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The
Journal
of the
North
American
Shortwave
Association

Volume XXXI, Number 1
January, 1991

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NASWA Notes

Bob Brown
238 Cricklewood Circle
Lansdale, PA 19446
Compuserve 74756.1557



I'll start off the New Year by wishing you and yours all the best for a healthy and prosperous 1991.

Things are really jumpin' on the SWL meeting front. As you can see, the calendar is growing and if all the requests I've received for member lists turn into meetings, we'll need a full page for the calendar. That's really great, there's nothing like getting together and exchanging radio tales with fellow hobbyists.

GENie

I received a note from **Guy Atkins** telling me about the SWL Section of the Radio and Electronics Roundtable on the GENie telecommunications service. Apparently NASWA members, **Allan Courtney**, **Richard Cuff**, and **Paul Lukas**, are doing a great job promoting NASWA and *The Journal* to the roundtable participants on GENie. Great going guys! We all appreciate your efforts. **Richard Cuff** tells me that he's trying to coordinate some hands-on demonstrations of GENie at the Winter SWL Fest in March.

Speaking of The Fest, you'll find a registration form in this *Journal*. I'll go out on a limb and say that you are guaranteed a great time...just ask anyone who's attended past year's Fests. For those new to the hobby, the Winter SWL Fest is not hosted by any one club, although many clubs participate. **Dr. Harold Cones**, **Kris Field**, and yours truly form the "official" committee and we have the assistance of some great people in the hobby to make it an enjoyable weekend. I hope to see you there in March.

Thanks Bruce!

This month is the last month that **Bruce MacGibbon** will be editing Listener's Notebook. I spoke with Bruce on the phone after receiving his letter and Bruce has decided it's time to take a break from LN and spend a little more time with his family. On behalf

of the entire NASWA organization I'd like to thank Bruce for his service to the club.

I managed to find an able body who was just chompin' at the bit to do Listener's

Calendar Of Events

January 15 - N.E. Ohio SWLers. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. Speaker - **George Zeller**, A.C.E. Pirate/Clandestine authority and author of "The Pirate Radio Directory" **Mike Fanderys** (216)661-2443

January 18 - Phila. Area NASWA Chapter. Montgomery Elementary School cafeteria, Montgomeryville, PA 7:30 PM. **Dan Cashin** (215)446-7831

January 29 - First Meeting of the Boston Area NASWA Chapter in the GTE Laboratories Auditorium, Waltham, MA 7:30 PM. **Paul Graveline** (508) 470-1971.

March 22-24 - Fourth Annual Winter SWL Festival, Kulpsville Holiday Inn, Kulpsville, PA. Registration form in this month's *Journal* or write Box 591, Colmar, PA 18915

April 21 or April 28 - **Morton Kasday** will host a get-together of the New York City and metro area DXers on one of these dates. If you are interested in attending, send an SASE to Box 6624, Jersey City, NJ 07306 and indicate your date preference.

Members are invited to submit items to be included in this calendar to **Bob Brown**.

Notebook and I'm pleased to announce that **Dan Ferguson** will be our new editor. Dan has a long history within NASWA and the SW community and you can read about him in this month's NASWA Portraits. Dan will be accepting your contributions for Listeners Notebook at:

Dan Ferguson
P.O. Box 2604
Dale City, VA 22193
CompuServe ID: 76702,771.

Members In The Gulf

I've received word of two NASWA members serving in the Gulf. I'm sure they would appreciate hearing from you. They are:

Gerry Bishop
AFSOC A-3-4
APO New York 09855

Major James C. Clifford
Operation Desert Shield
HHB VII Corps Artillery
APO New York 09685

NASWA Makes NY Times

Ed Rubin sent me a copy of an article that appeared in the travel section of the Dec. 2 NY Times entitled "Shortwave Radios: More Powerful, More Portable." The article referenced quotes from our own Bill Oliver as well as Stu MacKenzie of The American Shortwave Listeners Club. It was a pretty good article that gave an overview of shortwave radio. Thanks Ed!

From The Mailbag

Don Roth of Shelton, CT writes - "I've been a ham for 33 years, but just became interested in shortwave. *The Journal* is great except that I'm having trouble with a lot of the abbreviations/shorthand used in different features. Why not make a list to mail to new subscribers?"

Yours is not the first letter we've received mentioning confusion with abbreviations Don. We do have an abbreviation list and you should have received it when you joined. We'll gladly get another one off to you. Recently, Harold Cones, our Ed-In-Chief, asked all the editors to adhere to the abbreviations on the list and between this and having the list everything should fall into place for you. I remember my confusion years ago, you're not alone! Thanks for writing.

Doug Ricketts of Flint, MI writes - "I have thoroughly enjoyed my membership and your publication. Both my son(17) and I(46) are enthusiastic listeners and NASWA readers. Your booklet changes hands several times the week it arrives and we save every copy for reference. We most enjoy the product and book reviews, especially the articles on SW radio antennas which came out early this year. We intend to purchase a powered antenna reviewed in your publication. Next we enjoy the up-to-date listings of English broadcasts and finally the used equipment ads. Thank you for your God-send to the shortwave listener!" What can I say Doug? You sound like you're havin' a ball!

Robert Woodward of Cotton Valley, LA writes - "After getting back into the hobby after a very long absence, I began to look for information to help me with my renewed interest into the world of shortwave listening. When I received the sample copy of *The Journal* I knew I had found what I was looking for. With the help of *The Journal*, I have logged stations that I would have never been able to without it. The covers are almost worn off the October and November issues...."

Robert is looking for SWLs in his part of the country. I'll be glad to look in the database and print you a list of members Robert. Thanks for the nice letter!

Last but certainly not least, I received a

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Net Controls Bob Brown KW3F and Dave Kirby N8JQX host an always lively gang of DX monitors. (Best heard in the eastern half of NAM)

letter, and a great list of comments and questions from Ben Mancine of Elyria, OH. Ben says - "After reading your column in the December issue I had to agree that participation is what makes NASWA work, so I thought I'd participate! Since joining in April 1990, I've been more than pleased - I've been delighted - with the contents of *The Journal* every month. The regular features I rely on most heavily are the QSL Report and Tropical Band Loggings. Other favorites include African Destinations, Int'l Band Loggings, and Listener's Notebook. *The Journal* serves my interests so well that I'm not planning to renew my commercial subscriptions."

The questions and comments that you sent along were very good and I'm sure that

others have the same questions. I'm going to pass them on to the appropriate editors so that they can expand on them in their columns. Thanks for your input Ben!

Behind The Scenes

In closing this month I'd like to give a special thanks to two women who never turn on the radio, but work very hard supporting NASWA. Bill Oliver's wife Evelyn, and my wife Gail, deserve a round of applause for their help with various club needs which include labeling 1700+ Journals, running to the post office, proofing columns, and providing information about NASWA over the phone. Besides, who else would tolerate all this craziness? Thanks ladies, we really appreciate it!

Welcome to the following new NASWA members -

Carl Adler, Anchorage, AK
Dick Austin, North Middletown, NJ
Daniel Barstow, New Britain, CT
Steve W. Batson, Institute, WV
Paul Beebe, Burlington, VT
Mark D. Binder, Devault, PA
Paul Blumstein, Palos Verdes, CA
Brian Boulden, Fairfield, CA
Michael Breskiewicz, Elysburg, PA
Joe Buch - N2JB, Virginia Beach, VA
Bill Burkhardt, Pueblo, CO
Larry Shawn Cagle, Cape Girardeau, MO
Billy Cartwright, Charleston, SC
Bob & Pat Chukinas, South Bend, IN
Stephen D. Churchill, Spokane, WA
B.A. Cords, Sparks, NV
Matthew Mark Drew, Des Moines, IA
Ken Dukes, Portland, OR
A. N. Durden, Albany, GA
David Edger, Fairfax, VA
Henry Erlenwein, Staten Island, NY
Michael Fanderys, Parma, OH
Michael Ferro, Greenlawn, NY
Stanley G. French, Round Pond, ME
Matthew R. Gallagher, Chicago, IL
Paul Graveline, Andover, MA
Piotr L. Grojec, Kensington, MD
Martins Gulbis, Santa Clara, CA
Joseph Gurinsky, Miami, FL
Robert D. Haas, Medina, OH
James V. Hopkins, Kansas City, KS
Richard R. Hovish, Phoenix, AZ

Edward N. Johnson, Tallahassee, FL
Paul C. Kaiser, Denver, CO
Bob King, Duluth, MN
Harlan R. Knowles, Mtn. Home, ID
Philip J. Krueger, Van Nuys, CA
Harry Long, Harlan, IN
Richard J. Marton, Curwensville, PA
Thomas W. May, Plano, TX
Hugh A. McGibboney, Grand Prairie, TX
Terry L. Murchison, Sacramento, CA
Frank Neal, Jr., Buffalo, NY
Darrell Neft, Costa Mesa, CA
Walt Novinger, Pacifica, CA
Andrew R. Nowak, Malden, MA
Mike Opalka, Gridwood, AK
George Pulju, Menahga, MN
Joseph P. Richardson, Delmar, NY
Tom Roddy, Bakersfield, CA
Alan Roe, St. Albans, ENGLAND
Paul Roscoe, Bangor, ME
Keith Semerod, Pottsville, PA
Jose Da Silva, Bristol, RI
Robert Starling, The Rock, GA
Duncan Steele, Norridgewock, ME
Lucien Tassy, Miami, FL
Murlidhar Tekchandani, Houston, TX
A. Roger Uhlitz, Boca Raton, FL
George Van Loon, Warren, MI
Jim Ward, Kissimmee, FL
Jon L. Williams, Indianapolis, IN
William F. Wolfreys, Dorchester, MA
Tom Wood, Newark, CA

DXer's Forum

Kevin Atkins
6165 Lakeside Drive
Pinson, AL 35126
CompuServe 71021,3212



IN A SMOKE-FILLED Country & Western bar, with Pabtz Blue Ribbon on tap and Conway Twitty on the juke box, two serious figures huddled over a corner table. Oblivious to the merriment and consumption going on around them, they spent hours drawing circles on bar napkins, then drawing little rays that bounced, bent, and otherwise wended their way around the circles.

Thus was born the friendship of John Bryant and David Clark. Independently, they had both ceased to believe the traditional explanations for many propagational phenomena; together, they traded the bar napkins for computers and embarked on a three-year study to find something they *could* believe. After poring over various scholarly and scientific papers from the geophysical community, they found further reason to doubt tradition. They collaborated on "Notes on Tropical Band Propagation," an article in *fine tuning's Proceedings 1990* which documented their skepticism and summarized their "in-progress" findings.

John and David have agreed to write an in-depth series on the mechanics of propagation enhancements on the tropical bands for the DXer's Forum. The first of the three-part series, dealing primarily with dawn enhancement, comprises this month's column. Part two deals with graylining and some other terminator-related enhancements, and part three concludes the series with a discussion of sunset enhancement.

The actual experience of the authors and other DXers was the launching pad for this research. That experience remains a valuable "reality yardstick" for testing various theories on tropical band propagation. Hopefully this series of articles will provide a basis for future discussion of this fascinating aspect of our hobby.

Dawn Enhancement On The Tropical Bands

by John H. Bryant with David M. Clark

Dawn enhancement (at the receiver) is a daily propagational event of great use to SWL DXers and is usually "discovered" by each of us rather early in our hobby careers. Who can forget tuning around 60 or 90 meters in the predawn darkness, hearing very little (or only Latins) and returning a bit later to find the bands chock full of exotic signals from Papua New Guinea, Indonesia or even far Nepal? Everyone who experiences that discovery for themselves knows a little how Lindbergh, Columbus or Neil Armstrong must have felt. EUREKA! As David and I have studied this daily event, we have

come to see that its existence and its exact character have profound implications on the general understanding of long distance radio propagation, especially at tropical band frequencies.

It has been our experience that signals from the west and north of us (the Pacific, East and South Asia) rise almost elevator-like from the noise floor as dawn enhancement takes over the band. Signals which were only barely audible prior to dawn enhancement rapidly increase in strength, peak and then subside as the band fades out. Further, signals that were totally undetectable even as "hets" prior to dawn appear first at the threshold of audibility and then, sometimes, at quite listenable

levels before subsiding as the band itself is wiped out by growing daytime D-layer absorption. Carefully observing signals not suffering interference from other man-made sources, we usually notice absolutely no change in the character of the signal as its strength increases—that is to say, if there was sideband fading or “polar flutter” fading on the signal before dawn enhancement, that flutter continued as the enhancement occurred. If there was no real fading pattern to the signal before dawn enhancement, there was none during or after “max dawn” either. This lack of major fading episodes tends to rule out multi-path (multi-mode) reception as a cause or characteristic of dawn enhancement.

What's Going on Here?

Naturally, that's the question most of us ask. We pour over the little propagation information available to SWLs and maybe seek out some radio amateur articles. It's surprising that so little is written about so profound a phenomenon as dawn or sunset enhancement. That hole in the literature is even more evident in scholarly/professional circles, where the perturbations caused by sunrise and sunset seem to be considered disruptions and anomalies in otherwise more predictable propagation models. For example, the sophisticated propagation modelling computer program utilized by the BBC purposefully ignores the “unstable” dawn/dusk propagation factor. Seen from the viewpoint of people trying to achieve reliable communication

circuits between two distant points, this negative attitude toward dawn and sunset enhancement is very understandable.

Fortunately, several explanations of dawn enhancement have been put forth over the years. The first and earliest of these that we have found was published in the Feb. 1930 issue of *Radio News* magazine. The important points are summarized by a drawing (Figure 1) which accompanied that ancient article. The explanation is that the “tilt” of the “equivalent reflecting layer” at the day/night terminator acts as a concave mirror focusing more signal from the night side of the earth on the receiver than would otherwise be the case.

That 1930 explanation is clearly related to a more modern “explanation” that postulates that the normal (say, 3-hop) signal is replaced by a much stronger, flatter (2-hop) signal which normally goes “over your head.” This less attenuated 2-hop signal is refracted downward to you by the dawn tilt. Referring to Figure 1, it is as if “Ray A” were the weak 3-hop signal and the now arriving “Ray B” were the stronger 2-hop signal. As my daddy used to say, “That dog won't hunt!” If either of those mechanisms were true, we should expect to notice *violent* multi-path distortion and fading as the 3-hop and 2-hop signal arrived, equally and simultaneously, as enhancement started. This violence would exist until the stronger 2-hop signal became totally dominant. Neither David nor I have ever noticed such transitional fading...and we have been looking for a long time.

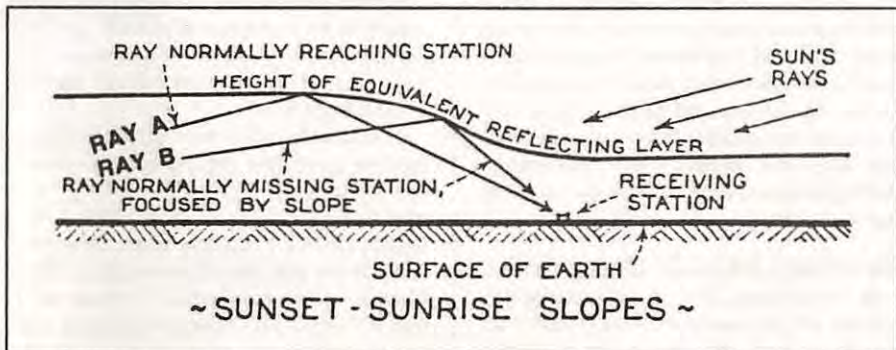


FIGURE 1. SUNRISE OR SUNSET ENHANCEMENT (As published in *Radio News*, Feb. 1930)

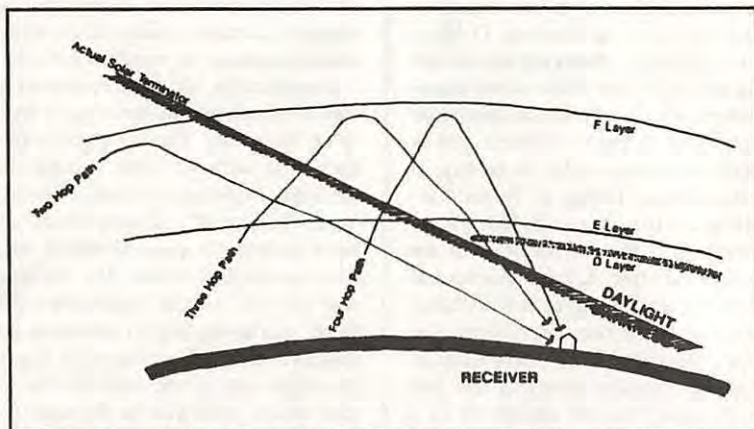


FIGURE 2. QUESTIONABLE MODEL OF DAWN ENHANCEMENT as published in fine tuning's Proceedings 1990. Were this model true, the authors believe that we would notice massive transitional fading and distortion during dawn enhancement.

Another related explanation exists in some hobby literature. It was covered in our 1990 Proceedings article, but the illustration is shown here as Figure 2. This approach postulates that several modes of signal are arriving at our antennas before dawn—4-hop, 3-hop and 2-hop. The total signal is so out of phase with itself that the result is subtractive rather than additive. This approach further postulates that as dawn occurs, the higher angle 3- and 4-hop signals are going to be cut off by the arrival of the dayside D layer, leaving the flatter 2-hop signal pristinely alone and therefore, much stronger. Once again, this could all make sense *if* we usually noticed a great deal of multi-path fading prior to and during the early phases of dawn enhancement. Needless to say, the person who proposed this model never listened much to tropical band dawn enhancement. Given the fundamental flaws in these various multi-hop models, it is easy to appreciate why the absence of transitional multi-path/multi-mode distortion and fading is important.

So What's REALLY Going On?

In our opinion, there is NO satisfactory model of the dawn enhancement that occurs on long haul tropical band signals as long as the traditional multi-hop model

of HF propagation is accepted, PERIOD. This growing feeling on our part, and an article by Bob Eldridge, VE7BS which made passing reference to a somewhat similar conclusion reached by the CCIR (International Radio Consultative Committee of the International Telecommunications Union) started our search through literally several feet of propagational research papers and texts, and led to the 60 page *Proceedings 1990* article, "Notes on Tropical Band Propagation." Since writing that article almost a year ago, we have learned of rather exciting research currently underway which should clarify an emerging new picture of the mechanisms of long range HF propagation. We think that the smart money is on a propagation model in which signals traverse planetary distances traveling parallel to the earth, never making ground hops at all!

In this vein, some emerging theoretical models postulate the signals "skidding along the under side of the ceiling" in a whispering gallery or single-sided duct mode. Others postulate most long haul (10,000 km and above) propagation taking place in a duct in the space between the E and F layers. Just how this miracle happens is somewhat secondary to us. The essential point is that we believe that the

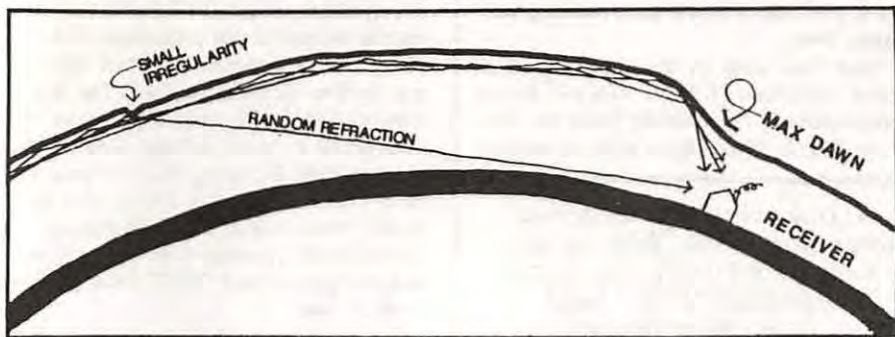


FIGURE 3. PROBABLE MODEL OF DAWN ENHANCEMENT. Note: the rate of curvature of the earth is doubled here to better illustrate the refractive pattern.

long haul DX signals travel above us and parallel to the earth. There are several theoretical models of the exact methods by which these signals are "scraped off the ceiling," as well. Some folks feel that it is the tilt of the layers themselves (caused by the day-night terminator) that "dumps" the signals down to us. Other models look to turbulence in the E layer as the dumping mechanism; still others look to the change in the general refractive index as sunlight reacts with the ionosphere. Again, the exact means by which this group of signals is refracted downward is secondary. Imagine an upside down road grader peeling those waves off the ceiling and sending them down to your ravenous antenna.

If you can, even for an instant, give up the traditional multi-hop model of propagation, you are left with the situation shown in Figure 3. Although this picture is non-traditional, it certainly squares with the facts that we see every morning when dawn enhancement performs its magic.

What Else Do We Know About Dawn Enhancement? Duration, Season and Location

In the hobby press, it has become fashionable to refer to the varying "width" of the day/night zone of twilight (the grayline). By "width of the grayline", all of us really mean the amount of *time* that transmitter or receiver takes to *pass through* the twilight zone, the width of which remains constant. The amount of time that any

point spends in the twilight zone varies radically based on latitude and season of the year. The variation by latitude is largely due to differences in absolute speed of rotation. (A point on the equator rotates at about 1,040 mph while a point on the Arctic Circle rotates about 375 mph.) Therefore, a more northerly point remains in a twilight zone of the same width almost three times longer than a point nearer the equator. Likewise, the slope of the twilight zone with respect to the planetary axis changes radically with the passing seasons. The movement of a point through the twilight zone is at a diagonal (thus having further to travel) except at equinox. This also affects the duration of dawn enhancement at your location. Refer to Figure 4 for a clearer picture of the "width" of the grayline.

Both David and I use John Devoldere's (ON4UN) software available through ARRL (\$40) or from many Hams for a \$15 shareware registration. It does many things including giving sunrise/sunset times and grayline "widths" for any location on the planet. To illustrate the variation in "widths" of the Grayline: ON4UN's software shows a minimum grayline "width" of 20 minutes for 21 June at the Bryant shack in Oklahoma (36 degrees N), while it is 75 minutes "wide" on Dec 21 at David's place near Toronto (43.6 degrees N). My other home near Victoria, BC (48.5 degrees N) has a grayline of 97 minutes "wide" at winter solstice! Although

the absolute width of the grayline does not vary, our time within it each morning certainly does!

One final note on duration related to your location. I have DX'ed dawn enhancement extensively from the San Juan Islands, Washington state, as well as

It is during this brief period when most of the "Indo hunters" hear the very rare and poorly equipped "RPD" local government stations.

from more southerly Oklahoma. Although I have no numerical data to support the feeling, experience indicates clearly that the longer, more northerly dawn enhancement in the San Juans comes on and then fades out much more slowly than it does in more southerly latitudes. This is also true, of course, of ground twilight at the two locations. I also have the distinct impression that the signal gain is less – though still very useful – in the gentler northern dawn enhancement. One could extrapolate that DXers on or near the equator experience a short but very forceful dawn enhancement. Can anyone confirm this possibility?

Introducing Max Dawn

"Max dawn" is a slang term meaning "period of maximum dawn enhancement" and is currently in use in SWBC DXing

circles in North America. It refers to a relatively short period (10-15 minutes) during the overall dawn enhancement event where the very weakest signals seem to pop up through the noise floor. The beginning and end of this sub-phenomenon often seems to be very abrupt—almost like a distant light flickering once or twice and then winking out. It is during this brief period when most of the "Indo hunters" in central North America hear the very rare and poorly equipped "RPD" local government stations.

Frequency Dependence

Some form of dawn enhancement seems to exist over quite a broad sector of the electro-magnetic spectrum. This is not too surprising since the arrival of the sunrise terminator causes rather violent vertical movements of several of the ionospheric layers as well as the recreation of the absorptive D layer. As a DXer's tool, dawn enhancement is used by medium wave DXers and by those of us who concentrate on the tropical bands. For us shortwave types, the most vigorous enhancement seems to be on the 90 meter band, but it is very strong on 75 meters and 60 meters, as well.

Dawn Enhancement's Relationship to the Solar Cycle

Several DXers have mentioned to us lately that dawn enhancement doesn't seem to last as long as it used to—as long

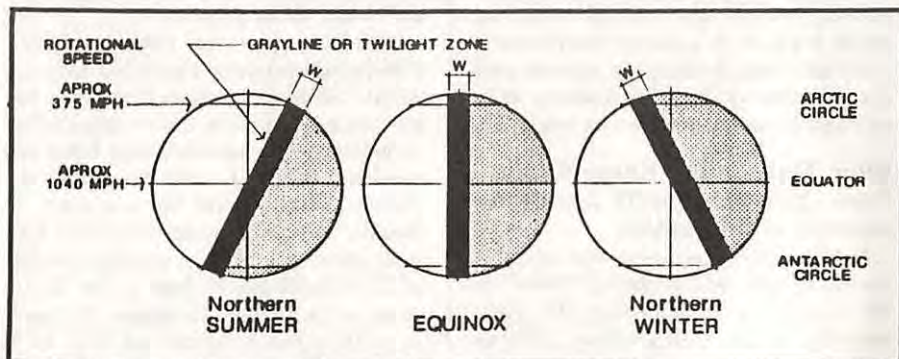
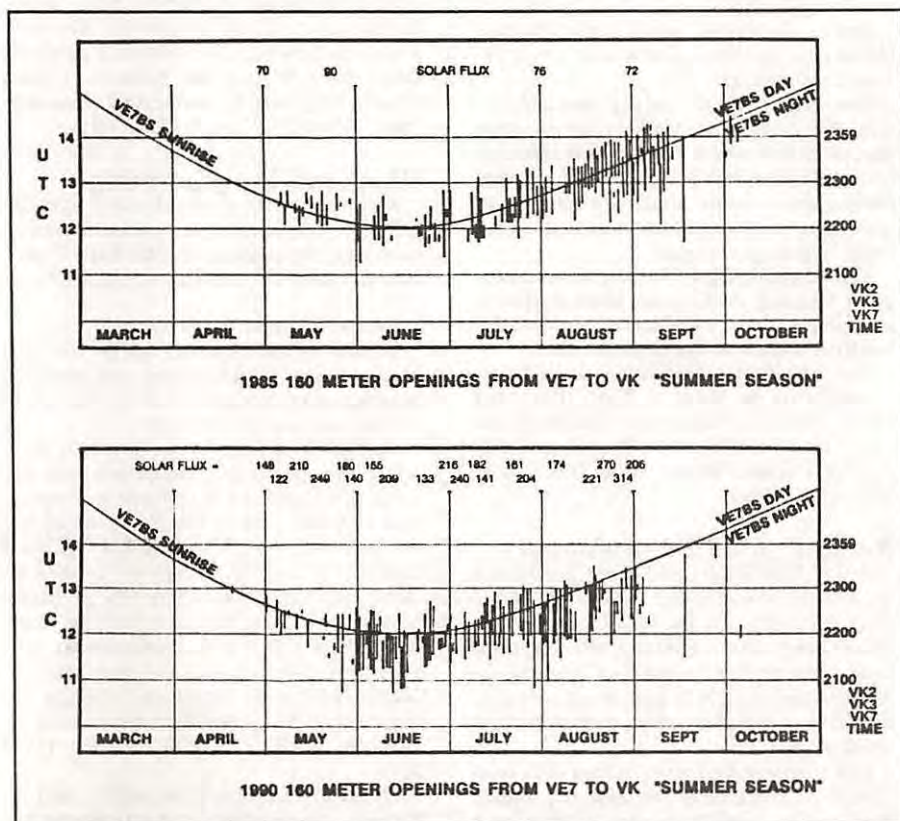


FIGURE 4. THE GRAYLINE OR TWILIGHT ZONE. Note that the absolute width of the grayline (W) remains the same at all locations and seasons.

after ground sunrise, that is. David and I have made the same casual observation. Neither of us had seen any supporting data in either the hobby press or scholarly journals until the previously mentioned Bob Eldridge, VE7BS wrote and shared some of his experience with us. Bob has written extensively on HF propagation and is a long-time operator on 160 meters (1.8 MHz).

Figures 5A and 5B chart known openings on 1.8 MHz between Pemberton, BC (60 mi. N of Vancouver) and Australia. Each line represents an opening on a certain day. The arcing curve from left to right charts the time of dawn on the ground. When you compare the two years, you note that openings lasted far longer past dawn on almost

every occasion in 1985 (solar flux generally around 75) than they did in 1990 with solar flux running generally above 200. This is particularly true during the prime three months of "the season" from late June until September. These charts are the only hard data of which we are aware showing systematic study of the frequency and length of good dawn enhancement and its relation to the solar cycle. Even though propagation and "openings" are somewhat different between the 160 meter amateur band of Bob Eldridge's study and our own favorite 3 and 4 MHz haunts, his graphs do match very well with our experience. So...since we are all beginning a sleigh ride down the slope of the sunspot curve, THE BEST IS YET TO COME!



FIGURES 5A and 5B. DAWN OPENINGS FROM BRITISH COLOMBIA TO AUSTRALIA. These are records kept by VE7BS. The 1985 chart represents only completed QSOs. The 1990 chart represents both completed QSOs and reception where no QSO was attempted. The 1985 chart would probably show an even greater difference from 1990 had it also recorded reception-only openings.

Easy Listening

Richard D. Cuff
213 Parkview Avenue
Allentown, PA 18104-5323
GENie R.CUFF
MCI Mail 375-4854
CompuServe 71207,1604
Prodigy NCHT70A

Radio Deutsche Welle

Germany has been a very interesting and newsworthy country in 1990, serving as a stark contrast between the economies of Eastern and Western Europe. Radio Deutsche Welle first reorganized their North American Service into their English Service, and then created special daily programming for their North American releases.

Deutsche Welle's weeknight (UTC Tuesday-Saturday) English to North America programming includes:

News - 10 minutes' worth, read (presumably live) in the News Room with no correspondents' reports.

European Journal - a daily news and current affairs magazine, detailing events within Europe or how world events like the Persian Gulf situation affect Europe. German events dealing with external affairs are covered, as are events involving former misdeeds of the East German government.

Transatlantic Diary - a daily features program focusing on German internal events, including a review of editorial comment and headline content in the German press.

Deutsche Welle's English Service to North America can be heard at 0100, 0300, and 0500 on various frequencies. I normally set up my tape recorder on the following usually reliable release: 0500 - 0550 UTC; 9670 kHz, via Antigua

Radio France International

Bruce MacGibbon and Tom Sundstrom noted RFI's abandonment of their 0315 UTC English broadcast in the November *Journal*. Even though that broadcast was the most convenient for live "prime time" listening in North America, RFI is still broadcasting in English and is still an easy catch in much of North America.

RFI's longest English broadcast is daily at 1600 UTC, with news and analysis, French press review, and News about Africa on a daily basis; other features rotate and include **Spotlight on Africa** and **African Press Review**. RFI's coverage of African affairs is more comprehensive than many European

broadcasters; this probably isn't surprising given France's former significant colonial presence in Africa.

I find RFI's style a bit less formal than most Western European broadcasters; their reporters and program hosts seem have a "lighter touch" in their reporting styles.

For instance, listeners were treated recently to a subterranean tour of the "Chunnel" between England and France; the reporter tried to impart as visual a picture of the work activities as possible via radio. Also, the French "spin" on the Middle East situation is interesting, given France's past relationships with Iraq and Lebanon. Most reliable frequency for unattended recording: 1600 - 1700 UTC daily; 17620 kHz

Weekend Programming

Many international broadcasters schedule different programming on weekends than on weekdays; two examples include Radio Canada International (RCI) and Radio Deutsche Welle.

1. Radio Canada International

Presuming the Canadian budget and RCI funding issues do not require any imminent programming changes, the following weekend programs merit interest:

Sunday Morning is produced by Canada's government-funded domestic radio network, the Canadian Broadcasting Corporation, or CBC. Sunday Morning generally resembles the USA's NPR program "Weekend Edition" in style, focusing on Canadian affairs given its primarily domestic audience. News stories are treated somewhat more comprehensively than in most weekday news programs. For a while this past summer, Sunday Morning's future was in doubt, but the current RCI schedule does include the program. 1400-1700 UTC Sunday; 11955 kHz

Coast to Coast is produced by RCI for foreign consumption. Ian MacFarland of Shortwave Listeners' Digest also hosts CTC, which focuses on a different province or culture each week with one or two in-depth stories. Recent editions included a spotlight

on Ontario, with budget overruns on the "Sky-Dome" sports stadium forcing a re-think on a new arts center. Another edition included an update on difficulties facing aboriginal Canadians in the Western Provinces. Many releases are audible here in the Eastern US; the specifically targeted broadcast is: 0145 UTC Sunday; 5960, 9755 kHz

Shortwave Listeners' Digest is perhaps the most listened-to DX News program by USA SWL'ers given its easy reception. Unfortunately, SWLD has sounded like a religious broadcast recently with Ian MacFarland's requests for telefaxes and letters of support to key Government ministers to help keep RCI on the air. SWLD includes rotating features including Don Jensen's "Journal", and equipment reviews by Larry Magne. Glenn Hauser phones in several minutes of DX news each week. This is definitely tape recorder-worthy; Glenn Hauser's frequencies and stations flash past quicker than I can transcribe them! Again, many releases are audible here; easy catches include: 0039 - 0100 UTC Sunday; 5960, 9755 kHz 2309 - 2330 UTC Sunday; 9755, 11730 kHz (targeted to the Caribbean)

2. Deutsche Welle

As with the weekday release, Deutsche Welle's English Service targets a different program to North America than in their other English releases. On Saturdays, News is followed by a commentary generally authored by a member of the Deutsche Welle Staff. **Mailbag and German by Radio** alternate with **Phone-In** and **To the Top**. While **Mailbag and German by Radio** are pretty standard fare for programs of their genre, **Phone-In** is especially interesting; listeners in North America are interviewed on the air.

Deutsche Welle's Sunday programs are more unique than the Saturday programs, in my humble opinion. **Commentary** is followed by **Living in Germany**, which is then followed by **Random Selection**. **Living in Germany** normally focuses on a single issue unique to Germany and to German life. Recent programs included a feature on the first all-German elections and a feature on the big business of Oktoberfest in Munich. By focusing on a single issue, **Living in Germany** can cover its subjects in more detail than in Deutsche Welle's weekday programs.

Random Selection takes a look at "off-

beat" news in Germany. It's hosted by Larry Wayne, whose American roots enable him to highlight stories that his American audience would consider unusual. Example stories include the phone company getting some lines crossed such that callers dialing a certain number could eavesdrop a number of conversations, and comedies of errors committed by police investigators. Trust me -- the program is funnier than I've described in this summary! As mentioned above, the frequency and time I normally use are: 0500 - 0600 UTC; 9670 kHz, via Antigua

3. BBC World Service

Most regular BBC listeners know all about **Newshour**, BBC's 2200 UTC daily hour of news from around the world. On Sundays, BBC has expanded one of its editions of **24 Hours** to 45 minutes, enabling a more comprehensive roundup of news and analysis than the 30 minutes normally allotted for news plus 24 hours.

News and 24 Hours is the unimaginative title of this expanded program. The expanded program even has its own jingle, just like **Newshour**. Unlike **Newshour**, fewer stories are covered, but those that are covered are treated in more depth than in **Newshour** or in **Newsdesk**, two other BBC staple programs. While the Persian Gulf situation almost always is treated with detailed reports, other stories of a less immediate nature - such as Nicaragua's economy, and Bangladesh's harvest, are also mixed in. The most reliable (for me) of BBC's many frequencies for **News and 24 Hours**: 1300 - 1345 UTC; 9515 kHz, via Sackville

Music Shows

I'd like to mention various music programs hearable on shortwave, but I don't listen to music on shortwave very much. That's where you can help - drop me a line via E-mail or US Mail about your favorite music shows on shortwave. Your contributions can help this column be more complete and comprehensive than I can personally manage.

Until next month, Happy New Year, Good Listening, and 73 - Richard

Asian Destinations

Mitch Sams
P.O. Box 780075
Wichita, KS 67278



As I'm typing this column the wind chill outside is -33 degrees F, definitely the kind of weather for curling up beside the radio. My radio room here at the house is over the garage and doesn't quite get heated as well as the rest of the house. However, after I've had the HQ-180A goin for about an hour the room warms up pretty nicely!

My job still requires me to be out of town about 70 percent of the time and I'm still working lots of overtime so for those of you that I owe letters to, I hope to get caught-up over Christmas. I'm keeping up with happenings on the radio by dragging my Sangean on the plane with me wherever I go. As I've hopped around from Wichita to St. Louis to Hartford to Philadelphia and to Orlando it's interesting to watch how the signal levels from various stations changes with my location. In Wichita I'm not having real good luck with Baku on 4785 kHz in my local evening. But, as I moved eastward to St. Louis, then Philadelphia it's signal strength got more usable, during the evening. In Orlando it was no better than as heard in Wichita.

THE PERSIAN GULF

It is now clear, based on what the recently freed hostages are saying, that the Voice of America played a vital role in keeping the hostages informed as to what was going on around them and how to react to that situation. I pulled the following quote out of **USA TODAY**:

"I had been moved five times, not heard from anyone since Aug. 16 except for a message from my wife on VOA (Voice of America) on Oct. 5"

- Hostage, in hand-written
letter to U.S. Embassy in
Baghdad

The VOA continued to provide daily messages and advice to the hostages who were in hiding in Kuwait. When the hostage release was first announced the VOA advised the Americans hiding in Kuwait not to come out. It was the next day before the VOA then told them that it was safe to go. It would be interesting to know what the VOA is saying over its Arabic broadcasts into the Middle East. One of the biggest concerns that the U.S. has is that Saddam is not getting the full story as to just what he faces if war breaks out. Now that it looks as if there will be no U.S.-Iraqi talks I would think that the VOA, and for that matter other western shortwave broadcasters as well, could play a role here in trying to get the message to Saddam. You never know who may be listening.

VIETNAM

This winter DX season has, happily, marked the reactivation of several Vietnamese regional shortwave broadcasters in the 4, 5, and 6 MHz range.

Last year an Australian DXer noted that there was at best only one Vietnamese regional active on the bands. Of course, the international external service, The Voice Of Vietnam, is active on several frequencies and generally a good bet for reception in North America.

The appearance of the regional broadcasters, which are located in several smaller towns and cities throughout the country, seems to cyclic. I'm not sure how much this has to do with cyclic propagation conditions over the years. In 1976 and 1977 there were several regionals active, but that number seemed to diminish by 1980. Again in 1982 and 1983 the number of active regionals jumped to almost ten. The next peak was in 1987.

Another possible factor in the regional's cyclic nature may be the fact that most of the transmitters, if not all, are relics of the Vietnam and French wars. Some transmitters were manufactured in the U.S. and placed in Vietnam during the war. In the tropical climate of Vietnam it is easy to see how equipment degradation can become a problem and how it may be a long, painful process to obtain spare parts. These problems are evident in the frequency stability of these stations. You can usually count on a Vietnamese regional station to change frequencies, even if slightly, once a week. And certainly from year to year it is rare to see one of these stations stick on the same frequency accurately. Power output is probably also very erratic, especially since electricity is not very reliable in some parts of Vietnam.

As I mentioned, this year several Vietnamese regionals have been logged in North America. Here is a list that I compiled from The Journal, OZDX, NU and FT (special thanks to Dave Clark, Ont. and Craig Tyson, Australia). Frequencies and times are variable, language is Vietnamese or mountain languages:

STATION	kHz	UTC	COMMENT
Son La	4643.1	*1200-1400*	//6294
Gia Lal-Kon Tum BS, Pleiku, (S.Viet)	4781.1-4787.1	*1030-1214*	Tentative
Ha Tuyen	4817.6-4814.2	*1130	
Hanoi	4895	1200	//6448, 5020
Hanoi	5020	*1100-1600*	//4895,6448
Hoang Lien Son BS, (S.Vietnam)	5587.4	1220-1320	//6600.2
Hanoi	5920	1405	//10059
Lai Chau BS	6254	1115-1300	
Son La	6294	1200-1400*	//4643.1
Hanoi	6448	1200	//4895,5020
Hoang Lien Son BS, (S. Viet)	6600.2	1220	//5587.4
Cao Bang B.S.	6617	1240	

Hearing these stations is hard enough, QSLing is another story. After trying all sorts of tricks (Vietnamese language report, taped reports, registered mail, indirect routes) the only thing that has worked is a simple letter in English to the Voice of Vietnam (and no return postage, since they can't use IRCs) asking them to QSL. This only worked when I took the time to explain why QSLing a regional was important to me. Response time can take several months and all three of the regionals I QSLed were with a Voice of Vietnam card with the regional's frequency and time filled in, but no site indicated.

Oh, don't forget that Vietnamese stations that are located inside of what used to be South Vietnam will still count as the radio country of South Vietnam in the NASWA country counting list.

Latin Destinations

Don Moore
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Big Rapids, MI 49307



Hola amigos! Welcome to a "special edition" of Latin Destinations! If you've read John Bryant's and my 'DX and the Library' article in 1990 Proceedings, you'll know that there are a lot of interesting books out there by broadcasting professionals. One of my favorites is a Spanish book, *Radio Y Comunicacion Popular en el Peru*, edited by Eduardo Ballon. Published by a social-agency branch of the Peruvian Catholic Church (with financial aid from Dutch Catholics), this book looks into the background of Peruvian radio, its role in Peruvian culture, and at the history of some specific Catholic radio stations in Peru. If this book were only in English, I bet the SW book vendors like Tiare and Universal would make a mint off it, hi! In this column we're going to dive into an article on folk music radio programs in Lima by Jose Antonio Llorens and Reynaldo Tamayo, which I will condense, paraphrase, and loosely translate, and also work in a few thoughts of my own.

Peruvian Folk Music On Radio

Listening to international folk music is one of the privileges of being a shortwave hobbyist, and most hobbyists who have heard it would agree that Peruvian folk music is some of the best. But has anyone ever stopped to realize that what we hear is local radio stations playing local folk music to local listeners? If that doesn't seem odd, think of how many of your local radio stations play American folk music. Except for a few weekend spots on public radio stations, American folk music has disappeared from the airwaves and sadly been relegated to a very small minority status in the U.S. music industry. Modern influences, including modern music, from the city have replaced our folk music heritage.

Peru, however, is a very interesting contrast. Not only is folk music alive and well in the Andes Mountains, where it has its roots, but Peruvian folk music has in-

vaded cosmopolitan Lima and become a significant force in the Lima radio scene. It would be sort of like if West Virginia dulcimer music took a big chunk of the New York City radio market. Llorens and Tamayo's article tells how this came about thanks to the inspiration of one man forty years ago.

Peru is composed of two major ethnogeographic regions. The Andes mountains run down the middle of the country, and are home to several million Indians. These people are descendents of the ancient Incas, and still speak the Quechua language and

"Peruvian folk music has become a significant force in the Lima radio scene"

follow many of the same customs that their ancestors have for hundreds of years. The second region is the narrow coastal desert plain along the Pacific ocean. Except for a few oases where irrigation has caused the desert to bloom this is one of the driest most inhospitable regions on earth. The Indians had little interest in living there, but when Spain conquered Peru, the conquistadors promptly built their capital, present-day Lima, along the coast. Other Spanish cities were founded up and down the coast, and Peru's coastal desert, focusing on Lima, became one of the strongest centers of creole Spanish culture in the New World, and remained so well after independence.

After World War II, a large migration from the Sierra into Lima began. The migrants were principally peasants and small landowners looking for work in the city's expanding economy. Once in Lima, many of these people formed a subclass of street vendors, cheap domestic help, artisans, and lower-end service workers. They clustered together in marginal urban slums on the then-outskirts of Lima. But, although the

"serranos" were at the bottom of the economic ladder, there were so many of them that they gradually brought about a "ruralification" of certain elements of city culture. And, because the serranos were primarily illiterate and came from a strong oral culture, it was only natural that they would eventually influence radio in Lima.

El Sol de los Andes

Into this scene stepped a man with a vision, Luis Pizarro C. Pizarro was an entrepreneur and a big fan of Andean folk music. In the 1940s he had arranged numerous folk-festivals in Lima, bringing in provincial groups to play. Early in 1951, Pizarro visited Radio El Sol, Lima's youngest station, and asked for a time slot for an Andean music show. The station decided to give him 6-7am daily at no cost, because they saw no use in such early hours when they assumed no one would be listening. The creole establishment that controlled Lima radio didn't realize that the serranos, true to their rural roots, rose every morning with the sun. Thus, a few days later, Lima's first folk music program, "El Sol de los Andes" (Sun of the Andes) was born. In the first years, most of the music was done live since there were few commercial recordings of Andean music in those days. From his days as a promoter, Pizarro had lots of contacts and easily arranged for both Lima-based groups and traveling provincial folk bands to play on his show. The show had no income; the time was free, so Pizarro didn't bother to sell ads; so the bands were not paid. The bands willingly played for prestige and recognition, and because they were allowed to publicize their future activities.

Initially there was some criticism of "El Sol de los Andes" by people who were ashamed of the music or thought it not good enough to be given airtime. But gradually the program was accepted by both the Andean migrants in Lima and by Andean musicians, so it didn't matter what uppity city-folks felt. Pizarro, however, wanted to expand his audience and reach into the country's interior. Again, Pizarro saw a need and filled it. The serranos in the city had long needed a way to send urgent messages into the interior faster than the post office could deliver them, especially to areas where the

telegraph service didn't reach. Pizarro began reading such urgent personal messages on the air. Word of this spread throughout the highlands, and gradually "El Sol de los Andes" built up a loyal audience in the interior. Not only was Pizarro's reading of personal messages on the air an important base of the program's increasing popularity, but Pizarro may actually have initiated the practice of "advisos" or "comunicados" (selling time for personal messages) that is widespread in Peruvian radio today. Regardless, to this day, the function of sending messages into the interior has remained one of the most important functions of folk music programs in Lima radio and their increasing audiences in the interior.

As Pizarro's program became more popular, Radio El Sol decided to begin charging him 5000 soles a month for airtime, forcing Pizarro to look for commercial sponsors. Despite the program's popularity, at first few advertisers wanted to buy time on such an early morning show until, fortuitously, it unexpectedly won a local radio popularity contest. Soon small businesses in both Lima and in provincial towns began advertising on the show. "El Sol de los Andes" was now an established part of the Lima radio scene.

Radio Agricultura

By the mid-1950s, other stations had noted the popularity of "El Sol de los Andes" and started their own folk music programs. The principal imitators were on Radio San Cristobal, Radio Restauracion, Radio Expreso, Radio Continental, and Radio Luz. Pizarro himself started other folk music programs on Radio Nacional and Radio Santa Rosa in the mid-50s. An important first came in 1962 with the founding of Lima's first all-folk music station, Radio Agricultura. As its names implies, Radio Agricultura appealed to the peasant roots of serranos residing in Lima, and to the peasants still farming in the interior. Besides the nine hours of folk music daily, Radio Agricultura broadcast technical and educational programs on agriculture with the assistance of the U.S. Embassy and the local Ministry of Agricultura. The increase in popularity of folk music radio programs

had encouraged Peruvian record companies to issue more folk music records, which in turn encouraged more folk music programs, since it was no longer necessary to book live performances. By the mid-60s, on-air performances were rare, except for special events. By 1966 there were 27 hours of folk music on Lima's 34 stations, half the time on Radio Agricultura which had expanded to 12-14 hours of folk music daily. Folk music radio had become the main force of the Andean people in maintaining their own culture in Lima, despite the city's strong cosmopolitan and international influences.

Today, folk music programming in Lima is still clearly directed at provincials residing in Lima by, of course, the music, but also by the types of ads and announcements and by the Andean cultural references made by the announcers. The number of these

programs has continued to grow since their inception in 1951; a recent study counted more than 80 daily radio spaces of one hour duration. More than half of these were via four stations: Radio Folklore, Radio Inca, Radio San Isidro, and Radio Agricultura. Furthermore, "criolla" music, the Spanish-based traditional music of the coast, counted no more than 10-12 hours a day on Lima stations. Here lies the great irony of the story. In the 1540s, the Spanish conquistador Francisco Pizarro and a band of adventurers subdued the Inca empire and established Spanish cultural domination in Peru. Four hundred years later another Pizarro started a radio program, and in just a few decades the Andean peasants and their music pushed Spanish culture off the airwaves right there in its very heart, the city of Lima. History works in strange ways. 73s, Don



AMANDX

Association of Manitoba DX'ers

30 BECONTREE BAY
WINNIPEG, MANITOBA
R2N 2X9
Telephone: (204) 253-8644

Dear Fellow DX'ers;

On behalf of the Association of Manitoba DX'ers AMANDX I would like to invite all NASWA members to join our club for a DX'pedition.

AMANDX will be sponsoring "The First Annual Great White North DX'pedition" at Hecla Island Provincial Park from May 17-20, 1991. The park is located about 90 minutes drive north of Winnipeg on Lake Winnipeg. The site has a water pump, out-house facilities, but no electricity. The view of the lake is second to none and wildlife is all around. Last time up there we saw geese, ducks, pelicans and three white tailed deer from our tents.

The Great White North DX'pedition is an informal affair being held for the sole purpose of having a good time, sharing experiences, and of course catching some great DX. There is room at the site to set up long wires and some beverages up to 1000 feet long for those who are so inclined.

Any DX'er who wishes to join us or wants more information can write to:

The Great White North DX'pedition
c/o AMANDX
30 Becontree Bay
Winnipeg, MB R2N 2X9 Canada

Although we cannot guarantee the weather or band conditions we will guarantee all will have a good time. We hope the snow will be gone for our American friends HI !!! 73 and Best of DX , Shawn Axelrod

Listener's Library

John Bryant, AIA
Route 5, Box 14
Stillwater, OK 74704
Compuserve 74730,2145



Welcome to the first Listener's Library of 1991. We've had so many super contributions lately that I have made a decision to permanently eliminate the Bibliography section of the column. We had hoped to run that each month so that you could refer back to items later without having to scan the content of each column. However, it is just taking up too much of our two pages, so we are shifting to the famous "Plan B!" I'll give the minimum amount of information necessary in the body of each column for you to find the items discussed and prepare an annual Bibliography and index for the December issue next year. To the Stacks:

INDO FLASH!!!! HOT FLASH!!!

Almost all of the really compulsive Papua New Guinea folks out there and ALL of the Indo freqs already know about Moon Publications' *Indonesia Handbook* by Dalton and the superb culturally-oriented *Insight Guides* to various parts of the world (the first of the now 40 some was *Insight Guide to Bali*.) WELL, HOLDONTOYOURSOCKS! Destinations Mitch Sams and fellow Indo Hunter David Clark both stumbled on to a new guidebook series printed in Singapore called *Passport's Regional Guides of Indonesia*. Currently, there are nine (count'em, NINE) absolutely wonderful guidebooks to various parts of Indonesia: *Bali: The Emerald Isle*, *Indonesian New Guinea: Journey Into the Stone Age*, *Spice Islands: Exotic Eastern Indonesia*, *Java: Garden of the East*, *Indonesian Borneo: Kalimantan, Sulawesi: The Celebes, Sumatra: Island of Adventure*, *East of Bali: From Lombok to Timor*, and *Underwater Indonesia: A Guide to the World's Best Diving*. I listed them all because a number of us will want the whole set after you see one of them. I am currently fondling the *Spice Islands* and *Indonesian New Guinea* volumes. Take my word for it, the Passport books combine Dalton's detailed approach in *Guide to Indonesia* with the beautiful photography and historical/cultural discussions for which the *Insight Guides* are justly prized. Every illustration is in color, including the maps, and the photography is stunning. The map of Ambon Island in *Spice Islands* is ten times larger than the one in my Indonesian Atlas and the detailed map of Ambon city even shows RRI Ambon's studio building!

This series of books is the work of Kal Muller. He has explored, photographed and documented some of the most exotic places on earth and his work has appeared in dozens of books as well as in *National Geographic*, *Geo* and other magazines. Muller was born in Hungary, speaks five languages and now splits his time between Indonesia and his home in Mexico. For the last fifteen years he has wandered the archipelago with 40 pounds of camera equipment and a notebook. These nine beautiful books are the result. Personally, I going to buy one of these a month until I have them all. Your local book seller can get them from: NTC Publishing Group 4255 West Touhy Avenue, Lincolnwood, IL, 60466-1975, USA. I believe that the retail price is around \$12.95.

THE MAGAZINE RACK

Most of us are probably familiar with *Geo*, *National Geographic* and the now widely read *Islands*. (Don't miss this one!) There are now so many travel magazines that we shouldn't even attempt to assay the field. However, we have received four contributions that are quite unusual. Gordon Darling of Port Moresby sent me several issue of *Business Traveler: The International Travel Magazine, Asia and Pacific Edition*. This is NOT an "armchair traveler" magazine, though it is beautifully photographed and well written. If you are going to travel to Asia or the Pacific via any means except a hermetically sealed group tour, THIS MAGAZINE CAN SAVE YOUR LIFE. The June 1990 issue, for instance, features "how it really is and what it really costs" articles about travel in PNG and China, an article on what physician visits cost and where to find them in various Asian cities as well as other very helpful articles and a stable of excellent columns. This magazine talks about the Asia/Pacific that I know from walking the ground. Come to think of it, an armchair traveler would enjoy this one as an antidote to the true but slanted magazines such as *Islands*. No subscription rate is listed for the USA, but it is probably about \$30 per year (12 issues.) Contact Circulation Manager, *Business Traveler*, 13F, 200 Lockhart Road, Wanchai, HONG KONG. They also have a US representative in Bend, OR (503-389-7838.)

David Clark also spotted a new high quality travel magazine, *AsiaPacific Travel*. It is more nearly a traditional travel magazine, meant primarily for vacation travelers and armchair types like most of us. The inaugural issue from mid-1990 has feature articles on northern Queensland, Singapore, the medieval castles of Japan, visiting Hawaii by helicopter, the ancient (Mogul period) forts of India, the San Diego Zoo and the Inside Passage from Seattle to Alaska. Highly recommended for Asia/Pacific DXers and armchair travelers.

AsiaPacific Travel, 1477 Rollins Rd.
Burlingame, CA 94010, USA. \$15/year.
(6 issues)

Don Moore of Michigan prefers magazines that are not the glossy publications promoting high priced tourist spots and recommends two which may be of interest to DXers.

Transitions Abroad is aimed mainly at people interested in study abroad programs, but includes some articles on working abroad, overseas homestays, and general traveling. In fact, most of the ads are for study abroad programs of various universities. Each issue focuses on a specific region of the world (e.g. British Isles, Mediterranean, Asia & Africa), although some articles from outside that region are included. The articles are usually first-person pieces by non-professional writers. Perhaps because of the "study abroad" focus, the emphasis is strongly on European destinations, but enough other things creep in to make this a worthwhile read. Each year the July issue includes the "Annual Educational Travel Directory" with pages of resources, book & map distributors, travel guides, etc. Back issues are usually available, so even if you're not interested in subscribing, \$3 for the most recent July issue would be a good investment.

Transitions Abroad; 18 Hulst Road Box 344;
Amherst, MA 01004. \$15/year (5 issues).
Sample \$3.

Great Expeditions bills itself as "The magazine of adventure and off-the-beaten-path travel," which says it all. This is a serious travel magazine for people who know how to rough it, which makes it a good armchair read for DXers. The focus is very heavy on Third World destinations, e.g. Irian Jaya; Ceara, Brazil; and Backcountry Zaire. The articles are generally first person "how I did it" pieces. The Travel Companions section in the Classified ads gives a more personal picture of what the more adventurous readers are like.

Great Expeditions; Box 8000-411; Sumas, WA
98295. Quarterly, \$18/6 issues. Sample \$3.

SOURCE FOR FOREIGN POSTCARDS

Kevin Klein of Appleton, WI sent us a copy of a Stephen Birnbaum column (Tribune Media Service) which details how to acquire mint condition foreign postcards. I'm sure that those of us who sometimes send a "ppc" homemade QSL card to the station on the third follow-up, often use postcards local to the station, if we can find them. They make a dandy base for a homemade QSL and make the collection look great. The suppliers is Foreign Cards Ltd., Box 123, Guilford, Conn. 06437; phone (203) 453-5813.

The company's inventory includes attractive color postcards from places all over the world, as well as from all over the United States.

Birnbaum states in the column that if you write or call the company, they will send you an order form and an extensive list of cards in stock. The cards are not described, but are identified by location, and next to each is the number of views available of that location. A form with new acquisitions is sent out about every two months to everyone on the company's mailing list by making a purchase of \$10 or more, or by sending \$3.50 for a year's listing.

The prices for the foreign postcards are: for 10 to 24 cards - 35 cents each; 25 to 49 cards - 30 cents; 50 to 99 cards - 29 cents; and 100 to 199 cards - 28 cents each. For U.S. postcards, the prices are 30 cents, 25 cents, 24 cents, and 23 cents respectively. SUPER TIP, Kevin!

HOT FLASH FOR LATIN LOVERS!!!

Scott Edwards of Los Alamitos, CA just checked into the Library with an advertisement for a new release:

The American Radio Industry and Its Latin American Activities, 1900-1939 by James Schwoch. The advertisement says that this book demonstrates that the present-day globalization of American culture has its roots in the growth of radio broadcasting in the 1920s and '30s. Schwoch makes extensive use of public and private manuscript collections in his discussion of radio's impact on America's economy and the expansion of communication systems throughout the Hemisphere. The retail price is \$29.95 and you may order toll free 800/545-4703, or from:

University of Illinois Press, P.O. Box 4856,
Hampden Post Office, Baltimore, MD 21211.

More for Latin Lovers in February! 73 JHB



THE PERFECT MATCH

It seems that in shortwave listening we use many things without stopping to consider them very closely - until a problem occurs. While it is true that we can't possibly know everything about our hobby, the more we know about basics the less of those problems we must face.

In a previous column we explored the exciting world of impedance. No, not to worry... We won't be re-entering that murky world. But we will be looking at some practical problems that many members have written about that involve impedance - as well as some simple solutions to those problems.

NOW, SIMPLY...

Let's assume that you have just obtained your first shortwave receiver (can you remember that day?). If you were lucky enough to get a new one, you probably got an instruction manual with it. You put the receiver on the table and plugged it in. Wasn't it supposed to be connected to an antenna? Ah, there they were in the manual - pictures various suggested antennas. They probably appeared with an instruction like "Now, simply connect the antenna to the receiver. Oh, how I despise the term "Now simply..." They almost never told you how to connect the antenna to the receiver, or if they did, they simply suggested using "the proper coax." But what was the proper coax? Was it 50 ohm, or 75 ohm? Did it matter?

Well, everything is relative. Ideally, the impedance of the antenna should match the impedance of the coax connecting it to the receiver. And, for that matter, the receiver's antenna input impedance should also match the coax and the antenna. That's fine in theory, but nothing is perfect in shortwave listening. If it were, would it still be fun?

When matching a load to a generator the most power will be transferred if the impedance of the load, generator, and connecting wires are the same. Think of the antenna as the generator (gathering energy from the airwaves) and the receiver as the load (dissipating the energy sent to it). The receiver will get the most signal if its input impedance matches that of the antenna. But is this possible? Not under normal circumstances! This is because we like to listen at many different frequencies, and the impedance of an antenna varies wildly as you move away from its resonant - or center - frequency. Multiband antennas have several frequencies at which the impedance is the same, but only in the center of each band for which they were designed. Everywhere else, it's anyone's guess as to what the impedance might be. The solution here is to use an antenna tuner (called a *transmatch* by hams, because they also use them to transmit as well as to receive). This tuner converts the impedance of the antenna and feedline to that of the receiver. Thus, the most power possible is transferred from the antenna to the receiver.

"But I have several antennas, each cut for a specific frequency. Do I still need a tuner? And if not, what kind of coax should I use?" No, you don't need a tuner here. The type of coax you use depends on the type of antennas you are using. A dipole should typically be connected to the receiver with 75 ohm coax, such as RG-59 or RG-11 (for those of us not on a budget). An inverted V or end-fed Windom goes well with 50 ohm coax, such as RG-58 or RG-8 (for the same folks who would use RG-11). But what about the receiver? Well, most receivers are designed for a very broad input impedance, usually between 50 and 75 ohms. As long as you use the right coax up to the receiver you will get just about all the signal you are going to get.

By the way, such factors as the antenna height above the ground can also affect impedance, causing some very unpredictable changes that are best avoided. So be sure to get your antenna as high as possible. The least temperamental antenna is the inverted V.

SPEAK TO ME...

There are times when it would be nice to connect a new speaker, or even add speakers to bring the receiver audio into another location. This seems to cause a lot of trouble to the beginner, but there is nothing mysterious about it. Speakers and headphones can be thought of as resistors. They are rated in a specific impedance, whether it is 4 ohms, 8 ohms, or 100 ohms. When adding or substituting them, ohm's law applies just as though we were working with resistors. For example, say we want to add a second speaker to our receiver so that we can listen to Radio Tirana in another room (now that promises to be a rousing evening, eh?).

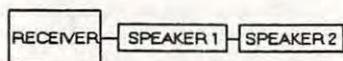


Figure 1 - Two Speaker Block Diagram

Our receiver as shown in Figure 1 has an 8 ohm audio output. We want to use the earphone jack as a convenient point from which to grab our signal. Since plugging in an earphone plug will disconnect the receiver's internal speaker, we will need two speakers - one for the receiver and one for the other room. What impedance should we look for in our speakers? We have two choices: two speakers wired in series (see Figure 2), or two speakers wired in parallel (see Figure 3).

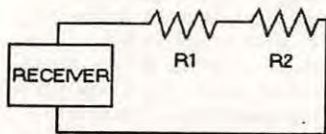


Figure 2 - Series Connected Speakers

In the series connection, our impedances simply add. Since we want a total impedance of 8 ohms, and we presumably want to get two speakers of the same impedance to avoid complicating things, each will need to be 4 ohm speakers. The volume at each speaker will be the same, since they are the same impedance (I told you this would avoid complicating things!).

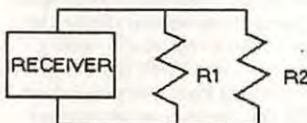


Figure 3 - Parallel Connected Speakers

In the parallel connection, we can use ohm's law for parallel resistances:

$$R_{\text{total}} = 8 = \frac{R_1 \times R_2}{R_1 + R_2}$$

Again, let's assume that we will use two identical speakers to simplify things. That means that $R_1 = R_2$, and we can rewrite the above equation to:

$$R_{\text{total}} = 8 = \frac{R^2}{2R}$$

$$16R = R^2$$

Divide each side by R:

$$16 = R$$

So, each speaker will need to be 16 ohms. Well, 4 ohm speakers are a little easier to find than 16 ohms speakers, so the first solution - 4 ohm serially connected speakers - is probably better.

DON'T TOUCH THAT DIAL...

While we are on the subject of speakers and audio, a couple of readers wrote asking about the difference between linear and audio taper potentiometers. There is a major difference between them!

A potentiometer is used to vary the resistance put into a circuit. They are rated in ohms of maximum resistance, so a 10 k ohm potentiometer goes from 0 to 10,000 ohms. But how it gets from 0 to 10,000 depends on whether it is a *linear* or *audio taper* volume control.

The linear taper potentiometer changes from 0 to 10,000 ohms in a linear fashion; at 1/4 turn it exhibits 2,500 ohms, at 1/2 turn it exhibits 5,000 ohms, and at 3/4 turn it exhibits 7,500 ohms. As the name suggests, its rate of change is linear. The same amount of adjustment at the low end gives the same change in resistance as an equal amount of adjustment at the high range.

Unfortunately, the human ear senses changes in volume in a logarithmic rather than linear manner. If you use a linear taper potentiometer to control volume, it will appear as though the volume stays the same except at the very top end of the potentiometer's range of adjustment, where the volume will change rapidly with just a small adjustment! What is needed is an audio taper potentiometer. This device is designed so that it changes resistance in a logarithmic manner. An adjustment at the low end will cause much more change in resistance than the equivalent adjustment at the high end. The human ear will perceive this as a smooth and gradual change in volume.

FURTHER DIGRESSION...

We seem to have gone off on the subject of audio. That's just as well, as it will allow me to clear some of those letters off of my desk.

Several questions have come in regarding the selection of speakers and earphones for shortwave listening. Many people are under the assumption that the highest fidelity speakers and phones are best for shortwave listening. This actually isn't true. If we were listening to FM broadcasts we would want the best sound reproduction possible - in order to match the quality of the signal originally broadcast.

Shortwave signals are generally of rather poor audio quality by the time they reach us. As they travel around the

Earth the signals lose some of their spectral content. That's a rather technical way of saying that bits and pieces of the audio frequencies they contain are stripped away or distorted as they travel. Also, to conserve bandwidth (and expenses involved in high fidelity equipment) most stations concentrate on power and not on high fidelity. To add to the distortion, adjacent channel signals cause heterodynes (whining sounds) at the higher frequencies.

Years ago the telephone company discovered that only certain frequencies were really necessary for voice communications - those between 300 hz and 3,000 hz were sufficient. This is usually quite accurate for our needs as well. Quite often the *less* expensive speakers do the best for shortwave reception. The important thing is to use as large a speaker as is practical, as it will produce more volume from a given receiver than a small speaker - and without injecting as much of its own distortion.

Many commercially available earphones for amateur radio are actually made to emphasize the target frequencies, while attenuating others. They would sound pretty bad if you used them with your stereo system, but they are often essential for picking out weak shortwave signals. Incidentally, earphones are much more effective when listening for weak signals, or when trying to pick a signal out from a crowded band. I know many old timers who haven't used a speaker for years!

COMPUTER NOISE

Although not strictly an audio problem, the widespread use of computers along with shortwave receivers has caused more than just one person a headache of monumental proportions. We can use computers to decode CW, RTTY, and FAX, but the computers themselves can actually obliterate the very signals we are trying to receive!

Each computer is a miniature broadband transmitter, radiating radio frequencies from VLF up into the UHF range. Although newer computers have some degree of noise suppression required by FCC regulations, even these can be a

real problem if used in the vicinity of your shortwave receiver.

How do you know if your computer is the cause of your interference? It's actually rather simple. Find a frequency where a dead carrier or audio tone appears. Turn the computer off. If the tone disappears, you've been listening to your computer! In very serious cases, your receiver may even appear "dead" in an otherwise crowded band.

There are several things we can do to lessen or even remove computer interference. Try them one at a time until the problem gets better.

You can often eliminate interference altogether by grounding the computer and the receiver. I don't mean just connecting them to the center screw on the electrical wallplate. In fact, I recommend *never* doing this! It will give you a false sense of security and can actually make interference *worse*. Instead, find a good ground source. If you are able, drive a 6'-8' ground rod into the ground as close as possible to your receiver. These rods are available at Radio Shack for a very reasonable price. Connect the rod to both your receiver and computer chassis with heavy copper wire (14 gauge if you can manage it). Be sure to use the actual metal chassis of your computer and receiver - not just a metal piece of hardware that might not even be connected to anything inside. Any signals that the escape the computer's shielding will be carried away to ground - essentially short circuited. If you can't use a ground rod, try to find a cold water pipe. I've even seen metal window frames on newer buildings that were grounded. Don't be afraid to experiment. Listen to the receiver while trying different grounds until you find the one that yields the least noise. **A word of caution:** don't try this with a so-called AC-DC or transformerless receivers such as the cheaper tube type units of yesteryear. In many cases, the chassis itself actually carries some current, though you might not notice. Grounding them can cause a short circuit to your power line!

If you have tried grounding and still are experiencing interference, take a look at your audio cable. Most computers used

for CW/RTTY/FAX decoding take their signal right from the receiver's audio line. This can actually act as an antenna in picking up computer noise. If possible, use shielded audio cable. If you can't, as with units that come pre-wired with twin-lead, you can form a choke by winding many turns of the cable around a pencil or powdered iron coil form (available from Radio Shack). This chokes out the higher RF frequencies while allowing the audio frequencies to pass. The same technique can be effective for extension speaker leads or leads going to cassette recorders. Remember, you may not be able to hear the interference directly, but it can still cause audio distortion.

FREE INFORMATION

If you're as tight as I am, then you will appreciate this new free booklet from the folks at NOAA. For those of you who have always wondered how to use the geomagnetic and solar data that WWV transmits to better predict reception conditions, the *Radio Frequency User's Guide To The Space Environment Services Center Geophysical Alert Broadcasts* is for you! This booklet is actually written for the beginning to intermediate level reader, and does a very credible job of explaining such things as A and K indices, solar and geomagnetic flux, and some aspect of propagation. It also explains how to extract and use this information from WWV broadcasts. The book is great, and the price is right! Request your free copy by writing to: Space Environmental Services Center, NOAA/ERL/SEL - R/E/SE, 325 Broadway, Boulder, CO 80303. The booklet also gives information on how to utilize the computer bulletin board operated by the center, which includes propagation and MUF predictions - all free!

That's it for this month. I would like to wish you all a happy and prosperous new year, and the best of listening!

73's

- Ted Benson

Listener's Classroom

Dr. Charles A. Woolfen
11424 Great Branch Drive
Chester, VA 23831-1663
Compuserve 76476,1556



As Mr. Ripley used to say, "Believe it or not!" The last issue had two separate sections dealing with language because of sheer coincidence. The Bible says that out of the mouth of two or three witnesses shall a thing be established. Pause and think about that!

An exciting feature of writing this column is receiving mail from you. I've a letter here from Rev. William Peake, pastor of the First Reformed Church in Buffalo Center, Iowa.

He says, "I have been a member of NASWA for just over a year and am truly a novice at DXing. I do have a couple of suggestions. . . (one of which is) mentoring. (This is) the yoking of a new SWL/DXer with a seasoned one (which could) work out well. Whenever we begin something new it helps to have someone that you can lean on for advice, technical know-how, etc. For some there may be many people they can turn to for information, but I believe that most of us began by venturing out on our own. My experience parallels the latter. I had accumulated a number of QSLs from varying countries and grew really frustrated when I found out that relays were not the same as the countries they carried . . . as a result my country count went way down . . . along with my own morale. I think it would be great if NASWA would create a pool of willing veterans to assist someone entering the hobby."

This is a tricky one to answer. Once I was as geographically isolated as anyone could get. There was no one about to answer any of my immediate questions. I had a lifeline to the guys at NASWA but it was as thin as the mail link. Yet, through contact of this sort I found a mentor whose dedication to the hobby I truly admired. I read and reread every letter he sent trying to glean every nugget from his lines and even trying to figure out what he didn't say.

Before becoming a DXer I dissected all the letters sent my way and every word in *The Journal*. I picked out elements that made my dial spin with extra relish and efficiency.

I learned the meaning of tenacity, persistence, perseverance, and any other synonym

of those words you can find, and like you, felt the frustration when, after being on a roll, found that everything I was doing was wrong. DXers need the quality of stick-to-it-iveness as much as anything; because, like the athlete who has the guts to enter a race, we've got to have stamina to finish.

A great institution of this hobby is that there are many guys and gals associated with NASWA who have banded together in local associations just to help each other along. Occasionally Headquarters will announce that another chapter of NASWA is being formed in this city or that state. The troops who start a local association are in the same tank as you--unable to find support among those they know because of differing interests.

These individuals are can keep going because they know they have what it takes. They are the ones who go back to their logs and notes when they begin to doubt their ability to contribute to the good of the whole community. They find an entry that sings, a note of a program that moved them, something that verifies their self-worth as a DXer:

Those are the people who need to contact you, William. And you, them. You and I have the same profession. You and I know about the assurance of things hoped for, the evidence of things unseen. I will do what I can through this column and the other editors also will help you through what they write.

You have asked for a mentor. I'd like to think that in all Iowa there is someone who can reach out to enjoy this exciting hobby with you. I know that in our organization there are fine people who would like to become involved with others. Let me encourage anyone who is reading this that if they want to contact William, write me for his address. And those others of you who need a friendly face write to HQ for the address of the nearest chapter. If there isn't one start one!

End of soapbox. Your second suggestion, William, is under advisement and I'll let you know the outcome.

The rest of you need to write, too. 73's.

NASWA Portraits

Jerry Klinck
43 Lein Road
West Seneca, NY 14224



Well, folks, it looks like we'll be here for a while. Since last month's column I've received several of your profiles and I thank you. The membership will be richer for the opportunity to share your stories.

This month's Portrait is in two parts. First off we'll visit with a member whose activities in the hobby have truly run the gamut. Then I'd like to introduce you to a young lady who has found happiness in the Seychelles. Without further ado, let's travel to Daly City, Virginia and our visit with Dan Ferguson:

"In the mid-1950's I discovered the shortwave bands on some old radios I had purchased for 50 cents a piece (wish I could find them at that price now!) out of the attic of a radio repair shop. I certainly had no idea then how much a part of my life shortwave radio would become! Instead, at the time, I merely became fascinated with the world that opened up through shortwave radio. Stations from Berne, London, Brussels and Radio Denmark's Saturday Night with Marianne!

"Soon I discovered *Popular Electronics* and the Shortwave column edited by Hank Bennett. Hank subsequently introduced me, and many others (ed. included) to the Newark News Radio Club, where he edited the Shortwave Section. Over the next several years I joined many clubs, but it wasn't until the late 1960's that I discovered and joined NASWA. I liked NASWA's focus on shortwave, rather than trying to cover all the bands.

"Over the years I progressed from the 'junk' radios I bought and repaired to a Heath AR-3, Knight-kit R-100, Hammarlund HQ-145, Heath SB-310 (wish I hadn't sold that one!), an R-390, a National HRO-500

(still trying to find a new tuning dial mechanism), and now a Kenwood R-5000. But in some ways nothing tops getting those signals from distant places on the old Zenith, RCA & Philco receivers from the '30s & '40s.

"In 1968, I had become fairly active in reporting to NASWA's Log Report and Bill Eddings, the clubs' Executive Editor, asked if I would edit the Log Report. For the next several years I served as Log Report Editor, Listeners Notebook Editor, Publisher, 'fill-in' Editor, etc., till 1975. During those years Dan Jamison, Ed Shaw, I, and others, managed to get in quite a few DXpeditions, too. It's hard to believe it has been 15 years since I last served as an editor for NASWA!

"I was the editor of *Fine Tuning* from its' start in 1977 till about 1984. Like many DXers, a heavy work load and family demands have made DXing activity vary considerably over the years. The interest was

there but time sometimes was not.

"I spent a lot of years studying mathematics, a few years teaching it at the college level, and even used a bit of it once in a while. Always my wife Reta (we've been married nearly 27 years now) has had to tolerate the shortwave radio. She even helped type columns when I was an editor and she and our son (now 23 and married) helped put together an awful lot of FRENDXs when I was the publisher!

"In 1985, our only son graduated from high school and it seemed to me a good time to be looking to leave West Virginia. Then, what had been a hobby became a vocation when I started working for the Voice of America, in the Frequency Divisions' Monitoring Branch. I'm now in the Frequency Utilization Branch, involved in coordination and scheduling activities. With a hobby turned into a job, what does one do for a hobby? Well, somewhere



along the line I picked up this interest in computers, and telecomputing. Stop by CompuServe sometime. I'm in the HamNet Forum nearly every day! And there's a section of the forum devoted to -- what else? -- Shortwave Listening!"

Thanks for the story, Dan, and welcome aboard the "staff". I feel kind of bad though, that I missed out on "Saturday nights with Marianne". Next month we'll learn more about another member of our editorial staff, a story which shakes loose the cobwebs of my memory.

An American In The Seychelles

I'd like to deviate a little from the usual "Portraits" format a bit and profile a non-NASWAN who is a guest from the "other side of the hobby." She is Teal Martin, temporary Audience Relations Counsellor at FEBA Radio in the Seychelles. She has proven to be the friendly and helpful type person that we wish ALL our radio contacts could be. I am most happy to offer the "portrait" of "An American in the Seychelles...."

"Thank you for your letter. It's always good to hear from folks who are interested in our radio station. It was 20 years old on May 10th, 1990.

"I've taken over temporarily from the usual A.R.C. while he enjoys a much deserved furlough in England. I happen to be the one American working with FEBA

Seychelles - I'm from Texas and New Mexico - and when I first visited Seychelles in 1985, I was a mere college student who had never heard of FEBA Radio. That soon changed as I made friends with several folks that worked with the Far East Broadcasting Assoc., including Geoff, my husband, who is from the UK. (The title is a misnomer, as we actually serve S. Asia, the Middle East and E. Africa.)

"After an almost idyllic stay of 6 months on these tropical isles, I returned to New Mexico State U. where I was working on my B.S. in Biology. I had inadvertently left my heart in the Seychelles, and in 1988 I married a



certain mast overhauler cum audio visual producer. Geoff and I lived in the UK while he produced slide/cassette shows for FEBA promotions. I did casual work, ending up in FEBA's computer department. I found that England was definitely a FOREIGN country, even if they do speak English (of a sort).

"Life got exciting again when we accepted an assignment at the station with just one months notice, in January of this year (1990). Geoff came out to produce a live program for India to be called 'Network'. (He's a true 'Jack of all Trades'). It is in English and is full of pop music, news, sports, special science and computer reports, etc. It's a real experiment in Christian Radio Broadcasting. It's on Wednesday thru Saturday from 1458 to 1600 hrs. UTC on 9590 and 15325 khz.

"It was then that I took over temporarily as Audience Relations Counsellor as previously mentioned. I handle about 150 contacts per month including reception reports as well as letter on our programs from all over the world. We have been here on this lovely island for eight months. We don't know how long or what we will do next but we DO know that we have found meaningful work and colleagues who are more like family than co-workers. People who pitch in whenever there is any trouble and give all they've got.

"As to the station, it all began in the 1960s when someone got the wild (inspired) idea to build a radio station here, as it was the perfect vantage point to broadcast to S. Asia. The only problem was that the Seychelles Islands are a series of lumps of granite. There is virtually no flat land! But, when approached by lateral thinking, this proved to be no hindrance after all. We happily constructed our antenna masts (7 of them) out on the coral lagoon. Antenna arrays now hang out over the sea like giant cobwebs, and signal propagation is excellent.

"Off the subject of FEBA Radio, you may have heard of Radio ELWA, run by an American Christian Organization, and located in Liberia. It has been closed down due to the continuing war there. (That's an understatement, they were shelled!) We believe that all Americans were evacuated.

"Hope this finds you all in good spirits and health."

Our thanks to Teal Martin of FEBA-Seychelles for taking the time to share her interesting story as well as some insight into the station there. Til next month, 73 & GREAT DX!

Company Store

Richard A. D'Angelo
2216 Burkey Drive
Wymissing, PA 19610



The NASWA Coffee/Tea Mug project is winding down. A heavy work schedule that required my being out of town most of December resulted in a slight delay in the mailing schedule. However, thanks to the efforts of some helpful "volunteers", the mugs were mailed on December 19th. Special thanks to my children, Adam and Jennifer, who provided their box making and packing expertise. Also, thanks to Dave Turnick who took care of printing the mailing labels and Guy Atkins who designed these beauties. Yours truly took care of a huge postage bill! Hopefully the mugs arrived safely and are now being used for your favorite beverage!

Recently I received Tiare Publications latest catalog entitled "Great Radio Reads". This 20 page offering is available from Tiare Publications, P. O. Box 493, Lake Geneva, WI 53147 for US\$1.00. It features nearly 30 Tiare books and products and over 50 books and products from other publishers and manufacturers. Tiare even carries select computer software titles! New books from Tiare include "Coast Guard Radio", "The Warship Directory", and the "Radio Communications Software Directory". It's worth checking out.

PRICE HIKE IN 1991???

It looks like 1991 will bring a price increase in sweatshirts, t shirts and lined windbreaker jackets. I'm not sure when or how much but our vendor has indicated an increase will be necessary in the near future. Now is a good time to order before the expected price increase.

REPRINT NEWS

Dave Turnick reports that he is caught up filling your reprint orders from the Reprint Service Catalogue. Now is a good time to give Dave "the business." Remember, the Reprint Service Catalogue is available for only US\$1.00 worldwide. The catalogue features approximately 100 reprints from the pages of *Friendx* (the good old days). Articles covering receivers, antennas, propagation and many other topics can be found in the Reprint Service Catalogue. Order your copy from the Company Store today.

H-E-L-P!!! From time to time, the Company Store gets requests for Reprint Service Catalogues and Country List/Awards Program booklets without the required US\$1.00 for each item. Please make sure you include the funds to defray copying and postage costs for these items. The Company Store is a nonprofit service to club members without deep pockets! Thanks.

SPECIAL 10TH ANNIVERSARY SWL DIGEST MUG AVAILABLE THROUGH ODXA

The wizards at the Ontario DX Association have developed a special "10th Anniversary SWL Digest" coffee mug featuring SWL Digest host Ian McFarland's signature. Our friendly competitors to the north have put together some neat mugs in the past - this one should be a handsome addition to any mug collection. It's available from the ODXA for US or Canadian \$10.00 in North America or US or Canadian \$12.00 overseas from ODXA Headquarters at P. O. Box 161, Station "A", Willowdale, Ontario M2N 5S8, Canada.

THANK YOU

...for all your support during the Company Store's first year of operation. It's been fun. Dave Turnick, Don Moore and I have enjoyed this opportunity to serve the needs of the membership. Also, thanks for the numerous cards and letters offering seasons greetings during the holiday season. I fell hopelessly behind trying to respond. Consequently, my response rate was awful - sorry. If I try, I may be able to catch up by....Thanksgiving!

73 - RAD

Make checks payable to either Richard D'Angelo or The NASWA Company Store

NASWA Awards

Richard A. D'Angelo
2216 Burkey Drive
Wyomissing, PA 19610



All Continent "ORP" DXer

Gregory A. Hart, Live Oak, FL - Endorsement sticker for 25 KW

African Continental DXer (40 African Broadcast Radio Countries)

Steven R. Lare, Holland, MI

DXer de Pacifica (10 Oceanic Broadcast Countries)

Gregory A. Hart, Live Oak, FL
Larry Kramer, Brighton, CO

DX Centurion (100 Shortwave Broadcast Radio Countries)

R. Bruce Hale, Goffstown, NH

Ecclesiastic DXer (15 Religious Oriented Shortwave Broadcasters)

Robert C. Walker, Wixom, MI

European Senior DXer (25 European Broadcast Radio Countries)

Gary W. Gears, Chicago, IL
Larry Kramer, Brighton, CO
William E. Kurrasch, Ontario, NY

Senior Ecclesiastic DXer (25 Religious Oriented Shortwave Broadcasters)

Gregory A. Hart, Live Oak, FL

Senior Radio Moscow DXer (25 Different Radio Moscow Transmitter Sites)

Gary W. Gears, Chicago, IL

Soviet Sphere DXer (10 Shortwave Broadcast Countries in the USSR)

Gary W. Gears, Chicago, IL
Gregory A. Hart, Live Oak, FL
Cris Hazzard, New Hope, PA

World Wide DXer (50 Different Broadcast Countries)

Gary W. Gears, Chicago, IL
William E. Kurrasch, Ontario, NY

Awards Tidbits

Welcome back to Bruce Hale after a six year absence from the Awards Program. Also, a big welcome to newcomers Gary Gears and Bill Kurrasch for sending in awards applications. Gary is the host of the SPEEDX Report which appears the third Saturday of each month on HCJB's DX Partyline program. Check Tom Sundstrom's listings of DX Programs for times and frequencies.

Greg Hart notes that the International Listening Guide is an excellent reference for going after Radio Moscow sites.

Larry Kramer sports some interesting verifications from the 1950's. Stations such as Radio Monte Carlo, Radio Warsaw, VLCL5 Australia, VRH4 Fiji Islands and VLT6 Papua Territory (6,130 kHz) bring back memories.

About a year ago, Radio Club de Angra on 13,584 kHz from the Azores was being heard by many listeners. A number of DXers have asked about the status of that station. From the information I have seen, this was an unintended shortwave transmission. Although the station has verified, it is not considered SWBC. Therefore, Radio Club de Angra should not be in your SWBC totals. Naturally, that means the station can not be counted for awards purposes.

Steve Lare corrects a previous misstatement of mine: he has earned 29 (!) awards, not 23 as I indicated in the column. Also, more applications are anticipated in the near future. Steve, I hope the MARE DXpendition was a big success. 73 - RAD

Listener's Notebook

Bruce MacGibbon
2295 Juniper Avenue
Gresham, OR 97030



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FORMAT CHANGE - Dates are now in Month/Year. (bmm)

FAREWELL TO "LN" - I have discovered over the past year that listening to shortwave radio 10-15 hours a day plus my children's activities have necessitated me to cut back on my activities. As "LN" plays such a prominent position in showcasing 'NASWA's' "Journal" to SWL's here and abroad, I am no longer able to adequately fulfill the goals of this column.

I would like to thank "NASWA" members who have been contributing over the past year, and truly an experience I will always remember. (bmm)

ASSOCIATION OF PAN-ASIAN RADIO CLUBS - Kanwarjit Sandhu of UDXL has struck a nerve. I have been donating DX materials, Passport, WRTH, & old club newsletters to APARC. My 1990-91 DX'er Directory arrived yesterday. Please note that the address listed for APARC is the same listed with the directory of Mssrs. M. Rahman and M.A. Halim Sarkar. I've written to Kanwarjit Sandhu to see if he has any info about the 'International Radio Listeners Club' of Dhaka, Bangladesh. Perhaps it is using the same umbrella?

For the past two years, DXer Directory has featured the lovely photo of Miss Tarun and listed the same Pirojpur, Bangladesh address as Mr. Kamrul Hassan. Is this a joke? I believe that Miss Tarun is a film star in Bangladesh. Has anyone here had correspondence? (Scott also inclosed their pictures as they appeared in the DXers Directory). (Scott Edwards, Los Alamitos, CA).

SHORTWAVE RADIO PUBLICATION - "Monitoring the Iraq-Kuwait Conflict" by Langley Pierce is now in its second edition. It includes not only broadcast stations, but many utility listings (starting with Air Force One). The price is 3 pounds 95p. The publisher is Interbooks, 8 Abbot St., Perth, Scotland, PH2 OEB. UK postage is 50 pence; overseas airmail is one pound. (HCJB's "DX Partyline" 12/8 via Mike Fern, Covina, CA)

WARC 92 - Frequency Bands Proposed for Consideration - As Extension Bands.

Below 10 MHz		bandwidth (kHz)
a) 4550-4650	kHz	100
b) 5060-5170	kHz	110
c) 5840-5950	kHz	110
d) 6670-6880	kHz	110
e) 7300-7650	kHz	350
f) 9290-9500	kHz	210
g) 9900-9940	kHz	40

Maximum possible extension 1030

a = adjacent to currently allocated broadcasting band

b = possible problems in 6 MHz ISM band (RR 524) should be further investigated.

Above 10 GHz? MHz		bandwidth (kHz))
h) 10250-10500	kHz	250

i)	11500-11650	kHz	a)	150
j)	12050-12120	kHz	a)	70
k)	13570-13600	kHz	a)	30
l)	13800-13900	kHz	a)	100
m)	14500-14800	kHz		300
n)	15600-15980	kHz	a)	380
o)	17480-17550	kHz	a)	70
p)	18480-18780	kHz		300
q)	18900-19300	kHz		400
r)	20200-20700	kHz		500

Maximum possible extension 2550

a) = adjacent to currently allocated broadcasting band.

(via Gordon Darling, Boroko, Papua New Guinea)

ANGUILLA - Caribbean Beacon on 1610 khz heard on 12/4 broadcasting the University Network (Dr. Gene Scott), PO Box 1, LA, CA 90053 with recorded music and requesting reports for the Voice of Hope (KVOH) on 9785 kHz in parallel. I called in a report of reception at 0705 UTC and Dr. Scott read the data I gave them within 4 or 5 minutes. Had 800 #. 338-3030 for U.S. and a number for collect calls from overseas; 818-240-8151. Off at 0800 UTC after what is apparently a 4 hour time block. Interesting to hear this test on both MW and SW. (R.C. Watts, Louisville, KY) (See USA)

AUSTRALIA - Radio Australia on 25 MHz freq for additional beam to the Middle East - Observed on 25750 until 1000* on 11/29 and from 0730-10 on 11/30 and subsequent days. Due to adverse propagation conditions, the exact sign-on time has not yet been determined. At 0929 on 12/1, the frequency was announced as being for listeners in the Middle East. The use of this channel at the above time indicates that Radio Australia has increased the beaming of its English-service to the Middle East. A two-hour segment from 13-15 was introduced on 8/13. (WBI 12/7)

IPS Radio and Space Services - Date 8/13/90. Report - HF Beacon Trial.

Background - An HF Field Strength Measurements campaign coordinated by the CCIR (International Radio Consultative Committee) has commenced. The World Administrative Radio Conference for the planning of HF bands allocated to the broadcasting service invited the CCIR to study the HF propagation prediction method adopted by the 1987 Conference and to undertake HF field strength measurements to test any improvements made to the model.

The required new data cannot be achieved unless new computer-controlled transmitters and receivers are made available on a world-wide scale. There is a particular shortage of data for low latitude and southern hemisphere paths.

First Site: With the cooperation and technical assistance of 6 Sig Regt, the first HF Beacon trial commenced on 20 June 1990 employing a 1 kW transmitter and an omni-directional spiral antenna, located at Diggers Rest, north of Melbourne. Despite the low power, the beacon is being received in UK, Europe, Japan, PNG and within Australia.

Operational requirements may prevent the full-time use of the transmitter; however, only brief down-times have been logged, with availability exceeding 90 percent.

The identifying signal (morse code) is AUS1MLB, while the 5 frequencies assigned are 5470, 7870, 10407, 14405, 20945 kHz in the Fixed Services Bands.

Transmitter Control: IPS has designed and built a control unit that plugs into an IBM PC (or compatible) together with software which operates an HF transmitter in the manner described in CCIR report AA/6.

Each frequency is transmitted for 4 minutes giving a total of 20 minutes for all 5 frequencies. The cycle is repeated, commencing on the hour and at 20 and 40 minutes past the hour.

More transmitters: The success of this campaign depends upon collecting as much data as possible. More transmitters are required. IPS can supply the necessary hardware and software to control an HF transmitter. The transmitter must be frequency agile and radiate of 5 frequencies sequentially according to a predetermined schedule. The desirable transmitter power is 5 - 10 kW. An omni-directional antenna with broad elevation angle pattern is required, eg a single broadband monopole or

conical structure is preferable.

It has been recommended that the campaign extend over a period of at least one year and there would be significant benefit if measurements could be continued in years with other levels of solar activity. (via Gordon Darling, Boroko, Papua New Guinea.)

4910, 0826, ABC, Tennant Creek, Vocal, best in LSB & off in mid-song @ 0829 on 11/20. (bmm)

BOLIVIA - Radio Altiplano, La Paz, has been reactivated. Heard at 2344 on 5044.9. (Pedro Arunategui, Lima via Play-DX via HCJB's 'DX Partyline' via Mike Fern, Covina, CA)

BRAZIL - In Brazil, Antonio Ribeira da Motta compiles regular information about Brazilian short and medium-wave stations. He's also spent most of September compiling a 60-minute tape of identifications from Brazilian radio stations. Even though all the ID's are taken off the air from shortwave, the results are pretty good. The cassette costs US\$7.00 in cash or seven IRC's. It might be a good idea to send cash by registered mail. The address is: News about Brazilian Stations, P.O. Box 949, CEP 12201, San Jose do Campos, SP, Brazil. (Radio Netherlands 'Media Network' 11/29 via Mike Fern, CA)

9675, 0747, Radio Cancao Nova, Song "Silent Night", M announcer in PT QRM'd by Radio Japan at 08 on 12/7. (bmm)

CAMEROON - 4795, 0540, Douala, FR, M talk, dropped signal at 0550 on 12/11. (bmm)

4850, 2342, Yaounde, NA 0003-0004* on 12/12. (bmm)

CANADA - CBC Budget Cut via RCI SWL Digest 12/9 (excerpts only; about 2/3 of the program on this via Mike Fern, Covina, CA).

The C\$108 million budget cut is about 10% of the present CBC budget. It means the closing or reduction in size of eight CBC TV stations in cities like Sydney, NS, Saskatoon, SK, and Calgary, AB. The aim is to preserve the national CBC French and English *radio* networks. The CBC TV network will withdraw from programming intended for purely local audiences. There will no longer be more than one regional TV station in any one province.

Jim Craig: CBC President Gerard Veilleux (sp?) said the CBC intends to stop financing the Parliamentary channel and RCI by April 1, 1991. What happens after that is up to the government.

RCI's director Andrew Simon has indicated he's not entirely displeased by this turn of events. He said support for RCI in upper government circles is strong, and he is optimistic that funding will somehow be found. Furthermore, the new broadcasting act, now before Parliament, and likely to be passed soon, would require the CBC to maintain an international service.

Ian McFarland: For many, many years now one of the major problems of RCI has been that in Canada itself RCI's profile has been extremely low. That lack of awareness of RCI's existence and world-wide recognition extended right into the central government.

Allan Familiant, RCI Program Director: From 1968, when RCI was handed over to CBC, the CBC has not seen the importance of RCI. CBC's primary mandate is to serve Canada from coast to coast. Veilleux said that the government, because of the international ramifications of RCI, has taken it upon itself to seek alternative funding. That's exactly what it means. If you look at this as a two or three step process:

(1) I think it is optimistic that the government has not allowed RCI to be closed down as of Dec. 3 or 4, when the regional stations were shut down.

(2) The broadcasting bill has just gone through third reading, whereby RCI is now enshrined and the wording has been changed to say that the CBC *should* run an international service. Not *may*, not *shall*, but *should*. In other words, the decision on the continuance of RCI is no longer a CBC decision. It is a government decision whether Canada should have an external service, and what size that external service should be. This is the stage we're in right now.

Ian McFarland: We really don't know what size it's going to be on April 1. It depends on the government.

Allan Familiant: That is exactly the situation.

Ian McFarland: In 1968 it was the letters from listeners around the world that largely saved our skin at that time. Did the letters that have

come in this time, and they have come in, in droves, ---as I've said before, I've never been more impressed with the intelligence and the degree of thought that went into these letters, that we are part of people's lives, and the government, I don't think, realizes that. Did all these letters play any part in letting the government know that people feel that way?

Allan Familiant: I think the letters played an invaluable and incalculable part in changing the decision because, you know, preaching for your own parish makes it very self-serving. But getting letters from around the world from objective listeners, I'm sure, had much more of a major effect on the government. We can't be thankful enough.

I don't want to leave the listeners either wearing rose-colored glasses or too gloomy a picture, but I think the realistic assessment is: we're not totally out of the woods; we have not been closed; we have funds till March 31. The CBC has made it very clear that there is no longer any funding after that date, and the decision right now rests with the Canadian government, who is deciding within the next few weeks and/or months how RCI will be funded and to what extent.

CHILE - Gabriel Ivan Barrera recently visited a new Chilean station, Radio Triunfal Evangelica in Santiago on 5825. The schedule is Mo-Sat 22-04, except Thu. The director, Fernando Gonzalez Segura, built the 50-watt transmitter himself. He is also the Bishop of the Misison Pentecostal Fundamentalista. The station has been on the air since 1/5. Future plans are for 500 watts. It has applied for a license. Reports can be sent to: Sr. Fernando Gonzalez Segura, Radio Triunfal Evangelica, Mision Pentecostal Fundamentalista, Costanera Sur 7209, Comuna Cerro Navia, Santiago, Chile. Enclose 2 IRC's or a \$1 bill and (very important) a postcard of the city from which the report originates. (via HCJB's 'DX Partyline' 12/1 via Mike Fern, Covina, CA)

CHINA - Via Radio Netherlands "Media Network" 12/6: Jonathan Marks: If you had been scanning the bands this past week, you might have made a rather surprising discovery. Radio Moscow and Radio Beijing have been broadcasting each other's programs since 12/1. The two stations have agreed to swap programs live via satellite. Because of the overcrowding in the shortwave bands, many larger international broadcasters are saying that a shortwave transmitter has a maximum all-year-round range of just 3,000 kilometers. (sic) If you try a longer path between transmitter and receiver, then the signal cannot compete well, especially when compared to local medium-wave stations in the target area. If you can't build a relay station (in a given target area), maybe there are partners who want to swap transmitter facilities. The deputy director of Radio Beijing's English Service, Chang Chu-Ha has more.

Chang Chu Ha: Radio Beijing and Radio Moscow signed an agreement on 11/8 for mutual broadcast relays. In other words, we are now relaying their radio programs and they are relaying our radio programs. They relay five hours of our programs daily, and I guess we probably do the same. The actual operation began on 12/1. This is mutual broadcast relay, a barter agreement, and we have been doing this kind of thing with a couple of countries for quite some time now.

Jonathan Marks: Indeed, Radio Beijing has concluded similar swaps with Swiss Radio International, Radio Canada International, Radio France International, and Spanish Foreign Radio. Additionally, they also hire air time on radio transmitters in Mali, West Africa, and Radio Bras in Brazil. So what does this particular agreement involve?

Chang Chu Ha: They are now relaying our services in several languages. They include a half hour of the Persian service, two hours of the Arabic language service, half an hour of the Turkish language service, one hour of French and one hour of English. The English service is at UTC 10-11 PM on 7170 kHz. (That's 22-23 UTC on 7170 - Jonathan Marks)

Jonathan Marks: Radio Moscow, for its part, is using Radio Beijing's transmitters to improve coverage for Australia, Bangladesh, Burma, Vietnam, Indonesia, Thailand and the Philippines. But considering the number of shortwave transmitters owned by both countries, why did the two stations need these relays?

Chang Chu Ha: Because we do receive letters from our listeners in Europe saying that they are extremely interested in Chinese politics, Chinese culture and Chinese economic development. But the reception had not been so good. And, of course, it would be difficult for us to have any relay

stations built in Europe now. Even when we had the ability to do that, it would have taken a long time. On the other hand, Radio Moscow says they have a lot of listeners in Asia interested in their programs, and it would have been difficult for them to have relay stations built in this part of the world. So this is really a mutual agreement.

Jonathan Marks: Contacts between the USSR and China have been strained for decades, so this move comes as a surprise to many outside observers. But times are changing, according to the Chinese.

Chang Chu Ha: Radio Beijing and Radio Moscow have had good relations for quite some time. We used to have very good relations especially in the 1950's. Then, because of the ideological rift in the 60's, the relationship was kind of suspended. We have restored contacts and exchanges since the mid 1980's. The development of Sino-Soviet relations has been kind of fast since Mr. Gorbachev's visit to China last year.

Jonathan Marks: This agreement is initially for two years, although it may be extended if it works out. Mind you, there are more relay swaps to come. Radio Beijing is negotiating similar deals with other international broadcasters.

Chang Chu Ha: Yes, we are. We are currently negotiating similar agreements with several broadcasting organizations. I can't really specify them, because nothing is finalized yet. My guess would be that they include broadcasters in Africa, probably, and in North America.

Heilongjiang PBS on 7350 heard 11/27 from *0855 to 0915 with excellent signals. The opening ID is followed by a program guide. Heilongjiang PBS #1 has used this frequency for about a year. The announced sked is 2055-06 and 0855-1420 on 7350//4840. However, monitoring on 7350 yields the #1 program only from 2230-06 and from 0855-1130. (Tetsuya Kondo and Yukimasa Matsushita via Radio Japan's "DX Corner" 12/9 via Mike Fern, CA)

4735, 0053, Urumqi, W & M w/Uighur(?) talk, on 12/5,6. (Bob Bodell, Milwaukie, OR)

4980, 0048, Urumqi, Mongolian talk, lively Chinese-like music, on top of Ecos Del Torbes//5060 w/long-path echo, on 12/5. (Bob Bodell, ibid)

5060, 1513, Xinjiang PBS, Changji, Chinese type music, W announcer in Mongolian on 12/11. (bmm)

11610NF, 0008, CPBS-2(ex CPBS-1)//11040 on 11/20. (bmm)

COLOMBIA - 11792, 2219, Radio Nacional de Colombia, SP, M w/talk//17860 on 12/15. (bmm)

CONGO - 4765, 0540, RTV Congolaise, Brazzaville, W FR on 12/11. (bmm)

COSTA RICA - 4840NF, 0605, R. Reloj, SP M w/ID then alleluia's on 12/8 (bmm)
7375USB, 0307, Radio for Peace Int'l, EG, James Latham said they would like reception reports as they are testing 7375 in AM Mode. At 0311 they shut down SSB as well as 25565 and when back on at 0312 gave freq of 7375AM and 13630(not heard here) on 12/19. (bmm)

ECUADOR - Ecuadorian Radio Survey - by Rich McVicar on HCJB's DX Partyline on 12/15 via Mike Fern, Covina, CA.

The following stations are on the air on a regular basis and were observed on 12/14: (assuming that's when Rich puts the broadcast together; he just said 'this morning' but he read the news after DX Party Line at 0325 12/16)

3220 HCJB regional service. 3240 Radio Antena Libre, Esmeraldas, at 1126 UTC with commercials. 3280 La Voz del Napo, Tena, at 1129 w/religious discussion. 3285 La Voz del Rio Tarqui, Cuenca (reactivated!), at 1130 w/Ecuadorian music; full ID is "Radiodifusora La Voz del Rio Tarqui en Cuenca Ecuador." 3290 Radio Centro, Ambato, at 1131 in SP. 4800 Radio Popular Independiente, Cuenca, at 1143 with series of commercials; excellent signals. 4840 Radio Interoceania, Santa Rosa de Quijos, at 1150 UTC in an Indian language. 4870 Radio Rio Amazonas, Nacuma, at 1150 in an Indian language. 4890 Radio Sentinela del Sur, Loja, at 1153 in SP. 4911 Emisora Gran Colombia, Quito, at 1157 with UNICEF ad and music; reactivated several weeks ago after many months of inactivity. 4920 Radio Quito (reactivated!), at 1158 with news in SP; back on in mid-November after a month or so off the air. 4950 Radio Bahai, Otavalo at 1159 in an unidentified language. Music level is good, but speech modulation is very low. In effect, SINPO 55551 during announcements. 4960 Radio Federacion, Sucua, at 1159 in an Indian language. 5011 Escuelas Radiofonicas Populares, Riobamba at 1201 with

Ecuadorian music. 5040 La Voz del Upano, Macas. Also on 5965 and 6000 kHz with three separate programs at 1200. 5060 Radio Nacional Progreso, Loja, in SP with ads for stores.

Some stations are more or less active but were not heard 12/14. 3332 Radio Cumanda, El Coca, most evenings and a few mornings. 3395 Radio Sarquie, Santo Domingo de Los Colorados, usually there; 4795 La Voz de los Carasaa, Bahia de Carques, heard once in a while. 4850v Radio Luz y Vida, Loja, run by a group of nuns, quite active lately; 4900 La Voz del Saquisili, Saquisili, has been on the air in recent weeks after quite a few months of inactivity. 5030 Radio Catolica Nacional, Quito, usually on the air. 6580 seems to be nothing more than a strong second harmonic of Radio Centro in Ambato on 3290. (WRTH 90 has "Radio La Voz de La Juventud", Catacocha, Sundays only 0000-05* on 6581, but McVicar's not hearing it. - Mike Fern.)

This new year is HCJB's 60th anniversary in radio. Watch for special emphasis throughout the year!! The line-up of "DX Partyline", broadcast on Saturdays and hosted by Rich McVicar during Jan/Feb 91 is: Jan 5/Feb 2 - Radio Stamps by Neil Carleton; Jan 12/Feb 9 - Ontario DX Assoc's perspectives; Jan 19/Feb 16 - Arthur Cushen's DX World & Report from SPEEDX; Jan 26/Feb 23 - Club related concerns from SPARC & EDXC. (via Universal DX League's "DX Post" Vol 3, No. 6, Nov/Dec 90)

Emisora Gran Colombia, Quito - Reactivated on 4911 kHz. (Rich McVicar (Quito Log Book) on HCJB's 'DX Partyline' 12/1 via Mike Fern, Covina, CA) (WRTH 90 says 11-0545 on 610 kHz. m.w. - mf)

EGYPT - 9850, 0552, R. Cairo, AR, M announcer//12050 on 12/6. (bmm)

GABON - VOA is buying time on Africa #1 from 03-04 daily on 15330 & 9655 while the VOA's Liberian transmitters are off the air. (Radio Netherland's "Media Network" 12/6 via Mike Fern, Covina, CA)

17630, 0713, Afrique #1, High-life music, M announcer FR on 12/13. (bmm)

GERMANY - Via Radio Deutsche Welle's "Listeners' Letterbox program at 0100 on November 26, Tony Barrett, UK reports the following:

There was in inquiry from a listener as to whether DW would be having a DX program. The announcer said they could well be taking over the old RBI DX program, with, possibly, a couple of the original staff. (via Radio Netherland's "Media Network" on 12/6 via Mike Fern, CA)

Also via Radio Netherland's "Media Network" on 12/6: Jonathan Marks: It seems that DW faxed a message to several of its monitors this past week, including Don Rhodes in (Yarra Glen) Australia. He then rang us for clarification.

Don Rhodes:(reading) "As from 1 December, the German transmission on 13610 kHz from 1900-2150 will be radiated from Australia. We will be very much obliged if you could send us a reception report after three or four days observation." As far as I know this is the first time that Australia has relayed an overseas radio station.

Jonathan Marks: No, let's kill that rumor. The transmission on 13610 is coming from a former RBI transmitter site in Eastern Germany. It's actually intended for Australia, not from Australia. Radio Australia, in fact, is not involved at all.

0685, 0609, Bayerischer Rundfunk, GM, M talk into Pop music. Good signal on 12/11. (bmm)

GUATEMALA - Evangelical radio station TGNA (Telling the Good Gospel News Abroad) in Guatemala City celebrated its 40th anniversary of broadcasting August 4 and 5. Half of the 12,000 participants in the celebration traveled from rural mountain areas of Guatemala, where TGNA is heard on four frequencies on the AM and FM bands as well as on shortwave. A major highlight was the presence of TGNA's founder, Harold Van Broekhoven, his wife, Loraine, and two of their children. Dr. Van Broekhoven told how he went to Guatemala's National Palace every single day it was open during the nine-month periods to work on getting a license for the station. The fruit of that persistence is evident today. ("Decision", Dec. 90, magazine of the Billy Graham Evangelistic Association and "CAM Bulletin", 1990, No. 5, publication of organization that operates TGNA via Marlin Fields, Hillsdale,

MI)

HAITI - In June, 1990 4VEH celebrated forty years of broadcasting. Highlights from that forty-year period follow: Founded by the Rev. G.T. Bustin, the station went on the air 2 June 1950 originally with only two hours of programs per day, in the English, Spanish, and Creole languages, and beamed from back room of the East and West Indies Bible Mission Tabernacle at Vaudreuil, five miles south of Cap-Haitien. In 1953 the station moved from the back-room cubicle to new studio facilities on the mission compound. Five years later, in 1958, 4VEH was purchased by the Oriental Missionary Society (now OMS International). Beginning in January of 1960, listeners were able to hear the station's broadcasts on pre-tuned transistor radios made by Bible school students. Also in the same year as well as in the following year, Men For Missions, part of the OMS organization, built new facilities on land granted by the Haitian government at Petite Anse, salt flats ideal for transmitting, located three miles east of Cap-Haitien, and added a new 10 kW transmitter. (Today the station has two 10 kW transmitters.). In January of 1967 simulcasts began with French/Creole programs paralleling English/Spanish broadcasts on separate AM frequencies (840 and 1035 kHz). The same year the Emmaus Vocational Bible School opened its doors. Two years later OMS missionaries turned the job of French/Creole programming to the Haitian staff. On 3 May 1977, Gaudin Charles, with a Master's degree in administration and management from Azusa Pacific University in California, became the first Haitian director of 4VEH, and in 1987 Luis Destine, with a diploma in Engineering from Valparaiso Technical Institute in Indiana, became the station's first Haitian technical director. Thirteen years later, in 1990, Charles is still the director of the station. Today the station broadcasts in French and Creole in the mornings and Spanish and English in the afternoons on 4930 kHz.; the 1030 kHz frequency carried English and Spanish programming while French and Creole are heard on 840 kHz. The FM Stereo 95 station, which started broadcasting in 1982, broadcasts from 4:00 p.m. until midnight (local time) in English and French. ("OMS Outreach" via Marlin A. Field, Hillsdale, MI)

HUNGARY - Radio Budapest Sked: 0000-0030(except Mon) SP Am 15220, 15160, 11910, 9835, 9585, 6110; 0030-01 (Mon-Sat) EG Am, 01-0130 Hungarian Am, 0130-02 EG Am, 02-0230 (except Mon & Sat) Hungarian Am, 02-0230(Sat) EG Am, 02-0330(Mon) Hungarian Am, 0230-0245(Tue,Wed,Fri,Sat) EG(DX Pgm) Am, 0245-03(Tue,Wed,Fri,Sat) SP(DX Pgm) Am on 15160, 11910, 9835, 9585, 9520, 6110; 04-0415 RS Eu, 0415-0430 Romanian Eu, 05-0515 Slovak Eu, 0515-0530 Serbo-Croat Eu on 6110; 10-1015(Mon-Fri) EG(DX Pgm) As 15220, 15160, 11925, 9835, 9585, 6110; 1015-1030(Sun) SP(DX Pgm) Eu 15220, 15160, 11910, 9835, 9585, 7220; 1030-1045(Mon-Fri) EG(DX Pgm) As 15220, 15160, 11925, 9835, 9585, 6110; 1035-1045(Sun) GM(DX Pgm) Eu, 1045-11(Sun) EG(DX Pgm) Eu, 11-12(Sun) Hungarian Eu, 115-1130(Sat) GM(DX Pgm) Eu, 1130-1145(Sat) EG(DX Pgm) Eur, 1145-12(Sat) SP(DX Pgm) Eu, 12-1330(Sat,Sun) TK Eu on 15220, 15160, 11910, 9835, 9585, 7220; 1330-15(Sat,Sun) GM Eu, 15-1630(Sun) Hungarian Eu, 15-1630(Sat) GM Eu on 15220, 15160, 11910, 9835, 9585, 6110, 16-1615(Mon,Thu) IT(DX Pgm) Eu on 15220, 15160, 11910, 9835, 9585, 6110; 1615-1630(Mon,Thu) EG(DX Pgm) Eu, 1615-1630(Tue,Wed) GM(DX Pgm) Eu on 15220, 15160, 11910, 9835, 9585, 7220; 1630-17 IT Eu,ME 15220, 15160, 11910, 9835, 9585, 6110; 17-1715 Romanian Eu 6110; 17-1730 TK Eu,ME 15220, 15160, 11910, 9835, 9585, 7220; 1715-1730 RS Eu 6110; 1730-18 GM Eu, 18-1830 IT Eu on 15220, 15160, 11910, 9835, 9585, 7220; 1830-1845 Slovak Eu 6110; 1830-19 TK Eu,ME 15160, 11910, 9835, 9585, 7220; 1845-19 Serbo-Croat Eu 6110; 19-1930(Tue) EG Eu,ME, 19-1930(Fri) GM Eu,ME, 19-1930(except Tue,Fri) Hungarian Eu,ME, 1930-20 EG, 20-2030 Hungarian, 2030-21(except Sun) GM Eu, 21-2130 EG Eu, 2130-22 Hungarian Eu,ME, 22-2230 SP Eu on 11910, 9835, 9585, 9520; 2230-23 Hungarian Am, 23-2330 SP Am, 2330-24(except Sun) Hungarian Am, 2330-01 Sun Hungarian Am on 15220, 15160, 11910, 9835, 9585, 6110, 7220, 6110. (WBI 12/7)

ICELAND - Reykjavik heard at 1215-1245 on 11418, 13830 and 15770. 11418 is the best signal in New Zealand. (Arthur Cushen via RNZI 'Mailbag' Pgm via Mike Fern, CA)

11402USBNF, 2326, M talk. At 2333 vocal then W at 2333 talk & M & 2335*//13855 on 12/11. (bmm)

INDIA - AIR's External Sked until 3/3/91: EG: 2315-0115 on 9535, 11745, 15110 (E&SEAs), 9910, 11715 (NEAs); 10-11 on 15050, 17865, 21735 (NEAs),

15335, 17387 (Aus/NZ); 13-15 on 9565, 11760 (SEAs); 18-20 on 11935, 15360 (EAF); 1845-1945 on 7412, 9950, 11860 (WEU); 2045-2230 on 9730, 11620 (WEU), 9910, 11715, 15265 (Aus/Nz). Hindi: 23-0000 on 1134, 7265, 9705, 11880, 15165 (SEAs); 0315-0415 on 15165, 17805 (EAF); 1745-1830 on 7412, 9550, 11620 (WAS); 1945-2045 on 7412, 9730, 11620 (WEU). Urdu: 0015-0430 on 702, 1071, 6155, 9610 (0130-); 0830-1130 on 702, 1071, 9675, 11770; 1430-1930 on 702, 1071 (1615-), 4860, 6045 (-1830) (all WAS). (Manosij Guha, New Delhi via "DX Post" Vol. 3, No. 6, Nov/Dec 90.)

127/ (bmm)

4790, 0106, AIR, Shillong, subcontinental vocals, M talk, cut to feed @ 0130, news(?) to 0139, then back to music on 12/5. (Bob Bodell, Milwaukie, OR)

4920, 0042, AIR, Madras, continuous subcontinental music on 12/6. (Bob Bodell, ibid)

4960, 0049, AIR, Delhi, W singing subcontinental music, on 12/5 & 12/6 (Bob Bodell, ibid)

4990, 0039, AIR, Madras, Tamil w/M talk, subcont. music, announcements, 0045* on 12/5 & 12/6. (Bob Bodell, ibid)

9950, 1552, AIR, Delhi, EG, Commentary on "Community Harmony and role of the Press" & at 1555-16 Commentary on "Abuse of the Girl Child in S. Asia" into listed Urdu on 12/7. (bmm)

IRAN - Voice of Islamic Republic of Iran EG Sked: 1130-1225 on 9525, 9685, 9705, 11745, 11790; 1930-2030 on 6030 and 9022. The earlier use of 11895 for the 1930 service appears to have been discontinued. (Patrick McDonalad, Sydney, Australia via Radio Australia's 'Japanese DX Time' 12/15,16), but Arthur Cushen says Teheran using 11890NF w/EG from 1930-2030; also on 9022, 6030. (HCJB DX Partyline 12/15 via Mike Fern, Covina, CA)

IRAQ - "Voice of Jihad, Voice of the Holy War, from Baghdad" was first heard by BBC Monitoring on 12/4 on 15170. The service suddenly came on the air at 1614 with a news bulletin starting two or three minutes later. Announcement stated that the broadcast, from 16-18, was directed at India and Pakistan. Reception was too poor to establish further details. (WBI 12/7)

11860, 1844, Voice of Peace, EG, M "Good Evening Ladies and Gentlemen, you have tuned to the Voice of Peace in Baghdad" then short news and another ID at 1853 & 1854. At 1856 Anthem and into AR at 1857 on 12/17 and giving this EG sked: 11-13, 17-19 & 21-23 on 11860. (bmm)

JORDAN - 9560, 1614, Radio Jordan, EG, "Sports Roundup" to 1627 on 12/17 (bmm)

9560, 2319, Radio Jordan, AR, Quaran & at 2322 anthem to 2324 open carrier to 2329 I/S w/time pips at 2330 & M w/ID into Quaran at 2321 on 12/17. Am not really sure why they signoff and come back on again. Anyone else heard this. (bmm)

KAZAKHSTAN - 5035, 0057, Alma Ata, Central Asian Vocals, Brief W announcements, organ chime IS, 0000+ W & M w/ID "Alma Ata", music interlude, Kazakh W talk, instrumental & vocal music on 12/5. (Bob Bodell, Milwaukie, OR)

KIRGHIZIA - 4010, 0147, Frunze, 2 M w/Kirghiz talk, then W RS announcement on 12/5. (Bob Bodell, Milwaukie, OR)

4050, 0142, Frunze, Soft Mideast type vocals on 12/5. (Bob Bodell, ibid)

KIRIBATI - 14918, 1848, Radio Kiribati, Kiribatiese, Island music, M announcing songs on 12/23. (bmm)

KOREA - Ms. Han Hee Joo has been promoted to a new job in Radio Korea World Service. She has been replaced as head of the English Section by Mr. Che Hong-Pyo. Wendell Betton is the new presenter for Shortwave Feedback. (Radio Korea's 'Shortwave Feedback' on 12/8 via Mike Fern, CA)

LAOS - Lao National Radio has a daily broadcast in FR to Europe over Radio Moscow transmitters at 11-1130 & latest sked shows them on 11870, 11960, 15190, 15420. For reception report do not send IRC's as they are not accepted in Laos. (Gordon Darling, Papua New Guinea via Andy Sennitt on RNMN 12/21.)

LIBERIA - The first Radio ELWA broadcast in the Bariba language was aired 8 April 90. There are approximately one million people in Benin and Nigeria who speak the Bariba language. These daily thirty-minute broadcasts are part of the World by 2000 cooperative effort of major evangelical stations--ELWA, FEBC, HCJB, and TWR. SIM has targetted several other languages as priorities for program development. Those included Wolof in Senegal, Djerma in Nigeria, and the language of the Tuaregs and Songhai, both in Niger. ELWA now broadcasts in more than forty languages and dialects. Twenty-three major languages still need to be added as part of the World by 2000 commitment. (SIM's publication, "Praise and Prayer" via Marlin A. Field, Hillsdale, MI)

MALI - Radiodiffusion Television du Mali has this sked - Mon-Thur & Sat: 06-08 & 18-0000 4783, 4835, 5995; 08-10 & 12-18 7285, 9635, 11960; Fri: 06-08 & 18-0000 4783, 4835, 5995; 08-18 7285, 9635, 11960. Sun: 07-18 7285, 9635, 11960; 18-0000 4783, 4835, 5995. ('Kurier' via 'Shortwave Station News' compiled by Mick Ogrizek in 'Australian DX News' 12/90)

MEXICO - XEOI, Radio Mil, 6011 kHz, heard with fair signals 0320-0345 w/News in SP from 0320-0330, .two clear IDs, then Mexican ballads on 12/6. (Mike Fern, Covina, CA)

MONGOLIA - Radio Ulan Bator Sked as read over the air by a W announcer: "This is Radio Ulan Bator broadcasting to Oceania, the Far East, South Asia and Europe. On Mon, Wed, Thu, Sat, and Sun we are on the air from 0910-0940 UTC on 12015 and 11850 kHz in the 24.9 and 25.3 meter bands. Then from 12-1230 UTC on 12025 and 11850 kHz in the 24.9 and 25.3 meter bands. Then from 1445-1515 UTC on 13780 and 9795 kHz in the 21.7 and 30.6 meter bands. And finally, from 1940-2010 UTC on 12050 and 11850 kHz in the 24.8 and 25.3 meter bands (two syllables garbled -- possibly "each day")."

I first monitored this on 9/22, shortly after I received my NASWA Journal. "Listeners' Notebook" that month pointed me in the right direction. As a result, the first time I turned to 12015 I heard a language that sounded neither like Mandarin nor Russian, but something in-between. Sure enough, at 1100 UTC, RUB came on in EG. However, notice that this time and frequency were not given in the schedule. (Harlan Seyfer, Foreign Languages Department, Tsinghua University, Beijing). Thanks alot Harlan. Hopefully, we will see more of your observations in "LN" in the future! (bmm)

3960, 0804, R. Ulan Bator, Dalandzadgad(t), Domestic Svc. M talk in what sounded-like Mongolian on 12/13. (bmm)

NEPAL - 5005, 1514, R. Nepal, Subcontinent vocal, time pips at 1515 on 12/11. (bmm)

NETHERLANDS - Radio Netherlands Freq changes: The weekday short EG transmission at 0830 to Australia has moved to 15560 kHz. The 2030 transmission to West Africa has dropped 9860 and 15560 which have both suffered from interference; we now use 13700, 11660, and 9895 kHz. (via Radio Netherlands "Media Network" 12/6 via Mike Fern, Covina, CA)

NETHERLANDS ANTILLES - Radio Netherlands - Jonathan Marks: For the last two weeks, we've been using a new digital-audio satellite link to our relay station on Bonaire in the Caribbean, which gives much better fidelity and only uses one (telephone-quality) phone line.

We've also added the so-called "Opti-Mod" processor. This splits the audio spectrum into six different bands, and processes them in such a way that the transmitter is forced to modulate more efficiently. It gives the impression of a fuller sound, and punches through the static much better. We first tested it on 11/19 during a Dutch language transmission to Africa. (via Radio Netherlands 'Media Network' on 11/29 via Mike Fern, Covina, CA) & Mike says: It can change an S10 232 signal to an S10 444 signal at the receiving end. Very spectacular, particularly with male voices, where three or four of the six audio slices have no energy in them.

NEW ZEALAND - Radio New Zealand International Frequency Sked effective 1800 on 12/16: 18-2111 Sun to Fri on 15130; 2111-0705 Daily exc Sun on 17675; 0705-1110 Daily 9700; 0000-1110 Sun on 17675. Mailbox w/Tony King on the

first and third Mondays in the month at 0330 UTC with a repeat at 1905 on Fridays. Travel Pacific with Susan Buckland on the second and fourth Mondays in the month at the same times. (via Adrian Sainsbury, Frequency Manager)

NICARAGUA - The Nicaraguan government may resume shortwave broadcasting soon, according to a teaser announcement for the 12/13 edition of 'Media Network', which will travel to Nicaragua and cover the country's media in depth. (Radio Netherlands "Media Network" on 12/6 via Mike Fern, Covina, CA) & on RNMN 12/13 report by Jeff White & thanks to Mike Fern for forwarding information:

Radio Sandino does not plan to resume shortwave broadcasting, according to assistant station manager Umberto Sanchez.

The international service of Radio Nicaragua may return to the air in two months, according to station manager Frank Arana. The station has had difficulty getting repair parts. Radio Nicaragua will probably start up in the 49m band. The frequency of 5950 kHz. has been registered with the Telecommunications Department (Telcor).

The head of Telcor's frequency division, R. Montiel, says a private company is planning to start a commercial shortwave station called Radio Nicaragua Internacional. It has no connection with the government-operated Radio Nicaragua.

Also authorized, but probably not on the air as of mid-December, are: Radio Miskut, a 1kW, station operated by the Miskito Indians on 5970.

Radio Zinica, in Bluefields, which is licensed to use 6120 kHz. A brand new station calling itself Radio Informaciones de Centro America, or Radio Rica for short. The station's manager says they have a 10kW transmitter which will soon begin broadcasting on 4920 kHz. It is also testing on 106.1 MHz. FM.

NIGERIA - 4770, 0550, Kaduna, EG, News till 0558 then ad for "Closeup" at 0559. TP's at 06 on 12/11. (bmm)

PAKISTAN - Radio Pakistan External Sked: 0045-0215 Urdu As 21730, 17640; 01-0245 Bengali As 17895, 15190; 0230-0245 EG (News at dictation speed) As 21730, 17725, 17640, 15115; 03-0345 Swahili Af 17725, 15115; 0330-0415 Persian ME 17710, 15605; 04-05 Gujarati (for East Africa) w/news in Urdu at 04-0403 Af 21575, 17725; 0430-0645 Urdu ME 21580, 17555, 15605; 0515-0615 AR ME 21745, 17870; 07-0745 Turki (for Afghanistan) As 9860, 9495; 0715-0815 Burmese As 21595, 21475, 17785; 0715-1105 Urdu/EG w/News 08-0803 (EG) (from dom svc), 10-1005 News (from dom svc), 11-1105 News (EG) (from dom svc) Eu 21520, 17565; 09-0945 Tamil As 15515, 13665; 1015-11 Indonesian AS 21595, 21475, 17785; 1105-1120 EG (News at dictation speed) Eu 21520, 17565; 1115-1230 Hindi As 15515, 13665; 12-13 AR ME 21530, 17555; 1230-1445 Bengali w/News in Sylheti at 1427-1442 As 17895, 15295; 13-14 Hazaragi (for Afghanistan) As 756 MW; 1315-1545 Urdu ME 21670, 17555, 15605, 13665; 16-1630 EG ME, Af 21530, 21480, 17725, 17555, 15605, 13665; 16-18 Dari As 585 MW; 1645-1745 Turkish Eu, ME 15270, 13665, 11610; 1645-1718 Urdu Eu 15605, 11570; 17-1745 Persian ME 11670, 9520; 1718-18 EG Eu 15605, 11570; 18-19 Urdu Eu 15605, 11570; 18-19 Urdu (Islamabad programme) ME 11600, 585 MW; 1915-2015 FR Eu, ME 11940, 11570. (WBI 16/11)

PAPUA NEW GUINEA - Radio North Solomons - Due to unrest in the area, cannot use its own transmitters, but it has restarted broadcasts over the facilities of Radio East New Britain at 0815 on 3385. (Gordon Darling, Papua New Guinea via Andy Sennitt on RNMN on 12/21.)

3205, 0846, Radio Sandaun, XMAS music on 12/10. (bmm)

3260, 0818, Radio Madang, Pidgin, local music, M announcer, QRN on 12/19. (bmm)

3385, 0758, Radio East New Britain, "Hark the Herald Angels Sing" then M in Pidgin. Good signal on 12/13. (bmm)

PORTUGAL - Voice of Orthodoxy is not a clandestine station, it is a religious station. It broadcast in Russian only. Programs are prepared somewhere in France and transmitted via Sines, Portugal. Previous sked was like this: Sun - 16-17 & Sat/Wed 1630-17 on 9670. So 9690 at 0400 is something new, referring to report by Grigori Grigorieff, USSR on Radio Budapest DX Channel on 10/3 (via Glenn Hauser's "DX Listening Digest" Issue 29, closing date 10/29 via Mike Fern, CA) that he heard them at 0400 on 9690 w/a religious program in Russian. SIO 434. (Valery Ostroverkh, Karaganda,

Kazakh SSR)

Radio Portugal Winter Sked for Mon-Fri EG language broadcasts: Americas: 0230-03 on 9600, 9680, 9705, 11840; India and Far East: 16-1630 on 21530; Europe: 20-2030 on 111740; Africa: 21-2130 on 15250. (Radio Korea's 'Shortwave Feedback' program w/William Matthews on 12/2 via Mike Fern, CA)

SPAIN - Radio Free Afghanistan, 9555 kHz., heard in Pashto from 0230-0255 with fair signals. Sign on, call to prayer, news, two commentaries, unaccompanied male singers. ID sounds like "Dadavat Afghanistan Radio ha." (Mike Fern, Covina, CA)

SRI LANKA - Two 300kW shortwave transmitters have already been installed at Ekala, near Colombo, and have started testing. These transmitters will be used exclusively by Radio Japan at the start. Four more 10-kW transmitters for the SLBC are already in use in the SLBC's domestic shortwave services. The 300kW transmitters went on the air 12/11 using the SLBC's domestic Sinhala service as program material. They will officially begin relaying Radio Japan to South Asia and the Middle East on 1/1/91. One 300kW transmitter has been heard on 11840 between 10-1130. Engineers at Ekala say there is no fixed schedule as of 12/13. The new transmitters also use 9720 when the SLBC External Service is off the air. (Victor Goonetilleke on RNMN 12/13 via Mike Fern, Covina, CA)

6170, 1640, Deutsche Welle via Trincomalee, EG, Report on Vietnamese Boat People in Hong Kong. At 1649 w/final comments & M w/site ID, then 1/S & 1650* on 12/14. (bmm)

TAIWAN - 3335, 1548, CBS-5, Pop songs, W announcer. @1600 ID by M then W on 12/13. (bmm)

TAJIKISTAN - 4635, 0141, Dushanbe 1, usual lovely Central Asian music on 12/5. (Bob Bodell, Milwaukie, OR)

4975, 0202, Dushanbe II, Farsi-like lang w/announcements w/subcontinental-like music in background, brief music interlude, then more announcements on 12/5. (Bob Bodell, ibid)

TOGO - 5047, 2342, RT, FR Vocal, good signal on 12/11. (bmm)

UNITED ARAB EMIRATES - Contrary to HCJB's DX Partyline on 12/15 report by Arthur Cushen that Abu Dhabi in EG from 22-24 on 6170 & 9600; also 22-23 on 15100, and 23-24 on 13605, only AR is being heard by me at these times. (bmm)

UNITED NATIONS - UN Radio Sked: 0000-0015 Mon EG (via Radio For Peace Intl, Costa Rica) Am 21565, 13630; 0015-0020 Tue-Sat SP (via Organisation of American States Radio, Washington, D.C.) Am 15160, 11830; 0145-02 Tue-Sat EG, 02-0230 Tue,Thu,Sat EG (via RFPI, Cost Rica) Am 21565, 13630, 7375; 0745-0815 Sun RS & 0830-09 Sun EG (via Italian Radio Relay Service) Eur 9860; 09-10 Wed CH-Std (via Radio Beijing) As,Au 15165, 15155, 11945, 9945, 9590, 9575, 9480, 6075; 0930-0945 Sun FR Eu, 1015-1030 SP Eu (via Italian Radio Relay Service) 9860; 11-1120 Wed CH-Std (via Radio Beijing) As 17715, 15110, 9590; 1130-12 Sun SP (via HCJB, Quito, Ecuador) Am, Dom 11960, 11910, 9765, 690 MW; 13-14 Wed CH-Std (via Radio Beijing) As 15165, 9945, 9590; 1346-1401 Sat EG (via All India Radio) As 15335, 11810, 9545; 14-1415 Mon-Fri SP (via RFPI), Am 13630, 7375; 1530-16 Mon SP (via RFPI) Am 7375; 1650-1705 Mon Swahili (via Radio Cairo) Af 11975; 1650-1705 Sat Bengali (via All India Radio) As, Dom 4820 594 MW; 1730-1745 Sun Swahili (via R. Tanzania) Af 11734; 1830-1840 Fri RS (via Radio Station 4UZ, Geneva, Switzerland) 7443-usb; 19-1915 Sat EG (via RFPI) Am 21565, 13630; 1930-20 Mon-Fri SP (via HCJB), Am,Dom 17890, 15160, 6050, 690 MW; 1945-2145 Sun AR (via Radio Cairo) ME 11665, 9700; 21-2115 Mon-Fri SP (via XERMX - Radio Mexico Int'l) Am 15430, 11770, 9705, 5985; 2135-2150 Sun EG (via Radio Cairo) Af 15375; 2215 Mon FR (via R Cairo) Af 15375; 2215-2230 EG Mon-Fri & 2230-23 EG Mon,Wed,Fri (via RFPI) Am 21565, 13630. (WBI 23/11)

UNITED STATES - KUSW is now history. John Carson in Oklahoma says its final broadcast ended at 0300 UTC on 12/16. On the 18th, it became KTBN on 7510 first reported by Scott Nelson in South Dakota. Sked is 16-02 on 15590, 02-16 on 7510. So far no sign of a semi-harmonic on 3755. (Glenn Hauser on RCI's 'SWLD' on 12/22.)

7510, 0620, KTVN, Salt Lake City, Utah, Relig programming//my cable TV channel for them. M talking about how he flew across US & watched TBN Stations. Talked "about powerful radio station God put into our hands yesterday, 2 1/2 million watts". Gave a 1-800 # but that was just for merchandise on 12/19. (bmm)

KVOH, Los Angeles, is broadcasting in EG 04-08 on 9785NF. The programs are provided by Dr. Gene Scott's University Network which is satellite based. Scott is probably the most colorful preacher in Southern California since Aimee Semple McPherson. Shortwave radio will not be the same. He told this story on 12/4: Zsa Zsa Gabor asked him if he would perform wedding ceremonies. He said yes and thought no more of it. A few days later he went into his TV auditorium studio and found a studio engineer pacing up and down. He asked, "What's the trouble, Jack?" The engineer replied "I'm having trouble with the studio lighting. Some lights are controlled by thermal coupling, and some by magnetic coupling. I've forgotten which is which." Shortly afterward, Zsa Zsa Gabor met Dr. Scott again and asked if he performed wedding ceremonies. Since she clearly meant business, Dr. Scott asked: "Madam, is this thermal coupling or magnetic coupling?" If you need a good reason to buy a DX-370, Dr. Scott's preaching could be it. (So far as I know, Ms. Gabor is happily married - mf) & more from KVOH - Paul Hunter of KVOH says its SP service is on 17775 from 14-01. Both transmissions use the same double stacked log periodic, beamed 100 degrees on Havana. The northern half-power line passes through Eastern Canada. Hunter said 12/4 that KVOH was pleased with the response to Dr. Scott's broadcasts so far. (Mike Fern, Covina, CA)

U.S.S.R. - Via Radio Netherlands 'Media Network' on 11/29 by Jonathan Marks and second RN voice and thanks to Mike Fern, Covina, CA for this:

I was also fascinated to pick up a reception report from a listener in Moscow to this program, who says he uses an FRG-8800 to pick up our signal on 13770 kHz. at 1430 UTC, and also that he's been tuning since 1974. It was only when I read the name that I did a double-take. On the back of the reception report form, Vassily Strelnikoff says he works in Radio Moscow and has been doing for the last ten years. Well, Vassily has certainly made a name for himself in international broadcasting by his rock request show on both the North American and World Services of Radio Moscow. And Vasily has now pushed the frontiers even further, I understand.

? : Yes, you could say that. Vassily Strelnikoff, who hosts Vassily's Weekend, has opened Vassily's Party Line, a 24-hour answering service at Radio Moscow. You hear a message in Russian, and then you hear the same message repeated in English. Then, of course, the ever-present beep.

Johnathan Marks: The number to try is, first of all, the international access code, then 7, which is the country code for the USSR, 095 for Moscow, and then 2-33-65-91.

Radio Moscow North American Service East Coast Main Features: News - every hour on the hour; Update - daily (except Sat & Sun) 0040, 0240; Moscow Mailbag: Sat 2310, 0110; Sun & Wed 2330, 0130; Top Priority: Fri 2310, 0110; Sun 2340, 0140; Tue 2320, 0120; Home in the USSR: Tue 2340, 0140; Wed & Fri 0020, 0220; New Market: Mon & Tue 0020, 0220; Science & Engineering: Thu 0020, 0220, Fri 2350, 0150, Sun 0010, 0210; Vasily's Weekend: Sat 2330, 0130, Sun 0030, 0230.

Radio Moscow North American Service West Coast Main Features: News: every hour on the hour; Update: daily (except Sat & Sun) 0540, 0740; Moscow Mailbag: Sat 0410, 0610, Sun & Wed 0430, 0630; Top Priority: Fri 0410, 0610, Sun 0440, 0640, Tue 0420, 0620; Home in the USSR: Tue 0440, 0640, Wed & Fri 0520, 0720; NewMarket: Mon & Tue 0520, 0720; Science & Engineering: Thu 0520, 0720, Fri 0450, 0650, Sun 0510, 0710; Vasily's Weekend: Sat 0430, 0630, Sun 0530, 0730. (Direct)

Adygey Radio, Maykop, Adygey Autonomous Oblast Gosteleradio Sked: During summer time in the Soviet Union, this broadcast will be heard one hour earlier than shown. 1830-1930(Friday), Adygey, ME 7130, 5905, 1089MW (from 91/3/3-2/3/91). Additional data: The Adygey language is also known as Circassian. (WBI 16/11)

Kabardino-Balkar Radio, Nalchik, Kabardino-Balkar ASSR Gosteleradio Sked. During summer time in the Soviet Union, this broadcast will be heard one hour earlier than shown. 1830-1900(Sunday) Karbardin, ME 7130, 5905,

1089 MW(from 91/3/3-2/3/91) (WBI 11/16)

Latvian Radio - The 18th of November marked the 72nd anniversary of the declaration of independence of Latvia and creation of the Latvian state. Using this occasion. The First Programme of the Latvian Radio is broadcast daily from 04-23 UTC from Riga on 5935(100 kW). (Info from Latvian Radio via Radio Vilnius' DX Programme on 22/11 via WBI 11/30)

Novosibirsk's Radio Novaya Volna reportedly testing on shortwave frequency - From the second half of October onwards, "Novaya Volna", by way of an experiment on 6115 from 12-17 UTC. The address of the station: Radio "Novaya Volna", Novosibirsk, 48 630 048, USSR. (WBI 11/30)

Radio Alma Ata - Has a DX program on the third and fourth Mondays of each month, from 17-18 on 11950. The language was not given. However, the station is offering a special QSL for reports of reception to this program. Send your report, with 2 IRC's to "Andrei V. Nekrasov, Do Vostr., Central Post Office, Moscow 101000, USSR. (A. Nekrasov, USSR in Play-DX via HCJB's 'DX Partyline' on 12/1 via Mike Fern, ibid)

Radio Vilnius fearful of renewed blocking of broadcasts, appeals to listeners. Radio Vilnius in EG 2230 gmt 11/29. Excerpt from report on a "new campaign launched by the Kremlin against Lithuania making another economic blockade seem possible".

We have mentioned on many occasions in the past that so far Radio Vilnius uses the transmitters located on Soviet territory to relay its broadcasts overseas. The transmitters are located in a number of areas in neighbouring Belorussia, Khabarovsk, Komsomolsk on the Amur, Blagoveshensk and so on. In other words our broadcasts depend entirely on our big eastern neighbour. The possibility that our broadcasts might be blocked in the near future cannot be ruled out. If this would happen it would be very much appreciated if you could inform us immediately. Our telephone number is: 660526, and the aerea code is 0122. (WBI 12/7)

Radio Vilnius Sked: 01-0130 Lithuanian Am 17720, 17690, 15180, 9750, 7400, 6100; 22-2230 Lithuanian Eu, 2230-23 EG Eu on 9675, 6100, 1557, 666; 23-2330 EG Am 117720, 17690, 15180, 9750, 7400, 6100. (WBI 12/7)

Radio Kiev Sked: 0000-01 EG Am, 03-0330 Ukrainian Am on 17720, 17690, 15180, 9750, 7400; 04-0530 Ukrainian Eu 5980, 936; 17-1730 Moldavian Eu 13795, 1467, 891, 657; 17-18 GM Eu 11755, 6175, 6090, 6010; 18-1830 Ukrainian Eu 9720, 6185, 6175, 6090, 6010; 1930-20 Moldavian Eu, 21-2130 13795, 1467, 891, 657; 21-22 EG Eu 6185; 22-23 Ukrainian Am 17720, 17690, 15180, 9800, 7400, 7115, 4895; 22-2330 Ukrainian Eu 6185, 1242, 999-(Kishinev) (WBI 12/7)

Radio Minsk External Sked: 1830-19(except Sun,Wed,Sat) Belorussian Eu, 1830-19(Sun,Wed,Sat) GM Eu on 7420, 7370, 6175, 6090, 6010; 2130-22 Belorussian Eu 6165, 5950, 5915; 2330-24 Belorussian Am 17720, 17690, 15180, 9750, 7400. (WBI 12/7)

Radio Yerevan External Sked: 0330-0350 Armenian Am, 0350-04 EG News Am on 9750, 7400; 08-0850(Sun) Armenian Eu, 0850-09(Sun) FR News Eu on 15510, 15485, 15455; 15-1630 Kurdish ME, 1630-1730 Armenian w/Press Review at 1630, 1730-1830 AR (1730-1750 News, 1810-1830 News) ME, 1830-21 Armenian/TK/Persian (News in TK 1835-1845, News in Persian 1855-1905, News in Armenian 1905-1915) ME on 7390, 6065, 4990, 864; 2130-2150 Armenian Eu, 2150-22(Sun) Armenian Eu, 2150-22(except Sun) FR Eu on 9480, 9470, 7205, 6120; 22-2250 Armenian(for Latin America) Am, 2250-23 SP News(for Latin America) Am on 12060, 12050, 11980, 9480. (WBI 12/7)

Radios Perm and Kudymkar broadcast on short waves. Radio Moscow World Service in Russian 1230 gmt 11/2. Excerpt from report. Local broadcasting from Radio Perm can now be heard at 0130 and 1300 (gmt) on a frequency of 6165. Radio Kudymkar, the administrative centre of the Komi-Permyatskiy National Okrug, can be heard at 0232 (gmt) (also) on a frequency of 6165 and at 1415 (gmt) on a frequency of 11770. (WBI 12/7)

Estonian's Interfront's "Radio Hope" reported on 12056. Radio Moscow World Service in Russian 1230 gmt 12/2. Excerpts from listener's letter. ... Radio Hope (Russian: Radio Nadezhda) the voice of Estonia's Interfront, has been received on a frequency of 12056. According to some data, the power of Radio Hope's shortwave transmitter amounts to between just 500 W and 1 kW..(WBI 12/7)

4940, 0135, R. Afghanistan, after sign/on announcements, music, then Qur'an/74740(also via USSR) on 12/5. (Bob Bodell, Milwaukie, OR)
5940, *0515, Radiostansiya Yunnost, RS, on 12/11. (bmm)

UZBEKISTAN - 4850, 0115, Tashkent w/beautiful subcontinental-like music,

brief announcements on 12/5. (Bob Bodell, Milwaukie, OR)

5945, 1455, Tashkent, subcontinent-like music, brief announcements, 1500* on 12/5. (Bob Bodell, ibid)

YUGOSLAVIA - Radio Yugoslavia EG Sked: 01-0130 on 9620 and 11735; 13-1330 on 17725, 21635 & 21715; 1930-20 on 6160, 7165 & 15165; 22-2245 on 5985, 6100 & 15165. Radio Yugoslavia has changed its interval signal to a bright piano theme, which has been in use for about a month. (Arthur Cushen via RNZI 'Mailbag' program on 12/2 via Mike Fern, CA)

CLANDESTINE - LA VOZ DEL CID - ID: "Esta Es la Cadena Radial de Cuba Independiente y Democratica. La Voz del CID". Language: Best possible reception in India is around 0000-01 UTC, with news in SP at 0030 on 9940v kHz. The location of the transmitter is believed to be Guatemala (Camilo Cienfuegos). The contents of the programmes are mostly hostile towards Fidel Castro of Cuba. Addresses for verifications are: 1) Apartado Postal 8130, 1000 San Jose, Costa Rica. 2) 10020 SW 37th Terrace, Miami, FL 33165, USA. 3) PO Box 6019 08080 Barcelona Spain. 4) Apartado Postal 26843 el Marquez, Caracas, Venezuela. (We have received QSLs from address No. 1). (via Universal DX League's "DX Post" Vol 3, No. 6, Nov/Dec 90.)

Radio Mojahedin of Afghanistan - A new radio hostile to the Afghan government - Monitoring research 7-9 Nov 90.

A radio station calling itself Radio Mojahedin of Afghanistan was heard broadcasting on 6140 kHz from 0200 gmt on 7th November and on subsequent days. Opening announcements in Pashto stated that the radio broadcasts daily from 0630-0800 (0200-0330 gmt) "on 6100 kHz corresponding to the 49.1 metreband". A closing announcement in Dari stated that a second transmission started at 1700 (1230 gmt). This was confirmed on 12th November, also on 6140 kHz.

The 0200-0330 gmt transmission on 9th November included a recitation and interpretation of the Koran, news in Dari (quoting from the Islamic Afghanistan news agency), a poetry recitation, a press review in Pashto and Dari, another poetry recitation and slogans in Pashto and Dari. These were followed by a song, and news and comment in Uzbek and Russian.

Radio Mojahedin of Afghanistan referred to the Afghan government as "the infidel Kabul regime" and described Mojahedin attacks against it. The press review quoted from publications such as 'Neda-e Mojaher', 'Sobj-e Peruz', 'De Jehad Hindara' and the 'New Times' published in Lahore (Pakistan).

In addition to announcing a frequency of "6100 kHz", the radio also announced an address for listeners' letters as: PO Box 204, Peshawar, Pakistan. These details and the format of the transmission bore a close similarity with those of Voice of Afghanistan which operated from 1984 until at least last year, but which has not been heard in many months. (WBI 16/11)

Radio Truth - Closure of station linked to release of spy. SAPA news agency, Johannesburg in English 0346 gmt 2 Nov 90. Text of report. South African Odile Harington, convicted of spying in Zimbabwe, has been released. She was handed to South African officials in Harare on Thursday (1st November), sources in the city confirmed, and flown home within hours. Ms. Harington, 29, spent about six and half years in jail for passing on intelligence about the ANC. She was jailed by the High Court in Harare for 27 years. It is understood that her sudden freeing following years of exhaustive behind-the-scenes missions and efforts by SA officials through various channels. Probably the most important recent development was the cessation on 6th September of broadcasts by Radio Truth from South African territory. It beamed propaganda regarded as destabilising to Zimbabwe. No confirmation of Ms Harington's release could be obtained in Pretoria on Thur night. (WBI 16/11)

V. of Democratic Kampuchea, 8450NF, 0004, Cambodian, W talk//9440, 7350 on 12/10. (bmm)

V. of Democracy, Taiwan - Broadcasting to mainland Chiuna was heard on 8057 kHz for five days 12/7-11. The single program was devoted to the 'Movement of Dec 9, a student uprising in Beijing on Dec 9, 1935. The 37-minute program was broadcast every hour on the hour on 12/7. On 12/8-10 it was broadcast only 19 times, starting at 2200 and ending at 1600. The station did not return after the 1600 UTC transmission on 12/11. It is expected that the station will return at the start of 1991. (Shigenori Aoki, Hideharu Tori, Tetsuya Kondo & Toru Yamashita on Radio Japan's DX Corner 12/16 via Mike Fern, Covina, CA) 73's, Bruce

QSL Reports

Sam Barlo
47 Prospect Place
Bristol, CT 06010



ADMIRALTY ISLANDS: Radio Manus 3315 p/d ltr. in 36 ds. after 3 f/up rpts. v/s Ralph Karahure. (Field-PA).

ALBANIA: Radio Tirana 9500 n/d cd. w/ pin and schedule in 45 ds. for 1 IRC. (O'Keefe-NY).

ALGERIA: RTVA 15215 f/d cd. w/ schedule in 7 wks. for a FR rpt. and ms. (Kohlbrener-PA).

ANGOLA: Radio Nacional de Angola 9719 f/d tri-language cd. w/ ltr. and schedule in 6 wks. for a PT rpt. and ms. v/s Luzia Fancony, Directora de Programas and Lourdes de Almeida, O Chefe de Sector. (Kohlbrener-PA).

* **Emissor Regional do Bie** 4896 p/d cd. w/ ltr. and schedule in 4 mo. for a PT rpt. on an 83 reception. (Barto-CT). **Emissor Regional do Huambo** 5061.9 p/d cd. w/ ltr. and schedule in 4 mo. for a PT rpt. on an 85 reception. (Barto)..... Have you noticed lately how well we are starting to get QSLs from Angola, Syria, Jordan, etc... Isn't it amazing that once the Soviet Union has internal problems, starts siding with us in the UN and abides by UN decisions, that many of the so-called third world countries start to get much friendlier with the US?.... Especially when the Soviet monies for aid is being withdrawn.

I expect the QSLs to start flowing from Ethiopia any day now... Sam.



Last QSL

Radio
Berlin
International
The Voice of the
German
Democratic
Republic



Nolepastraße 10-50
Berlin
DDR - 1160

via John Carson

Oct 3: 19 90

This is to verify receipt of 5 correct reception reports dated July, Sep, 4, 12.

This verification is equivalent to the above indicated QSLs and may therefore be submitted in application for awards.

We hope you will continue to receive and enjoy our programmes.

ARGENTINA: Radio Continental 9115 f/d cd. in 3 wks. w/ sticker and tourist info. v/s Julio Valles. (Matthews-OH).

ARMENIA: Radio Yerevan 11790 f/d cd. in 75 ds. (Lane).

ASIATIC RUSSIA: Radio Moscow 15595 via **Vladivostok** f/d "Kosmos Hotel" cd. in 70 ds. (Kremer-IN). 15425 via **Petropavlovsk-Kamchatsky**

f/d "Kosmos Hotel" cd. in 70 ds. (Kremer-IN).

AUSTRIA: Radio Austria International 15320, 17870 and 11915 f/d ltr. in 3 mo. w/ schedule. (Barto-CT).

BANGLADESH: Radio Bangladesh 15255 n/d "Tiger" cd. in 96 ds. w/ form ltr. and schedule. (Butcher-MA).

BELGIUM: BRT 13675 f/d cd. w/ schedule in 41 ds. (Foland-MI). 9925 f/d "Crucifix" cd. w/ schedule in 1 mo. (Kurrasch-NY). cd. in 65 ds. (Lane).

BRASIL: Radio Cancao Nova 4825 p/d EG cd. w/ stickers and schedule in 21 ds. for a PT rpt. and \$1.00. v/s Tadeu Rodrigues Machado, Secr. Depto.

Radio. (Hart-FL).

Radio Cultura 17815 f/d prepared cd. w/ stickers and station info. in 130 ds. for a PT rpt. and \$1.00. v/s Maria Luiza A. Kfourri, Chefe de Prod. e Programacao-AM. (Hart-FL).



GDR Radio Broadcasting House, Berlin QSL

NOTES: Kurt Cox of Leaburg, OR reports that he has added a new daughter to his family. This has left very little time in the "wee hours" for DXing.... has it left time for anything else? I have two daughters in college...thank goodness! I is free at last - maybe. Kurt, the DX community is very aware of Mr. Yacouba Alwal at La Voix du Niger and his requests for particular types of magazines. It is nothing new. Don't get too worried about it. Mike Hardester in Camp Lejeune, NC says his unit is in preparation for possible deployment. Hope everything works out OK if you go...PS. Kick a little fanny for me while your there...Sam. Don Hooser says that he is starting to send out more reception reports especially to Radio Moscow. As per your question, yes, I did hear St. Helena. Don says that he had to take a little DXpedition to the hinterland to insure hearing St. Helena.

Thank you for your reception report of RADIO ULAANBAATAR's broadcast, which we've checked and found correct as follows:

Mr. Jerry Klack
 Date of reception May 4, 1990
 Time 08:10 - 09:40 UTC GMT
 Frequency 7.205 kHz

We're happy to send you this QSL Card with greetings and good wishes from all of us at RADIO ULAANBAATAR.

RADIO ULAANBAATAR
 C. P. O. Box 365
 ULAANBAATAR, MONGOLIA

BYELORUSSIA: Radio Moscow 15460 via Orsha f/d "Arabat Square" cd. in 75 ds. w/ personal note and several postcards. (Kurrasch-NY). 15540 via Minsk f/d "Kosmos Hotel" cd. in 70 ds. (Kremer-IN).
CAMEROON: CRTV Radio 4850 via Yaounde f/d ltr. in 44 ds. for \$2.00. v/s James Achanyi-Fontem. (Weber-OH). same in 1 mo. (Humenyk-ONT).
CANADA: RCI 17820 f/d cd. in 1 mo. (Lane-IL). f/d "DIY" cd. in 3 wks. (Kohl-brenner-PA). 11855 cd. and ltr. in 25 ds. (Poland-MI). VE3ODX 7068 p/d "ODXA Certificate" in 1 mo. v/s Steve Canney, Station Manager. (Taylor-PA)...Interesting...Sam.

RADIO CLUBE DE MOÇAMBIQUE
 "The Station for Happy Listening"
 Caixa Postal 594
 Lourenço Marques

We have pleasure to confirm your report on 4th October, 1984.
 on frequency 4135 KHz Mfca.
 Call Sign CR73U
 Transmitter power 2500 W
 Remarks
 Please acknowledge receipt of this report for your records.



Mr. Garry Klink
 223 Potters Road
 Buffalo, N.Y. 14220
 U. S. A.

CENTRAL AFRICAN REPUBLIC:

Radio Centrafricaine 5035 2 f/d cds. were rcvd. separately on the same day. This was in 38 ds. after my 3rd f/up rpt. v/s Jacques Mbilo. (Field-PA).

CHINA, PEOPLES REP. OF: Radio

Beijing 9690 and 15100 f/d cd. in 21 ds. w/ paper cuts. v/s Chen Lifang. (Levison). Check your freqs. These may be relays...Sam. 15100 and 17705 f/d cd. w/ sticker in 23 ds. (Levison). 17705 f/d cd. w/ schedule in 30 ds.

COLOMBIA: Ondas del Ortezquaza 4975 p/d 2 page form ltr. in (Poland-MI). 39 ds. for a SP rpt., IRCs and ms. v/s C.P. Norberto Plaza Vargas, Subgerente. This was after 3 f/up rpts. (D'Angelo-PA).

COSTA RICA: AWR 9725 f/f "Coat of Arms" cd. w/ schedule in 64 ds. for 1 IRC. (O'Keefe-NY).

CUBA: Radio Moscow 11710 via Habana f/d cd. in 60 ds. (Kurrasch). 11840 f/d "Peoples Friendship House" cd. in 73 ds. (Kurrasch). 9710 and 11800 f/d "Cuban Architecture" cd. w/ schedule in 105 ds. (Hart-FL). 11820 f/d cd. of "Lenin Park" in 5 mo. w/ schedule. (O'Keefe-NY).

CYPRUS: British Forces Broadcasting Service 7125 3 f/d cds. for 3 different rpts. to 3 different addresses w/in 40 ds. for \$1.00. v/s I.R. Martin and B. Scott. (Field-PA).

CZECHOSLOVAKIA: Radio Praha 7345 f/d "Kozel Chateau" cd. in 41 ds. (Levison-PA). f/d cd. w/ schedule and DX Club info. in 36 ds. (Poland-MI). f/d cd. in 31 ds. (Levison-PA).

DODOCANESE ISLANDS (Rhodes): VOA 9760 f/d cd. in 18 ds. on my 3rd try! v/s Irene Greene. (Butcher-MA).

ECUADOR: HCJB 9745, 11775, 15155 and 17890 f/d "Iliniza Norte" cd. in 5 mo. v/s Glen Volbhardt, Director of Broadcasting. (Humenyk-ONT).

Estação	Frequência	Programa
1	1170	1170
2	1170	1170
3	1170	1170
4	1170	1170
5	1170	1170
6	1170	1170
7	1170	1170
8	1170	1170
9	1170	1170
10	1170	1170

via Klink

PLEASE NOTE: Your editor is requesting any help or information for properly installing and hooking up a Datong FL-3 to a Drake R7 receiver. Your assistance will be greatly appreciated. Please use my address as it appears in the QSL Column heading. Thank you.....Sam.



ECUADOR: HCJB 11775 f/d cd. w/ schedule in 24 ds. (Poland). 15155 f/d cd. in 46 ds. for ms. (Craig-TX).

EGYPT: Radio Cairo 9475 f/d cd. in 60 ds. w/ schedule and calendar for 1 IRC (Kurrasch). f/d cd. in 84 ds. w/ sticker for 2 IRCs. (Tucci-MA). f/d cd. in 106 ds. (Lane-IL).

ENGLAND: British Forces Broadcasting Service 7125 and 13745 p/d "Gulf" cd. in 18 ds. for \$1.00. v/s Richard Astbury, Station Manager. (Hardester-NC). 17695 same cd. in 1 mo. for ms. (Kohlbrener). 7125 f/d "Map" cd. in 30 ds. for \$1.00. (Kurrasch). 7125, 13745 and 9640 p/d cd. in 4 mo. (Barto-CT).

FRANCE: RFI 21635 f/d cd. w/ sticker and schedule in 27 ds. (Poland-MI).

FRENCH GUIANA: Radio Beijing 11695 via Montsinery f/d cd. in 5 wks. v/s Lifang. (Matthews-OH).

GABON: RFI 4890 f/d "Paris et La Seine" cd. in 3 wks. w/ schedule. (Humenyk-ONT).

GEORGIA: Radio Moscow 21725 via Tbilisi f/d "Kosmos Hotel" cd. in 2 mo. (Barto-CT).

GERMANY (East): RBI 13610 f/d cd. for their last transmission. Card was stamped "Last QSL". (Hardester-NC) 13610 and 13770 same type n/d cd. in @ 1 mo. (Matthews-OH).

GERMANY (West): Deutsche Welle 5960 cd. in 22 ds. for 1 IRC. (Craig-TX). VOA Werchatal 7285 f/d "Lincoln Memorial" cd. in 18 ds. for ms. v/s Kathryn Ziehm. (Butcher-MA).

GREECE: VOA Kavala 9700 f/d cd. in 18 ds. for ms. (Butcher). Voice of Greece 11645 f/d cd. w/ schedule in 33 ds. (Poland-MI).



ADDRESSES NEEDED: Addresses/maildrops for the following stations are needed: Radio USA, WLAR, WHFH, Garbanzo and Free Willy. Also Voice of Small, the Abnormal, Yule Tide, Laryngitis and Pope Radio 16. Any help would be appreciated by your editor.....Sam.

Greece: Voice of Greece 15630 and 17535 f/d "Metora Monasteries" cd. w/ schedule in 3 mo. (Barto-CT). 11645, 9865 and 9420 p/d "Parga" cd. in 3 mo. w/ schedule. (Barto-CT).

GUAM: KTWR 11805 f/d cd. in 22 ds. w/ schedule and stickers for 3 IRCs.

GUATEMALA: Radio Buenas Nuevas 4800 f/d prepared cd. w/ station info. in 33 ds. for a SP rpt. and ms. v/s Israel Rodas Merida. (Hart-FL). Radio K'ekchi 4845 n/d ltr. w/ paper pennant in 31 ds. for a SP rpt. and ms. v/s Gilberto Sun Xicol, Gerente. (Hart-FL).

HUNGARY: Radio Budapest 11910 f/d cd. in 22 ds. (Levison).

QSL THE VOICE OF SCOTLAND
 WEEKEND MUSIC
 RADIO Scotland's
 WMR confirmation of reception World Service

Date 26/12/89
 Time 0420UTC
 Freq 6310.0KHz
 Power 100Watts
 Signed [Signature]
 42 avon close, cambridge, england

RADIO ESPAÑA INDEPENDIENTE

24 de Junio de 1977
 We acknowledge with thanks receipt of
 your CD. of 10 de Abril de 1977
 on 14 448 v/s. 21 meters
 on 1610 on 3310 GMI.
 We hope that you will continue to receive
 and enjoy our programs.

RADIO ESPAÑA INDEPENDIENTE
 única emisora española en
 lengua de Francia

Sr.
 G. M. Derling
 80. Seaton Gardens
 Ruislip Manor
 Middlesex
 Inglaterra

VERIFICATION SIGNERS/ADDRESSES: Radio Difusora Libertad 4809 Casilla 568, Centro Minero de Santa Fe, Oruro, Bolivia. Radio Triunfal Evangelica 5825.1 Mision Pentecostal Fundamentalista, (v/s) Sr. Fernando Gonzalez Segura, Costanera Sur 7209, Comuna Cerro Navia, Santiago, Chile. Radio New York International 7520 via WJCR, Box 270, Flushing, NY 11352. Radio 16 de Marzo 4865 Victor E. Flores Sala, Director - Gerente. Radio Esperanza 6090 v/s Eleazar Jara, Jefe de Programacion. Addr: Casilla 830, Temuco, Chile. Radio Europe 7294 Darío Monferini. Radio Alma Ata 11950 v/s Andrei V. Nekrasov. Addr: Central Post Office, of Moscow, 101000 Moscow, USSR. Radio Station Peace and Progress 12020 v/s Alexandre Belichine, RP&P, Moscow 113326, USSR.....Via PLAY IX.....Sam.

ICELAND: INBS 15767 f/d "Aerial View of Reykjavik" cd. in 66 ds. for 3 IRCs. (Kurrasch-NY).
INDIA: AIR 11620 f/d "Court Dancer" cd. in 67 ds. (Peck-NY). f/d "Image of Surya" cd. w/ schedule in 83 ds. for 2 IRCs. (Kurrasch-NY).
IRELAND: Radio Stella International 6320 f/d "Flag and Music" cd. w/ station info. in 75 ds. for \$1.00. (Hart-FL).



ISRAEL: IBA 11605 f/d cd. in 34 ds. w/ schedule. (Tucci-MA). 15640 f/d cd. w/ pennant in 53 ds. (Hart-FL). 11605 f/d cd. w/ schedule in 42 ds. (Foland-MI).

JAPAN: Radio Japan 15325 n/d cd. in 51 ds. w/ schedule for 1 IRC. (Tucci-MA). 11835 "DIY" cd. in 27 ds. (Foland-MI). NHK Sendai Broadcasting Station 3259 f/d prepared cd. in 1 mo. after 3 f/up rpts. v/s Hideki Natsubori, Technical Division. This station used the call letters of JKS20 and officially left the airwaves (SWBC) on 8/6/87. (Kusalik-ALB).

KIRZHIG: Radio Moscow 15140 via Frunze f/d "Arbat Square" cd. in 7 wks. (Kohlbrener).

KOREA, REPUBLIC OF: Radio Korea f/d "Olympic Park" cd. w/ schedule in 59 ds. (Name?)

LAOS: Lao National Radio 6130 f/d cd. in 131 ds. after several f/up rpts. (Paszkiwicz-WI).

MALAYSIA: Voice of Malaysia 15295 n/d ltr. in 65 ds. (Lane-IL).
MEXICO: XEQQ "La Q" 9680 f/d prepared cd. in 2 mo. after 3 f/up rpts. in SP for \$1.00. v/s Martha Aguilar Sandoval. (Kusalik-ALB).

MONACO: TWR 9480 f/d cd. in 19 ds. w/ schedule for 2 IRCs. (Tucci-MA).

NAMIBIA: Namibian Broadcasting Corp. 3290 f/d "Desert Mountains" cd. w/ ltr. and schedule in 9 mo. v/s P. Schachtschneider, Manager. (Klinck).

NEW ZEALAND: Radio New Zealand International 17675 f/d "Shepherd" cd. w/ postcard, schedule, paper pennant and tourist info. in 21 ds. for 3 IRCs. (Kurrasch-NY). f/d cd. in 16 ds. (Poland). 9695 p/d cd. in 37 ds. w/ pennant. (MacHarg).

NIGERIA: FRCN Kaduna 4770 f/d ltr. in 6 wks. for 1 IRC and an SWL cd. v/s Yusuf Garba. (Taylor-PA).

NORWAY: Radio Norway International 15165 f/d cd. in 76 ds. w/ schedule and sticker for 1 IRC. (Tucci-MA). 17755 f/d cd. noting their first ever EG broadcast (No. 21) in 2 1/2 mo. (Matthews-OH).

هنا نواكشوط إيسي نواكشوط
HUNA NOUAKCHOTT!! ICI NOUAKCHOTT
 via D'Angelo

الإذاعة الموريتانية
RADIO MAURITANIE

NOTES: Bill Kurrasch of Ontario, NY reports a non-QSL from the BBC relay outlet in Lesotho on 3255khz. The station replied that they don't have enough staff to acknowledge each report....Several stations are using this approach; however, if they have the staff to

acknowledge your report with a non-QSL, it would seem that they could send a no data QSL card instead of the non-acknowledgement.

At least logically it makes sense but the world doesn't go around that way.....Sam.

Rich "Chuck" Poland of Grand Rapids, MI sent in his first report to the QSL Column after 16 years of on-again/off-again DX activity. He asks if he should send a report to Iraq? Why not? I sent reception reports to Hanoi when I was serving in the Army in Vietnam! What were they going to do - send me home? Hi! Guess what? My reception reports to Hanoi got through because I had the QSLs waiting for me when I got stateside. Hi! Sam.

NORWAY: Radio Norway International 25730 f/d cd. in 54 ds. for 2 IRCs. v/s Sverre Fredheim.(We-

OMAN: BBC 15235 f/d form ltr. in 16 mo. ber-OH). v/s Paddy O'Reilly, Senior Transmitter Engineer.

PAKISTAN: PBC 15605 f/d ltr. in 85 ds. (Zobro-MI). w/ schedule.(Lane-IL). n/d cd. in 219 ds.(Turnick).

PAPUA NEW GUINEA/NEW GUINEA TERR: Radio Western 3305 f/d "NBC" cd. in 2 yrs. for \$1.00.(Kusalik). Radio

East Sepik 3335 p/d personal ltr. in 36 ds. v/s Elias Albert, Assistant Station Manager.(D'Angelo-PA). Radio

Central 3290 p/d ltr. in 2 yrs. for ms. v/s Peter Ellison, Acting Station Manager.(Allen-OK). Radio Enga 2410 f/d ltr. in 172 ds. for ms. v/s Felix K. Tumun (Field-PA).

Radio Western Highlands 3375 p/d personal ltr. w/ station log from my day of reception (!) in 69 ds. for ms. v/s Esau Okole

Station Technician.(D'Angelo). Radio Milne

Bay 3365 f/d cd. w/ 2 page personal ltr. in 55 ds. for ms. after a f/up rpt. v/s Trevor Webumo, Assistant Station Manager.(D'Angelo-PA). Radio Morobe 3220 f/d personal ltr. in 20 ds. for ms. v/s Aloysius R. Nase, Station Manager.(D'Angelo)...Great! Except for Morobe, where are all the Station Managers?...Sam.

PHILIPPINES: FEBC 15490 f/d cd. in 81 ds.(Lane-IL).

POLAND: Radio Polonia 7270 f/d cd. w/ schedule and a personal ltr. in 85 ds. for 1 IRC.(Kurrasch). f/d cd. in 88 ds.(Levison)

PORTUGAL: Radio Portugal 9600 f/d cd. in 39 ds. w/ schedule and sticker for 1 IRC.(Tucci-MA). 9680 cd. w/ schedule in 26 ds.(Poland-MI).

ROMANIA: Radio Romania International 7195 f/d cd. in 240 ds. w/ stickers, pin and schedule.(Bishop-VA).

SAIPAN: KHBI 17555 f/d cd. in 1 mo. for ms.(Lane-IL). 13625 f/d "Transmitter Site" cd. in 1 mo.(Lare-MI).

SARAWAK: Radio TV Malaysia 4950 via Kuching f/d "Broadcast * House" cd. in 7 mo. for 2 IRCs.(Hart-FL).

SCOTLAND: Weekend Music Radio 6310.0 f/d gray cd. in 2 mo. w/ sticker.(Barto-CT).

SOLOMON ISLANDS: SIBC 9545 f/d cd. in 40 ds. for 3 IRCs.(Tucci). same in 25 ds. for 3 IRCs.

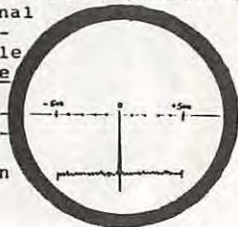
SOUTH AFRICA: Radio RSA 7270 (Kurrasch). f/d cd. in 40 ds. w/ schedule and sticker for 2 IRCs.(Tucci-MA).

SPAIN: Radio Exterior de Espana 11880 f/d cd. in 49 ds.

w/ pennant, sticker and schedule.(Tucci-MA).

same w/ pennant in

40 ds. for 18 reports.(Kurrasch-NY).



THE
VOICE OF MALAYSIA
(SUARA MALAYSIA)

NOTE: Charlie Bishop Jr. of Arlington, VA sent in his first reports to the QSL Column. He says that it has been one of his best ever. Welcome to the club....Sam. Bill Taylor in Unionville, PA says that he got recent QSLs from Jordan and Syria - long time holdouts. I wonder if our show of force has sent a wake up call to certain countries in the region? Thanks for the invite Bill. I'll be in Philadelphia a few times in January and in Princeton, NJ at the University for the EWSL Championships in March...Sam.

YSS" RADIO NACIONAL DE EL SALVADOR

FRECUENCIAS
 655 KCS. ONDA LARGA
 6010 KCS. ONDA CORTA
 DE 49 METROS ONDA
 9583KCS ONDA
 CORTA DE 31MTS.

XQYD EIA

SPAIN: Radio Liberty 7220 via Pals p/d "Map" cd. in 9 ds. (Hosmer-MI).

SRI LANKA: VOA 15250 f/d cd. in 18 ds. on my 3rd try! (Butcher). Deutsche Welle 15275 n/d cd. in 36 ds. (Cox)

SULAWESI: RRI Manado 3215 p/d ltr. in 3 yrs!!! for an IN rpt. and SASE. v/s Drs. Sonny Kasenda. (Allen-OK).

SWEDEN: Radio Sweden International 11705 f/d cd. in 8 ds. w/ schedule and sticker for 1 IRC. (Tucci-MA).

SWITZERLAND: Swiss Radio International 12035 f/d "Town Hall and Cathedral" cd. in 15 ds. (Grenier-NV). Red Cross Broadcasting Service f/d cd. w/ decal and schedule in 27 ds.

SYRIA: SARBS/Radio Damascus 12085 f/d "Globe" cd. (Fern-CA).

via registered mail in 328 ds. for 2 IRCS. (Hart-FL). same w/ schedule and sticker in 13 mo. for ms. (Klinck). in 284 ds. via reg. mail. (Bishop). 17710 f/d cd. w/ schedule, flag and sticker in 17 mo. for 2 IRCS. and a f/up rpt. (Klinck). 11625 cd. w/ schedule and sticker in 1060 ds: QSL was rcvd. on the very day that Bush met Assad. (Michalenska-RI). 9950 f/d cd. in 1 yr. (Basta). same in 318 ds. (Butcher).

15095 f/d cd. in 396 ds.

w/ newsletter and flag.

(Butcher-MA). 9950 and

12085 f/d cd. w/ decal in

2 mo. for 2 IRCS. (Taylor).

9950 and 15095 f/d cd. in 6

mo. for 2 IRCS. (Taylor-PA).

TAIWAN: Voice of Free China

11740 f/d cd. in 28 ds. w/

sticker and schedule. (Tucci)

TURKEY: Voice of Turkey 9795

f/d cd. in 1 mo. w/ schedule

and sticker. (Tucci-MA).

UKRAINIAN SSR: Radio Moscow

11730 via Vinnitza f/d cd.

w/ personal ltr. in 47 ds.

(Kurrasch). f/d cd. in 60 ds. w/ postcards. (Kurrasch). 17670 f/d cd.

in 70 ds. (Kremer-IN). 11750 via Lvov f/d cd. in 60 ds. (Kurrasch).

11980 via Kharkov f/d "Lenin Mausoleum" cd. in 60 ds. (Kurrasch).

USA: WYFR 6065 f/d cd. in 22 ds. for ms. (Turnick-PA). 9505 f/d cd. in 26

ds. for ms. (Craig-TX). WSHB 7395 f/d "Logo" cd. in 22 ds. (Levison-PA).

9455 f/d cd. in 26 ds. (Lane). 9495 f/d cd. in 1 mo. v/s Calvin J. Gil-

es. (Lare-MI). WCNS 21780 f/d cd. in 47 ds. (Lare). 9850 same in 31 ds.

(Levison). 15610 f/d

cd. in 30 ds. (Lane).

Voice of Free China

5950 and 11740 via

WYFR f/d cd. w/ sticker

in 22 ds. (Levison-PA).

5960 f/d cd. in 18 ds.

w/ newspaper and stick-

er. (Levison). 5950 f/d

cd. in 16 ds. w/ stick-

er. (Levison). WHRI 9465

f/d cd. in 2 mo. w/

sticker and station

info. (Humenyk-ONT).

WWCR 7520 f/d cd. w/

schedule in 29 ds. for

ms. (Craig-TX).

Dear Sir,
 Please find enclosed
 thank you for your reception
 RADIO TANGANYIKA
 dated 11/17/89 on our
 transmission which is confirmed.

ESSENI YAKU YA BOMBO ?
 Aerial 1/2 Wave Folded Dipole.

Mr. Gerry Klinck,
 223, Potter's Road,
 Buffalo 20,
 NEW YORK.

U.S.A.

Director of Engineering,
 TANGANYIKA BROADCASTING CORPORATION
 P.O. Box 7111
 DAR ES SALAAM TANGANYIKA

Stamp: TANGANYIKA 01-25

Stamp: REYKJAVIK 21121989

We thank you for your reception report and are pleased to confirm that you have heard our station on 11/17-12-89 at 2307-2824 GMT on 1576F kHz 2300-2300

Sincerely yours,
Ríkisútvarpið

RÍKISÚTVARPIÐ
 ICELANDIC NATIONAL BROADCASTING SERVICE
 SPITALETTI 1, IS-101 REYKJAVIK, ICELAND

Mr. Gerry Klinck
 43 Lein Road
 West Seneca, N.Y. 14224
 U.S.A.



USA: Radio New York International 7520 via **WWCR** f/d cd. in 18 ds. v/s Randi Steele. (Poland). same in 1 wk. for SASE. (Grenier). * **KCIV** FM-100 26070 f/d ltr. in 3 wks. (Matthews-OH)....see below...Sam.

USA (Pirate): Zodiac Radio 7416 f/d cd. in 8 mo. for ms. v/s Frank Marauder. (Allen-OK). **Tube Radio** 7417.7 f/d cd. in 3 mo. for ms. (Taylor-PA). **KUNT** 7415 p/d ltr. in 6 wks. for ms. v/s #054 (Taylor). Unbelievable! I just type this stuff. I don't send it in...Sam. **Radio EXP** 7415 f/d cd. in 21 ds. for ms. (Turnick-PA). **Samurai Radio** f/d cd. in 59 ds. for ms. v/s Eddy Currents. (O'Keefe). **Action Radio** 7415 f/d "Logo" cd. in 60 ds. for a rpt. in ACE. (D'Angelo). **Rockabilly Radio** 7415 (LSB) f/d "Whip-Dee-Do" info. sheet w/ station pennant in @ 1 mo. (Taylor-PA). **WKZP** 7415 f/d cd. in 11 wks. for ms. (Butcher-MA). **Radio USA** 7395 p/d "Punk Rocker" cd. in 1 mo. for ms. Also rcvd. a personal ltr. and station info. sheet. (Taylor-PA). **WORK**

7415 f/d cd. in 32 ds.

for ms. Also rcvd. beer label for "Peoples Brewery"

in Oshkosh, WI. (Palmerheim-MN). same in 20 ds. for ms. (Turnick-PA). **Voice of OZ** 7400 f/d ltr./poster in 9 ds. 250 watts. v/s Howard E. Lyon.

USSR: Radio Station Peace and Progress 15180 cd. in 85 ds. w/ schedule. (Tucci) 11980 cd. in 82 ds. w/ schedule and reception report forms. (Humenyk-ONT). **Radio Moscow** 11710 "Friendship House" cd. w/ schedule in 53 ds. for 1 IRC. (Craig-TX).

UZBEK: Radio Tashkent 15460 f/d cd. in 84 ds. w/ schedule. (Tucci-MA). 9715 f/d "World Map" cd. in 51 ds. w/ postcards and station pin. v/s Mrs. Shodear Burkhan. (Butcher-MA).

VENEZUELA: Radio Nacional de Venezuela 9540 f/d cd. w/ ltr. in 221 ds. for a SP rpt. and ms. v/s Ivan Russa Crespo. (Turnick-PA).

WEST BERLIN: RIAS 6005 f/d cd. in 25 ds. w/ schedule and station sticker (Humenyk-ONT).



November 14, 1990

Mr. William A. Matthews
P.O. Box 15306
Columbus, OH 43215

Dear Mr. Matthews,

Following is the statement you requested for confirmation of reception of programming from our radio station KCIV FM 100.

THIS CONFIRMS YOUR RECEPTION OF OUR PROGRAM Aired on October 27, 1990, from 9:58 AM to 10:30 AM, PDT. WE COVER CENTRAL CALIFORNIA ON 99.9 MEGAHERTZ. YOUR RECEPTION OF OUR PROGRAM ON 26070 KILOHERTZ, 11.51 METERS, WAS OF INTEREST. AS KCIV DOES NOT OPERATE A SHORTWAVE TRANSMITTER, THE BROADCAST YOU HEARD WAS AN UNAUTHORIZED RELAY OF OUR SERVICE BY AN UNKNOWN SOURCE.

Glad you enjoyed what you heard on KCIV.

Sincerely,

Tom Wallace
TOM WALLACE
General Manager

Well I guess this takes care of yet another QSL Column. Last year was pretty good as far as reporting your QSLs. Let's make this year even better. Get those QSLs in so others can see your accomplishments. Since we are starting a new year, how about cleaning up some of the names of the so-called pirate stations. They were fun years ago but it really is getting a bit boring. Best of the new year to everyone and may the QSLs keep your mailman busy...Sam.

Sam

Contributors' Page

Vernon Hyson
9835 Lone Eagle Lane
Charlotte, NC 28215



LOGGINGS CONTRIBUTORS - JANUARY 1991 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA

Guy ATKINS, Issaquah, WA

Jerry BERG, Lexington, MA

Bob BROWN, Lansdale, PA

John CARSON, Norman, OK

David M. CLARK, Newmarket, ONTARIO

Richard A. D'ANGELO, Wyomissing PA

Ken DUPERE, Point Blank, TX

Richard FOLAND, Grand Rapids, MI

Harold FRODGE, Midland, MI

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Mike HARDESTER, Camp Lejeune, NC

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Hans JOHNSON, Columbia, MD

Jerry JOHNSTON, Lexington, KY

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Harold LEVISON, Philadelphia, PA

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Jim RENFREW, Rochester, NY

Jim ROSCOE, Orono, ME

Lloyd ROUPE, Knob Fork, WV

Daniel SAMPSON, Arcadia, WI

Richard WALLACE, Danbury, CT

John WEGENER, St. Peters, MO

Mike WOLFSON, Ashland, OH

Juichi YAMADA, Nara, JAPAN

Robert R. ZILMER, Rio Rancho, NM

NRD525 MAP Farley Loop

Old Hammarlund

NRD525 R4B G5RV & 80m Vert

NRD525

NRD515 51J3 Antennas allover

R70 AlphaDel Slopper

DX350

R71A Trap Dipole 185' Longwire

FRG7

R70 75' Random

NRD525 80' Inverted L

R71A MAP AD370

NRD525 Eavesdropper

DX302 Transoceanic

R5000 Inverted L 60m dipole

R5000

R70

TS9450S 40m Dipole

NRD525 Alpha D Sloper 130' longw

NRD515

ICOM R71A

NRD525 R71A

FRG8800 DX440 AD370

2010, Longwire

R5000

FRG7700 R1000

S108 DX440 Grove Tun4

R5000

R5000 2010

NRD525

NRD525 R7

You can now submit reports by Compuserve EMail. My ID number is 76516,1531. I will be checking mail before 8PM EST or 2000 UTC on the 10th of each month for reports. The loggings are getting more exotic as the winter progresses. The reduction of QRN & favorable ionospheric paths is definitely evident. Maybe someday someone will develop static free AM transmissions without satellite help?

THANKS TO ALL WHO SENT IN REPORTS!

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



- Lots of loggings for you to peruse this month. More loggings are held till next time as well as news about Papua New Guinea (PNG). Hans Johnson says his logging of Kiev on 4915 last time should have been 4940 kHz. Thanks and a great new year to all. Back by popular demand, logs appear in month/day format once again.
- 2310 AUSTRALIA, VL8A, 11/10, 1230 EG, TC, ID, nx, wx, mx, good sig. (Lyon-MN)
- 2390 MEXICO, R. Huayacocotla, 11/21, 1209 SP, mx by 2 men w/ guitar, good sig. (Lyon-MN)
- 2415 CHINA, Zhejiang PBS, Wenzhou, 11/23, 1142-1313 CH, mx, time pips, 1200 CPBS relay, ID 1258, tlk, fair. (Yamada-JAPAN)
- 2904.8 LEGSSER SUNDAS, RPDT2 Ngada, 11/17, 1518-1533, tlk, ballads, ID 1523, 1531, poor-fair. (Atkins-WA)
- 3200 SWAZILAND, TWR, 11/10, 0257-0303 EG/Ndebele, IS, EG ID, tlk by W, gospel singing, SIO=444. (Brown-PA) 11/28, 0300 Ndebele, rel mx, tlk. (Klinck-NY)
- 3205 UNID, poss. AIR Lucknow, 11/25, 1255-1305 fade up, competing w/PNG. Sounded Hindi but too poor of sig to tell (Clark-ON)
- 3210.5 MOZAMBIQUE, R. Mozambique, 11/17, 0258 PT s/on, IDs, nx, fair. (Klinck-NY)
- 3215 SOUTH AFRICA, R. Oranje, 11/28, 0310 AK, pop mx pgm (Klinck) 12/3, 0300 s/on, EG ID 0310, daily meditation, 0304 ID in AK, 0305 morning mx. (Johnson-MD)
- 3215 SULAWESI, RRI Manado, 11/15, 1150-1222 IN mix of tlk, vocals to ID, SCI & Jakarta nx relay, poor. (D'Angelo-PA) 11/15, 1215 very strong, anthem, lcl ID, ads/promos w/echos, sound effects-wild stuff. (Clark-ON)
- 3222 TOGO, R. Kara, 12/4, 2255 to s/off 2300-2305. No ID but hrd sev times s/off w/Togo anthem. (Johnson-MD)
- 3231.8p SUMATRA, RRI Bukittinggi, 11/13, 1135-1420 IN, tlk, pop mx, Jakarta nx 1200, 1300, Qur'an, Islamic mx, poor. (Yamada)
- 3235.1 NEW BRITAIN, R. West New Britain, 12/15, past 1300 w/warble audio, tlk in PD, deep fade. (Clark-ON)
- 3240 SWAZILAND, TWR, 12/3, 0257 IS, EG ID, s/on in presumed Shona. (Johnson-MD) 11/28, 0300 Shona, rel mx, tlk (Klinck)
- 3250 HONDURAS, R. Luz y Vida, 11/22, 0200 SP, full ID, addr. in Santa Barbara, "musica Cristiana." (Prath-FL) 11/25, 0335 EG gospel mx, rel tlks. (Lyon-MN) 11/26, 1140 SP w/kids singing, tlk, ID. (Klinck-NY)
- 3255 INDIA, INES Shillong, 11/25, 1223, brief mx, ID, pop instls, EG nx 1230 //3355, back to mx. (Clark-ON)
- 3255 LESOTHO, BBC Relay, 11/28, 0305 EG w/BBC nx (Klinck-NY)
- 3264.9 SUMATRA, RRI Bengkulu, 11/10, 1503-1515 w/Jakarta nx, Indo Raya 1510, IDs & freq anmts, good sig. (Atkins-WA)
- 3275 PAPUA TERR, R. Southern Highlands, 11/13, 1151-1214 w/EG rock mx incl. Dr. Hook, some EG & PD anmts, nx, TC, lcl mx & ID at 1202. (D'Angelo-PA)
- 3277 KASHMIR, R. Kashmir, 12/9, 1229 w/anmt, wind instrument, EG nx 1230 //3255, 3355, back to own pgm 1235. (Clark-ON) 11/11 tent., 1520-1530 faint audio, Indian film mx, poor but possible as Calcutta & Delhi also hrd at this time (Atkins)
- 3279.8 ECUADOR, LV del Napo, 11/28, 0250 SP, ballads, IDs (Klinck)
- 3280.8 MOZAMBIQUE, EP de Sofala, 11/17, 0258 PT, ID, mx (Klinck)
- 3290 NEW GUINEA, R. Central, 11/24, 0730-0742 EG tlks, mx, ID, faded at 0742, SIO=322. (Wallace-CT)
- 3300 GUATEMALA, R. Cultural, 12/1, 0217-0249 SP, class mx, tlks, ID 0245, Latin mx. (Wolfson-OH)
- 3306.1 TIMOR, RRI Dili, 12/15, 1245 strong sig w/songs, bad mod. anmts hard to understand, SCI 1259, Jak nx but //3345 Ternate better. Echo anmts 1313-1318. (Clark-ON)
- 3310.3t BOLIVIA, R. San Miguel, 12/2, 1002 SP, TC, anmts, too noisy & fade before ID. (Johnson-KY)

- 3315 INDIA, AIR Bhopal, 12/13, 1232, tlc in lang, not //3355 which had EG nx. Hindi nx 1235 //3355. Fair but faded, first showing of this one this season (Clark-ON)
- 3324.9 BRAZIL, R. Universitaria, 11/26, 1145 PF w/lcl mx pgm, IDs. (Klinck-NY)
- 3345 NEW GUINEA, R. Northern, 11/14, 1139-1205 fade, PD tlc by YL, vocals, ID 1158, nx 1200, utility QRM. (D'Angelo-PA)
- 3350 NORTH KOREA, Pyongyang BS, 11/25, 0909 KK, mx, tlks (Klinck)
- 3355 INDIA, AIR Kurseong, 11/24, 1225 w/subcont. mx, 4 pips, ID 1230, nx, best sig on band, better on 11/25! (Clark-ON)
- 3360.1 ECUADOR, R. Federacion, 11/19, 1114 SP, tlc, ID. (Klinck)
- 3366 GHANA, GBC-2, 11/25, 2220 EG, interview on pollution w/ Freq ment of Accra. Fair. (Lyon-MN)
- 3370 GUATEMALA, R. Tezulutlan, 11/7, 0115-0130 w/tlks, LA mx, ID 0130, very strong at 0123. (Kurrasch-NY) 11/22, 0235, tlc, ID, marimbas, //4835. (Prath-FL) 11/28, 0250 SP, tlc, ID, marimbas, listed names (birthdays?) (Lyon-MN)
- 3374.2p SUMATRA, RRI Medan, 12/16, 2258 SCI, anmt, good carrier but low mod, utility QRM 2300. Bukittinggi also hrd on 3231.8 (Clark-ON)
- 3375 INDIA, AIR Guwahati, 12/9, 1233 big sig, subcont. mx // 3365. Back to own pgm 1245, tlc by W, both this & 3365 good to 1250 UTC. (Clark-ON)
- 3377.5 JAPAN, NHK Osaka, 11/18, 1155 weak w/tlc by YL in JP, fanfare 1159, time pips, tlks, faded. No sign of NHK Fukuoka on 3259--is that one still active? (Clark-ON)
- 3394 ECUADOR, R. Zaracay, 11/15, 0234-0302* SP, romantic vcls, Andean flutes, 0300 ID, s/off anmts, no anthem. (D'Angelo-PA)
- 3394.8p SUMATRA, RRI Tanjungkarang, 11/9, 1410-1510 w/IN tlc, good sig but clobbered by RTTY/Fax QRM 1420. EZL mx, ancr ment Jakarta, SCI 1458, Jak nx to 1410 Indo Raya. (Atkins-WA)
- 3395 NEW GUINEA, R. Eastern Highlands, 11/26, 1224 test trans., native vocals, EG anmt every 5 mins ment test broadcast. Off 1254 w/o anthem or s/off anmts. May have been test following instal. of 10 kW xtr. (Clark-ON)
- 3473v BOLIVIA, R. Padilla, 11/18-19, 2320 EZ vcls, ID 2333 over guitars/flutes, tlc or nx 0000, sev ment of Padilla (Clark)
- 3607.5 JAPAN, NHK Tokyo, 11/24, 1235 w/pop mx, strong sig, NHK time pips 1300, off 1303, also hrd Osaka 3377.5. (Clark-ON)
- 3909 USSR, Mayak, 11/24, 1059-1129 RS w/IS, information pgm, class mx, SIO=342. (Yamada-JAPAN)
- 3925 JAPAN, R. Tanpa, 12/13, 0915 JP, rock mx incl. Bon Jovi, tlc abt Christmas. (Grenier-NV) Welcome to the column--sp. 11/17, 0940, JP w/happy tlc, jazz violin, live pgm, nx by W, 3945 also audible. (Lyon-MN) 11/25, 1004-1030 JP, tlks, radio play, brief mx breaks //6055, 9595. (Alexander-PA)
- 3995 WEST GERMANY, DW, 11/23, 0440-0505 fair w/GM tlc, mx, IS, ID. Hams on freq complained abt "that mx station" & switched freq. That'll teach 'em to mess with my DX! (Atkins)
- 4000 CAMEROON, R. Bafoussam, 12/1, 2130 FR w/lcl mx, severe QRM. (Klinck-NY)
- 4010 KIRGHIZ SSR, R. Moscow, 11/9, 1345-1410 in KK/CH, anmts, IS, mx, nx, SIO=444. (Yamada-JAPAN)
- 4035.1 TIBET, Xizang PBS, 11/18, 1214 YL tlc in Tibetan, 1215 OM tlc, quite good //4750. (Clark-ON)
- 4050 KIRGHIZ SSR, R. Frunze, 11/18, 0154-0220 RS, piano mx, tlc, fade out. No //s found. (Alexander-PA)
- 4119.5 CLANDESTINE, Vo Natl Salvation, 11/21, 1145-1208 in lang, tlc, mx //73479.9, 4449.9, 4557, fair. (Brown-PA)
- 4485 ASIATIC RSFSR, Petropavlovsk, 11/13, 1040-1300, R. Soyuz ID 1145. //75940, 7320, 9530, 9600. 7320 last hrd, s/off 1300 w/Mayak IS. (Renfrew-NY) 12/6, 1250 RS w/class mx, Kremlin bells 1300, nx, fair-good. (Roupe-WV)
- 4556.9 CLANDESTINE, Vo Natl Salvation, 11/11, 1525-1535 KK //3480, 4119.5, 4450, ment. Sori Pangsong, fair u/jammers (Atkins-WA)
- 4610 ASIATIC RSFSR, Khabarovsk, 12/6, 1310 RS w/class mx, fair sig fade out 1335, SIO=232. (Roupe-WV)
- 4635 TADZHIK SSR, Dushanbe, 11/18, 0205-0230 RS w/tlc, piano, no //s found. (Alexander-PA)

- 4679.5 ECUADOR, RN de Espejo, 12/6, 0108 w/canned ID, serious anmt, another ID 0110. (Johnson-MD)
- 4725 MYANMAR, Vo Myanmar, 11/16, 1158 in lang w/tlk, ID, lcl mx. (Klinck-NY)
- 4735 CHINA, Xinjiang PBS, Urumqi, 12/6, 0100 tlk by W //5800. (Johnson-MD)
- 4740t USSR, R. Afghanistan relay, 11/18, 0305 in Dari? Afghan folk mx, singing w/tabla & strings, tlks, mx. (Peck-NY)
- 4750 CAMEROON, R. Bertoua, 11/29, 2123 w/pop mx, tlk in FR, 2229 ID, NA. (Johnson-MD)
- 4750 TIBET, Xizang PBS, 11/16, 1148-1215 w/lcl instls, tlks, pres. ID 1200, mx, good reception from China today (D'Angelo) 12/2, 1207-1220 pres. //7109.8. WRTN says CH on 7110 & Tibetan 4750 but this day both in same lang. (Brown-PA)
- 4753.5 SULAWESI, RRI Ujung Pandang, 11/7, 1116-1150 IN w/tlk, ID, Indo pop mx, on 11/11 back on 4719 kHz. (Yamada-JAPAN)
- 4754.9 BRAZIL, R. Educacao Rural, 12/1, 0755 PT, Braz. ballads, pops, ads, tlk, ID jingle, weak with het, ute QRM. (Alexander-PA)
- 4755 HONDURAS, Sani Radio, 11/25, 2328-2400* SP w/C&W mx, pops, closing anmts 2359, ID by YL, lite instl. (Alexander-PA)
- 4760p KASHMIR, R. Kashmir, Leh, 12/9, 1150 tlk across the hour w/ subcont vcls, mixing w/Kunming. Dec. Listener's Notebook ment Leh is back here from 3350 from 1125-1630 in addition to Port Blair so we're back to identity crisis. (Clark-ON)
- 4764.8 CONGO, RTV Congolaise, 11/15, 2200 FR ID, Afr. pops, anmts, (Price-PA) Tnx for your logs--sp. 12/3, 2210 FR w/tlks, mx, ID. (Wallace-CT) 11/24, 2310 great sig, full ID 2313 sounded live from nightclub, great afropops, tnx Tutak tip. One of best Afr. DX afternoons noted in WA. (Atkins-WA) 11/18, 2350-0000* FR, tlk, full ID 2357, anthem, s/off, good. (Morby-NY)
- 4770 NIGERIA, R. Nigeria, Kaduna, 11/10, 0500 EG w/nx, tlk by M, fair. (Lyon-MN) 11/29, 0555-0610 in lang w/hilife mx, EG ID, tlk abt econ, very poor. (Jordan-PA)
- 4774.8 JAVA, RRI Jakarta, 11/18, 2211 better than usual w/Moslem recitation, rel tlk, fading. Other Indos sub par. (Clark)
- 4777 GABON, RTV Gabonaise, 11/15, 2200 FR w/Afr. pops, ID. (Price-PA)
- 4783p MALI, RTV Malienne, 11/24, 2317-2325 Afr. pops, fair & improving sig. NA at 2359 recheck. (Atkins-WA)
- 4785 AZERBAIJAN SSR, R. Baku, 11/14, 0337-0403 in lang, tlk, mx breaks, TP, ID, ment. Baku. (Brown-PA)
- 4787 AZERBAIJAN SSR, R. Baku, 11/18, 0310 w/tlk in RS & Azerbaijani, folk mx. (Frajer/Peck/Bianco-NY)
- 4789.7 PERU, R. Atlantida, 11/18, 0255 SP, ID 0300, huayno, siren sound effects 0320. (Peck/Bianco-NY)
- 4795t CAMEROON, R. Douala, 11/24, 2338-2343 w/soukous mx, tlk in FR, poor-fair. (Atkins-WA)
- 4795.2 ECUADOR, LV de los Caras, 11/22, 0305 tlk, ID. (Johnston-KY) 11/22, 0325 tent, tlks, sounded like sports, good mod for a low power xmtr. (Peck/Bianco-NY)
- 4795 UKRAINE, R. Moscow via Kharkov, 11/10, 0500-0520 EG nx, mailbag, very good. (Renfrew-NY)
- 4800 CHINA, CPBS2, 12/10, 1304 ending nx, class mx, tlk by YL, fair but over Hyderabad, India, //6890. (Clark-ON)
- 4805 BRAZIL, Rdr. Amazonas, 11/7, 0145-0202* solid vcls, no anmt, ID 0202, song, abruptly off, maybe someone kicked plug out of the wall? (Kurrasch-NY) Sorry these didn't appear last month, Bill; yr ltr got in the wrong pile of things--sp. 11/23, 0926 w/mx, ads, under pulse utility. (Johnston-KY) 11/3, 0933-0945 PT, ballads, ID, anmts, good. (Alexander-PA) 12/1, 2344-0030 w/long tlk, political tlk, ID. (Jordan-PA)
- 4810 PERU, R. San Martin, 11/15, 2333-0003 w/anmts, mx, fanfare, ID, SIO=333. (Brown-PA)
- 4810 SOUTH AFRICA, R. Suid Afrika, 11/28, 0320 w/EZ mx, ads, nx by W //3320. (Lyon-MN)

- 4810 ARMENIA, Yerevan, 11/18, *0200-0230 RS, slow piano mx IS, choral anthem, 1cl mx, no //s. (Alexander-PA)
- 4810 USSR, RMWS, 11/10, 1300 EG ID, nx, fair. (Lyon-MN) 11/7, 1340-1430 EG/JP w/RMWS to 1359, into JP. IS, nx, mx, feature. (Yamada-JAPAN)
- 4815 BURKINA FASO, RTV Burkina, 11/22, 0557 w/folk mx, hilife mx, ID 0559, very interesting! (Peck/Bianco-NY) 11/15, 2200 FR w/greeting, IDs, Afr. pop mx. (Price-PA)
- 4820 PERU, R. Atahualpa, 11/10, 0954-1000 w/Andean mx, sev. IDs. (Renfrew-NY)
- 4824.9 BRAZIL, R. Cancao Nova, 11/25, 0715-0831 PT w/pops/ballads, anmts, ID, weak. Wiped out by R. Educadora 0831. //6105, 9675, both weak. (Alexander-PA) 11/23, 2238-2250 poor-fair w/ads, vcls, //6105 poor & 9675 fair. (Wegener-MO) Welcome & report often!--sp. 12/5, 2310 w/soft pops, ID, QPH 2321. (Johnston-KY)
- 4825 BRAZIL, R. Educadora Braganca, 11/25, *0831-0900 w/light mx, anmts, ID, ballads, fair-good. (Alexander-PA)
- 4825 TURKMEN SSR, Ashkhabad, 11/18, 2200-2300* RS w/IS, tlk, speech, piano mx //4860. (Alexander-PA)
- 4835 GUATEMALA, R. Tezulutlan, 11/18, 0250 w/marimbas, sev. IDs, tlks. (Frajner/Peck/Bianco-NY)
- 4835 SARAWAK, RPTM Kuching, 2110-2200 in Bahasa Malaysia, Qur'an, mx, special pgm? This time only Yellow Netwk was on air. //7145, SIO=443. (Yamada-JAPAN)
- 4840 VENEZUELA, R. Valera, 11/10, 0315-0400 w/pops, Top 40 format IDs, promos. (Jordan-PA)
- 4845 COLOMBIA, R. Bucaramanga, 11/10, 0250-0305 w/terrible QRM but MOR mx, Caracol IDs, lost in QRN 0305. (Jordan-PA)
- 4845 MAURITANIA, ORTM, 11/29, 0025, special pgm where phone ins answered questions abt Mauritania for prizes. (Johnson-MD) 11/14, 0715 AR w/Qur'an, mx, strong sig. (Howell-CA) 11/24, 2338 pres., fair sig w/FR tlk, AR mx. (Atkins-WA)
- 4855.6 SUMATRA, RRI Palembang, 11/12, 1410 w/end of Indo Raya anthem, ID 1412, EZ mx, fair but low mod. (Atkins-WA)
- 4858 MOZAMBIQUE, R. Mozambique, 11/15, 0300 PT w/tlks, ment. Maputo, mx. (Klinck-NY)
- 4859.8 PERU, R. La Hora, 11/16, 2308-2337 w/many IDs, tlk, folk ballads, SIO=222. (Brown-PA)
- 4860 INDIA, AIR Delhi, 11/19, 0028 IS, TP 0030, nx in Hindi, 0035 EG nx to 0041* Also noted pres. Pakistan 5084.6 at 0047. (Clark-ON)
- 4870 BENIN, ORTB, 12/3, 2231-2250 FR tlks, mx, ID 2250 to s/off. (Wallace-CT)
- 4870 UNID, suspect SLBC Sinhala Svc., 12/1, maybe testing new IO EW xmtr, 1245 in lang w/subcont vcls, faded by 1300 & no TP hrd on hour (Sri Lanka is on split time zone) (Clark)
- 4874 IRIAN JAYA, RRI Sorong, 11/1, 1154-1206 w/1cl mx, SCI 1200 ID, nx, SIO=353. (D'Angelo-PA) 12/7, 2035-2110 w/pop mx, chimes, nx, ID, radio play, SIO=333. (Yamada-JAPAN)
- 4875 BRAZIL, Rdf. Roraima, 12/2, 0015 pop mx, canned ID by W, (Johnson-MD) 11/26, 0524 ment Roraima & R. Roraima, mx 0600. (Johnston-KY)
- 4875 CHINA, Vo Jinling, 11/15, 1200 CH w/mx, tlk. (Klinck-NY)
- 4880 BANGLADESH, RB, 11/16, 1245 Bengali w/mx, tlk. (Klinck-NY) 12/2, 1250 ending subcont mx, clear ID, wx in EG 1251, ID by W, 5+1 pips 1300. 12/9, 1245 booming in, same format. Could be Berg's unid below. (Clark-ON)
- 4880 UNID, 11/24, 1140 subcont vcl, some anmts, 5+1 pips 1200, Fair at first but faded. TBS lists SLBC Sinhala here. (Berg-MA)
- 4885 COLOMBIA, Ondas del Meta, 12/6, 0120 1cl TCs, full ID at 0200. (Johnston-KY)
- 4890t PAPUA TERR, NBC, 11/16, 0915 EG w/nx, mx, slow fade 0937, poor. (Lyon-MN)
- 4894.6 VIETNAM, Vo Vietnam, 11/22, 1139-1201 in VT w/tlk, SE Asian mx, //10058.7. SIO=232. (Brown-PA)

- 4895 COLOMBIA, LV del Rio Arauca, 11/27, 0235-0259 fair-good w/ads ment RCN, nx 0242, ment Arauca 0259, TP (Wegener-MO)
- 4899.8t GUINEA, RTV Guineenne, 12/1, 2345 hilife mx, FR tlk, no ID, NA at 0000 s/off. (Johnson-MD)
- 4904.5 CHAD, RN Tchadienne, 12/1, 2058 noted on previous days but not today. Surely connected to Habre govt pulling out of N'Djamena. (Johnson-MD) 11/18, 2100 FR w/ID, mx. (Price)
- 4905 CHINA, CPBS1 Beijing, 11/28, 2215 CH, fair sig. (Klinck)
- 4905.2 BRAZIL, R. Relogio Federal, 11/25, 0723 tlk, usual TCs by W every minute, brief mx breaks, weak. (Alexander-PA)
- 4909.9 CAMBODIA, Vo People of Cambodia, 11/3, 1104-1159 in Cambodian, nx, tlk, Cambodian mx pgm, SIO-443. (Yamada-JAPAN)
- 4910 AUSTRALIA, VL8T, 12/6, 0823 fading up quickly w/pop mx, cut mid song 0829 w/o anmt. Weaker //5025. (Clark-ON)
- 4910 ZAMBIA, ZNBC, 11/26, 11/28, 0245 Fish Eagle IS to EG anmts, still good at 0330 w/mx. (Klinck-NY) 11/24, 0350 in lang w/tlk, Kalimba & xylo mx, drums, IS/ID. (Howell-CA)
- 4910.8 SUMATRA, RRI Bukittinggi, 11/18, 2225 w/tlk, better than //3231.8 which was mixed w/ute. Same time RRI Sibolga noted on 5256.3. (Clark-ON)
- 4911 ECUADOR, Emis. Gran Colombia, 12/9, 0140, some audio problems, generally good sig, ID 0200. (Johnson-MD)
- 4915 GHANA, GBC-1, 11/22, 0603 EG w/tlk abt the Ghana Commission (Peck/Bianco-NY) 2140 EG/lang w/tlks, choral mx, ID i. EG, good. (Lyon-MN) 11/21, tent, 2259-2303* w/anthem, EG anmts, hymn or NA to s/off. Also hrd Togo. (Atkins-WA)
- 4914.5 PERU, R. Cora, 11/27, 0002 fair w/"R. Cora de Peru" IDs, tlk abt sports, march mx. (Wegener-MO) 11/12, 0918 w/ID, call ltrs, musica romantica, TCs, tlk abt Lima, for our listeners that are far away, ads for Aero Peru, great sig, all in SP. (Berg-MA) 12/11, 0950-1005 complete ID, many ment of Peru, Lima. (Morby-NY) 11/25, 1055 w/tlks, ID, mx. (Klinck-NY)
- 4920 ECUADOR, R. Quito, 12/6, 0122 mx, ID. (Johnston-KY)
- 4930 DOMINICAN REPUBLIC, R. Barahona, 11/30, 2325-0110 w/IDs, gave Caracas addr for something. Fair w/QRN from Moscow. (Alexander-PA) 11/13, 2355 w/tlks, bad hum on xmtr, mx & IDs. (Johnson-MD)
- 4930t USSR, R. Moscow, 11/22, 0338 RS w/echo tlk, some jazz, ment. Ukraine. (Peck/Bianco-NY)
- 4935t KENYA, Vo Kenya, 11/27, 0308-0335 poor in EG w/muffled audio nx, hilife, partial ID, dropped way down by 0400. Up from trad freq? (Wegener-MO) Have been hrd here recently--sp.
- 4935 PERU, R. Tropical, 11/3, 0946-1005 w/huaynos, sev. IDs, good. (Alexander-PA)
- 4939.6 VENEZUELA, R. Continental, 12/7, 0234, good sig w/tlks, IDs, mx. (Johnson-MD)
- 4940 UKRAINE, R. Kiev, 11/16, 0445 IS, ID, tlk, mx, very good. (Renfrew-NY)
- 4950 SARAWAK, RTM Kuching, 11/17, 1400 EG w/nx, tlk abt Gulf, pop mx, 1455 anncd pgm sked. (Zilmer-NM) Hi Rob--sp.
- 4955 BRAZIL, R. Marajoara, 11/23, 0823, lcl TCs, ID, ment. Para. (Johnston-KY)
- 4960 ECUADOR, R. Federacion, 12/3, 0035-0059* rustic vcls, ID, FC, s/off anmts, off w/o anthem. SIO-252. (D'Angelo-PA)
- 4960t INDIA, AIR Delhi, 11/23, 0144-0200 w/subcont vcls, faded by 0200, very tent, seems late for India. (Alexander-PA)
- 4965 COLOMBIA, R. Santa Fe, 11/10, 1028 w/ID ment. MW freq, exc. At first thot I hrd "veinte tres" (the Bolivian) but then hrd Santa Fe ID. (Renfrew-NY) Same thing happened to me--sp
- 4985 BRAZIL, R. Brasil Central, 11/28, 2222 w/tlk, mx, (Klinck)
- 4990 IRAN, Home Svc, 11/30, 2103 string mx, tlks, "Inja Tehran" ID by W 2229 to s/off. Mixing w/Nigeria. (Johnson-MD)
- 4990 USSR, R. Moscow, 12/6, 2145 FR w/ID, tlk, nx 2200, no sign of Lagos, Nigeria. (Johnson-MD)
- 4991.5p SULAWESI, RRI Gorontalo, 12/15, 1305 Jakarta nx, weak but //73345, last hrd 11/15 on 4997.1. (Clark-ON)

- 4992 SULAWESI, RRI Gorontalo, 11/7, 1350-1410 w/pop mx, chime, gongs, ID, nx. QRM from Hunan PBS 4990 plus RTPY. (Yamada)
- 4997.1p SULAWESI, RRI Gorontalo, 11/15, finally located here at 1255 w/class vcl, unreadable anmts by YL, SCI 1259, poss. nx by M but virtually faded 1300. (Clark-ON)
- 4997.5v SULAWESI, RRI Gorontalo, 11/20, 1330-1430 w/pop mx, chime, gongs, full ID, nx, romantic mx. (Yamada-JAPAN)
- 5000 VENEZUELA, YVTO, 11/22, 0347 w/TP, TC, IDs. (Peck/Bianco-NY)
- 5003.5 RIO MUNI, RN de Guinea Ecuatorial, 11/30, 0454 s/son, NA, tlks. (Johnston-KY) 11/10, ID 2100 & ment. Malabo. Poor under utility. (Renfrew-NY) 12/1, 2120 w/anmts in SP, hilife mx. (Klinck-NY)
- 5010 CAMEROON, R. Garoua, 12/1, 2057 w/AR sounding mx, IS, EG ID 2100. (Johnson-MD) 11/28, 2220 FR w/heavy drama, tlk frequently punctuated by drums. (Klinck-NY) 11/29, 2224-2303* ment Cameroon, s/off anmt, ID, anthem. (Brown-PA)
- 5011v ECUADOR, Esc. Radiofonica Pop, 11/27, 2341-0016 w/long tlk, rustic Andean vcls, canned ID, vcls. (D'Angelo-PA)
- 5015 BRAZIL, R. Pioneira, 11/26, 0405-0418* w/echo ads, pops in PT, abrupt "boa noite" & ID to s/off. (Wegener-MO)
- 5019.8v COLOMBIA, Ecos del Atrato, 11/30, 0329-0355* ID 0330, Caracol promos, LA mx. Played half minute of NA before pulling plug-not very patriotic. (Alexander-PA)
- 5019.8 VIETNAM, Vo Vietnam, 11/25, 1248 w/class oriental vcl, fair w/het from China 5020.1. Better //4894.6. (Clark-ON)
- 5020 NIGER, LV du Sahel, 12/1, 2115 FR w/lcl mx, ID at 2115. (Klinck-NY)
- 5025 CUBA, R. Rebelde, 12/7, 1110 w/Cuban mx //600 kHz. Fair sig, SIO=333. (Roupe-WV) Tnx for yr input--sp.
- 5030p TONGA, TBC, 12/1, 0545 carrier to faint audio 0600. Sounded like BBC or RA relay. 0955 hrd choral hymn or NA //1017 kHz. Both freq gone at 1005 (typical TBC s/off). (Atkins-WA)
- 5040 ECUADOR, LV del Upano, 11/16, 1055-1140 NA, anmts, hymn, rel tlk, mx, SIO=343. (Yamada-JAPAN)
- 5040 GEORGIAN SSR, Tbilisi, 11/18, 0321 w/pops, folk mx, tlk, sounded like toast, "Gamarjobat, gamarjobat" (victory, victory), Georgian drinking songs. (Peck/Bianco-NY) 11/25, 2000 lengthy nx, class piano, 2100 rock mx, laughter, interviews, quick goodbye 2200, 2 minute anthem, not the usual Soviet NA, Georgian NA? (Berg-MA) Hi Jerry--sp.
- 5041.2 ANGOLA, EP de Benguela, 11/17, 0418-0505 PT ballads, pops, Afr. pops, fair. (Alexander-PA)
- 5045 BOLIVIA, R. Panamericana, 11/7, 0245-0252*, good ID, vcls, then off! Testing? (Kurrasch-NY) Hmm--sp.
- 5045 BRAZIL, R. Cultura do Para, 11/7, 0210-0225* w/vcls, ID 0223, carrier remained on past 0225. (Kurrasch-NY) 12/3, 0846, fair-good w/phone in, mx, ment. Belem (Wegener) 11/23, 0851 TCs, cuckoo sound effects, full ID 0901. (Johnston-KY)
- 5046.5 TOGO, RTV Togolaise, 11/24, 2328 in FR w/Afr. pops, fair sig, s/off anmts, ID, NA at 0000 recheck. (Atkins-WA)
- 5060 CHINA, Xinjiang PBS, Urumqi, 12/6, 1210 w/tlks, poor sig //4980, SIO=232. (Roupe-WV)
- 5060 PERU, LV de la Selva, 11/10, 1028 w/ID, anmts btwn songs. (Renfrew-NY) Is this a new frequency?--sp.
- 5065 KAZAKH SSR, Alma Ata, 11/18, 0143-0215 RS w/class mx, opera type mx //5260, 4975 & //5035 after 0200. (Alexander-PA)
- 5066.4t ZAIRE, R. Candip, 12/4, 0405-0432 FR w/tlks & Afr. mx. (Brown-PA)
- 5082.3v PAKISTAN, RP, 11/8, 1355 Urdu, Qur'an, TP, ID, nx, folk mx SIO=333 (Yamada-JAPAN)
- 5145 CHINA, R. Beijing, 12/6, 1200 IS, nx in CH (Roupe-WV)
- 5408 CLANDESTINE, Vo Natl Army, 11/27, 1545 tlk in lang (Howell)
- 5587.4v VIETNAM, Hoang Lien Son BS, 11/16, 1250 mx, brief fade ups site per other sources & //6600. Also 5597.7 12/8, 1235 w/best ever lvl, Buddhist chant, tlk, mx. (Clark-ON)
- 5800 CHINA, Xinjiang PBS, 12/6, 1230 tlks, mx, poor. (Roupe-WV)



International Band Loggings

Wallace C. Treibel
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Seattle, WA 98155

Hereafter, the date reporting format will be Month/Date rather than Date/Month as before.

- 5920 USSR Latvian R Moscow in lang? 0357, IS, mx, //5935 Riga, p (Renfrew NY 11/17)
 5930 USSR Murmansk R in RS 0515, tlk, ID, good morning greetings (Johnson MD 11/23)
 5950 USSR Byelorussian SSR Minsk in lang? 2130, IS, ID (Renfrew NY 11/11)
 5975 ANTIGUA BBC relay in EG 0130, "Seeing Stars" - new program (Wolfson OH 12/1)
 5982 GUATEMALA Union R - AWR in SP 0205, relig mx, TC's, ID, g (Renfrew NY 11/16) ezi
 mx, ID, 0222 (Johnston KY 11/15) in SP 1210, relig mx, tlk (Klinck NY 11/22)
 6000 BRAZIL R Guaiba in PT 0650, lite instrum mx, pops, pips, ID (Alexander PA 11/3)
 60099 MEXICO R Mil in SP 0340, ID, fqys, ballads, ads (Atkins, Paszkiewicz WI 11/15)
 60106 VENEZUELA R Los Andes in SP 0720, LA mx, ID's, TC, anmts (Alexander PA 11/22)
 6020 BRAZIL R Gaucha in PT 0750, local pops/ballads, ads, ID's (Alexander PA 11/3)
 6055 JAPAN R Tansa Tokyo in JP 1103, piano mx, tlk, ID, //9595 (D'Angelo PA 11/12)
 6055nf? IRAQ Holy Medina R in AR 2220, AR mx, bubble jammer QRM, //11990, 13610, 15490,
 (Alexander PA 11/25) in AR 0225, tlk, Holy Koran, //13620 (Howell CA 11/7)
 6055 RWANDA RR Rwandaise in Vern 0410-0420*, IS, tlks, stringed mx (Howell CA 11/14)
 6060 AUSTRALIA RA in EG 1432, infrastructure of Sydney, f, //9660 (Carson OK 12/6)
 6060 ARGENTINA R Nacional in SP 0807, ID, LA mx, DJ, accord'n mx (Alexander PA 11/22)
 6075 GERMANY Deut Welle in GM 0243, tlk re EEC meeting, mx, g (Roupe WV 12/7)
 6085 GERMANY Bayerischer Rundfunk in GM 0641, non-stop polkas, ID (Wegener MO 11/25)
 6087 TAIWAN CBCS Taipei in CH 1150, vocals, tlk, pips, fanfare, nx (D'Angelo PA 12/3)
 In CH 1535, male DJ playing ballads & Asian pops (Howell CA 11/15)
 61055 BOLIVIA R Panamericana in SP 2332, many ads, f-g, best on USB (Wegener MO 11/23)
 6110 HUNGARY R Budapest in EG 0232-0243*, DX pgm, f-p (Carson OK 11/24)
 6116 COLOMBIA LV del Llano in SP 1015, tlks, ID's, brief mx, (Klinck NY 11/25)
 6120 ALBANIA R Tirana in EG 2331, nx, tlk on Serbs in Yugoslavia (Sampson WI 11/23)
 6135 BOLIVIA R Santa Cruz in SP 0906, TC, ID, mx, suddenly off (Paszkiewicz WI 11/22)
 6135 SWITZERLAND Red Cross BCS in EG 0318, mx, cmntry (Poland MI 11/27)
 6155 BOLIVIA R Fides in SP 2315, tlk, TC, ID, //4845 (Wegener MO 11/23)
 6160 CANADA CKZN St Johns in EG 2346, CBC network pgm, wx, nx, ID (Wegener MO 12/3)
 6165 SWITZERLAND SRI in EG/FR 0753, tlk on Swiss watchmaking, nx (Carson OK 11/29)
 6170 CHINA VO Straits Fuzhou in CH 1200, pips, //6115, 7280, 11590 (Renfrew NY 11/16)
 6175 COSTA RICA Faro del Caribe in SP 1120, vocals, ID, //5050 (D'Angelo PA 11/14)
 6188 PERU R Oriente in SP 2351, ID at t/in, ads, mx, het QRM (Johnston KY 12/5)
 6570 MYANMAR(BURMA) Defense Forces R in Bamar 1245, nice Burmese mx (Klinck NY 11/16)
 66002 VIETNAM Hoang Lien Son in VT 1310, relig Buddhist chants/mx, f (Clark ONT 11/24)
 66177 VIETNAM Cao Bang BS in VT 1345, instrumental mx, tlk, p (Clark ONT 11/24)
 6900 TURKEY VoMeterology in TK *0500, NA by chorus, tlk, folk mx, f (Peck NY 11/22)
 In TK after 0500 s/on w/mention of Ankara, mx, low modul, g (Renfrew NY 11/16)
 7105 TAIWAN CBCS Taipei in CH 0950, tlk, mx, jamming began 0956 (Klinck NY 11/25)
 7115 BULGARIA R Sofia in EG 0359, nx, "Cultural Scene", mailbag, g (Carson OK 11/14)
 7145 ALGERIA RTV Algerienne in AR 2234, tlks, AR mx, ID on hr (Klinck NY 11/29)
 7180 HONGKONG BBC East Asia Relay in CH 1000, tlks, ID (Klinck NY 11/25)
 7190 YEMEN Republic Yemen R Aden in AR 0330, nx, clear ID 0400 (Price PA 12/6)
 72029 ZAIRE LV du Zaire in FR 0415, drum mx, tlk, very weak sig (Johnston KY 12/4)
 7205 ALBANIA R Tirana in EG/FR 0638, local efforts to control AIDS, ID (Peck NY 12/2)
 In AR *0430-0457*, IS, ID, NA, tlks, nx?, mx fillers, chorals (Jordan PA 11/10)
 7210nf NORWAY RNI in NO 0301-0430+, tlks, local mx, relay R Denmark on half hr, back
 to R Norway segment on the hr, US pop mx (Jordan PA 11/25)
 7230 ITALY AWR Forli in FR *0729, IS, EG ID, into FR relig pgm (Alexander PA 11/11)
 7250 VATICAN STATE VR in GM 1935, relig pgm for Europe, ID, f-g (Roupe WV 12/6)
 7255 NIGERIA VoNigeria in EG 0500, cmntry, mx, nx, mailbag (Poland MI 11/6)
 7262 MONGOLIA R Ulan Bator in Mongolian? 1208, vocals, //4995 (Clark ONT 11/17)
 72849 MALI RTM in FR *0700, ID, lcl military band mx, g, //9635 (Alexander PA 11/11)
 7400 USSR R Vilnius via Kiev in EG 2300, tlk on situation in Lith (Klinck NY 11/23)
 7400 USSR R Kiev in EG 0006, nx, "Culture in the Ukraine", mx, nx (Levison PA 11/9)

- 7405 CHINA R Beijing in EG 1705, nx, ID, g for this early in day (Howell CA 11/18)
 7475 TUNISIA RMTV in AR 0538, folk mx, drums & strings, ID 0600, f-g (Peck NY 12/2)
 9022 IRAN VOIR Teheran in EG 1930, tlks, nx, interviews, field rpts, instrum'l mx fillers, cmntry, also some SP & AR langs hrd (Wallace CT 11/4, Jordan PA 11/11)
 9325 NO, KOREA R Pyongyang in EG 1500, nx, chorus, cmntry, //9977 (Zilmer NM 12/4)
 9375 ALBANIA R Tirana in GM 0518, flute/drums mx, tlk, ID 0522, f (Peck NY 12/2)
 9395 GREECE PTH Athens in GK 0220, GK mx, //9420 stronger (Lyon MN 11/25)
 9445 TURKEY V of Turkey in EG 0432, tourist pgm, ID, TK mx, f (Carson OK 12/7)
 9475 EGYPT R Cairo in EG 0201, pgm sked, "Oriental Music", tlk re pyramids and monuments of the Middle Kingdom (Carson OK 11/8, Poland MI 11/5)
 9485 MONACO TWR in EG 0800, relig pgm, ID (Wallace CT 11/24, Carson OK 11/28)
 9505nf CUBA RHC in EG 0431, nx, ID, "Be My Guest" & "World of Stamps" (Wolfson OH 12/2) in SP 1240, pgm of world & LA nx topics, SP pop mx, ID, TC (Jordan PA 11/14)
 9505 JAPAN RJ Tokyo in EG 1512, tlk on JP economy, p w/QRM from RHC (Roupe WV 12/6)
 9535 NETHERLAND ANTILLES TWR Bonaire in EG 0335, relig tlk, ad, f-g (Jordan PA 11/23)
 9555 PHILIPPINE IS. R Veritas in Burmese #1126, IS at s/on (Renfrew NY 11/10)
 9565 BRAZIL R Universo in PT 0210, fiery relig polemics, choral, ID (Jordan PA 11/28)
 9570 NORWAY R Denmark relay in DN 0429, ID in EG, into nx in DN, g (Carson OK 12/7)
 9615 PHILIPPINE IS. R Veritas in CH 1532, tlks, mx, f, fgs & ID in EG (Klinck NY 12/7)
 9630 SPAIN RNE in EG 0154, folk/flamenco mx, ID, g (Peck NY 12/3)
 9630 NETHERLAND ANTILLES RN relay in EG 0740, "Newline", heavy QRM (Carson 11/29)
 9635 SINGAPORE Singapore BC Corp in CH 1250, CH mx, buried by RCI 1258 (Klinck 11/23)
 9640 FINLAND RF in EG 1515, sports report, ID (Klinck NY 12/6)
 9645 BRAZIL R Bandeirantes in PT 0810, DJ, ads, jingles, ID, g (Alexander PA 11/3)
 9655 THAILAND RT in Thai 1545-1602*, tlk, Thai mx, ID, NA, choir, g (Atkins WA 11/11) nx in Malay 1328, ID, tlks, mx, ID & fgs in EG, into JP 1400 (Clark ONT 11/25)
 9670 ANTIGUA Deut Welle relay in EG 0517, cmntry on drug abuse, mx (Carson OK 12/10)
 9675 POLAND RP in EG 0639, nx, mx, cmntry, "Focus" (Carson OK 12/7, Poland MI 11/26)
 9680 INDONESIA RRI in IN 1355, mx, ID, fgs, clock ticks, exc at t/i (Clark 11/24)
 9680 PORTUGAL RPI in EG 0241, nx, wx, "Welcome to Portugal" (Poland MI 11/5)
 9700nf NEW ZEALAND RNZI in EG #0705, IS, ID, tlk on NZ economy, comedy (Jordan PA 12/2)
 9705 PORTUGAL RPI in EG 0247, contest pgm, into DX pgm 0249, f (Carson OK 11/24)
 9720 SRI LANKA SLBC in EG 1230, IS, nx, pop mx, pips 1245, tlk (Yamada JAPAN)
 9725 COSTA RICA AMR in EG 0028, "Parent Scene", ads, lecture (Poland MI 11/13)
 9765 MALTA VO Mediterranean in EG 0600, mx (Poland MI 11/27)
 9765nf SWEDEN RS in EG 1400, weekday nx, cmntry, //21570 (Zilmer NM 11/29)
 97797 YEMEN RYR Sana in AR 2035-2111*, nonstop AR mx, Holy Koran, NA (Yamada JAPAN)
 9800 PHILIPPINE IS. FEBC in EG #0853, IS, ID's, skeds, relig pgm (Alexander PA 11/3)
 9840 VIETNAM VOV in EG 2333, nx, VT mx, cmntry, //120185 (Zilmer NM, Carson OK)
 9875 AUSTRIA RAI in GM 0100, nx re Austria's neutrality- Gulf crisis (Roupe WV 12/7)
 9977 NO, KOREA R Pyongyang in EG 1100, tlks re negotiat'ns w/S Korea (Wallace CT)
 10000 JAPAN JJJ time station in JP 1200, CW & voice ID weak under WWV (D'Angelo PA)
 11570 PAKISTAN KP in FR 1950, FR vocals, nx (Paszkiwicz WI 11/10)
 11595 GREECE RS Makedonia in GK 0645, Byzantine hymns, choir, tlk (Peck NY 12/2)
 11605 ISRAEL Kol Israel in EG 0014, mailbag, DX pgm, exc (Carson OK 11/26)
 116603nf ECUADOR HCJB Quito in SP 2215, ID, pips 2230, TC, mx, exc (Treibel WA 12/16)
 11700 ALASKA KNLS in EG 2002-2030, oldies rx, mailbag (Paszkiwicz WI 11/10)
 11705 SWEDEN RS in EG 0202, cmntry, nx, sports, tlk re Iceland (Poland MI 11/5)
 11710 ARGENTINA RAE in EG 0127, mx, cmntry, tourism in Argentina (Poland MI 11/20) in FR 0200, ID, nx, mx, more nx (Wolfson OH 12/1)
 11735 YUGOSLAVIA RY in EG 0101, nx, Macedonia election, econ tlk, g (Sampson WI 11/14)
 11815 NETHERLAND ANTILLES TWR in EG 1148, letter box, ads, cmntry (Poland MI 12/11)
 11825 ALBANIA R Tirana in EG 0230, world & local nx, QRM/load het (Purdue MN 11/6)
 11850 PHILIPPINE IS. FEBC in EG 1500, relig pgm (Zilmer NM 12/4)
 11850 NORWAY RNI in EG 2058*, IS, nx, "Norway Today", g (Carson OK 11/18)
 11860 SEYCHELLES FEBA in Tigrinya 1800-1831*, AF & relig mx, IS, g (Alexander 12/1)
 11860nf IRAQ V of Peace in EG 2100, ID, US pop mx, bubble jammer (Alexander PA 11/25) in EG 1211, mx, propaganda (Poland MI 11/30) AIR here until 2045 and Baghdad hrd in AR until 2054, into EG 2055, mx, NA7, ID, sked but no fgs (Berg MA 11/24)
 11865 CHINA Nei Menggu PBS in Mongolian 0505-0545*, tlk, mx, f-g (Yamada JAPAN)
 11925 BRAZIL R Bandeirantes in PT 2340, excited annr w/futbol game (Prath FL 11/24)
 11930 AUSTRALIA RA in EG 0855, native Outback mx, ID, annnts (Klinck NY 11/25)
 11955 SWITZERLAND SRI in EG 1854, "Dateline", tlk on watchmaking (Prath FL 11/23)
 12055nf USSR R Nadezhda Estonia in lang? 1630, 7 note piano IS, then ID's (Berg MA 11/25)
 13620 IRAQ R Baghdad (occupied Kuwait?) in AR 1430*, bird chirp IS, NA (Price 11/14)
 13650 NO, KOREA R. Pyongyang in EG 2300, nx, interview, mx (Hyson NC 12/7, Poland MI)
 13655 JORDAN R Jordan in AR/EG 1200, goes from AR to EG 1200, g (Berg MA 11/12)

13730 AUSTRIA RAI in EG 1430, "Report from Austria", TC, fqys, sked (Zilmer NM 12/4)
 13745 UNITED KINGDOM BFBS in EG *0200, IS, rock mx for troops in Gulf (Hardester NC)
 15100 CHINA R Beijing in EG 0307, nx, cmntry on Persian Gulf, g (Levison PA 11/2)
 15110 SPAIN REE in SP 2252-2335*, national/world/regional nx, cmntry, f (Jordan 11/24)
 15115 NO. KOREA R Pyongyang in EG 0016, nx, tlk re reunification, g (Levison PA 11/6)
 15190 CONGO RTV Congolaise in FR 1628, stringed instr IS, ID, mx, tlk (Howell CA 12/4)
 15200 FRENCH GULIANA RFI relay in SP/FR 0150, tlk in SP, s/off FR 0157 (Yamada JAPAN)
 15210nf? SWAZILAND TWR in EG 1825, relig tlk & mx, comp ID & address, f (Morby 11/11)
 15310 NORWAY RNI in EG 1800, "Norway This Week" (Zilmer NM 12/1)
 15335 MOROCCO RIM in AR 2210-0100*, AR vocals, mx, interview, p-g (Jordan PA 12/3)
 15340 NO. KOREA R Pyongyang in EG 0657, IS, ID, NA, nx, f (Carson OK 11/22)
 15345 ARGENTINA RAE in SP 1012, tangos, ID of R Nacional, tlk, f (Yamada JAPAN)
 15390 GERMANY Deut Welle in EG 1905, nx, ID, pgm beamed to Africa (Prath FL 11/23)
 15395 SPAIN REE in EG 1923, "Review of Today's Spanish newspapers" (Prath FL 11/23)
 15430 SWITZERLAND SRI in EG 1530, ID, nx, rpt on Thatcher's resignat'n (Prath 11/22)
 15570 MADAGASCAR R Nederland relay in EG 1707, "Media Network" (Grenier NV 12/6)
 15575 SO. KOREA RK in SP 0146, YL w/sign on, ID, M reading nx (Wolfson OH 12/2)
 175545 PAKISTAN RP in Urdu? 1357, ME mx, ID, poor audio, //15605 (Brown PA 12/1) in EG 1602-1630, slo speed nx, editorial (Price PA 11/15, Poland MI 11/27)
 17575 ISRAEL Kol Israel in EG 2248, mailbag, "Innovations" (Zilmer NM 12/3)
 17630 AUSTRALIA RA in EG 0133, mailbag, "At Your Request" (Wolfson OH 12/2)
 17630 GABON Africa #1 in EG 1256, very brief nx headlines (Johnson MD 11/14)
 17675 BELGIUM RTBF in FR *1650, log drum IS, ID "R Belge", nx (Howell CA 11/19)
 17725 YUGOSLAVIA RY in EG 1300, IS, world/home nx, f, //21715 (Carson OK 12/8)
 17810 JAPAN RJ Tokyo in EG 2300, ID, nx, tlks, p (Prath FL 11/23)
 17875nf SWEDEN RS in lang? 1630, test xmsn for alt fgy to repl 17880?, vg (Zilmer 11/21)
 17880 SWEDEN RS in EG 1532, 5.5% inflat'n in Sweden, Volvo losing money (Carson 11/16)
 21455usb ECUADOR HCJB Quito in EG 0100, "DX Party Line", //25950 (Alexander/Levison PA)
 21470 CYPRUS BBC relay in EG 1417, tlk re Japanese econ empire, g (Carson OK 11/29)
 21480nf ECUADOR HCJB Quito in EG 1630, "Quito Calling", relig tlks, nx (Jordan PA 11/25)
 21515usb NETHERLAND ANTILLES RN relay in DT 1726, special SSB test, nx (Carson OK 11/20)
 21595 PAKISTAN RP in Burmese 0714, IS, mx, anmt, Holy Koran reading (Yamada JAPAN)
 21605 UNITED ARAB EMIRATES R Dubai in EG 1330, nx, "Beautiful Arabia" (Poland MI 11/13)
 21625 GERMANY VOA relay in EG 1720, Afr svc, tlks, mailbag, //17800 (Prath FL 11/24)
 21650 VATICAN STATE VR in FR 0559, IS, opening mx & anmt, tlks (Yamada JAPAN)
 21685 NETHERLAND ANTILLES RN relay in EG, mailbag pgm, g (Levison PA 11/24)
 21695 SWITZERLAND SRI in EG 1350, "Swiss Shortwave Merry-go-Round" (Zilmer NM 12/1)
 21715 YUGOSLAVIA RY in EG *1300-1330*, IS 1257, ID, nx, Yugo pop & rock mx, pgm on closer Euro econ ties, skeds, g (Jordan PA 11/20, Carson OK 12/1)
 21740 AUSTRALIA RA in EG 2205, world/Aust nx, into pop mx, f (Carson OK 12/2)

CLANDESTINE STATIONS

7100 A Voz da Resistancia do Galo Negro in FR/EG 1930-2033, ment of Angola, pop mx, ID (Brown PA 11/22) 2118-2220 w/many ments of Luanda etc., ID 2205 (Renfrew NY)
 9045 Iran's Flag of Freedom R(p)-Egypt 0435 tlk, solemn mx, Koran (Howell CA 11/13)
 9400 Radio Iran (Egypt) 1839-1922* in Parsi?, mx, tlk, ID's, jammed (Brown PA 11/17)
 11780 VO Democratic Kampuchea (China) 0900 in Cambodian, mx, tlk (Yamada JAPAN 11/3)
 11860 VO Peace (site?) 2201 in EG, pop mx, weak (Paszkievicz WI 11/23)
 15686 VO Unity (Egypt) *0120 in Pashto/Dari, flute IS, tlk, ME mx, g (Alexander PA)

PIRATE STATIONS

6275 United World R in EG 0111*, IS, ID, rock mx, NY address (Alexander PA 11/10)
 7380v One Voice R in EG 0040-0120, health tlks, ID, PA addr (Alexander PA, Frodge MI)
 7415v R USA, Samurai R, VO Purple Pumpkin in EG 0045*, ID, ads (D'Angelo PA 11/4)
 7410 R Covert in EG 2334, comedy show from 40's, ID (Poland MI 11/29)
 7410 Voice of OZ in EG 0239, Halloween pgm, rock mx, NY addr (Frodge MI 11/1)
 74143 Hope R Int in EG 2345, rock, ID, humor, ads (Alexander 11/24, Poland 12/1)
 74155 R Wolf Int in EG 2253*, parodies, rock, PA addr, exc (Brown PA 11/9)
 74159 Secret Mt Lab in EG 2017*, C&W mx, folk mx, ID, NY addr (Alexander PA 11/25)
 15011 CFBN in EG 2130*, ID's, "Fly by Night Radio", NY addr, loon IS (Alexander PA)
 150496 VO Purple Pumpkin in EG 2145*, oldies, ID, Twilight zone mx (Paszkievicz 11/3)
 150497 Radio USA in EG 2151, IS, ID, punk mx, fake ads, //7395 (Paszkievicz WI 11/3)

 HAPPY NEW YEAR AND BEST REGARDS

English Schedules

Tom Sundstrom

P.O. Box 2275
Vincentown, NJ 08088-2275
MCI Mail 244-6376
Fax 609-859-3226
Pinelands RBBS 609-859-1910



Prepared 12/28/90 at 6:35 PM.

Thanks to **John Carson (OK)**, **Bob German of WSHB**, **Kris Field (PA)**, **Larry Nebron (CA)**, **Fred Kohlbrenner (PA)** and **Joe Hanlon (NJ)** for the contributions this month.

Don't forget to mark **March 22-24** on your calendar and plan to attend the fourth annual **Winter SWL Festival** in **Kulpville, PA**. Look for more information and a registration form in this or the next *Journal*. We'll see you there.

By the time you read this, the *1991 World Radio TV Handbook* should be available from all the usual sources.

Notes

At **02 R Swiss Int'l** moved to **6125** from **6095**, probably to avoid the severe interference from **DW** on **6100** in **German**.

I am surprised to hear a clear signal from **R Havana Cuba** via the **USSR** on **7215** at **22**; ***DXers Unlimited*** airs at **2215** Saturday. Within the two-hour block to the Americas, the show seems to be moving around in start times, but there is no clear indication of whether the moves are permanent. It appears that the show now airs in the second hour. **RHC** apparently had problems with the transmitter on **11820** for about two weeks in early December, and continues to fight it out on **9505** with **WYFR** and on **9750** with **R Moscow**. I spoke with **Arnie Coro** via the telephone on December 15; he told me the nominal times for his show to **NA** are **H+35-40** (depending on the length of the **H+30** news) in the first hour of the two-hour block and he was unaware of

the shuffling. He was also unaware that **11820** was not on in early December and he will check on what happened. **Coro** is trying to get one of the old **50 kw** transmitters converted to **13 m SSB** and put it on the air for **NA** during the evening time period. This may be accomplished by early next year.

HCJB to Europe **2130-2200** was heard December 2 announcing **15270**, **11835** and **9610**, but actual frequencies were **25950**, **21455**, **21480**, **17790** and **15270** kHz. **21455** replaced **25950** at **0030** to **NA**, parallel to **15155** and **9745**. **25950** and **21455** are **USB** outlets, and not announced in any releases noted here.

BFBS, **England**, at **02** is now on **13745**, **9590 (ex-9640)** and **7125**. But there are two **BBC** transmitters here; the dominant signal here is **BBC WS!**

R Pyongyang has changed three of four releases to the Americas: **00**, **11** and **23** **UT**. No changes to other target areas or the **13** **UT** release to here.

R Beijing has added a third hour of English to Europe, this time at **22** via the **USSR** on **7170**. This is part of the exchange agreement detailed by *Media Network* in early December. The half-hour via **Switzerland** at **22** continues in place.

The Voice of Greece at **1840-1848** with news in English now uses **15630 (ex-15625)**, **12105 (new)** and **11645** kHz. At **1230** to **NA**, **17525** replaces **17535** and frequencies were announced. I don't recall **17525** being used by the **VoG** before, and I expected **17525** to continue in service at **1530**. Not so, as I found **17535** still in service at **1530**.

R Bangladesh at 1230 UT announces an incorrect frequency. I can hear 17750 and 15647, the latter announced as 15200. The 19 m signal is very good here and it is the best I have ever heard from this country.

KUSW went off the air at the close of business Saturday, December 15. I noticed **KTBN** on 15590 the following Tuesday.

I finally heard **R Bras** at 12 (ex-02) UT with its IS and snatches of the ID buried under a Russian and suffering from tremendous **HCJB-11740** sideband splatter.

Rika Kobayashi announced on **R Japan's DX Corner** December 17 three segments of English via the new Sri Lanka relay. I missed the data but no doubt it will surface in the following weeks.

Bob German of **WSHB** sent changes for the three **CSM** stations and the news that he is off to a new position as head of the newly-established **SW** engineering department of the **Roman Catholic Eternal World TV Network**, Birmingham, AL. **EWTN** has plans for one site in Birmingham with three transmitters, one site in Rome, Italy, with two transmitters and one site at an undetermined location in the Pacific rim area. The US and Italian sites should be active by 1993, the Pacific by 1994. I spoke with Bob on the telephone, and he really sounds excited by this new opportunity. Good luck, Bob!

Radio For Peace International, Costa Rica, was off the air for a while in mid-December. It seems the ground decided to shake, rattle and roll on December 22. The earthquake damaged offices and studios, and **RFPI** is running on a modified, limited broadcast schedule. Transmitter tests are being conducted. Telephone service was finally restored on the 28th. More earthquakes are expected.

As widely reported on the air, **RCI** survived the initial **CBC** budget cuts and its life has been extended to March 31. The letters and faxes had a significant impact on the decision. The Canadian government is looking for another source of funds to continue **RCI** operations.

Vatican Radio's new schedule shows extensive use of 6248 but you may find the actual frequency to be 6245. Noted since November, I can hear this outlet as early as two hours before sunset, including today with English at 2050.

If there is room in this month's *Journal*, you'll see a 1990 summary of solar flux and A-index numbers. (There are only three days missing in this data.) Major solar flares occurred on December 4, 10, 11, 12, 22, 23, 24 and 26.

BBS Notes

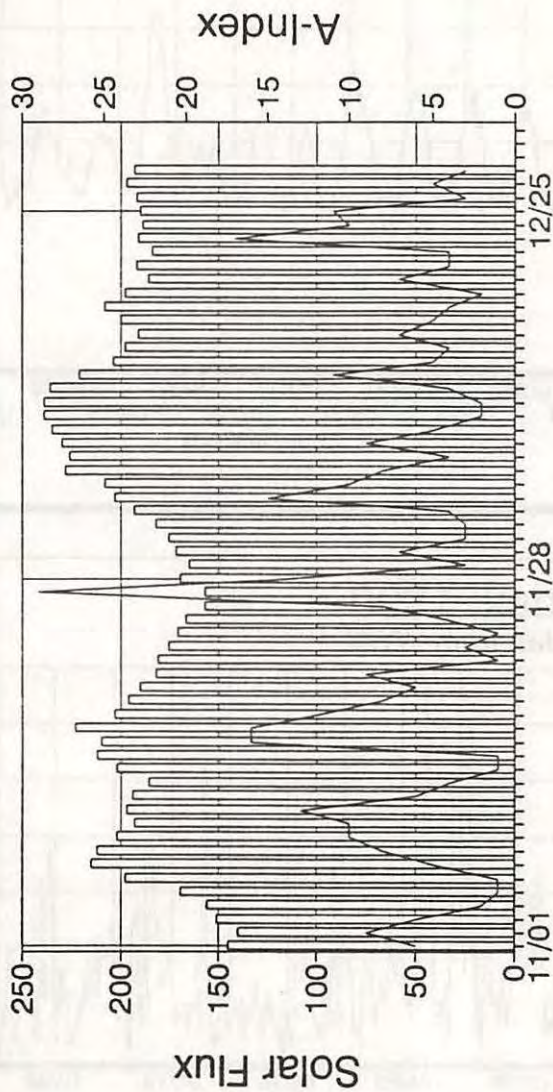
Changes are occurring on the **Pinelands RBBS** and callers can now enjoy the use of off-line mail software. *Silver Xpress* shortens connect time and simplifies participation in multiple FidoNet echoes and the local **SWL** and the newly added **WRTH** conferences. Download *XPRESS.TXT* for more information.

A weekly *Solar Terrestrial Forecast and Review* and same-day *Major Solar Flare Alert* data, now available in electronic form, arrives in my **MCI** Mail account from **InterNet**. I post the mail as text files in the **SWL** directory. The weekly summary is usually available Monday or Tuesday evening. You've heard some of this data from **Glenn Hauser** on **World of Radio** and **SWL Digest**, but now you can get the complete information on a very timely basis.

A updated -- to December 1 -- **VOA** schedule of all languages is now available for download.

Solar Flux & A-Index: Nov-Dec 1990

Recorded from WWV



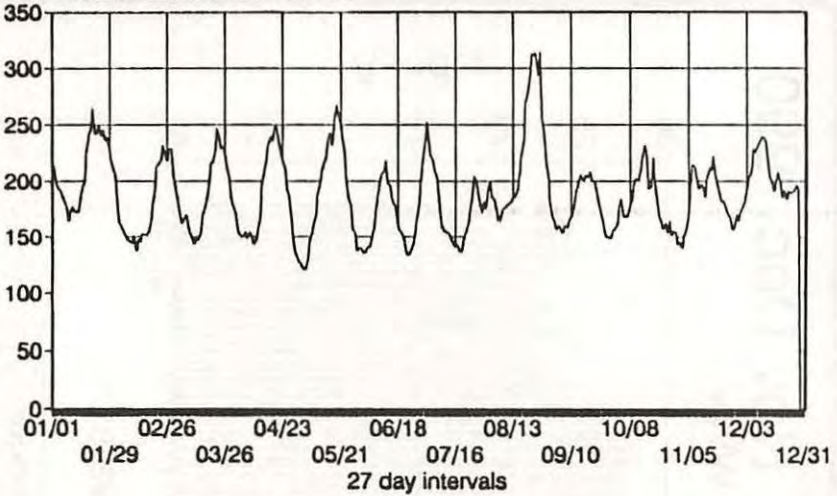
27 day intervals

by Sundstrom

□ Solar Flux — A-Index

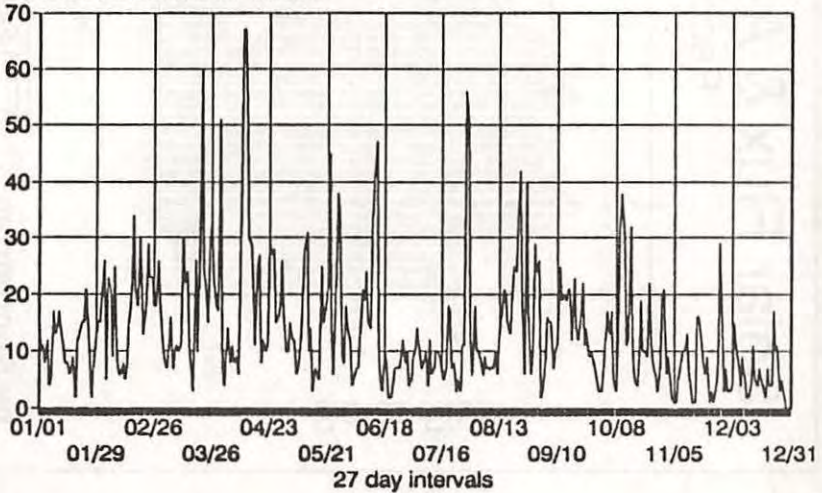
Solar Flux: 1990

Recorded from WWV



A-Index: 1990

Recorded from WWV



Changes entered between 11/26/90 and 12/28/90.

ENGLISH LANGUAGE SU BROADCAST SCHEDULES: By Start Time

Compiled by Thomas R. Sandstrom, UZ3B

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 0200	N Mariana Is	KHBI	17865	17355							Phil/Indon/Papig	34.0/270 deg #1 Sa-Su	12/22/90
0000 0050	North Korea	R Pyongyang	15115	13760	11335						Am		12/02/90
0030 0430	Ecuador	HCJB	21455	15155	9745						MA	#1 US\$	12/02/90
0050 0110	Vatican State	Vatican Radio	9605	6150							MA		12/28/90
0100 0130	Norway	R Norway Int'l	11920	9615							MA/CA	Su & Mo only	12/10/90
0145 0200	Vatican State	Vatican Radio	11750	9650	7125						As/Aus/NZ		12/28/90
0200 0230	England	British Forces BC Serv	13745	9590	7125						HE		12/11/90
0200 0400	N Mariana Is	KHBI	17865	17355							Phil/Indon/Papig	34.0/270 deg Sa-Su	12/22/90
0200 0230	Switzerland	Swiss R Int'l	17750	12035	9885	9650	6135	6125			MA	#1 v Brazil	11/30/90
0200 1600	USA	KTBI	7510								EMA		12/27/90
0400 0500	Bulgaria	R Sofia	15160	11765	11735	9700	7115				AF/NA		12/08/90
0400 0600	N Mariana Is	KHBI	17780	17355							China/Phil	34.0/270 deg #2 Sa-Su	12/22/90
0600 1400	Italy	Italian Radio Relay Serv	9815								Eu	R-F	12/21/90
0600 0800	N Mariana Is	KHBI	17780	17355							China/Phil	310/270 deg	12/28/90
0600 0620	Vatican State	Vatican Radio	6248	6185							Eu		12/08/90
0750 0800	Bulgaria	Italian Radio Relay Serv	17825	15160	11765						U Eu		12/22/90
0800 1100	Italy	Italian Radio Relay Serv	9815								Eu	Sa	12/21/90
0800 1000	N Mariana Is	KHBI	17555	9530							Aus/NZ/Japan	165/340 deg	12/22/90
0828 0835	Netherlands	R Nederland	15560								Aus	R-Sa	12/06/90
0930 1030	Afghanistan	R Afghanistan	17720	15350	9635	4940					SASE As/NE	#1&2 v USSR	12/06/90
1000 1200	USA	USCB	13595								Eu	60 deg Sa-Su	12/22/90
1100 1300	Iraq	V of Peace/Baghdad	11860								NE	targeted at troops	11/24/90
1100 1150	North Korea	R Pyongyang	11335	9977	6576						Am		12/02/90
1200 1250	Brazil	R Bras	11745								MA/CA		12/23/90
1200 1400	N Mariana Is	KHBI	13625	9475							SE As/Aus/Papig	285/195 deg	12/22/90
1200 1400	USA	USCB	21780								Eu	45 deg Sa-Su	12/22/90
1200 1400	USA	USNB	13760	9495							CA/EHA	182/25 deg	12/22/90
1200 1225	USSR	R Traskkent	15470	11660	9540	9600	7325				As		12/15/90
1200 1215	Vatican State	Vatican Radio	21515	17865							As/Aus/NZ	R-F	12/28/90
1220 1300	Bangladesh	R Bangladesh	17750	15647							Eu	ann 15200	12/27/90
1230 1300	Sweden	R Sweden	21570	17740	9765						As/Pac		12/21/90

1235	1248	Greece	V of Greece	17525	15650	15625	MA/Sweden	News/Eng	12/22/90
1300	1330	Norway	R Norway Int'l	11860	9590		Eu	Sa & Su only	12/15/90
1330	1400	United Arab Emirates	R Dubai	21675	21605	15435	Eu/W Af		11/25/90
1350	1355	USSR	R Tashkent	15470	11860	9540	As	25/173/245/315 deg	12/15/90
1445	1500	Vatican State	WSHB	15610	13760		EMA/Carib/WK/NA		12/22/90
1500	1550	Fed Rep Germany	Vatican Radio	11740	9645	6248	Eu		12/28/90
1530	1630	Bulgaria	R Deutsche Welle	21600	17765	13610	SGBE Afr		12/08/90
1530	1538	Greece	R Sofia	15370	11840	11735	Afr	News/Eng ex Su	12/07/90
1550	1600	Sweden	V of Greece	17535	15650	11645	MA/Sweden		12/21/90
1600	1800	Mariana Is	R Sweden	21500	17875		MA	310/165 deg	12/22/90
1600	1630	Norway	R Norway Int'l	13625	11580		India/SE As	Sa & Su only	12/16/90
1600	2000	USA	KHBI	21750	15230		HE/Af		12/23/90
1700	1900	Iraq	KTBB	15590			MK/NA/EMA/Carib	245/315/25/173]Sa-Su	12/22/90
1800	1830	Sweden	V of Peace/Bahgdad	17555	15610		HE	targeted at troops	11/24/90
1800	2000	USA	R Pakistan	11570	9775		M Eu		12/22/90
1815	1900	Bangladesh	R Bangladesh	12030	9575		Pacific	Su-Fr	12/17/90
1830	1930	Bulgaria	R New Zealand	15130			Eu/W/NE		12/21/90
1840	1848	Greece	R New Zealand Int'l	15270	9655	6065	EMA/EU		12/22/90
1845	1945	India	R Sweden	21780			Eu/NE	25 deg]H-F	12/22/90
1900	2000	Ecuador	WSHB	15370	11840	11735	Afr		12/08/90
1930	1945	Czechoslovakia	R Prague Int'l	15625	12105	11645	CS Afr	News/Eng ex Su	12/08/90
2000	2200	USA	KHLS	25950	21480	21455	Eu	#1&3 USB	12/15/90
2005	2105	Syria	WSHB	9605	7345	6055	Eu	#1&3]Su - 1957 W/#1-4	12/28/90
2030	2125	Netherlands	R Damascus	17555	9465		As		12/21/90
2050	2110	Vatican State	R Medarland	12085	9950		CA/SA/EMA/Carib	152/25/173 deg	12/22/90
2100	2300	Iraq	Vatican Radio	13700	11660	9895	Eu/NA		12/23/90
2110	2210	Syria	V of Peace/Bahgdad	7250	6248		M Afr		12/06/90
2130	2200	Ecuador	R Damascus	11850			Eu		12/28/90
2200	2300	China	R Beijing	12085	9950		HE	targeted at troops	11/24/90
2200	2400	Mariana Is	KHBI	25950	21480	21455	MA/Aus/NZ		12/23/90
2200	2300	Taiwan	V of Free China	17170	3985		Eu	#1&3 USB	12/02/90
2200	2300	United Arab Emirates	R Pyongyang	15340	13625		Eu	#1 USSR #2 Swiz-2230	12/13/90
2300	2350	North Korea	V of UAE	11915	9832		China/Jap/Phil/Indon	310/240 deg	12/22/90
2300	2400	United Arab Emirates	V of UAE	15100	9600	6170	Eu	v WFR	12/22/90
2335	2345	Greece	V of Greece	13650	11335		WNA/NA		11/25/90
				13605	9600	6170	Am		12/02/90
				12105	11645	9425	SA/CA	News/Eng	12/08/90

Changes entered between 11/24/90 and 12/28/90.

ENGLISH LANGUAGE DX STATIONS: By Day of Week
Compiled by Thomas R. Sundstrom, W2QQ

Shortwave DX Program	Show Name	Start Time	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Target Area	Notes re DX Show	Record Last Updated
** DAY OF THE WEEK: Sunday														
DXers Unlimited	0140 0000	Cuba	R Havana	11820	9505							Americas		12/15/90
DXers Unlimited	0340 0200	Cuba	R Havana	11820	9505							Americas		12/15/90
DXers Unlimited	0540 0400	Cuba	R Havana	11820	11760	9750	9505					Americas		12/15/90
DXers Unlimited	0740 0600	Cuba	R Havana	11835								Americas		12/15/90
** DAY OF THE WEEK: Wednesday														
DXers Unlimited	0140 0000	Cuba	R Havana	11820	9505							Americas		12/18/90
DXers Unlimited	0340 0200	Cuba	R Havana	11820	9505							Americas		12/18/90
DXers Unlimited	0540 0400	Cuba	R Havana	11820	11760	9750	9505					Americas		12/18/90
DXers Unlimited	0740 0600	Cuba	R Havana	11835								Americas		12/18/90
** DAY OF THE WEEK: Friday														
World of Radio	2215 1300	USA	WCR	15690										12/02/90
** DAY OF THE WEEK: Saturday														
DXers Unlimited	2215 2200	Cuba	R Havana	7215								Eu		12/01/90

THE 1991 NORTH AMERICAN DX CHAMPIONSHIPS (NADXC)
SPONSORED BY NUMERO UNO AND FINE TUNING

ELIGIBILITY

The 1991 DX Championships is open to all listeners residing in North America [as defined by the country list of the North American Shortwave Association (NASWA)]. Members of the NADXC Administrative Committee and the judges are excluded from participation.

LISTENING PERIOD, FREQUENCIES, AND TIMES

The contest period will run from 0001 UTC 15 February to 2359 UTC 17 February 1991. Loggings outside this time period will not be considered. All loggings must be made between 2.000 MHz and 30 MHz. Loggings outside of this range will be eliminated by the judges. This year there is also a tube radio class and separate prizes and trophies will be awarded for all tube reception.

PRIZES

Trophies will be awarded to the top three finishers. All entrants will receive a certificate of participation in the 1991 NADXC with their place of finish indicated on the certificate. First place in both classes will receive a certificate redeemable for a book of their choice, up to \$20 value, from Universal Shortwave Radio.

SCORING

Contestants are to log as many stations as possible from as many countries as possible. The first station logged from each country = 1 point. The second station from each country = 3 points; each additional station from that country = 5 points. For contest purposes, all clandestine stations and hobby pirate transmissions will be considered one "country." A station is a shortwave broadcaster whose transmissions are intended for reception by the general public. Each transmitter site of a broadcasting organization will count as a separate station. Different services of the same broadcast organization do not count as separate stations. Transmissions of a single broadcast organization on various frequencies may only be counted once. The use of multiple frequencies does not create as many new stations as frequencies used. For country counting and station counting purposes, the country list of the North American Shortwave Association (45 Wildflower Road, Levittown, PA 19057) will be the sole criterion. Utility stations may not be counted for this contest.

Participants are required to submit a running log to include country, station, frequency, time, date, SINPO, and the basis of station identification (i.e., spoken ID, interval signal, language, program, known/frequency checked, etc.).

Each contestant is required to total his own entry and provide a summary of the number of countries and stations claimed to support the point totals (a sample log sheet may be obtained for a SASE from the address below). Logs will be judged on accuracy, completeness and neatness. If the judges cannot read a log, that log will not be counted for scoring purposes. The decision of the judges is final.

FEEs

An administrative fee of \$3.00 plus a business-size SASE must be provided with contest entry. All entries must be postmarked by 1 March 1991 and sent to:

Dr. Harold Cones
2 Whits Court
Newport News, VA 23606 USA

Results of the contest should be available in May and will be sent to each participant and all ANARC member clubs for publication.

Good luck from the 1991 NADXC Administrative Committee - Harold Cones, John Fisher, and Rich D'Angelo.

4th Annual Winter SWL Festival

March 22-24, 1991

Holiday Inn

Sumneytown Pike

Kulpsville, Pennsylvania

The Winter SWL Festival has become a tradition and this year's Fest promises to be as memorable as years past. The Fest is a good excuse for those folks with a common interest in the Shortwave Listening hobby to gather for a weekend of socializing and meeting other SWLs. Forums and roundtable discussions will be held on Saturday for those wishing to learn more about SWLing or to exchange tips and techniques. Door prizes, station freebies, displays, a silent auction, and a banquet round out the weekend events.

Forum Topics -

Beginners Forum	New Trends In Propagation Theory
Latin American DXing	Beverage Antennas
Antique Radios - Collecting, Restoring, Enjoying	Facsimile
The Pirates Plank	Active Antennas
DXing Helps	Promoting SWLing
Taking An Active Role In Club Publications	SWL Award Programs
Those Mysterious Numbers Stations	Computers & SWLing

Registration Options -

- FULL - Includes forums, hospitality room, lunch and banquet - \$32
- PARTIAL - Includes forums and hospitality room but NO meals - \$15
- SPOUSE - Includes hospitality room and meals - \$17

This years **GRAND PRIZE** will be a **KENWOOD R5000 Receiver!** Your registration gives you 1 **FREE** entry towards this great receiver. Additional tickets are \$1 each or 6 for \$5 and are available by mail or at the Fest. If you buy your raffle tickets with your registration, we'll give you 13 for \$10! The deadline for this registration offer is March 15, 1991. Only WinterFest attendees are eligible for prizes and the Fest organizing committee are NOT eligible for the **GRAND PRIZE** - sorry Doc.

**** Special **** Register early and win a Sangean MS-101 SW portable! Your registration received by midnight March 1, 1991 will allow you one **FREE** entry towards this early bird registration door prize. Thanks to Universal Shortwave for this prize!

Checks should be made payable to **WINTER SWL FEST**. Registration for hotel rooms should be made directly to the Holiday Inn at (215) 368-3800 - As soon as possible! Special rates - \$59 single, \$64 double. Our function code with the hotel is **WINTER SWL FEST**. Please refer to this to get the special room rates. Listen to the **ANARC SWL NET** on 7.240 LSB at 10 AM Sundays for up to the minute info.

The Holiday Inn is located at **EXIT 31** of the PA Turnpike NorthEast Extension -Lansdale Interchange. Limo service is available from Phila. Intl. Airport directly to the Holiday Inn.

Please submit the following form with your registration amount or send for more information to:

Winter SWL Festival
PO BOX 591
Colmar, PA 18915

Name _____

Address _____

City _____ State ____ Zip _____ Phone _____

Circle: FULL PARTIAL SPOUSE (Spouse name: _____)

Banquet - Check : Roast Beef ___ Chicken ___ Registration Fee Enclosed: \$ _____

I wish to purchase _____ raffle tickets Tickets Fee Enclosed: \$ _____
(\$1 ea. / 6 for \$5 / Special 13 for \$10)

Total check/money order enclosed \$ _____

Publisher's Page

Bill Oliver
45 Wildflower Road
Levittown, PA 19057



NO COLLECT CALLS ON THESE ADS, PLEASE

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