d "Razin Street and the Rossiya Hotel" cd. in 68 ds. (Archer-NC). 13640 via Khabarovsk f/d "Bolshoi Theatre" cd. in 49 ds. (Archer).

AUSTRALIA: Radio Australia 5995 f/d large color cd. of "Koala Bears" in 18 ds. Sticker and schedule rcvd. (Van Horn-FL). BBC 15395 via ABC n/d external services cd. in 141 ds. (D'Angelo-PA).

AUSTRIA: Radio Austria International 11660 f/d "Costume from the Walsertal Valley" cd. w/ stickers in 30 ds. (Edwards-OH). f/d "Traditional Tyrol Costumes" cd. in 56 ds. w/ schedule. (Levison-PA).

BELGIUM: BRT 9925 f/d cd. in 35 ds. w/ schedule. (Levison-PA).

BONAIRE: Trans World Radio 9535 f/d "Studio" cd. w/ schedule and sticker in 25 ds. (Arland-PA).

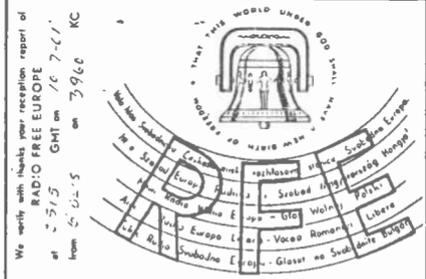
BRASIL: Radio Bandeirantes 6185 f/d ltr. w/ sticker in 72 ds. for a PT rpt. and ms. v/s Salomao Esper. (Van Horn). Radio Inconfidencia 15190 p/d folder cd. w/ business cd. in 17 ds. after a f/up rpt. in PT for US \$1.00. (Buer-FL).

BYELORUSSIAN SSR: Radio Moscow 15540 via Minsk f/d cd. in 7 wks. (Allen-OK).

CANADA: CHNX 6130 f/d "Greetings from Nova Scotia" cd. in 10 ds. for 1 IRC. v/s Ken Arsenault, Chief Engineer. (Brouillette-IL). CFRX 6070 f/d "ANARC Limited Edition" cd. in 73 ds. for ms. v/s Terry Colgan. (Lare-MI), same in 73 ds. for ms. (Archer). in 76 ds. for a special ODXA/ANARCON broadcast. (D'Angelo). f/d "Twin Comanche Plane" cd. in 9 ds. (Edwards-OH). RCI 9755 f/d "Hockey - Olympics" cd. in 2 wks. v/s Judith Sauve, Audience Relations. (Brouillette-IL).

CHINA, PEOPLES REP. OF: Radio Beijing 11855 f/d "Laughing Buddha" cd. in 28 ds. w/ decal and cassette recording. (Eckert). BPM 10000 via Shanxi-Lintong f/d "Clock Face" cd. in 22 ds. v/s Qi Guarong, Chief of the Science Section. (Ponder-LA). Voice of Jinling 4875 via Nanjing p/d "Zhonghua City Gate" cd. in 38 ds. for US \$1.00. (Davis-NM).

COSTA RICA: Radio for Peace International 7380 * f/d blue and white "Logo" cd. in 8 ds. Rcvd. QSLs from both addresses: Sweet Home and Costa Rica. (Gavaras-MN).
CUBA: Radio Rebelde 5025 p/d cd. w/ ltr. and a red and white pennant in 98 ds. for a SP rpt. (MacHarg-IN).
CZECHOSLOVAKIA: Radio Praha 7345 f/d "Fountain" cd. in 2 mo. w/ report forms. (Wallace-MA). 11990 f/d cd. in 77 ds. (Levison-PA).
ECUADOR: HCJB 15270 f/d cd. in 48 ds. (MacHarg). 17790 f/d "50th Anniversary card of the Swedish Service" in 2 mo. for US ms. (Wallace-MA).
EUROPEAN RUSSIA: Radio Moscow 15490 via Tula f/d "Razin St." cd. in 68 ds. (Archer). 11980 via Zhiglevsk f/d "Sherry Lynn" poster cd. in 2 mo. (Wallace). 7400 and 9450 via Moscow f/d cd. in 2 mo. (Wallace). 5940 and 7165, 11980 and 11675 via Armavir f/d cds. in 2 mo. (Wallace).
FALKLAND ISLANDS: FIBS 3958 prepared cd. w/ ltr. and patch w/ stickers in 12 ds. Rpt. went to the BFBS. v/s Mike Robertson (G3USX). (Archer-NC). p/d cd. in 1 1/2 mo. for ms. v/s Paula Brown, Broadcast Secretary. (Wallace).



NOTES: Received a nice letter from Mike Hardester in North Versailles, PA. He was very pleased with the recent QSL from Radio Free Grenada. He credits his good luck to a tip from Dan Sheedy. Also received letters from Marlin Field commenting on the QSL Column in general and from Andy Wallace about Radio Moscow and their QSL policy. Al Muick who is now stationed in Huntsville, AL drops us a line to say hello. Finally, Michael Schmitz in West Germany sent a detailed letter describing the beautiful pennant he just received from Radio Andina in Peru. Thank you for your correspondence...Sam.



GABON: Africa No. One 15475 p/d "Logo" cd. in 402 ds. for a FR rpt. and ms. (Brouillette-IL).
GERMAN DEMOCRATIC REP: RBI 9730 f/d "Dresden" cd. w/ schedule in 71 ds. (Levison). f/d cd. in 70 ds. (Levison).

GERMANY, FEDERAL REP. OF: Deutsche Welle 6130 n/d cd. in 28 ds. (Arland-PA).

GREECE: Radiofonikos Stathmos Makedonias 11595 f/d "Palaistra" cd. in 2 mo. for 2 IRCs. v/s D. Coussides, Director. (Wallace-MA).

Radio transmission of peace in 5 languages.

GRENADA: Radio Grenada 15045 n/d personal ltr. in 18 ds. v/s George Grant, Station Manager. (Allen-OK).

HONDURAS: La Voz de la Mosquitia 4910 f/d ltr. w/ pennant and brochures in 34 ds. for ms. v/s Sammy Simpson, Executive Director. (Ponder-LA). f/d prepared cd. w/ pennant in 46 ds. Addr: Global Outreach, Box 1, Tupelo, MS 38802. (D'Angelo-PA).

HONG KONG: BBC East
 * Asia Relay Station
 7160 f/d "Fireworks at a Chinese New Year Festival" cd. in 1 mo. v/s Phil Sandell. Addr: BBC, East Asia Relay, Hong Kong. (Gavaras-MN). n/d "Satellite Dish" cd.



The following Soviet postage stamps were sent to us via Neil Carleton in Ontario...Thanks.

in 39 ds. for 1 IRC. v/s D.J. Corbett, Chief Engineer. (Davis-NM). 15435 n/d "Aerial View of Kowloon Peninsula" cd. in 1 mo. (Rigas-IL).
ICELAND: ISBS 11733 f/d cd. in 6 wks. (Barto-CT).
INDIA: All India Radio 4800 via Hyderabad f/d cd. in 1 mo. w/ schedule for 2 IRCs. (Allen-OK).

IRAQ: Radio Baghdad 11705 n/d ltr. w/ veri typed on an Iraqi travel brochure in 81 ds. (Ponder)...Sounds like my ham QSL on an American Samoa license plate..Ed.

ISRAEL: Kol Israel 11610 p/d cd. in 64 ds. (MacHarg).

JAPAN: JYJ 8000 f/d cd. in 5 wks. (Barto). Radio Japan 15300 n/d "Autumn Scene" cd. in 24 ds. for 1 IRC. (Brouillette).

JAVA: RRI Yogyakarta 5046 p/d cd. in EG in 27 ds. after 4 f/up rpts. in IN w/ ms. (Allen).

KARELO-FINNISH SSR: Karelian Radio 4780 f/d prepared cd. in 84 ds. for an 84 reception.

* Quite pleased w/ this one! Can't blame you for feeling that way. (D'Angelo). #SZc Sam.

KAZAKH SSR: Radio Moscow 9610 via Alma-Ata f/d cd. in 13 wks. for a SP rpt. v/s Manolo de la Rosa. Also rcvd. SP rpt. forms. (Allen)...Kirk says he will be happy to xerox a copy of the SP forms for a SASE to Rt. 1, Box 108A, Newkirk, OK 74647...Sam.

KENYA: Voice of Kenya 6075 via Koma Rock f/d ltr. in 2 mo. (Barto).

KIRZHIZ SSR: Radio Moscow 11665 via Frunze f/d cd. in 68 ds. (Archer).



Radio tower and A.S. Popov Museum

VERIFICATION SIGNERS: KNLS 11820 Ann Bailey, Secretary. Ecos del Atrato 5020 Gaitan Efrain O., Director General. La Voz de Yopal 5050 Lilia Silva G., Secretaria. Radio Tarqui 4971 Hernan Herdoiza Leiva, Gerente. RRI Padang 4002 Drs. H. Syamsul Muin Harahap, Kepala. MBC 3380 H.R. Chirwa, Head of Production. La Voix du Sahel 5020 Yacuba Alwali. Radio Oman 15385 Rashid Haroon, Head of Radio Maintenance. Radio Onda Azul 4801 Mauricio Rodriguez, Director. Radio Stella International 7315 Jock Wilson....via Monferini and PLAY DX....Sam.

I've got a free RCI vinal pennant for anyone sending a SASE and requesting the free pennant....Sam.



KIRIBATI: Radio Kiribati 14802 f/d "Sunset" cd. in 270 ds. after a f/up rpt. for 2 IRCs. v/s Mrs. T. Paenui. (Cones).

LAOS: Lao National Radio 6130 via Vientiane f/d "Logo" cd. in 1 mo. (Rigas). same in 8 mo. after a f/up rpt. (Lare-MI). 15190 f/d cd. w/ site in 3 mo. (Barto-CT). 15420 and 11960 f/d cd. w/ schedule in 86 ds. (D'Angelo-PA)...Most DX publications say that the actual transmitter sites for the 31 meter band frequencies and above are located in the USSR. This may be so. QSLs list the site as Vientiane...take your pick.

LITHUANIAN SSR: Radio Vilnius 7260 f/d cd. in 3 mo. w/ schedule. (Wallace).

MANCHURIA: Helongjiang PBS 5950 via Harbin p/d cd. w/ personal ltr. in 35 ds. Sticker rcvd. (Allen-OK).

MAURITANIA: Radio Mauritanie 4845 f/d "Map/Logo" cd. in 59 ds. for a FR rpt. and 3 IRCs. This after 7 reports! (Davis-NM).

MONACO: Trans World Radio 7105 f/d "Map" cd. w/ pennant in 47 ds. (Van Horn-FL).

NEW BRITAIN: Radio West New Britain f/d ltr. in 48 ds. v/s Simon Muraga, Station Manager. (Onley).

NIBI-NIBI: Radio Nibi-Nibi 7123 p/d cd. in 2865 ds. for 29 IRCs and 12 f/up rpts. (Arland)...What do you want? Its that season of the year. Rich...You've been bending your elbow with too many toasts. Hi!

MORE VERIFICATION SIGNERS: Radio Panamerica 6105 Daniel Sanchez Rocha, Sub Director. Radio Burundi 3300 Mr. Laurent Ruikumwani, Le Directeur Technique de la Radiodiffusion Nationale. Radio Cultural 3300 Robert Rice, Chief Engineer. Radio Madre de Dios 4950 Javier Aniz. Turkish State Meteorological Service 6900 M. Cemil Ozgul, Director General...Txn. PLAY-DX.

NICARAGUA: Radio Zinca 6120 p/d personal ltr. in 300 ds. for US \$1.00 v/s Arturo G. Valdez R. (Van Horn).

NIGER: La Voix du Sahel 5020 f/d ltr. in 14 ds. for 2 IRCs. (Rutsch).

OMAN: Radio Oman 15385 f/d folder "Palm" cd. in 352 ds. for 2 IRCs. v/s Rashid Haroon, Head of Radio Maintenance. Also rcvd. personal ltr. from June Helene Luis, Secretary to the Chief Engineer. (Rutsch-SWIT).

ROMANIA: Radio Bucharest 11940 f/d "Youth Park" cd. in 85 ds. (Karlsson-CA).

SCOTLAND: Radio Stella International 7315 f/d ltr. w/ info sheets in 10 ds.

* for ms. v/s Jock Wilson states that transmitter is in Scotland. (Rutsch).

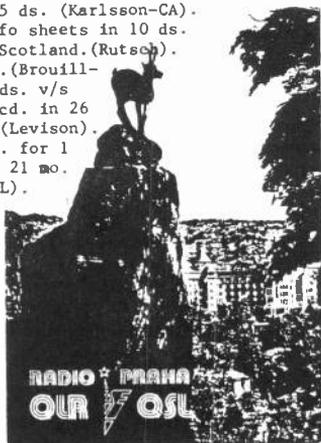
SOUTH AFRICA: Radio Orion 3320 p/d "R. RSA" cd. in 24 ds. (Brouillette-IL). Radio RSA 9615 f/d "Dance Group" cd. in 33 ds. v/s Minnie Visser. (Kacir-MI). 6010 f/d "Ricksha Pullers" cd. in 26 ds. (Kacir). Radio South Africa 3955 f/d cd. in 58 ds. (Levison). 9615 f/d "Zebras" cd. w/ sticker and pennant in 17 ds. for 1 IRC. (Edwards-OH). Capital Radio 3930 p/d form ltr. in 21 mo. (Weber-OH). Radio Five 4880 f/d cd. in 15 ds. (Rigas-IL). same in 24 ds. (Weber). ZUO 10000 f/d "ZUD Map" cd. in 81 ds. (Ponder).

SWEDEN: Radio Sweden International 11705 f/d cd. in 16 ds. w/ schedule. (Levison-PA).

SWITZERLAND: Swiss Radio International 6135 f/d cd. in 15 ds. (Rigas-IL).

THAILAND: Radio Thailand 9655 f/d "Tapoo Island" cd. in * 52 ds. Addr: Radio Thailand, External Service, 236 Vibhavadi - Rangsit Highway, Dindaeng, Huaykhwang, Bangkok 104000, Thailand. (D'Angelo-PA).

TUNISIA: Radio TV Tunisia 11550 p/d ltr. w/ ms. for a taped rpt. and 1 IRC. in 83 ds. (Rutsch).



Kingdom of Saudi Arabia
Ministry of Information,
Engineering Affairs,
Riyadh

Q. S. L.

To: MR. KIRK ALLEN
Dear Listener,

Kindly accept our thanks for your listening report. We are pleased to verify our following transmissions:

Frequency: 11855 kHz
Time (U.T.): 17.48-19.47
Date: 18-12-1983

We appreciate your cooperation and hope to hear from you again.

[Signature]
(Ali M. Al Sabbain)
Director,
Frequency Management.

UGANDA: Radio Uganda 15325 f/d prepared cd.
in 55 ds. for a 1979 reception. v/s Rachel Makibuuka. Addr: Box 2038, Kampala. (Gavaras-MN). 5027 f/d prepared cd. in 35 ds. after 3 f/up rpt. for 2 IRCs. This time I tried a SP rpt...it worked!(Cones).
UKRAINIAN SSR: Radio Kiev 9640 p/d "Fabric"
cd. in 87 ds. w/ schedule. (MacHarg). 7105 and 9880 via Simeropol f/d cd. in 3 mo. (Wallace). 7115 and 7135 via Ivano-Frankovsk w/ f/d cd. in 3 mo. (Wallace). 7230 and 9765 via Lyov f/d cd. in 3 mo. (Wallace-MA). 7185 via Vinnitsa f/d "Sherry Lynn" poster cd. in 3 mo. (Wallace).
UNITED ARAB EMIRATES: UAE Radio Dubai 17865 f/d "Great Circle Map" cd. in 23 ds. w/

schedule. v/s K.F. Fenner. (Kacir). 11730 p/d cd. in 26 ds. (Arland).
USA: VOA 6130 (no site) p/d "Challenger Shuttle" cd. in 10 ds. (Edwards).
WV 10000 f/d "Indians" cd. in 9 ds. v/s John B. Milton, Engineer in Charge. (Brouillette). KGEI 9615 f/d "Golden Gate/Streetcar" cd. w/ sticker and schedule in 28 ds. for ms. v/s Jesus C. Elizondo. (Ponder).
Voice of Free China 5985 via WYFR "Window on China at Lung-Tan" cd. in 17 ds. w/ sticker and schedule. (name?) WCSN unsolicited n/d cd. rcvd. along w/ "Dear WCSN/KYOI Listener" ltr. Letter says they are developing a KYOI type cd. (MacHarg).
USSR: Radio Moscow 12020 f/d cd. w/o site in 1 mo. (Wallace).
11710 f/d "Rowing Canal in Krylatskoye" cd. w/o site in 46 ds. w/ schedule. Pin rcvd. (Karlsson-CA).
VENEZUELA: YVOI Radio Valera 4840 n/d cd. in 59 ds. w/ decal for a SP rpt. v/s Carlos Julio Balza, Director. (Ponder). Radio Tachira 4830 n/d personal ltr. in 43 ds. for US \$1.00 (MacHarg-IN). Emisora Ecos del Torbes 4980 n/d carbon copy ltr. in 100 ds. (MacHarg).
VIETNAM: Voice of Vietnam 9840 f/d paper cd. in 4 mo. (Allen-OK).



ALPHA 66

Thank you for your report on our signals. We are glad to confirm that John M. WILKINS was listening to LA VOZ DE ALPHA 66 on January 21, 1985 at 2100 GMT, on a frequency of 6666 KHZ.

Sincerely yours,
[Signature]
LA VOZ DE ALPHA 66

That's it for this time. Column was a little better than last time at least in length. The quality of QSLs was excellent as usual; however, I know your out there. Get those reports in...Sam.

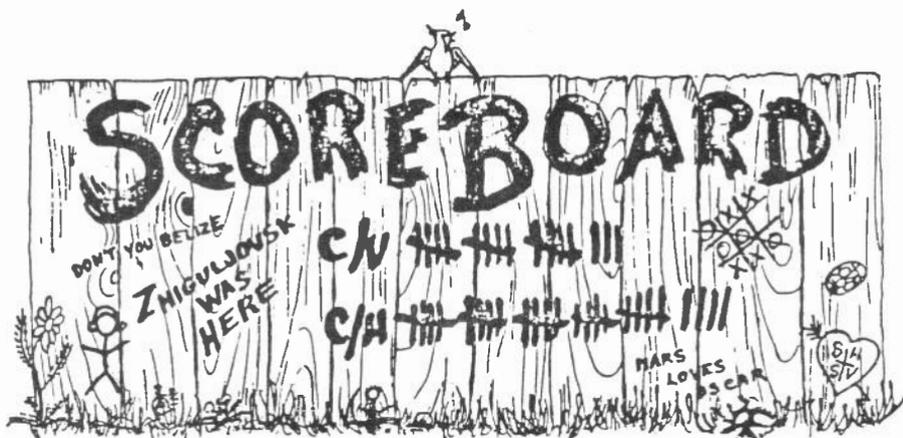
Don't forget the Committee to Preserve Radio Verifications (CPRV). They are trying to do a very major and time consuming endeavor. They need your support. Please write to Jerry Berg for information about this organization...Sam.

Dear Mr. Wallace.....

Radio Vilnius confirms your report on the reception of our programme on January 29, 87 at 22. 59 GMT on the 7165. kHz (via Kiev), 9765. kHz (via Khabarovsk), 11790 kHz (via Blagoveschensk), 11870 kHz (via Khabarovsk)

*Best of QSLing and DXing.
Happy Holidays to everyone.*

73's
[Signature]



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

December 1987

Hi, is anybody alive out there in DX-land. We had relatively few updates this quarter. Please share your DX totals through our Scoreboard. Please continue to use the Texas address until further notice as I still live there. Makes for a long commute. This quarter the Spotlight is on Europe. Remember that C/H = countries heard and C/V = countries verified. Country counts are by the official NASWA Radio Country List available from Headquarters. The next Scoreboard will appear in the March issue of FRENEX. The deadline for that issue will be 15 February.

You must update your totals once a year to remain posted on our Scoreboard. If you have been deleted due to failure to update, please resubmit updated totals for all categories as your computer data file will have been removed. Please submit totals for each continent in alphabetic order, i.e. Africa, Antarctica, Asia, Europe, North America, Oceania, South America. Submit Antarctica as a separate continent. I will occasionally indicate if Antarctica is included in your totals, but will not run a separate Scoreboard for just two stations. Best QSL is your choice, your favorite, the most difficult, etc. Many thanks to all who submitted new data for this issue.

Name, State	Total		Europe		Best European QSL
	C/H	C/V	C/H	C/V	
James Young, CA	233	222	41	38	R. Dublin
John Tuchscherer, WI	229		41		Renascenca
Gordon Darling, PNG	228	221	44	44	V of the Leek
Sam Barto, CT	228	219			
Bob Padula, Australia	223	217	39	37	Andorra5995
Gerry Bishop, Phil.	220	204	39	38	R Dublin
William Flynn, CA	220	202	39	38	Dublin Int.
Jerry Berg, MA	219	217	40	39	Tromso, Nor.
Marlin Field, MI	219	217	39	39	EMR
Nobuaki Takahashi, Japan	218	186			
Tom Gavaras, MN	216	210	39	38	Petrozavodsk
C. Brian Hamilton, FL	216	188			
Al Miller, OH	212	206	38	38	R Andorra
John Sgrulletta, NY	209	209	38	38	R Dublin Int.
Terry Palmersheim, MN	209	182	39	33	S Dublin R
Mitch Sams, KS	209	124			
Bill Harms, FRG	207	139	38	35	Iceland SBS
Larry Abraham, MI	206	192	37	36	Andorra
Roland Schulze, FRG	205	195	38	38	R. Andorra 6230
Ron Howard, CA	205	189	34	34	RIAS Berlin
Paul Buer, FL	204	190	40	38	R Dublin

Name, State	Total		Europe		Best European QSL
	C/H	C/V	C/H	C/V	
Steven Lare, MI	204	163	38	36	Tallin
C. J. Orekar, CA	203	192	36	35	Luxembourg
Richard Davis, NM	203	189	34	34	Iceland
Alex Vranes, Jr., IA	202	185	39	38	Vox Fidei
Del Fye, FL	201	183	40	38	Petrozavodsk
Harold Cones, VA	200	179	38	38	R Tallinn
Mike Hardester, PA	197	183	38	38	Karelo-Finnish
C. Vernon Hyson, NC	197	182	36	36	R. Andorra
Rick Krzemien, CA	197	174	36	35	R Dublin
Jim Uerlings, OR	197	54	35	23	Greece
Kirk Allen, OK	194	165	35	33	R Dublin 800W
David Swaringen, NC	193	174	36	36	RTV Ljubljana
Michael Schmitz, PRG	191	157	39	36	R Big Brother
Christos Rigas, IL	190	169	38	38	Petrozavdosk
Nelson George, NC	190	166	38	36	Tallinn
Don Hosmer, MI	190	139	35	34	
John Bryant, OK	189	153			R Dublin
John R. Tow, AL	188	163	36	35	R Dublin Int.
Stephen Leite, MA	188	160	37	36	Minsk
Jerry Lineback, GA	186	107	35	28	Andorra
Charlie Hoffman, PA	183	149	36	36	R. Andorra 6215
John Meyer, WI	183	146	38	36	R Andorra
Hadley Cress, VA	181	8			
Sheryl Paszkiewicz, WI	177	158	33	33	R. Dublin
Charles Wootten, VA	176	147	38	36	R. Andorra
Ken Cobb, ME	176	129	38	34	S Dublin R
Gayle Van Horn, FL	172	142	35	34	R Dublin
David Jones, TN	170	145			
Tom Laskowski, IN	168	130	33	30	R Dublin 800W
Peter Tutak, WA	167	128	32	31	Andorra
Tom Daly, NY	167	30	34	15	R Kiev
Norman Bobb, MN	167	1	31		
Charles Poxx, Jr., VA	157	134	34	34	R. Dublin Int.
Rowland Archer, Jr.	156	133	36	34	Andorra
John Mosman, KS	151	114	31	30	Sudwestfunk
Carl Mann, IA	144	124	33	33	R Dublin
Steve Forst, PA	144	99	30	23	AWR Forli
Kevin Klein, WI	142	65			
Peter Dillon, Greece	140	91	33	29	R Rodina
Ichiro Maruo, Japan	139	88			
Fr. John Eckert, PA	138	100	32	29	R Vatican
Jim Renfrew, NY	136	94	33	28	Bayer Rundfunk
Kenneth Hill, MA	135	85	31	26	WMR via Dublin
Dustin Brann, CA	132	63	26	18	R Kiev
Tom McElvy, VA	117	95			
Jackie Cole, CO	117	83	32	32	Denmark
Joe Kremer, IN	115	62	31	27	Denmark
Thomas Ross, IL	113	93	32	31	Iceland
Andy Rugg, Que.	110	96	31	31	Luxembourg
Don Watts, Quebec	108	61	30	27	Yugoslavia
Jim Streitmatter, IN	108	0	31		R. Denmark
David Morby, NY	105	14	29	3	Belgium BRT
Harold Levison, PA	104	85			
Jerry Ervine, TX	103	80	25	22	R. Med.
Jim Shaver, OR	92	67	26	20	
Chris Sweitzer, FL	77	40	27	19	R. Budapest

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

73's to y'all. *JAJ*



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

FRENDEX LOG REPORTERS **** DECEMBER 1987 ISSUE *** DEADLINE = 12th of MONTH

Kirk ALLEN, Newkirk,OK.(NRD515); Richard ARLAND, Shavertown,PA.(Knight Star Roamer); Richard BAUERNHUBER, Rosedale,NY.(ICF2010); Paul BUER, Miami,FL.(SPR-4) George COBB, Yucatan, MEX.(DX302/ICF2002); Richard D'ANGELO, Wyomissing,PA,(R70); Peter Dillon, GREECE,(DX400); Gordon EDWARDS, Springboro,OH.(ICF2010); Mike HARDESTER, No.Versailles,PA.(R70); Michael HAWK, Hampton,VA.(ICF6800W); Geralyn HOLLERMAN, Huntsville,AL.(DX302); Hans JOHNSON, San Angelo,TX(R71A); Rufus JORDAN, Pittsburg,PA.(DX302); Ronald KARLSSON, Temple City, CA.(R2000); Ken KASHIWABARA, Panorama City,CA.(ICF2010); Kevin KLEIN, Appleton,WI.(R71A); Harold LEVISON, Philadelphia,PA.(R70); Kevin MALIN, Bothell,WA.(IC-735); Gene PEARSON, Perrysburg,OH.(NRD525); John PRATH, Ft.Lauderdale,FL.(R71A); Wally RHYNE, Gastonia,NC.(R71A); Daniel SAMPSON, Black River Falls, WI.(R1000); Roland SCHULZE, Stuttgart, W.Germ.(R5000); David SWARINGEN, Huntersville,NC.(R70); John TUCHSCHERER, Neenah,WI.(EEB2020); Eric WITZIG, Annandale,VA.(R1000); Robert ZILMER, Rio Rancho, NM.(R1000).....

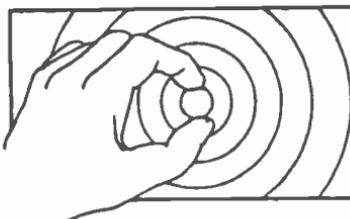
There we have another months Loggings my friends. There were a large amount of loggings supplied by these Reporters and they have our thanks.

As this is the last time that this Column will see print before December 25, 1987, I'd like to take this opportunity to wish one and all the very best of Holiday Wishes and hope that everyone had their fill of Thanksgiving Turkey as well. MERRY CHRISTMAS

For thos of you DXers who enjoy QSLing, I'd like to remind you of the fine services offered to QSLers by Mr. William Plum. Bill, a long time FRENDEXer has a comp;ete line of QSL Cards, Report Forms, Stamps (both easy to obtain Foreign and hard to find foreign countries), Printed Envelopes and just about anything else that the QSLer might need. To get Bills latest list, please contact him at 12 Glenn Road, Flemington, NJ. 08822, Please include a couple of first class stamps to help defray Bills postage costs in replying.

Our congradulations go out to member Richard Arland on the retirment from the US Air Force and our best wishes to his newfound QTH in Shavertown PA. John Tuchcherer reports he has purchased the EEB-2020 and seems to be having a fun time with that new receiver as well. Several members have reported new receivers this month as well. Has Christmas arrived early this year folks ?? Good luck to one and all. Finally a reminder of the fine AWARDS program run by Good Friend JOHN KAPINOS, these fine awards really do something in making that Radio Room a little brighter folks, why not give it a try. The requirements for beginners are not all that stingent and there is something for every-one from Neophyte to Expert alike. Keep up the good work KAP.

We will bid farewell to one and all from the chilly and snowcovered grounds of your editors QTH. Sure hope its not going to be a long winter hihi.



LOG REPORT

section A

2000 to 4899 kHz

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

Welcome,.....

- 2310 AUSTRALIA, VLBA. 1104. News report abt Sri Lanka //2325, (25/10 Johnson-GA); # 1114 w/ news and talk. (11/10 Hardester-PA)
- 2475 CHINA, Zhejiang PBS. 1238-1245. CC. Talks, anncd "Zay-jaing shu-jshen". (27/10 Kashiwabara-CA)
- 3210 MOCAMBIQUE, RM. 0258-0321. PT, IS, ID by OM and into choral anthem, then presumed news by YL. (31/10 D'Angelo-PA)
- 3215 INDONESIA, RRI Manado (Celebes). 1150. YL w/talk and into pop mx. (9/10 VanHorn-FL)
- 3239 INDONESIA, RPKDPT2-Lumajang. 1228-1313, IN, Partial ID # 1258, then talk about Jakarta economy. (18/10 Allen-OK)
- 3241 INDONESIA, RRI Sibolga. 1155-1253. IN. Clear local ID # 1159, talk. (17/10 Allen-OK)
- 3250 HONDURAS, R. Luz y Vida. 0259-0307. SS, Religious propoganda pgs in EE. (1/11 Tuchscherer); # 0259 with similar pgs. (17/10 Hollerman-AL)
- 3253 SOUTH AFRICA, SABC. 0310-0323. EE. Radio drama pgs. (19/10 Malin)
- 3253 VENEZUELA, LV de El Tigre. 0335-0350. SS. Lively LA vocals, ID's, echo effect ad's, talk. (1/11 Jordan-PA)
- 3260 ECUADOR, LV de Rio Carrizal. 0351-0405. SS. Excited OM anncr w/sports event, crowd noises, etc. (1/11 Jordan-PA)
- 3275 VENEZUELA, R. Mara. 1052. SS. Music then ID. (6/11 Worob-TX)
- 3280 ECUADOR, LV del Napo. 0945-1015. SS. Vocal mx, flute mx. (14/10 Hardester-PA)
- 3285 ECUADOR, LV del Rio Tarqui. 1047-1108. SS. Nice vocal mx, many ID's. (27/10 Allen-OK)
- 3325 GUATEMALA, R. Maya. 1104-1113. SS. OM w/ID's over music; S/on annts. (2/11 D'Angelo-PA); # 1126-1130 with religious pgs. (12/10 Kashiwabara-CA)
- 3339 PERU, R. Altura. 0440-0530. SS. Lively LA vocals with instrumental music. (17/10 Jordan-PA)
- 3340 LESOTHO, BBC Relay. 1741-2115. EE. Talk about Football, EE news. (29/9 Schulze-FRG)
- 3360 GUATEMALA, LV de Nahuala. 0305-0336. SS. Latin vocals, ID. (1/11 D'Angelo-PA)
- 3365 GHANA, GBC-2. 2236-2306. EE. Rock music, ID, and news. (5/10 D'Angelo-PA)
- 3377 JAPAN, NHK-Osaka. 1248-1300. JJ. Talks by OM's, sports news, ID. (24/10 Allen-OK)
- 3380 MAIT, RTVM. 2115-2126. African folk music, short ID. (28/9 Schulze-FRG)
- 3381 ECUADOR, R. Iris. 0317-0340. SS. Soft LA vocals with talk in-between. (2/10 D'Angelo-PA)
- 3475 BOLIVIA, R. Padilla. 0110-0124. SS. Short talks and music bits, At 0246 retune, R. Venceremos was on this freq! (11/10 Tuchscherer)
- 3895 UNITD, 0412-0530. EE. Can Anyone Help??? Found various EE mx played here a variety of nights. (23/10 Jordan-PA)
- 3905 INDIA, AIR Delhi. 1810-1830. HI, Interview, World News followed. (3/10 Dillon-GREECE)
- 3930 So. KOREA, KBS. 1225-1230. KK. Talk by OM. (27/10 Kashiwabara-CA)
- 3958 FAROE ISLANDS, FIBS. 0825. EZL music, talks and ID's. (21/10 Van Horn-FL)
- 2975 UNITED KINGDOM, BBCWS. 0630. FF. News and interview //9915. (25/10 Jordan-PA)
- 3985 SWITZERLAND, SRI. 1915-1930. Italian, World news, ID, Music. (3/10 Dillon-GREECE)
- 3999 GREENLAND, Gronlands Radio. 0955. Danish. IS then fade out. (9/10 Allen-OK); # 0956 w/ IS and some music, then covered by ham's. (6/11 Van Horn-FL)
- 4136 CLANDESTINE. V. of National Salvation. 1033-1120. Korean, Talks. (9/10 Allen-OK)
- 4620 CHINA, RB. 1216-1225. KK. OM and YL w/alternating items. (27/10 Kashiwabara-CA)
- 4725 BURMA, BBS. 1414-1426. Burmese? YL discourse into C&W type vocals. (1/10 Kashiwabara-CA)
- 4739 BOLIVIA, R. Mamore. 1016-1030. SS. Enough audio to pull ID. (16/10 Allen-OK)
- 4753 INDONESIA, RRI Ujung Pandang (Sulawesi). 1427-1458. IN, IS and ID and into l-o-n-g talks. (10/10 Kashiwabara-CA)
- 4755 PERU, R. Huanta 2000. 1005. SS. NA, ID, and opening annt by OM. (29/10 Jones-MS)
- 4760 SWAZILAND, TWR. 0256-0304. IS, ID in EE, and then into news. (13/10 Tuchscherer); # 0316 with choral music and talk. (31/10 Johnson-GA)
- 4765 CUBA, R. Muyak (relay). 0537-0549. RR. Music. (25/10 Malin)
- 4775 PERU, R. Tarma. 1021. SS. Huaynoa ID. (20/10 Jones-MS)
- 4780 COLOMBIA, R. Super. 0935. SS. Folk music, promos. (22/10 Van Horn-FL)
- 4785 AZERBAIJANI SSR, R. Baku. 0159. ID, chimes, and ID. (17/10 Johnson-GA)
- 4790 PERU, R. Atlántida. 0327-0454. SS. Lively LA vocals w/ID. (1/11 D'Angelo-PA)
- 4795 PAKISTAN, Azad Kashmir Radio. 1732-1805. Urdu. OM's talking, mx, ID. (8/10 Dillon-GREECE)
- 4795 ECUADOR, LV de los Caras. 0400-0430. SS. Live coverage of sports event. (1/11 D'Angelo-PA)
- 4795 BOLIVIA, R. Nueva America. 0320-0400. SS. Two OM's into exchange, lite music w/ choral selections. (9/10 Jordan-PA)
- 4800 ECUADOR, R. Popular. 0435. SS. Rustic campo vocals and guitar mx. (25/10 Jordan-PA)

- GUATEMALA, R. Buenas Nuevas, 1132. SS. Music followed by ID. (8/11 Jones-MS)
- 4805 INDIA, AIR Hyderabad, 1720-1735. EE. Talk about "Democracy in India". (12/10 Dillon-GREECE)
- 4815 BRASIL, R. Diff. Amazonas, 0955-1025. PT. ID, vocals, and ad's. (2/11 Kashiwabara-CA)
- 4815 BUREYINA-PASO, RTVB, 2240. Listening on day of coup, heard FF talk and music w/ possible mention of "La voix de populaire", announcer made sentiments clear by saying in EE news at the coup. (15/10 Johnson-GA); @ 0148 with mostly march mx. (16/10 Tuchscherer); @ 0204 with talk about the coup. (16/10 Levison-PA)—another example of how SWL's are on top of world events as they happen—lets see if CNN can beat us!!!-ed..
- 4823 PERU, LV de La Selva, 1040. SS. MX w/ ID. (7/10 Klein-NJ)
- 4825 BRASIL, R. Educadora, 0812-0818. PT. Vocals, ID. (3/11 Kashiwabara-CA)
- 4840t INDIA, AIR Bombay, 1314-1331. Vocals but no ID. (15/10 Allen-OK)
- PERU, R. Andahuaylas, 1014. SS. Fast ID by OM, MX. (30/1- Jones-MS)
- 4845 MAURITANIA, ORTM, 2230-0001. AA. News and ID, march type NA. (9/10 D'Angelo-PA)
- 4850 CAMEROON, Yaounde, 2215. Almost "Muzak" type tunes, ID by OM. (22/10 Johnson-GA)
- UZBEKISTAN SSR, Uzbek Radio, 1750-1805. RR. Classical music, ID. (12/10 Dillon-GREECE);
- 4854 MAURITIUS, MNC, 1821-1902, ID, local music, ID in english! (11/10 Schulze-FRG)
- 4860 INDIA, AIR Delhi, 1725-1740. EE. Indian folk music w/YL and DJ's, ID "This is All India Radio, the News.....". (13/10 Dillon-GREECE)
- 4864 BOLIVIA, R. 16 de Marzo, 1005. SS. Anthem played with a military march beat, other music followed, then ID by OM. (25/10 Johnson-GA)
- 4870 BENIN, RB, 0550. FF. YL with news format, ID @ 0600, and DJ w/Afro pops. (2/11 Van Horn-FL)
- ECUADOR, R. Rio Amazonas, 0326. SS. Soft LA pop and US pops, ID by OM @ 0355, and into more mx. (3/10 Sampson-WI)
- 4878 PAKISTAN, PBC, 0227-0245. Urdu, News by female, ID. (25/10 Schulze-FRG)
- 4880 SOUTH AFRICA, R. Orion(SARC), 2150-2204. EE/Afrikaans. "Stairway to Hoovan", other music and "Welcome to the All Night Programme of Radio Orion". (16/10 D'Angelo-PA)
- 4890 GABON, RPT(relay), 0450-0457. EE. Headlines. (17/10 Kashiwabara-CA)
- PAPUA NEW GUINEA, NDC, 1942-2015. Music and male with pidgin talks. (14/10 Schulze-FRG)
- 4985 BRASIL, R. Baré, 0305-0313. PT. ID and a few bulletins and into MX. (11/10 Tuchscherer)
- 4905 CIAD, RN N'djamena, 2100-2200. FF/Vern. Fade in @ 2100 w/mostly rapid talks in FF with African group MX bridge, martial NA and ID at 2200. (21/10 Jordan-PA)
- 4945 BOLIVIA, R. Illimani, 0940. SS. OM and YL chat w/news briefs and local ad's. (22/10 VanHorn)

A good selection this month—for a change. Lets make 1988 a better year for reporting loggings by including more detail, and lets all support NASWA 100 percent!!!
 A MERRY CHRISTMAS, FELIZ NAVIDAD, JOYEUX NOEL, & GOD YUL to everyone. HAPPY CHANUKAH as well!!!! See you again next year or in about 30, whichever comes first, hi!!!! CHEERS!!!!

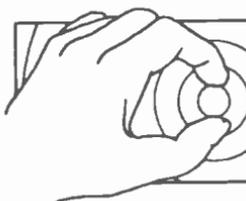
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FOR SALE: Complete set of "Review of International Broadcasting" from first issue to most recent. \$150.00 including shipping. David Walcutt, 235 West 56 Street, Apt. 12-H, New York, NY 10019.

FOR SALE: Info-Tech M-6000 Multi-mode Code Reader and matching M-610 RTTY scope. RTTY, CW, AMTOR, packet, TDM. M-6000 purchased new last August, M-610 last October. New \$1030 (plus shipping), your price \$925 includes UPS shipping (or best reasonable offer). The problem is I just don't have time to use the equipment what with the maintenance of the Pinelands RBBS and the English language schedules, a parttime microcomputer consulting business and a fulltime job. Thomas R. Sundstrom, PO Box 2275, Vincentown, NJ 08088-2275.



LOG REPORTS

section B

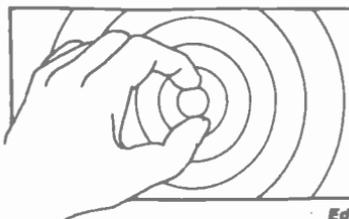
4900 to 6199 kHz

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

- 4904.5 CHAD N'djamena, 2148-2201* on 10-5, FR, man with long talk to 2156 hi-life vocals, gal with s/off amnts and ID, kids chorus, MA (D'Angelo-PA); *0500 10-18 under Libyan jamming, good sig (Rhyne-NC); *0457 10-17, IS, NA, kids, FR ID (Wack-VA).
- 4905 CHINA CPBS, CH talk 2240 10-25, greyline, F-G but poor by 2300 (Pearson-OH).
- 4910 HONDURAS LV de la Mosquitia, 0115-0133 10-2 in Miskito, ID, relig.songs, some amnts, prayer (Schulze-GFR); 0250-0304* on 10-12, EG relig.prgm from NC, local mx, SP amnts, ID, abrupt s/off, poor overall (Kashiwabara-CA).
- 4910 ZAMBIA Lusaka, 0345 on 10-10, fish eagle IS, NA with s/on at 0350, into vernacular; very weak and covered by RTTY QRM (Van Horn-FL).
- 4915 BRAZIL R.Nacl, 0157 10-2, ID, motorcycles, "RadioBras" ID (Schulze-GFR).
- 4915 GHANA Accra, Sunday choir svc at 0543 on 10-24, exc sig in EG (Wack-VA); EG nx at 2245 10-18, ID 2304, hymn before 2305* (Swaringen-NC).
- 4915 KENYA Maybe them, 0543 on 10-3, relig.singing but no ID (Cobb-YUCATAN).
- 4920 INDIA AIR-Madras, 2320 10-18, talk in urid.lang, Indian mx, Delhi EG nx (Schulze-GFR).
- 4930 USSR Ashkabad listed, Mayak 0125 10-15, //7305, 4930 much weaker; talk, mx (Johnson-GA).
- 4936 PERU R. Tropical, SP at 0300 11-1, canned promo, bank ad, jingles, mx, TC (Van Horn-FL); 0325 10-31, ID, march, LA mx (Schulze-GFR); 0935 10-24, poor with non-stop huaynos (Kashiwabara-CA); poor overall 0951 10-17, mx, ID (Worob-TX).
- 4945 BOLIVIA R. Illimaut, 0914 10-16, SP ID, brief mx, into Indian langs; poor (Jones-MS).
- 4945 COLOMBIA Caracol Neiva, nice sig 10-9, 0405, nx, amnts, fast-paced comms. (Jordan).
- 4950 EQUATORIAL GUINEA Bata, 2058 10-24, new here //5004, ID, noticias by M&W (Schulze-GFR).
- 4952.7 ANGOLA ER da Huila (Nacl? JB), mx 2320, nx 0000 (Tuchscherer-WI); R.Nacl, 0420 10-27, M&W with nx items, Afro mx, pretty good signal (Van Horn-FL).
- 4955.5 PERU R.Cultural Amauta, OA mx 1040 10-6, SP, Quechua, ID, promos, to 1107 (Allen-OK).
- 4960 CHINA Beijing, 0930 in Japanese on 10-24, IS, ID, into nx about China; poor (Kashiwabara).
- 4965 BRAZIL R.Poti, futebol 0255 10-6, s/off ID 0307, carrier cut 0309*, fair (D'Angelo-PA).
- 4971 PERU R.Imagen, *0955 10-30, NA, ID, very poor with Rumbos-4969 spillover (Jones-MS).
- 4976 COLOMBIA Ondas del Orteguaza, Bogota nx items 0035 11-2, intl nx, fair (Van Horn-FL).
- 4976 UGANDA Presumed 0417 10-18 w/UGandan nx items, QRM, gone by 0430 (D'Angelo-PA); EG at 1910 10-13, ID 1950, not //5026, (Schulze-GFR).
- 4920 AUSTRALIA (out of order; sri) Brisbane, fair 1930 10-14, ID, mx, pips (Schulze-GFR).
- 4980 VENEZUELA Ecos del Torbes, 1020 10-15, SP talk, mx, IDs at 1021, good sig (Worob-TX).
- 4990 ARMENIAN SSR R.Yerevan, AR 1805 10-16, nx, opera, AR ID, weak sig (Dillon-GREECE).
- 4990 INDIA AIR 2346 10-25 in Tamil, carrier, IS 2358, ID at 0000 opening (Pearson-OH).
- 4990 NIGERIA Lagos, EG relig.prgm at 0448 on 10-11, ID followed (Schulze-GFR).
- 4990 SOUTH AFRICA R.RSA, EG with 50s tunes, fair signal at 0555 10-24 (Wack-VA).
- 4990 USSR RM new here, N.Am svc 2210 10-24, fgy not anned; RS folk mx (Schulze-GFR).
- 4991 PERU R. Ancash, 0208 10-2, ID, OA mx, "Happy Birthday," fgy amnts (Schulze-GFR).
- 4996 PERU R.Andina, to 0455* 10-9, poor overall (Jordan); 1025 10-22, fair (Van Horn-FL).
- 5004 EQUATORIAL GUINEA Bata, s/off amnts 2204, long NA 2206, to 2210*, 10-16 (D'Angelo-PA).
- 5005 SURINAM Tent. R.Apintie, 1349 10-15, Hindu-like chants, 6 pips, maybe nx (Kashiwabara-CA).
- 5010 CAMEROON Garoua, drum mx 0448 10-13, talks in lang (Wack-VA); *0420 10-11, FR and EG IDs, 5010 not anned w/fqys, NA, into Koran-like chants, then Afr folk mx (Schulze-GFR).
- 5015 PERU R.Moyobamba, 0344 10-2, ID, OA mx, 0626* with NA only this day (Schulze-GFR).
- 5020 CHINA ? Unid. 2118, mx, Nanchang listed, very weak sigs (Schulze-GFR).
- 5020 NIGER Niamey, Koran 0535 11-1, talk, Afr mx, flutes, good (VanHorn-FL); talk, kids singing, poor 0550 10-24 (Wack-VA); hi-life 2146 10-22, ID 2200, 2203* (D'Angelo-PA).
- 5025 CUBA R.Rebelde, SP 0550 10-25, LA mx, talk, man annor, ID 0600, good sig (Malin).
- 5025 PERU R.Quillabamba, mournful ballads 1102 10-25, break for talk, ID, poor (VanHorn-FL).
- 5026 UGANDA Kampala, vernacs 1930 10-13, not //4976, Afr pops, show mx (Schulze-GFR).
- 5030 PERU R. Los Andes, huaynos 1030 10-22, quick ID break, more mx (VanHorn-FL).
- 5034 CENT.AFR.REP. Bangui, rock 2105 11-3 (VanHorn-FL); exc 0445 10-13, ID, songs (Wack-VA).
- 5040 ECUADOR LV del Upano, to 0215* 10-12, good sig w/closing amnt (Hardeste-PA); to 031C* 10-5, 0315* 10-9, mx, IDs, QTH anned, lengthy choral NA before close (Jordan); 1130 on 11-6 with choir responses, het but overall good signal; make it tentative (Worob-TX).
- 5040 GEORGIAN SSR Tbilisi, IS 0158 10-24, 6 chimes, anthem, ID, talk by M&W (Johnson-CA); comedy 1735 10-17, mx, ID in Georgian 1800, QM talk; fair (Dillon-GREECE).
- 5040 VENEZUELA R.Maturin, campesino mx 0227 10-25, TC, rustic folk mx, poor (VanHorn-FL).
- 5047 TOGO Lome, FR 2330 10-22, EZL vocals, US songs, IS, ID, MA, 0003* (VanHorn-FL); Afro pops, maybe FR nx 0540 on 10-24, very good signal (Wack-VA).
- 5050 TANZANIA Dar-es-Salaam, 1708 10-11, vernac.nx, ID, early fade-in (Schulze-GFR).
- 5055 ECUADOR R.Catolica 0125 10-23, relig.format, mx, sermon, ID, poor overall (VanHorn-FL).

- 5057 ALBANIA Gjirokaster, Alb story 1825, inspir.sng, pops, Balkan mx (Dillon-GREECE).
- 5075 CHINA Beijing, CH 2103, ID, local mx, arnts by gal, 10-11 (Schulze-GFR).
- 5081 PERU Tent. R.Mundo, 1019, .this one rptd by others, no off.ID noted 10-15 (Allen-OK).
- 5095 COLOMBIA R.Sutatenza, talk abt EJ by two QMs and gal 1040 10-22, good sig (VanHorn-FL).
- 5220 CHINA Beijing, 2237 tent. CH, 10-17, very weak and strong QRM, no pos.ID (Schulze-GFR).
- 5286 CHAD R.Moundou, 3-note IS *0458 10-4, march anthem, kids singing, ID and fgy, hi-life to 0515, then appeared to be a sermon with choir singing; poor, QRN (D'Angelo-PA).
- 5700 PERU R.Quinto 0245 11-1, OA huaynos, vocals, talk, TC, ads, fair sig (VanHorn-FL); unid. to 0449* w/OA NA, campo/folk mx, gal anncr, no hint of an ID (Allen-OK). 10-12.
- 5475.5 GUINEA-BISSAU Tent.R.Nacl, vy weak 2335 11-2, talk, EZL mx, sig dropping 0000(VH-FL).
- 5770 CHINA PLA stn, convers.1110 10-25, like radio drama, very weak (VanHorn-FL); marginally fair to 1200* 10-20, mostly talks, lively exchanges, one beep before s/off (Jordan).
- 5800 CHINA Tent. Urumqi (listed), mx, vocals, on past 1200, presumed CH, 10-20 (Jordan).
- 5860 CHINA Beijing, M&W talking 10-25 2240-2300, weaker than //4905 (Pearson-OH).
- 5889 CANADIAN R.Liberation, anti-Sandin.prgms to 0306* 10-24, fair sig (D'Angelo-PA).
- 5905 USSR RM in QM 1835 10-17 w/pops, RM theme, talk, fair sig (Dillon-GREECE).
- 5910 BELGIUM BRT, EG 0030, hrd 11-4 //9925 (Zilmer); SP to 0030, then EG 10-17 (Jordan).
- 5915 FRANCE RFI, FR ID 0000 and 0030, much mx, exc sig 10-22 (Edwards). (FR.GUIAMA? JB).
- 5915 USSR RM, good in SP 0400-0415 on 11-3, nx, cmtry, mx (Hawk).
- 5930 CZECHOSLAVAKIA Prague, EG 0330, good (Malin); FR at 1735 10-18, fair (Dillon-GREECE).
- 5940 USSR Magadan, C503 10-25 with RS, M&W anncr, exc rcprn (Malin).
- 5960 CANADA RCI carrying R.Japan prgm, EG 0300 10-1, nx (Cobb-YUCATAN); 0300 10-22, IS,nx, talks to 0329 (Jordan); DX Corner 0330 11-2, exc signal (Edwards); in SP at 0410-0445 on 11-3, nx, cmtry, mx (Hawk).
- 5965 CUBA Havana, EG 0513 10-25, sports, nx, mx, exc sig (Malin).
- 5965 E.GERMANY RBE, 2144-2151 tune-out 10-11, IS, ID, nx in EG by gal (Tuchscherer-WI).
- 5965 MALAYSIA Tent. KL, 1205 10-9, seeming nx by M&W, no QRM but vy weak (VanHorn-FL).
- 5974.5 TAIWAN VoAsia-Kaohsiung, 1140 10-12 w/EG military nx, poor sig (Kashiwabara-CA).WPF?JB.
- 5975 ANTIGUA BBC relay, good in WS at 0510 11-4, world nx, "24 Hrs" (Hawk).
- 5975 COLOMBIA R.Macarena, under VOA nx at 1110 11-6, poor but fair in VOA gaps (Worob-TX).
- 5975 S.KOREA Seoul, JP ID at 0820 11-3, greetings in Korean, fair sig (Kashiwabara-CA).
- 5980 YUGOSLAVIA Belgrade, MF, ending EG 2225, IS, then FR nx, fair-good 10-26 (Buer-FL).
- 5985 USA VoFC cver WYFR, EG "New Record Time" 0230 11-5, very good (Bauernhuber); EG talk show at 0326 on 10-25, excellent sig (Edwards).
- 5985 TURKEY Ankara hrd with talk in lang ending 2152, ID 2200, rapid fading, 10-9(Buer-FL).
- 5990 ITALY RAI, EG nx and mx at 0100 11-3, //9575 (Zilmer).
- 5995 HONG KONG Presumed new BBC E.Asia Relay, EG to 0930, then lang, faded 0945,10-28(Jordan)
- 6000 BRAZIL R.Guaiba, EZL mx 0920 10-21, ID 0925, phone chat with stn rpt, fair (VanHorn-FL)
- 6015 IVORY COAST Abidjan, *0600 10-11, poor with s/on ID in FR, into nx (Hardeste-PA).
- 6015 ABU DHAHI Koran 0220 10-24, Abu Dhabi ID 0248, more Koran; //11865 (Johnson-CA).
- 6015 ZANZIBAR Tent. 0345 11-1, fair, AR mx, Afro mx, covered by DW AR s/on 0400 (VanHorn-FL).
- 6020 ASCENSION IS. BBC, *0330-0344* in Swahili, //9515, 6100/7140 not hrd, 10-27 (Jordan).
- 6020 NETHERLANDS RN, EG 0250-0320 10-25, "Media Network," exc listening (Cobb-YUCATAN).
- 6025 DOM.REP. R.Amanecer, *1013, relig.mx and sermons, IDs, TCs, "LV de Esperanza" prgm 1050 (D'Angelo-PA); EE "Children's Bible Hr" to 1400 10-10, other Sats; Box 1500 QTH (Buer-FL)
- 6045 SWEDEN Stockholm at 2300 11-3 with EG nx, SCDlers, USSR covers fgy (Zilmer).
- 6050 USSR RM, 1245 10-27, JP ID anncd xmtr site: "kochirawa Moskou hosc dezu, Kabarobauku (Khabarovsk) kara okurishiteimasu," good sig, fair on //6020 (Kashiwabara-CA).
- 6055 FR.GUIANA Presumed this site, RFI with EG nx to 0451, FR ID, into SP, 10-26 (Malin); ditto 10-5, SP at 0500, //9830(VG), 7260 (vy poor), 9550/9790 (vy vy poor) (Jordan).
- 6060 PORTUGAL Lisbon, in PT 0205-0300, talk, nx, ID, //9705, 10-6 (Jordan).
- 6070 CANADA CFRX, 1205 11-6, good with nx about fire, IDs (Worob-TX).
- 6075 HONDURAS LV del Junco, LA mx 1220 10-31, IDs after most songs, QUN (Prath-FL).
- 6092 CUBA Havana, Central American nx 0315 on 10-23 (Cobb-YUCATAN).
- 6095 CHINA Beijing, 1113 in seeming CH, gal anncr, poor in heavy QRM (VanHorn-FL).
- 6110 MALTA IERA Radio 2103 10-18, R.Mediterran in FR 2227, EG ID 2231 (Johnson-CA).
- 6120 CANADA RCI carrying R.Japan prgm in EC 1100-1200 10-27, vy good sig (Jordan).
- 6120 SOUTH AFRICA R.RSA, EG 0332-0340 10-25, ASWLC DX rpt, "Good Morn.Afr" 0355(Hardeste-PA)
- 6135 POLAND Warsaw in FR at 2200 10-31, IS, nx, talk, //7125, 7270 (Prath-FL).
- 6135 SWITZERLAND SRI, EG nx 0204 10-15, poor overall with VOA-6130 QRM (Sampson-WI); also hrd at 0336 10-27 with Italian nx (Cobb-YUCATAN).
- 6150 COSTA RICA R.Inpacto, 1233 11-8 w/patriotic songs, ID, pops, fair overall (Jones-MS).
- 6160 CANADA CKZU-Vancouver, live mx 0657 10-15, nail nx, BC wx, fair sig (Kashiwabara-CA).
- 6170 CUBA? RM N.Am Svc, EG 0135-0200 10-25, 6000 milisec. ahead of 6170 2-3mins.at 0135(Jordan)
- 6175 ANTIGUA BBC WS 0233-0302 10-10, EG pops, ID 0300, good sig, some QRM (Hollermer-AL).
- 6175 COSTA RICA TIPC, SP.relig.talk 1230 10-31, ID 1245, //5055 (Prath-FL).
- 6180 CYPRUS BBC WS, 0600-0630 with EG world nx, correspondents rpts, fair 10-4(Dillon-GREECE).
- 6190 LESOTHO BBC relay, 0405-0425 10-25, WS nx, //6175(Antigua), 6180(site? (Hardeste-PA).
- 6192 PERU R. Cuzco, hrd 10-6 with better audio level than ever before, 1020-1035, TCs, ID, flute mx, fading out by 1032 (Allen-OK).

+++ Egad, it's December already! Where'd it go? To all NASWers, and particularly the merry band of LR supporters, Happy Holidays to all, and good DXing in 88!



LOG REPORT

section D

11700 and above

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

The designation "nf" opposite the listed frequency means that the reported logging represents a new frequency for the given station. The term "new" means that the station is not listed for that frequency in either the 1987 WRTH or the 1988 Radio Database International publications. In the case of new VOA frequencies, it means that the station was not listed on the given frequency in the latest Frequency Schedule distributed by VOA.

- *****
- 11700 DOMINICAN REPUBLIC R. Clarin in SP 0059, relay La Voz del Cid (Schulze W. GERM.)
 - 11715 CHINA R. Beijing in EG 0305, mx, cmntry, ID, vg, into CH 0400 (Buer FL 11/4)
 - 11720 BULGARIA R. Sofia in EG 0026, DX mx, freqs & TC, cmntry (Levison PA 10/24)
 - 11730nf SOUTH AFRICA RSA in EG 0203, mx, cmntry on Wall St. collapse (Levison PA 10/21)
 - 11730 UNITED ARAB EMIRATES R. Dubai in EG/AR 1637, mx, ID s/off 1642 (Buer FL 10/14)
 - 11734 TANZANIA RT in SH 1710, tlks, ID 1714 "R Tanzania, Dar-es-Salaam" (Klein WI)
 - 11735 NORTH KOREA R. Pyongyang in EG 1100, NA at s/on, mx, p (Rhyne NC 10/16)
 - 11740 IRAQ R. Baghdad in AR 2135, ME songs, anmcs, chimes, ID, g (Buer FL 10/11)
 - 11748 BRAZIL R. Nacional in EG 0213, sked vocals, "Sunday Special" (Sampson WI 10/26)
In PT/EG 0130-0249*, nice mx, EG at 0155, freqs, features, exc (Jordan PA 10/19)
 - 11755 CHINA R. Beijing in EG 1015, "Listener's Corner", //9700, f (Rhyne NC 10/16)
 - 11790 USSR R. Kiev (Khabarovsk) in EG 0308, "Ukraine Today", tlks (Sampson WI 10/17)
 - 11790nf LIBERIA ELWA Monrovia in vern. 2110, ID, relig pgm (Schulze W. GERM. 10/24)
 - 11800 GABON R. Japan relay in EG 2332, "DK Corner", SWL tips (Swaringen NC 10/18)
 - 11835 URUGUAY R. El Espectador in SP 0105, no mx, just anmcs, ID (Johnson GA 10/17)
 - 11850 NORWAY RNI in EG 1600, "Norway Today", mx, book report (Zilmer NM 11/1)
 - 11861v VENEZUELA R. Nacional in SP 0325, sked, repeated ID's, anmcs, promos, lots of fanfares between tlk segments, pop SP mx, exc (Jordan PA 10/5)
 - 11865 SEYCHELLES FEBA in EG 1600-1610*, mx to s/off (Zilmer NM 11/7)
 - 11870nf SEYCHELLES FEBA in Parsi? 0320, mx, vocals, guitar, IS (Hollerman AL 10/17)
 - 11900nf USA WOFB via WYFR 2223, cmntry on the legend of "door gods" (Levison PA 10/23)
 - 11905 ITALY RAI in EG *0350-0410*, ID, mx, pop sels, f-p (Jordan PA 10/17)
 - 11910 ECUADOR HCJB Quito in EG 0056, "Turning Point", ID, g (Hollerman AL 10/18)
 - 11920 IVORY COAST Abidjan in FR 2350, lively mx & DJ, s/off w/NA (Rhyne NC 10/10) also in FR 2152 w/Afro folk mx, ID, strong sig in W. Germany (Schulze W. GERM.)
 - 11920 JORDAN JRT in AR 1244, ID, songs, cmntry, drama, pips, TC, nx (Johnson GA 11/1)
 - 11945 FINLAND RF in EG 1405, ID, econ mx, f (Kashiwabara CA 10/31, Zilmer NM 11/3)
 - 11945 PARAGUAY R. Encarnacion in SP 0132, relig & polit. tlks (Schulze W. GER. 10/25)
 - 11955nf PHILIPPINE IS. VOA relay in KR 2130, also some EG, exc (Treibel WA 11/4)
 - 11955 FRANCE RFI in EG 0330, world mx rpt (Karlsson 10/23) ED: Time slot not in RDI 88
 - 11980nf NORTHERN MARIANAS KPBS, FEBC Saipan in IN 2245, blotted out at 2300 by s/on of R. Beijing at 2300. ED: Also rptd July FRENEX by Hans Johnson, TX.
 - 11995 FRANCE RFI in EG 1600, "Paris Calling Africa", mx, cmntry, mx, lang lesson, //11705, 17620 (Zilmer NM 11/7) ED: Apparently repl Romanian xmsn this time slot
 - 12005 USSR R. Moscow in CH *1300-1400*, IS, mx?, tlks, ID's & anmcs, CH arias, p (Jordan PA 10/8) ED: Rufus advises xmsn not via RS P&P- see Oct. FRENEX, p.22.
 - 12015 USSR R. Moscow in RS 1205-1245, world mx, cmntry, folk mx, f (Jordan PA 10/5)
 - 12025 UNIDENTIFIED Unknown xmttr in Asian lang 2300-2345, rapid tlks, CH sounding mx, & vocals, poss ID 2330 (Jordan PA 10/9) ED: Could this be KPBS Saipan which has been rptd in CH at 2230 (see below).
 - 12025nf NORTHERN MARIANAS KPBS Saipan in CH 2230, IS, ID, tlk, mx (Zilmer NM 11/2)
 - 12035 SWITZERLAND SRI in EG 2100, "Dateline", xmsn to Africa (Zilmer NM 11/5)
 - 12055 USSR R. Moscow in CH 2312-0200, M into mx? bloc, traditional CH mx (Jordan PA)
 - 13695nf USA WYFR Family Radio in EG 1600, "Sound of New Life" (Zilmer NM 11/1) also in EG w/relig pgm, exc, still on at 2130 (Treibel WA 11/4) ED: 1st time WYFR on 13.
 - 13790nf WEST GERMANY DW in GM 1330-1655*, ID but no site location given (Buer FL 10/17) hrd in EG 1810-1850*, "African Life & Education", EG/GM lang lessons, into lang. at 1900, f-g (Jordan PA 10/11) ED: See p. 22 Nov: FRENEX for more info on this.
 - 15110nf AUSTRALIA RA in EG 0005-0030, presumed BCOMS via RA for Fiji, nx (Jordan PA)
 - 15115nf NORTH KOREA R. Pyongyang in EG 0030, propaganda, martial mx, ID (Treibel WA 11/4) ED: Apparently this one replaces 15140 which was not hrd as previously.
 - 15135nf CHINA SRI relay via Kunning in EG 1305, Swiss IS 1305, skeds for Far East & SE Asia, relig message in FR, time pips 1330, p (Jordan PA, Johnson GA 11/1)

15160 HUNGARY R. Budapest in IT *1300, IS, tlks by OM & YL, //9835 (Prath FL 10/25)
15190 BRAZIL R. Inconfidencia in PT/EG 2305, ID, freqs in both langs (Buer FL 10/29)
15220nf PHILIPPINE IS. VOA relay in EG 2130-2300*, usual VOA fare, ex (Treibel WA 10/26)
ED: G. Hauser's DX pgm reports this one on 15225 but I double checked frequency.
15225nf USA WCSN Scotts Corner, Me. in EG 1730, nx, g (Treibel WA 10/15)
15230nf SOUTH AFRICA RSA in PT 1930, nice accordion mx, exc (Treibel WA 11/18)
15240 EAST GERMANY RBI in AR/GM/EG 1340-1530, AR to 1427, tlks, guitar mx, GM at 1430,
skeds, nx, into EG 1515 w/topical nx details (Jordan PA 10/10)
15245 ZAIRE La Voix de Zaire in FR 2220, Afro folk mx, ID?, jammed (Schulze W. GERM.)
15260 ASCENSION IS. BBC relay in EG 2001, world nx, ID, sports, tlks (Hollerman AL)
15265 BRAZIL R. Nacional in GM 1940-1950*, vocals, ID, flute mx (Jordan PA 10/17)
15270 RWANDA DW relay in GM 2159, IS, Kigali site annmt in FR, nx (Prath FL 10/17)
15270 ECUADOR HCJB Quito in EG 1933, vocal, energy tlk, relig tlk, ID (Hollerman AL)
15280nf HONGKONG BBC relay in EG 0415, nx, g (Treibel WA 10/30)
15280nf JAPAN RJ in EG 0100, nx, cmntry, xmsn to SE Asia (Zilmer NM 11/6)
15305nf NORTHERN MARIANAS R. Saipan in Burmese? 0025-0108, mx, tlks, ID, nice mx, p
(Hollerman AL 10/11, Treibel WA 10/27) ED: Reception here was 444.
15320 UNITED ARAB EMIRATES R. Dubai in EG 1607, "Women in Islam", ID, TC (Arland PA)
15360 MOROCCO R. Tangiers in AR 1110, nx, wx (Cobb YUCATAN 10/14)
15360 SINGAPORE BBC relay in EG *2359, IS from 2354, ID, nx, g (Treibel WA 10/18)
ED: Apparently this is a new time bloc. Not listed this hr in EG in RDI or WRTH.
15365 FRANCE RFI in FR 1132, nx and feature (Cobb YUCATAN 10/14)
15385 UNITED ARAB EMIRATES R. Dubai in AR 1358, freqs, nx, //15135 (Johnson GA 10/12)
15435nf HONGKONG BBC relay in EG 2300, nx, cmntry (Zilmer NM 11/5) in CH/EG 0020-0105
"Radio Newsreel", ID, CH "English by Radio" (Buer FL, Treibel WA 11/6)
15455nf CHINA R. Beijing in CH, Woman w/nx, CH mx, S-9+ sig (Treibel WA 10/30)
15570 SWITZERLAND SRI in EG 1330, "Dateline", nx, cmntry, wx (Zilmer NM 11/3)
15575 SOUTH KOREA RK in EG 2330, nx, cmntry, g (Bauerhuber NY 11/3)
15590 BELGIUM BRTV in EG 1353, mx pgm, DX pgm (Cobb YUCATAN 10/30, Edwards 10/15)
17600 BELGIUM BRTV in EG 1330, "Brussels Calling", nx, press review (Zilmer NM 11/3)
17620 FRANCE RFI in EG 1645, FR lang lesson, nx, ID, exc (Edwards 10/17)
17685nf USSR R. Moscow in EG 0025, "News and Views", f-g, //17675 (Treibel WA 10/30)
17705 NEW ZEALAND RNZ in EG 0236, ezl & pop mx, ID's, TC, pips, drama, f (Sampson WI)
17720 FRANCE RFI in EG 1255, "Match Maker", ID, sked, into FR 1300 (Jordan PA 10/17)
17795 FRANCE RFI in EG 1615, ID, FR polit. scene, Afro mx, "Spotlight on Africa",
FR lesson, world nx headlines, g (Dillon GRECE 10/17)
17800 ITALY RAI in IT 1400, nx, mx, //15355 (Zilmer NM 11/7)
17810 JAPAN RJ in EG 0100, nx, cmntry, xmsn to SE Asia (Zilmer NM 11/6)
17830nf USA WHRI South Bend, Ind. in EG 2250, rock mx, f-g (Treibel WA 10/29)
17830 SWITZERLAND SRI in EG 1330, "Dateline", nx, Swiss Merry-go-Round (Zilmer NM)
17835nf SOUTH AFRICA RSA in DT? or GM? at 1856 s/off, ID, g (Treibel WA 11/18)
17835nf JAPAN RJ in EG 2100, nx, Japan scene, xmsn to Samer (Zilmer NM, Treibel WA)
17845 SPAIN REE in SP 1758-1810, Sp mx, ID, freqs, sked, g w/fade (Hollerman AL 10/12)
17880nf USA VOA Delano in EG 2259*, IS, g (Treibel WA 10/29) ED: New freq confirmed by
G. Hauser in 11/14 DX pgm bcst over WRNO.
21455 WEST GERMANY R. Liberty in RS? 1636, occasional ID's, jammed (Sampson WI 10/12)
21505 CZECHOSLOVAKIA R. Prague in EG 1600, nx, cmntry, local mx (Zilmer NM 11/7)
21515nf USA WCSN Scotts Corner, Me. in EG 1910, cmntry, ad for "Monitor World Edition"
newspaper, sports roundup, world nx, full ID, f (Hardester PA 10/22) hrd also at
1756 s/on w/chimes IS & church service, g (Buer FL 10/11)
21540 EAST GERMANY RBI in EG *1215-1257*, topical nx, features (Jordan PA 10/11)
21555usb SWEDEN RSI in SW 1515, xmsn to Mid-East & Africa (Zilmer NM 11/6)
21600 WEST GERMANY DW in EG 1500, newslne Cologne to Africa (Zilmer NM 11/3)
21605 UNITED ARAB EMIRATES R. Dubai in AR/EG 1250-1403*, AR vocals & mx, annmts & ID,
time pips 1300, nx?, into EG 1330, features, g (Jordan PA 11/3)
21645 LIBYA SPLAJBC in AR 1300-1345+, nx?, tlks, ID, enegized mx, speech, shouts from
crowd, short drama, vg (Jordan 10/19) in AR 1810, Qu'ran, ID, nx, f-g (Buer FL)
21675nf CANADA CBC in EG 0120, world nx & cmntry (Levison PA 10/15)
21695nf SWITZERLAND SRI in EG 1330, topical world nx, tlks, features (Jordan PA 10/26)
"Dateline", nx, cmntry in EG 1330, //11695, 11955, 15135, 15570, 17830 (Zilmer NM)
21700nf GABON R. Japan relay in EG 1500, nx, current affairs, cntry (Zilmer NM 11/4)
21700nf USA WCSN Scotts Corner, Me. in EG 1500, nx (Zilmer NM 11/7)
21710nf UNITED KINGDOM BBC London in EG 1400, world nx (Zilmer NM 11/5)

Lots of new frequencies in the higher spectrum. Looks like the propagation ceiling is
finally on the way up again. Thanks to all who sent in their best loggings for the month.

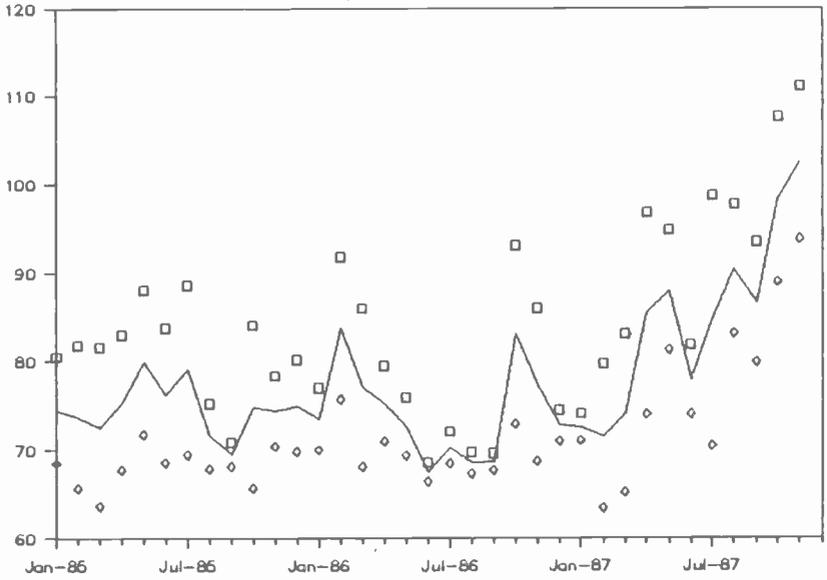
The mystery of the month has been rattling around the SWL conference on Pinelands RBBS. Who is relaying Radio Beijing? The answer to that question is now known. The story begins on November 2 when Lou Josephs discovered Beijing relayed on 9770 kHz, and two days later I found a relay on 11715. These relay frequencies are being used from 00 to 05 UT, starting with the ENA English service at 00 UT. At first, the 03 UT English to WNA was also relayed, but then changed to Chinese; Chinese was broadcast at 01, 02, and 04 UT. At 00 UT November 11, both 9665 direct and the 9770 relay were very strong, and in listening with two different receivers I could clearly here the 1-2 second satellite circuit delay. At 11 and 12 UT November 11, the frequency announcements changed. At 12, 9645 was moved to 9635 and 7335 was added. The frequency announcements changed between the 12 UT transmission on November 12 and later that day at 00 UT November 13. The new frequency announcements mentioned 11715 and 9770 at 00 and 12 UT. No mention of sites. At 03 UT November 13, the English to WNA started again, replacing the Chinese programming that had been on for about a week. On the 14th, I could actually hear all the 12 UT outlets, including 7335 with the IS under CHU. 7335, of course, didn't last very long. As propagation disturbances do not affect the signals, Lou and I thought it was this hemisphere. Lou and I can hear, at times, the Radio Havana Spanish programming underneath the very strong relay signal on 9770. On the 16th, George Wood of Radio Sweden International advised me that the BBC MS was investigating possible relay sites in southwest Europe (Spain and Portugal). Jonathan Marks of Radio Nederland reported via Media Network November 19 that it was not Gabon, Portugal and "officially" not Spain (the "officially" has yet to be explained). Further, there was extensive programming in a variety of European languages during the European evening, not yet logged here in NA. Jonathan reported the mystery as solved to Lou Josephs the next day and Lou passed that information on to me. Jonathan conducted an extensive computer literature search which turned up a small item dated some months ago in the BBC MS literature that China was about to run its own relay station in Mali. I could not find the story in a similar literature search on NEXIS. According to Lou, the BBC MS refined its DF work and confirmed the location. Jonathan reported the rest of the story on Media Network November 26: the Chinese rebuilt Malian HF transmitters near Bamako, last used for an external service in the 1970s, and added a satellite receiving station. Johnathan had a telephone conversation with the Assistant Director of Radiodiffusion-Television Malienne. The latter confirmed the relay operation and gave additional details. (The reason why propagation disturbances do not affect the relay signals is that reflection points are at a low latitude, far outside the auroral zone.)

Thanks to R.C. Watts for the Red Cross schedule and to David Alpert for the BBC World Service schedule (S=Sackville relay, FE=Far East). Other notes (in no particular order): Radio Algiers on 9509 is only audible for the first 30 minutes as Radio Bucharest on 9510 opens in French at 1930, and the frequency is a mess thereafter. The new North Korean outlet on 15115 (ex-15140) at 00 UT noted from November 11 on, excellent signal. The monthly flux graph clearly shows the upturn from 1985 to date.

Thomas R. Sundstrom	:	Telex:	6502446376 (via WU1)
PO Box 2275	:	MCI Mail:	244-6376
Vincetown	:	The Source:	BCF811
NJ 08088-2275	:	Compuserve:	(send via MCI Mail)
	:	Packet Radio:	W2XQ @ WB2MNF
	:	Pinelands RBBS:	609-859-1910 (24/12/3 8N1)

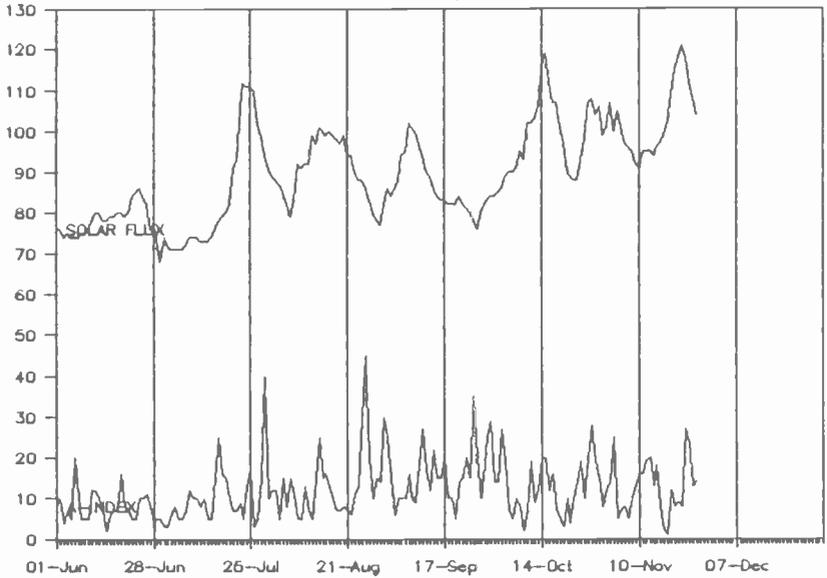
SOLAR FLUX: 1985-86-87

Mean & +/- 1 Standard Deviation



SOLAR FLUX & A-INDEX: Jun - Dec 87

Data broadcast by WWV



This report covers changes entered between 10/30/87 and 11/26/87.

ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstrom, W2XQ

Start End Time Time (UTC) (UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000 0100	Bulgaria	R Sofia	11720	6070							NA/M Eu		11/10/87
0000 0100	China	R Beijing	11715	9770	9665						ENA	11715, 9770 v Mali	11/21/87
0000 0200	Cuba	R Havana	6140								Americas		11/22/87
0000 0050	North Korea	R Pyongyang	15160	15115							AP		11/13/87
0000 0100	Spain	Sp Foreign Radio	9630	6125							NA		11/04/87
0000 0400	USA	KVOH	9495										11/11/87
0000 0100	USA	WHRI	9765								Eu		11/10/87
0030 0330	England	BBC	9515	7325	6175	5975					World Service/NA		11/12/87
0030 0100	USSR	R Kiev	13645	11890	11790	7165	6200	6020			NA		11/10/87
0035 0200	Ecuador	HCBJ	15155	11775	9870						NA		11/10/87
0045 0345	New Zealand	R New Zealand Int'l	17705	15150							Pac/Aus/Melanesia	Sat only	11/08/87
0050 0110	Vatican State	Vatican Radio	11780	9605	7315	6150					NA		11/10/87
0100 0400	Costa Rica	R for Peace	7375									Eng & Span	11/10/87
0100 0300	Iraq	R Baghdad	11810	6110							Ind/Pakis/NA/SA		11/13/87
0100 0200	Spain	Sp Foreign Radio	9630	6125							NA		11/04/87
0100 0400	USA	WHRI	9745	7400							Eu/CA/SA		11/04/87
0200 0300	Canada	R Canada Int'l	9755	5960							NA	Tue-Sat	11/19/87
0200 0400	Cuba	R Havana	6140	6115							Americas		11/22/87
0200 0700	Ecuador	HCBJ	11775	9720	6230						NA		11/15/87
0200 0205	France	R France Int'l	9790	6055	5950	3965					ENA/LA/Caribbean/Eu	nx in English	11/22/87
0200 0230	Switzerland	R Swiss Int'l	12035	9885	9725	6135	5965				NA		11/18/87
0200 0300	Taiwan	V of Free China	15385	11745	11740	9765	9555	7445	5985		NA/Jap/As/CA/AusNZ	MYFR:11740, 9765, 5985	11/26/87
0206 0400	USA	WCSN	9850								C Afr	90 deg	11/04/87
0230 0300	Portugal	R Portugal	9705	9680	6060						WNA/ENA	Mon-Fri	11/13/87
0300 0400	China	R Beijing	15455	11980	11715	9770	9645				WNA	11715, 9770 v Mali	11/21/87

1000	1200	USA	WCSN	11945					SAA Afr	11/04/87
1040	1057	Switzerland	Red Cross BC Service	17830	15570	11935	9885		Far East	11/21/87
1100	1300	England	BBC	11775	6195	5965			World Service/NA	11/12/87
1100	1130	Switzerland	R Swiss Int'l	17830	15570	11935	9885		SE As/Aus/NZ	11/18/87
1100	1130	Switzerland	Red Cross BC Service	7210					Eu	12/27&28-1/31-2/1&28
1200	1300	China	R Beijing	11715	9770	9665	9635	7335	EMA	11/21/87
1201	1300	China	R Beijing	11755	11600	9530			SE Asia	11/14/87
1300	1400	Canada	R Canada Int'l	17820	11855	9625			NA/Carib	10/30/87
1300	1400	China	R Beijing	7335					MNA	11/14/87
1300	1400	England	BBC	11775	11750	9740	9510	6195	World Service/NA	11/12/87
1300	1800	Jordan	R Jordan	9560					11750 & 9740 FE	11/04/87
1300	1600	Pakistan	R Pakistan	15605	13665	11615	9465		World Service	11/14/87
1300	1500	USA	WHR	11790	9455				Eu/CA/SA	11/08/87
1301	1400	China	R Beijing	11755	11600	9530			SE Asia	11/14/87
1310	1327	Switzerland	Red Cross BC Service	21695	17830	15570	15135	11955	SASE Asia	11/21/87
1330	1400	Switzerland	R Swiss Int'l	21695	17830	15570	15135	11935	E Afr/India/Aus/NZ	11/18/87
1400	1700	Canada	R Canada Int'l	17820	15440	11855			NA/Carib	11/19/87
1400	1500	China	R Beijing	15165	11600				S Asia	11/14/87
1400	1500	England	BBC	11750	9740				World Service/NA	11/12/87
1430	1600	Gua	KIMR	9870					India	11/05/87
1500	1600	China	R Beijing	15165	11600				S Asia	11/14/87
1500	1515	England	BBC	15260	11750	9740	9515		World Service/NA	11/12/87
1515	1615	England	BBC	15260	11750	9515			World Service/NA	11/12/87
1515	1530	Hungary	R Budapest	11910	9835	9585	7225	6110	Eu	11/13/87
1530	1625	Czechoslovakia	R Prague	21605	17730	15110	13715	11990	Afr/As	11/21/87
1530	1600	Switzerland	R Swiss Int'l	21695	17830	15430	9885		ME/E Afr	11/18/87
1545	1600	Canada	R Canada Int'l	17820	15325	15315	11935	11915	CSE Eu	11/19/87
1600	1700	China	R Beijing	9570	7295				EAS Afr	11/14/87
1600	1655	France	R France Int'l	15315	11995	11705	9860		Afr/ME/W Eu	11/21/87
1600	1630	Pakistan	R Pakistan	15125	11625	11615	9785	9465	ME/EAS Afr	11/14/87
1600	1630	Sweden	R Sweden	11855	6065				S As/Eu	11/22/87
1615	1745	England	BBC	15260	9515				World Service/NA	11/12/87
1630	1900	Pakistan	R Pakistan	11570	6210				Eu	11/14/87
1700	1800	China	R Beijing	9570	7295				EAS Afr	11/14/87
1700	1730	Switzerland	Red Cross BC Service	7210					Eu	12/27&28-1/31-2/1&28

This report covers changes entered between 10/30/87 and 11/26/87.

ENGLISH LANGUAGE DX SHOWS: By Day of Week
Compiled by Thomas R. Sundstrom, W2YQ

Shortwave DX Program	Show Name	Start Time	Start Date	Time	Frie	Country	Station	Freq							Target Area	Notes re DX Show	Record Last Updated
								81	82	83	84	85	86	87			
** DAY OF THE WEEK: Sunday																	
Talkback	1230	1230	Australia				R Australia	9770	9580	7215	7205	6080	6060	5995	As/Pac/PapMG	11/04/87	
Talkback	1730	1530	Australia				R Australia	9580	7215	7205	6080	6060	6035	5995	As/Pac/PapMG	11/08/87	
Talkback	2030	2030	Australia				R Australia	9620	9380						As/Pac/PapMG	11/08/87	
** DAY OF THE WEEK: Tuesday																	
DX Program	0140	2300	USSR				R Moscow	15425	13605	12050	9530	7400	7290	7150	EMA	11/10/87	
SW Merry-Go-Round	0305	0100	USA				WRI	9745	7400						Eu/CA/SA	11/10/87	
Sweden Calling Diers	0310	0100	USA				WRI	9745	7400						Eu/CA/SA	11/10/87	
RBI DX Club	0320	0300	Serean Dee Rep				R Berlin Int'l	9560	6080						WNA	11/10/87	
DX Program	0340	2300	USSR				R Moscow	15425	13605	12050	9530	7400	7290	7150	EMA	11/10/87	
DX Program	0440	0400	USSR				R Moscow	13845	12050	11790	7290	7260	6190	6150	WNA	11/10/87	
DX Program	0640	0400	USSR				R Moscow	13845	12050	11790	7290	7260	6190	6150	WNA	11/10/87	
World of Radio	2100	1900	Costa Rica				R for Peace	21550								delayed	11/13/87
** DAY OF THE WEEK: Wednesday																	
World of Radio	0300	0100	Costa Rica				R for Peace	7375								delayed	11/13/87
** DAY OF THE WEEK: Thursday																	
World of Radio	1615	1559	USA				WRND	15420								subject to change	11/08/87
** DAY OF THE WEEK: Friday																	
World of Radio	0130	0000	USA				WRND	7355									11/08/87
DX Show	0245	0230	Portugal				R Portugal	9705	9680	6060					WNA/EMA	11/13/87	
DX Show	1615	1600	Portugal				R Portugal	15245							ME	11/13/87	
World of Radio	1900	1900	Costa Rica				R for Peace	21550								delayed	11/13/87
DX Show	1915	1900	Portugal				R Portugal	15250	11870	9740	7155				Afr/Eu	11/13/87	
** DAY OF THE WEEK: Saturday																	
World of Radio	0100	0100	Costa Rica				R for Peace	7375							WNA	11/13/87	
SW Club	0402	0400	Hungary				R Budapest	11910	9835	9585	9520	6110	6025			delayed	11/13/87

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- size : 21cmXx15cmW	:	have been sponsored.
- print : offset	:	
- editor: Ravindranath G. Sewdien	:	Last update: August 21, 1987

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- 4850 AIR Kohima, Kohima 797 001, Nagaland, India
- 4850 R Capital, Centro Comercial Los Rulices, Av. Francisco de Miranda, Caracas, Venezuela
- 4850 R Clarin, Apartado 205-2, Santo Domingo, Dominican Republic
- 4850 R La Peca, Jr. Independencia 656, La Calzada, Moyobamba, Peru
- 4850 R Tashkent, Khorezskaya 49, Tashkent, USSR
- 4850 Rdiffusion Nationale du Cameroun, B.P. 281, Yaounde, Cameroon
- 4850 Ulan Bator R, C.P.O.Box 365, Ulan Bator, Mongolia /For R Moscow: Moscow, USSR/
- 4850 Zhongyang Renmin Guangbo Diantai Beijing, Xi Chang An Jie 3, Beijing, China
- 4850.2 R Chota, Antonio Soto 150, Chota (Cajamarca), Peru
- 4850.8 R Luz y Vida, Casilla 222, Loja, Ecuador
- 4853 R San'a, Ministry of Information, San'a, Yemen Arab Rep.
- 4855 R Emisora Arauna, C.P. 214, 78300 Barra do Garca MT, Brazil
- 4855 R Por um Mundo Melhor, C.P. 377, 35100 Governador Valadares MG, Brazil
- 4855.3 Mauritius Broadcasting Corporation, Broadcasting House, Louis Pasteur Str. Forest side, Mauritius
- 4855.8 R El Condor, Uyuni, Depto. Potosi, Bolivia
- 4855.8 RRI Palembang, Jln Merdeka 2, Palembang, Sumatera Selatan, Indonesia
- 4855v R Mocambique, C.P. 2000, Maputo, Mocambique
- 4860 AIR Delhi, Broadcasting House, Parliament Str., New Delhi 110 001, India

STATION ADDRESS LIST

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SHORTWAVE STATIONS

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