

NASWA

The
Journal
of the
North
American
Shortwave
Association

Volume XXXI, Number 1
January, 1991

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- ARQ-M4 Moore Time Division Multiplex
Four Channel 172, 192, 200 baud.
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NASWA Notes

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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 a 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 abbre-

viations 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 Olivers' 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	Edward N. Johnson, Tallahassee, FL
Dick Austin, North Middletown, NJ	Paul C. Kaiser, Denver, CO
Daniel Burstow, New Britain, CT	Bob King, Duluth, MN
Steve W. Batson, Institute, WV	Harlan R. Knowles, Mtn. Home, ID
Paul Beebe, Burlington, VT	Philip J. Krueger, Van Nuys, CA
Mark D. Binder, Devault, PA	Harry Long, Harlan, IN
Paul Blumstein, Palos Verdes, CA	Richard J. Marton, Curwensville, PA
Brian Boulden, Fairfield, CA	Thomas W. May, Plano, TX
Michael Breskiewicz, Elysburg, PA	Hugh A. McGibboney, Grand Prairie, TX
Joe Buch - N2JB, Virginia Beach, VA	Terry L. Murchison, Sacramento, CA
Bill Burkhardt, Pueblo, CO	Frank Neal, Jr., Buffalo, NY
Larry Shawn Cagle, Cape Girardeau, MO	Darrell Neft, Costa Mesa, CA
Billy Curtwright, Charleston, SC	Walt Novinger, Pacifica, CA
Bob & Pat Chukinas, South Bend, IN	Andrew R. Nowak, Malden, MA
Stephen D. Churchill, Spokane, WA	Mike Opalka, Gridwood, AK
B.A. Cords, Sparks, NV	George Pulju, Menahga, MN
Matthew Mark Drew, Des Moines, IA	Joseph P. Richardson, Delmar, NY
Ken Dukes, Portland, OR	Tom Roddy, Bakersfield, CA
A. N. Durden, Albany, GA	Alan Roe, St. Albans, ENGLAND
David Edger, Fairfax, VA	Paul Roscoe, Bangor, ME
Henry Erlenwein, Staten Island, NY	Keith Semerod, Pottsville, PA
Michael Fanderys, Parma, OH	Jose Da Silva, Bristol, RI
Michael Ferro, Greenlawn, NY	Robert Starling, The Rock, GA
Stanley G. French, Round Pond, ME	Duncan Steele, Norridgewock, ME
Matthew R. Gallagher, Chicago, IL	Lucien Tassy, Miami, FL
Paul Graveline, Andover, MA	Murlidhar Tekchandani, Houston, TX
Piotr L. Grojec, Kensington, MD	A. Roger Uhlitz, Boca Raton, FL
Martins Gulbis, Santa Clara, CA	George Van Loon, Warren, MI
Joseph Gurinsky, Miami, FL	Jim Ward, Kissimmee, FL
Robert D. Haas, Medina, OH	Jon L. Williams, Indianapolis, IN
James V. Hopkins, Kansas City, KS	William F. Wolfreys, Dorchester, MA
Richard R. Hovish, Phoenix, AZ	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.

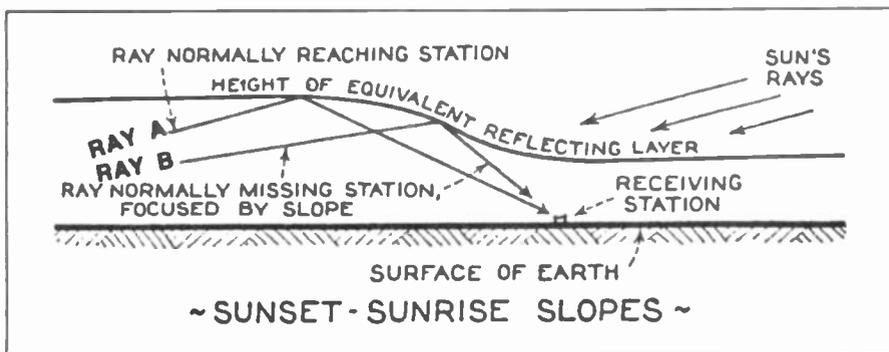


FIGURE 1. SUNRISE OR SUNSET ENHANCEMENT (As published in *Radio News*, Feb. 1930)

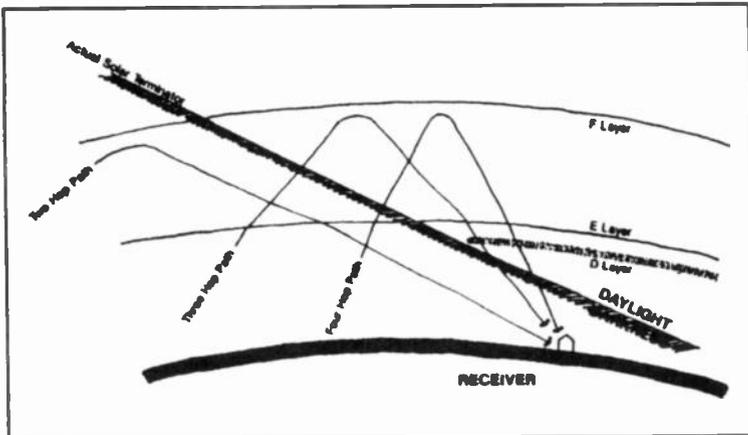


FIGURE 2. QUESTIONABLE MODEL OF DAWN ENHANCEMENT as published in *fine tuning's Proceedings 1990*. Were this model true, the authors believe that we would notice massive transitional fading and distortion during dawn enhancement.

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 travelling 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

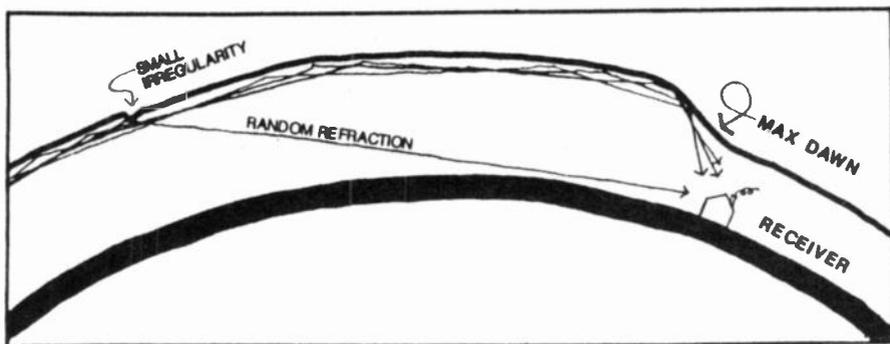


FIGURE 3. PROBABLE MODEL OF DAWN ENHANCEMENT. Note: the rate of curvature of the earth is doubled here to better illustrate the refractive pattern.

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

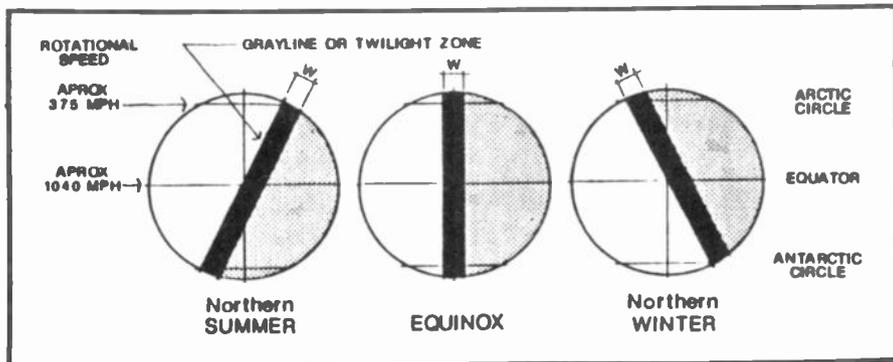
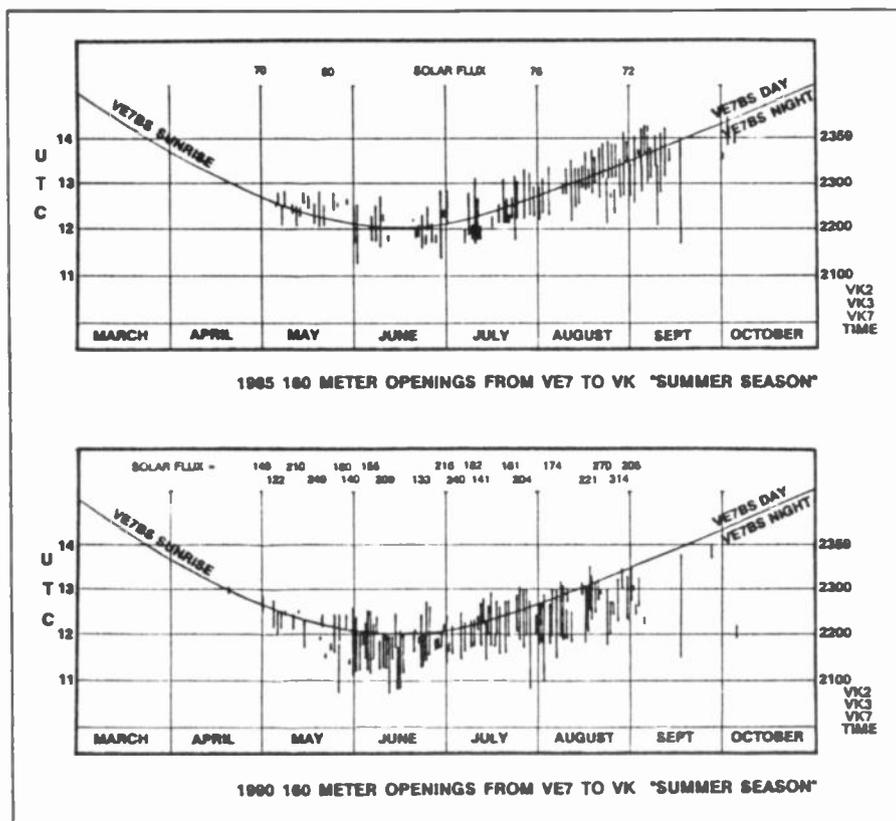


FIGURE 4. THE GRAYLINE OR TWILIGHT ZONE. Note that the absolute width of the grayline (W) remains the same at all locations and seasons.

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 COLUMBIA 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 Perkview 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

Mich 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 it's 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
20108 Hayes Road
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 descendants 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 "ruralization" 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.

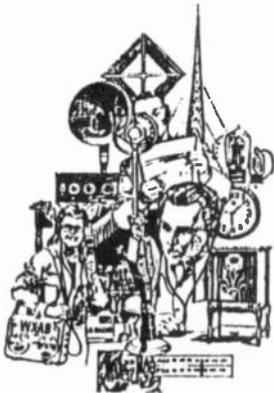
Radio Agricultura

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 name 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 it as 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, HOLD ON TO YOUR SOCKS! Destinations Mitch Sams and fellow Indolinter 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, 60646-1975, 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 supplier 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 tempermental 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).

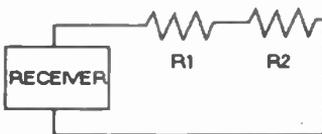


Figure 2 - Series Connected Speakers

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 re-write 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. Wootten
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 NASWAs' 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 NASWAs 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
Wyomissing, 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 *Frenx* (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 edition 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 seasonal 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, VLC15 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 preeminent 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 Messrs. 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 0EB. 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) 15600-15900	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

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 1775 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, 48 630 040, 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, Blagoveshchensk 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 airtel 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 17720, 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 Kudymsk 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 Kudymsk, 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/7470 (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, 1500⁰ 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 Democrática. 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*

PLEASE NOTE: Your editor is requesting any help or information for properly installing and hooking up a Datong PL-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. (Foland). 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. (Foland-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. (Foland-MI).



ADDRESSES NEEDED: Addresses/maildrops for the following stations are needed: Radio USA, WLAR, WHBH, Garbanco 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 "Meteora Monasteries" cd. w/ schedule in 3 mo. (Barto-CT). 11645, 9865 and 9420 p/d "Parga" cd. in 3 mo. w/ schedule. (Barto-CT). (Tucci-MA).

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 WEE WEN D MUSEE RADIO Scotland's World Service QSL

WMR confirmation of reception

Date 26/12/89
Time 0420UTC
Freq 6310.0KHz
Power 100Watts

42 away close cambudge england

RADIO ESPARA INDEPENDENTE

24 de Junio de 1971
We acknowledge with thanks receipt of
your Otr. of 10 de Abril de 1971
on 14 448 v/s 21
on 16 10 v/s 23 10 OMI
We hope that you will continue to receive
and enjoy our programs

RADIO ESPARA INDEPENDENTE
UNICA ESTACION EUROPEA DE
LONDRES DE FRANCIA

Sr.
G. M. Derling
80. Seafon Gardens
Ruislip Manor
Middlesex. ---
Inglaterra

VERIFICATION SIGNERS/ADDRESSES: Radio 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 WOCR, 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 Beliachine, 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).

KIRZHIC: 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. (Paszkiewicz-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. (Foland). 9695 p/d cd. in 37 ds. w/ pennant. (MacHarg).

NIGERIA: FRNC 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).



GRANDES ONDES
1764 m.

هنا نواكشوط لاسي 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 Elli-

son, 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: PEBC 15490 f/d cd. in 81 ds. (Lane-IL).

POLAND: Radio Polonia 7270 f/d cd. w/ schedule and a personal **WDA**

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 "Trans-

mitter 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

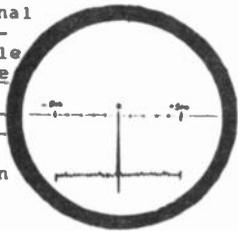
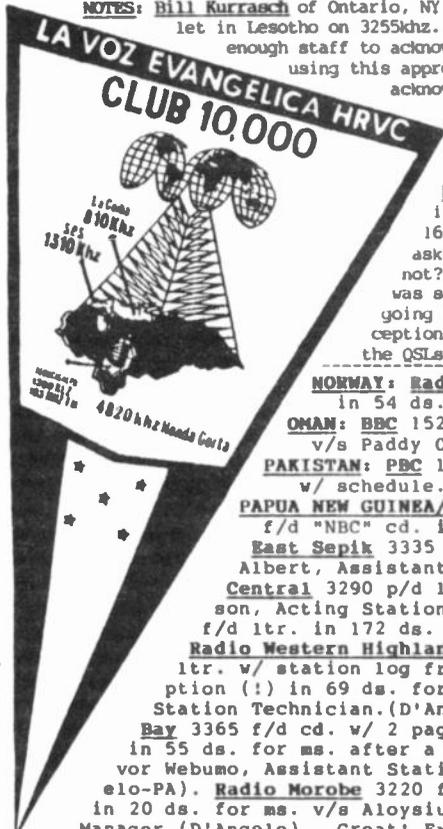
schedule. (Tucci-MA).

same w/ pennant in

40 ds. for 18

reports. (Kur-

rasch-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 ENSL Championships in March...Sam.



SPAIN: Radio Liberty 7220 via País 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 Vinnitsa 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: WYPR 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. Giles. (Lare-MI). WCSN 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

WYPR f/d cd. w/ sticker in 22 ds. (Levison-PA).

5960 f/d cd. in 18 ds. w/ newspaper and sticker. (Levison). 5950 f/d cd. in 16 ds. w/ sticker. (Levison). WHRI 9465

f/d cd. in 2 mo. w/ sticker and station info. (Humeny-ONT).

WNCR 7520 f/d cd. w/ schedule in 29 ds. for ms. (Craig-TX).

Dear Sir,
 Thank you for your reception report.
 RADIO LIBERTY on our 50th
 100th anniversary is confirmed.
 WERE YOU YA MEMO?
 Aerial & Wave Picked Dipole.
 Yours faithfully,
 DIRECTOR OF ENGINEERING.
 TANGANYIKA BROADCASTING CORPORATION
 P.O. Box 999
 DAR ES SALAAM TANGANYIKA

TANGANYIKA
 01-25

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

WE THANK YOU FOR YOUR RECEPTION REPORT AND ARE PLEASED TO CONFIRM THAT YOU HAVE HEARD OUR STATION ON 11/12/89 AT 2301-2100 GMT ON 15765 kHz 2300-2300

Sincerely yours,
Ríkisútvarpið
 RÍKISÚTVARPIÐ
 ÚTANGANGS RÁÐGAFINGARSTOFU
 SPITÁLAGATÍ 1, IS-101 REYKJAVÍK, ÍSLAND

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



USA: Radio New York International 7520 via **WVCR** 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 ~~80%~~ (Taylor). Unbelievable! I just type this stuff. I don't send it in...Sam.
Radio KXP 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 rcv'd. a personal ltr. and station info. sheet. (Taylor-PA). **WORK**

7415 f/d cd. in 32 ds.

for ms. Also rcv'd. 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 (D'Angelo).

15180 cd. in 25 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).

UZBKK: 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. Shodair 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).



KCIV FM 100 MHz
 YOUR CHRISTIAN INFORMATION VOICE

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
Pete GRENIER, Sparks, NV
Mike HARDESTER, Camp Lejeune, NC
Joe HOWELL, Escondido, CA
Vernon HYSON, Charlotte, NC
Hans JOHNSON, Columbia, MD
Jerry JOHNSTON, Lexington, KY
Rufus JORDAN, Pittsburgh, PA
Jerry KLINCK, West Seneca, NY
Bill KURRASCH, Ontario, NY
Harold LEVISON, Philadelphia, PA
John LYON, White Bear Lake, MN
David MORBY, Clifton Park, NY
Sheryl PASKIEWICZ, Manitowoc, WI
Martin PECK, New York, NY
John PRATH, Ft. Lauderdale, FL
Stephen PRICE, Cohemaugh, PA
Ronald PURDUE, Byron, MN
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 ionispheric 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, VLBA, 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 LESSER 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, poes. 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/warblly 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, tlk 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 PT w/lcl mx pgm, IDs. (Klinck-NY)
- 3345 NEW GUINEA, R. Northern, 11/14, 1139-1205 fade, PD tlk by YL, vocals, 1D 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, tlk, 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, tlk, ID, marimbas, //4835. (Prath-FL) 11/28, 0250 SP, tlk, 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, tlk by W, both this & 3365 good to 1250 UTC. (Clark-ON)
- 3377.5 JAPAN, NHK Osaka, 11/18, 1155 weak w/tlk 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 tlk, 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 xmtr. (Clark-ON)
- 3473y BOLIVIA, R. Padilla, 11/18-19, 2320 EZ vcls, ID 2333 over guitars/flutes, tlk 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, tlk abt Christmas. (Grenier-NV) Welcome to the column--sp. 11/17, 0940, JP w/happy tlk, jazz violin, live pgm, mx 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 tlk, 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 tlk in Tibetan, 1215 OM tlk, quite good //4750. (Clark-ON)
- 4050 KIRGHIZ SSR, R. Frunze, 11/18, 0154-0220 RS, piano mx, tlk, fade out. No //s found. (Alexander-PA)
- 4119.5 CLANDESTINE, Vo Natl Salvation, 11/21, 1145-1208 in lang, tlk, mx //3479.9, 4449.9, 4557, fair. (Brown-PA)
- 4485 ASIATIC RSFSR, P'etropavlovsk, 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 Pangoong, 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/tlk, 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, nx, good reception from China today (D'Angelo) 12/2, 1207-1220 pres. //7109.8. WRTH 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 vcsl, mixing w/Kunming. Dec. Listener's Notebook ment Leh is back here from 3330 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 Garas, 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, Rdf. Amazonas, 11/7, 0145-0202° solid vcsl, 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, lcl 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. (Kenfrew-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,
QTH 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. (Frajter/Peck/Bianco-NY)

4835 SARAWAK, RTM 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, promoe. (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 kw 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/lcl 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 lcl 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 amnt. Weaker //5025. (Clark-ON)
- 4910 ZAMBIA, ZNBC, 11/26, 11/28, 0245 Fish Eagle IS to EG amnts, 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 //73231.8 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 1. EG, good. (Lyon-MN) 11/21, tent, 2259-2303* w/anthem, L3 amnts, 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/QRM 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 amnts, 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 RPTY. (Yamada)
- 4997.1p SULAWESI, RRI Gorontalo, 11/15, finally located here at I255 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/on, 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. Radiofonicas 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 glk, 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 IT 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-RA)
- 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

5901-30000 kHz

Wallace C. Treibel
357 N.E. 149th Street
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 - AMR in SP 0205, relig mx, TC's, ID, g (Renfrew NY 11/16) ez1
mx, ID, 0222 (Johnston KY 11/15) in SP 1210, relig mx, tlk (Klinck NY 11/22)
6000 BRAZIL R Guaba in PT 0650, lite instrum mx, pops, pipe, 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 Tanpa Tokyo in JP 1103, piano mx, tlk, ID, //9595 (D'Angelo PA 11/12)
6055nf7 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, pipe, 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 CK2N 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 Puzhou in CH 1200, pipe, //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 VoMeteorology 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 AMR 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 RIM 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 RVMT 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 (Carson OK 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 skad, "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/ORM from RHC (Carson OK 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, fqys & 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, "Newslines", heavy ORM (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 & fqys in EG, into JP 1400 (Clark ONT 11/25)
 9670 ANTIQUA 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, fqys, 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 DK 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, cmntry, 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 JYV 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 Makedonias 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, ORM/loud hat (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)
 11860mf IRAC 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, NA?, ID, sked but no fqys (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 anncr w/futbol game (Prath FL 11/24)
 11930 AUSTRALIA RA in EG 0855, native Outback mx, ID, anncmts (Klinck NY 11/25)
 11955 SWITZERLAND SRI in EG 1854, "Dateline", tlk on watchmaking (Prath FL 11/23)
 1205mf 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, cmtry on Persian Gulf, g (Levison PA 11/2)
 15110 SPAIN REE in SP 2252-2335*, national/world/regional nx, cmtry, f (Jordan 11/24)
 15115 NO. KOREA R Pyongyang in EG 0016, mx, 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 xmen 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, "DK 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, akeds, 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 Farsi?, 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 (Paszkiwicz 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 (Paszkiwicz 11/3)
 150497 Radio USA in EG 2151, IS, ID, punk mx, fake ads, //7395 (Paszkiwicz WI 11/3)

 HAPPY NEW YEAR AND BEST REGARDS

English Schedules

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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

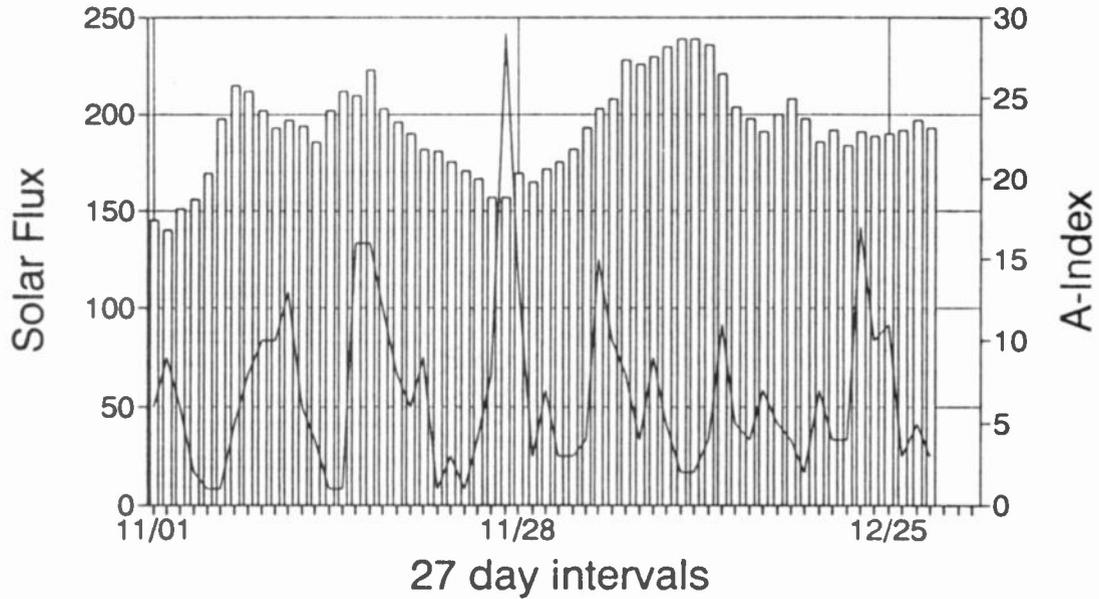
Changes are occurring on the Pinelands RBBS and callers can now enjoy the use of off-line mail software. *Silver Xpress* shortens connect time and simplifies participation in multiple FidoNet echoes and the local SWL and the newly added WRTH conferences. Download *XPRESS.TXT* for more information.

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.

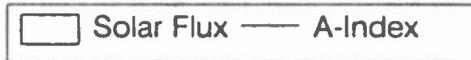
A updated -- to December 1 -- VOA schedule of all languages is now available for download.

Solar Flux & A-Index: Nov-Dec 1990

Recorded from WWV

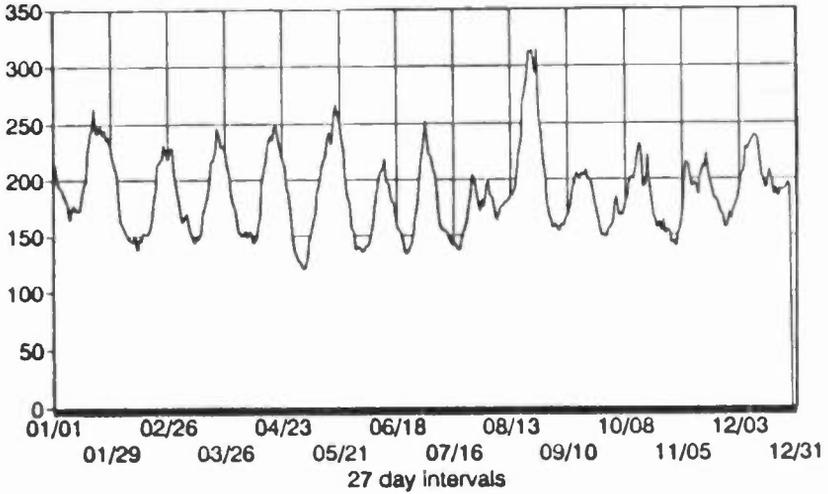


by Sundstrom



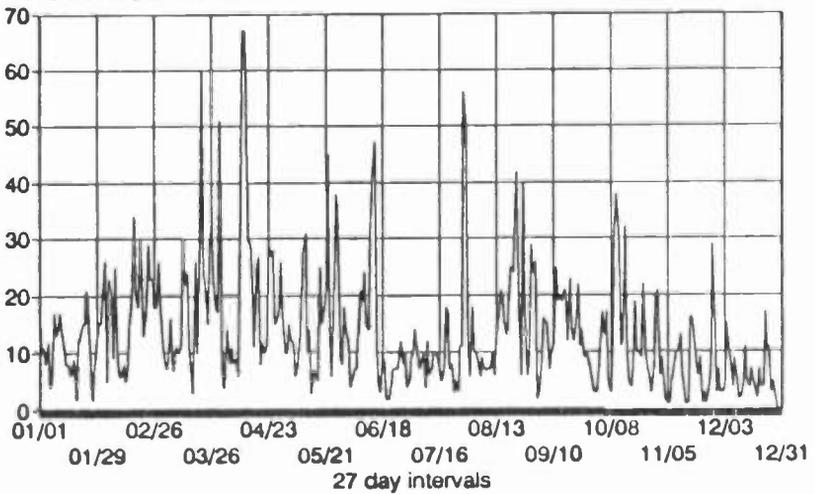
Solar Flux: 1990

Recorded from WWV



A-Index: 1990

Recorded from WWV



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

ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstrom, W2RH

Start Time (UTC)	End Time (UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000	0200	# Mariana Is	KHBI	17865	17555							Phil/Indon/PapNG	340/270 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						NA	#1 USB	12/02/90
0050	0110	Vatican State	Vatican Radio	9605	6150							NA		12/28/90
0100	0130	Norway	R Norway Int'l	11920	9615							NA/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						ME		12/11/90
0200	0400	# Mariana Is	KHBI	17865	17555							Phil/Indon/PapNG	340/270 deg Sa-Su	12/22/90
0206	0230	Switzerland	Swiss R Int'l	17730	12035	9885	9650	6135	6125			NA	#1 v Brazil	11/30/90
0200	1600	USA	KTBH	7510								ENA		12/27/90
0400	0500	Bulgaria	R Sofia	15160	11765	11735	9700	7115				Af/NA		12/08/90
0400	0600	# Mariana Is	KHBI	17780	17555							China/Phil	340/270 deg #2 Sa-Su	12/22/90
0600	1400	Italy	Italian Radio Relay Serv	9815								Eu	M-F	12/21/90
0600	0800	# Mariana Is	KHBI	17780	17555							China/Phil	310/270 deg	12/22/90
0600	0620	Vatican State	Vatican Radio	6248	6185							Eu		12/28/90
0730	0800	Bulgaria	R Sofia	17825	15160	11765						W Eu		12/08/90
0800	1100	Italy	Italian Radio Relay Serv	9815								Eu	Sa	12/21/90
0800	1000	# Mariana Is	KHBI	17555	9530							Aus/NZ/Japan	165/340 deg	12/22/90
0828	0855	Netherlands	R Norderland	15560								Aus	M-Sa	12/06/90
0930	1030	Afghanistan	R Afghanistan	17720	15350	9635	6940					SESE As/NE	#1&2 v USSR	12/08/90
1000	1200	USA	WCSH	13595								Eu	60 deg Sa-Su	12/22/90
1100	1300	Iraq	V of Peace/Baghdad	11860								ME	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								NA/CA		12/23/90
1200	1400	# Mariana Is	KHBI	13625	9475							SE As/Aus/PapNG	285/195 deg	12/22/90
1200	1400	USA	WCSH	21780								Eu	45 deg Sa-Su	12/22/90
1200	1400	USA	USNB	13760	9495							CA/ENA	182/25 deg	12/22/90
1200	1225	USSR	R Tashkent	15470	11860	9540	9600	7325				As		12/15/90
1200	1215	Vatican State	Vatican Radio	21515	17865							As/Aus/NZ	M-F	12/28/90
1230	1300	Bangladesh	R Bangladesh	17750	15647							Eu	err 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	NA/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 15320	Eu/W Afr		11/25/90
1330	1355	USSR	R Tashkent	15470	11860	9540 9600 7325	As		12/15/90
1400	1600	USA	USMB	15610	13760		ENA/Carib/Mx/NA	25/173/245/315 deg	12/22/90
1445	1500	Vatican State	Vatican Radio	11740	9645	6248	Eu		12/28/90
1500	1550	Fed Rep Germany	R Deutsche Welle	21600	17765	13610 11565 9760 9735	S&C&E Afr		12/28/90
1530	1630	Bulgaria	R Sofia	15370	11840	11735	Afr		12/08/90
1530	1538	Greece	V of Greece	17535	15650	11645	NA/Sweden	News/Eng ex Su	12/07/90
1530	1600	Sweden	R Sweden	21500	17875		NA		12/21/90
1600	1800	Il Mariana Is	KNBI	13625	11580		India/SE As	310/165 deg	12/22/90
1600	1630	Norway	R Norway Int'l	21730	15230		ME/Af	Sa & Su only	12/16/90
1600	0200	USA	KTBN	15590			ENA		12/23/90
1600	2000	USA	USMB	17555	15610		Mx/NA/ENA/Carib	245/315/25/173 Sa-Su	12/22/90
1700	1900	Iraq	V of Peace/Baghdad	11860			ME	targeted at troops	11/24/90
1700	1800	Pakistan	R Pakistan	11570	9775		W Eu		12/22/90
1800	2111	New Zealand	R New Zealand Int'l	15130			Pacific	Su-fr	12/17/90
1800	1830	Sweden	R Sweden	15270	9655	6065	Eu/Af/ME		12/21/90
1800	2000	USA	USMB	21780			ENA/Eu	25 deg H-F	12/22/90
1815	1900	Bangladesh	R Bangladesh	12030	9575		Eu/ME		12/22/90
1830	1930	Bulgaria	R Sofia	15370	11840	11735	Afr		12/08/90
1840	1848	Greece	V of Greece	15625	12105	11645	C&S Afr	News/Eng ex Su	12/08/90
1845	1945	India	AIR	11860	11620	9950 9665 7412	GOS/USM Af/W Eu		11/25/90
1900	2000	Ecuador	NCJB	25950	21480	21455 17790 15270	Eu	#1&3 USB	12/15/90
1930	1945	Czechoslovakia	R Prague Int'l	9605	7345	6055 5930	Eu	#1&3 Su -1957 u/#1-4	12/28/90
2000	2100	USA	KRLS	11880			As		12/21/90
2000	2200	USA	USMB	17555	9645		CA/SA/ENA/Carib	152/25/173 deg	12/22/90
2005	2105	Syria	R Damascus	12085	9950		Eu/NA		12/23/90
2030	2125	Netherlands	R Nederland	13700	11660	9895	W Afr		12/06/90
2050	2110	Vatican State	Vatican Radio	7250	6248		Eu		12/28/90
2100	2300	Iraq	V of Peace/Baghdad	11860			ME	targeted at troops	11/24/90
2110	2210	Syria	R Damascus	12085	9950		NA/Aus/WZ		12/23/90
2130	2200	Ecuador	NCJB	25950	21480	21455 17790 15270	Eu	#1&3 USB	12/02/90
2200	2300	China	R Beijing	7170	3985		Eu	#1 USSR #2 Swiz-2230	12/13/90
2200	2400	Il Mariana Is	KNBI	15340	13625		China/Jap/Phil/Indon	310/240 deg	12/22/90
2200	2300	Taiwan	V of free China	11915	9852		Eu	v WYFR	12/22/90
2200	2300	United Arab Emirates	V of UAE	15100	9600	6170	UNA/NA		11/25/90
2300	2350	North Korea	R Pyongyang	13650	11335		Am		12/02/90
2300	2400	United Arab Emirates	V of UAE	13605	9600	6170	UNA/NA		11/25/90
2335	2345	Greece	V of Greece	12105	11645	9425	SA/CA	News/Eng	12/08/90

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

ENGLISH LANGUAGE DX SHOWS: By Day of Week

Compiled by Thomas R. Sundstrom, W2RR

Shortname DX Program	Show Start Time	Time 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							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							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	WACR	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 White 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
Latin American DXing
Antique Radios - Collecting, Restoring, Enjoying
The Pirates Plank
DXing Helps
Taking An Active Role In Club Publications
Those Mysterious Numbers Stations

New Trends In Propagation Theory
Beverage Antennas
Facsimile
Active Antennas
Promoting SWLing
SWL Award Programs
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

FOR SALE: WRTH 1975 to 1989 (15 issues) plus WRTH Newsletters for the following years: 77, 78, 81, 82, 83, 84. \$150.00 for all. "Passport to Worldband Radio" 85/86, 87, 88, 89; \$15.00. Instruction manual for Collins 51J-3; \$20.00. Instruction manual for Hammarlund Pro-310; \$15.00. David Walcutt, 235 West 56 St, Apt 12H, New York, NY 10019.

WANTED: E. H. Scott radios (1931-1945), Scott Transformer radios (1928-1930), and World Record radios (1925-1927) and any Scott radio related items. John Meredith, 1626 Lake Rd, #188, Haslett, MI 48840. Phone (517) 339-4153.

FOR SALE: JRC NRD-515 with speaker, memory, extra filters, and manual; \$800.00. Palomar loop with longwave and 160/80 meter loops; \$125.00. MFJ 959B receiver antenna tuner/pre-amp with power supply; \$50.00. ICOM R-71A receiver with FL-44A/FL-32 filters and FM board; \$700.00. Barlow Wadley XCR-30 portable receiver with manuals; \$150.00. You pay shipping. Alan Johnson, 6001 Goldsboro Rd, Bethesda, MD 20817. Phone (301) 229-7069.

FOR SALE: Yaesu FRG-7700 with Gilfer modifications, MU-7700 memory unit, and dust cover. I pay shipping. Steven R. Lare, 824 West 25th St, Holland, MI 49423. Phone (616) 335-2270.

FOR SALE: Panasonic RF-3100 with digital readout and telescoping antenna. Light and easily transported. Portability with table top performance; \$100.00. Also "Passport to Worldband Radio"; \$6.00. David Mercer, 1721 East Frankford, #222, Carrollton, TX 75007. Phone (214) 492-5521.

FOR SALE: Yaesu FRG-8800 receiver. Tunes 150 kHz to 30 MHz. Includes VHF 118-174 MHz and the FRT-7700 antenna tuner. Excellent condition. Price \$550.00 including shipping. Bob Schoenleber, 310 Yardley Commons, Yardley, PA 19067. Phone (215) 493-1019 (home) or (609) 984-3111 (work). Prodigy FCGN28A.

WANTED: Old shortwave receivers such as Zenith, Scott, Hallicrafters, working or not. C. Blatter, 610 West Sunset Dr, Redlands, CA 92373. Phone (714) 792-4184.

WANTED: Desperately need a copy of Gerry Dexter's "Shortwave Listening With the Experts." Will pay twice publisher's price plus shipping. Peter Barr, 9128 Terrace Dr 5N, Des Plaines, IL 60016. Phone (708) 390-6526. Please leave message.

FOR SALE: Customized beam headings (from/to) and distances (MI/KM) to over 450 WRTH-90 transmitter sites. Useful in selecting alternate transmissions and choosing listening times based on distances. ITU Country Codes included. Send your location/coordinates; \$6.25. Also "Passport to Worldband Radio" '89; \$9.25. "FRENDX" complete '89; \$8.75. WRTH-87; \$8.00. All prices include shipping. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC. 28782. Phone (704) 894-3398.

WANTED: Repair manual or schematic for antique Hallicrafters "Super Defiant" SX-25 12-tube communications receiver. Please state price wanted. Chien Hsu, 7214 Pella Drive, Houston, TX 77036.

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