

NASA

The
Journal
of the
North
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Shortwave
Association

Volume XXXI, Number 2
February, 1991

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NASWA Notes



Bob Brown
238 Cricklewood Circle
Lansdale, PA 19446
CompuServe 74756.1557

Have you spent a few more hours than normal listening to shortwave the past couple of weeks? I know I sure have. Listening to the Gulf Crisis unfold on shortwave radio adds another dimension to the war that is not being covered in any other media. I have found it particularly interesting to listen to the commentary from other countries involved in the conflict.

Sales of shortwave radios are up and I have heard from various sources, that radios are quickly vanishing from dealers shelves. It has been quite a media blitz here since the 16th with many news organizations calling and questioning us about shortwave. Local TV and newspapers have covered our involvement with shortwave radio and the crisis and NASWA and the hobby has received some good publicity from these pieces. An article that appeared in the Philadelphia Inquirer of Jan 18th titled "On Radio, The Waves Of Warfare" has been particularly responsible for an increased public awareness of shortwave radio, both locally and from remote news organizations.

NASWA Helps NPR

Thanks to the loan of a Drake R7 receiver owned by NASWA member Ed Mauger to our local NPR outlet in Philadelphia WHYY-FM 90.9, they have been relaying SW broadcasts in their coverage of the Gulf Crisis. I learned of their desire to make this happen and Ed very generously agreed to loan his spare receiver. With the receiver under one arm and Tom Sundstrom's English Language Schedules under the other, I headed on down to the station around noontime on Jan 19th. I met Neil Tickner, news director, who was very excited about being able to relay the shortwave broadcasts over WHYY.

Just before 2 PM, Neil told me that he would like me to sit in on a call-in discussion about shortwave radio and NASWA. "Was I prepared for this?" I asked myself. I quickly replied "Sure" and off we went to the studio. Neil made a brief introduction, we discussed shortwave basics for awhile, and I introduced the listening audience to NASWA.

The switchboard lit up and there was quite a few callers for an impromptu, unannounced show. Luckily, I had permission from Bill Oliver and Tom Sundstrom to give out their telephone numbers during the show so that listeners could call either of them for more information. Calls were received by both Bill and Tom into the early part of the following week. Tom and I figure that there was

Calendar Of Events

February 15 - Phila. Area NASWA Chapter. Montgomery Elementary School cafeteria, Montgomeryville, PA 7:30 PM. Dan Cashin (215)446-7831

February 19 - N.E. Ohio SWLers. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. Mike Fanderys (216)661-2443

February - Meeting of the Boston Area NASWA Chapter. Please contact Paul Graveline (508) 470-1971 for details on the date and location.

March 22-24 - Fourth Annual Winter SWL Festival, Kulpsville Holiday Inn, Kulpsville, PA. Registration form was in last months *Journal* or write Box 591, Colmar, PA 18915

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

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

roughly 8 dozen calls taken because of the show. Questions of all kinds were asked. Callers wanted to know frequencies, times, publications, antennas, which radio, and where to buy. Lots of *Journal* samples were sent out and a few callers joined on the spot. For those of you that learned of NASWA from that show - Welcome! It was fun and I'd like to thank Neil Tickner and the staff of WHYY-FM for the opportunity. NASWA looks forward to a continuing relationship with WHYY.

Electronic Bits And Bytes

On Wednesday January 16th, NASWA members Rich D'Angelo, Kris Field, Tom Sundstrom and myself appeared on a TV show called Electronic Bits And Bytes on Channel 51 in Reading, PA. Host Dan Schein conducted the panel discussion about shortwave radio. The camera crew did an especially nice job with Rich's QSL and pennant collection with some nice fades between selected ones during part of the discussion. Thanks Dan!

Cowboy Country NASWA Meeting

I received this report from John Bryant via CompuServe -

"The first regional NASWA Meeting in COWBOY COUNTRY was held as a Day/Evening affair on Wednesday, December 26th in Stillwater, Oklahoma. Since it was working day for many and a mandatory "family" day for others, we received many sincere "regrets." Unfortunately, December 25 and 26th were the only days when our guest of honor, NASWAn Gordon M. Darling of Port Moresby, Papua New Guinea was in Oklahoma. The folks who could attend had a great time and regaled each other with some really tall tales, a few of which were nearly true (Mostly Gordon's about how come various South Pacific stations are a wee bit under modulated... You wouldn't BEEELIEVE it, and neither Hauser nor we can print it!) In attendance were NASWA ExComm's Glenn Hauser, Mitch Sams, Kirk Allen, John T. Reed, John Spenser Carson, Jr., Bill Bowers, Gordon Darling and host John Bryant. So much fun was had

and so many folks wanted to be there and couldn't, that we are contemplating a Spring meeting on a Saturday. Gordon volunteered to fly in if headquarters would cover expenses - Waddaya say Bob?"

John tells me that they are thinking about late April or early May for another get-together. Contact John directly at Rt 5, Box 14, Stillwater, OK 74704 if you are interested in attending.

N.E. Ohio SWLers Meeting

Michael Fanderys reports that on January 15th, a group of 17 gathered for an enjoyable evening discussing radio and swapping tales. Dave Kirby N8JQX gave a run down on the ANARC SWL Net and well known Pirate/Clandestine radio expert George Zeller went into some humorous stories about the hobby. Mike is coordinating these meetings and he is very encouraged with the group. Check the Calendar Of Events in this column for next month's date and location.

And I Get Paid For Doing This?

NASWA member David Alpert is a news producer for ABC News in New York. Just after the war started, David was on a plane with the destination of Nicosia, Cyprus. David had a roomful of monitoring equipment waiting for him and he is spending his time listening from longwave into the satellite frequencies for anything related to the crisis. Bagdad Radio, one of his prime listening targets, is heavily jammed and keeps going on and off the air. A report about David was covered on Radio Netherlands Media Network on Jan 24th. Listen to Media Network for more reports from David.

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)

Gerry Bishop Home

I received this post card from Gerry Bishop who we reported as being in the Gulf last month.

"Dear Bob - Can't say for how long, but yours truly is home from that awful desert. Got back on Xmas Eve. If anyone writes, the guys there will forward mail back home. And I may be going back... nothing there is so important as mail. 73's Gerry Bishop"

Glad your home Gerry and hope you stay! Please keep us informed with future developments.

ANARC News

After many weeks of memos, voting, and discussions, Sheldon Harvey reports that the clubs have voted to keep ANARC alive. There is a lot of work that needs to be done, but the clubs want to try and make it work. There are many open issues, including the

issue of the ANARC Executive Secretary position now being filled in the interim by Sheldon Harvey. An ANARC meeting has been scheduled for the Winter SWL Festival in Kulpsville, PA, March 22-24, 1991. Sheldon has asked for all the clubs to provide a representative for that meeting. Projects underway include a ANARC information booklet that will debut at the WinterFest, an exhibit and forum at the Dayton Hamvention in Dayton, Ohio in April, ANARC participation in the 1991 Soviet Radio Tour in August, and the 1991 ANARCON which will be held in conjunction with the Monitoring Times Convention in Knoxville, TN in October. ANARC can only stay alive with participation from active hobbyists who care and can devote a little of their time helping in some capacity. If you are so inclined to help, please contact Sheldon directly at (514)462-1459

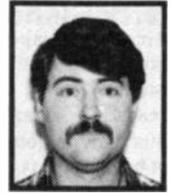
Welcome to the following new NASWA members -

F. K. Aug, Painter, VA
Glenn Gabriel Ben-Yosef, Somerville, MA
Ray Burris, Santa Rosa, CA
Donald Carroll, APO San Francisco,
Richard L. Chapman, Lake Orion, MI
Albert E. Clark, Savannah, GA
Jerald Cohn, Atlanta, GA
John C. Collopy, Laconia, NH
Robert J. Cuff, St. Augustine, FL
John W. Davis, Johnstown, OH
James S. Denniston, Los Angeles, CA
Harold Erbsch, Midland, MI
David Franklin, Birmingham, AL
John Franz, Saginaw, MI
Carol Gillespie, Ridgecrest, CA
Jim Goepel, Arcadia, CA
Semon Hachiklan, Upper Darby, PA
L. Jennings, Abingdon, MD
Joe Kasprzyk Jr., Yorkville, NY
George Kelley, San Antonio, TX
Juan King, St. Louis County, MO
Grant Kirk, Lexington, KY
Tom Kozal, Pittsburgh, PA
Michael Lenahan, Detroit, MI
Tom Masterson, Yell City, IN
Arthur J. Matson, Le Mars, IA
Edward L. Montesi, Brookfield, CT
Paul L. Moose, Montvale, VA

Jerry Mozer, Almgordo, NM
L. O. Nelson, Wichita Falls, TX
Gary Palmer, Buffalo, NY
Ted Plecko, Des Plaines, IL
Marlo A. Portalatin, Hialeah, FL
Daniel J. Prisco, Scranton, PA
Jerry L. Rankin, Shelbyville, IL
Larry Rasmussen, Fairless Hills, PA
Richard Ronay, Pembroke Pines, FL
Eric Ross, Sacramento, CA
Steven Ruvinsky, Brooklyn, NY
Doug Schatz, Ft. Collins, CO
Robert M. Schnick, Eric, PA
James Sellers, San Pedro, CA
Toren Smith, San Francisco, CA
James P. Smith, Pekin, IL
Mark Spat, West Swazey, NH
Steven Sprachman, Hicksville, NY
Edward Stash, Liberty Boro, PA
Robert E. Taylor, Newark, DE
The SWL Radlo Co., Evansville, IN
Joe Torzewski, Granger, IN
Benson Vess, Seattle, WA
Charles F. Washburn, Robbinston, ME
Ms. Barbara Wheeler, Downers Grove, IL
Theodore R. Wieber Jr., Duluth, GA
John M. Wolfe, St. Charles, MO
Ronald Young, Lake Charles, LA

DXer's Forum

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



Welcome back to the DXer's Forum. This month we continue our series on daily propagation enhancements, courtesy of John Bryant and David Clark. This installment in the series will be a challenge to squeeze into the page allotment, so I'll immediately turn the Forum over to our authors as they seek to explain...

Graylining And Other Exotica

by John H. Bryant with David M. Clark

Last month we focused on dawn enhancement, that marvelous phenomenon that seems to boost all tropical band signals coming from the dark side of the planet. Either dawn or sunset enhancement is usually the first propagational enhancement that most of us discover rather early in our hobby careers. There are several other useful enhancements associated with the day/night terminator. However, to discuss them effectively, we must first define some terms.

Graylining Defined

In some parts of the hobby community this term is used rather loosely. Sometimes it is used broadly to mean any reception or transmission which is enhanced by propagation in or across the day/night terminator. At other times, it is used to mean *only* enhanced propagation in which the waves travel only up or down the twilight zone itself. Usually, neither David nor I are pedantic about nomenclature. However, in this area we have found precision to be essential. In these discussions, *graylining* is used only to mean utilizing enhanced propagation along or within the twilight zone itself—that is, when *both* the transmitter and receiver are in the twilight zone.

Other Enhancements

A precise, narrow definition of "graylining" allows us to think about at least five other enhancements which may occur as

the day/night terminator moves around the planet. For instance, there are very noticeable enhancements when either the sunrise or sunset terminator crosses the location of the transmitter, even though the receiver is in full darkness. The best terms that we can find for these two enhancements are "sunrise (or sunset)-at-the-transmitter." Conversely, there are two other enhancements found when you assume that the transmitter is in full darkness: sunrise (or sunset)-at-the-receiver. These are the enhancements commonly called dawn and sunset enhancement. Finally, we strongly believe that we have identified a sixth terminator-related enhancement. There is a growing body of evidence that a significant "sweet spot" of enhanced propagation exists about two or three hours behind the sunset terminator in the tropics. More on that later.

During the hours of darkness (at the receiver), it is possible to DX most of the "other enhancements" on the tropical bands and, at times, on mediumwave. Particularly on the west coast of North America, it is possible to follow the sunset terminator right across the Pacific, DXing "sunset at the transmitter" of the mediumwave outlets in the far flung island countries. The same thing is possible related to the regrettably few shortwave outlets on the Pacific Islands.

It is also possible to DX the "sunrise-at-the-transmitter" enhancement long prior to dawn enhancement at the receiver. Almost all of Mitch Sams's and my mediumwave

catches from Europe and North Africa (heard in Oklahoma and Kansas) were "riding the wave" of dawn at the transmitter during the middle of the North American night. So too are many of North American DXers' catches of European, African and easterly Latin signals on the tropical bands. More on that strategy in part three of this series.

Does Graylining Really Work?

When David and I first bought ON4UN's Low Band software, we did so because one of the modules simultaneously figures all of the grayline "widths" for 500-600 locations on the planet for any given day and then prints out those whose grayline "width" even partially overlaps your own. We knew immediately that we finally had a tool to hunt exotic "true grayline" DX accurately! We were deeply disappointed with our DXing results and, for a time, didn't think that graylining worked at all. Some four years later, we have noted that true graylining on the Tropical Bands does seem to work quite well at sunset. We also note that graylining does work on occasion at dawn. This is most often noted on signals from the northern hemisphere (Urumqi 4735 and Srinagar 3277 for instance). True graylining at dawn into or through the Asian tropics may exist, but our experience shows that it is rare at best from North America.

Dawn Enhancement And "The Sweet Spot"

About two years ago, David and I began to note that most of our best Indonesian

catches—the really tough ones—were occurring at about 8-9 PM local time at the transmitter. This was true whether these stations were in Indonesian New Guinea or two time zones to the west in Sumatera. It seemed to make no difference statistically—we were hearing our best DX out of the Asian tropics when 8-9 PM mean solar time at the transmitter coincided with maximum dawn enhancement at our receivers. We began to believe rather firmly that there was a "sweet spot" of enhanced propagation of varying but significant width lying parallel to the sunset terminator in the tropical zone, but trailing it by 2-3 hours. About 18 months ago, I accidentally stumbled onto a book about an ionospheric phenomenon known as *spread F*. Spread F refers to "interference" in ionospheric research which is caused by previously unknown Tropical Ionospheric Disturbances (TIDs). These TIDs are turbulences in the F layer of the ionosphere which are centered near the magnetic equator and commence after local sunset. They usually become most active around 2-3 hours after local tropical sunset and usually subside by local midnight. The speculative case for a linkage between spread F and the Sweet Spot is beyond the scope of these articles and was one of the central issues of our lo-o-o-ong article in *Proceedings 1990*. However, based on our listening experiences at sites in eastern, central and Pacific northwestern North America, we believe that the existence of a Sweet Spot trailing the sunset terminator and its usefulness as a DX tool is irrefutable.

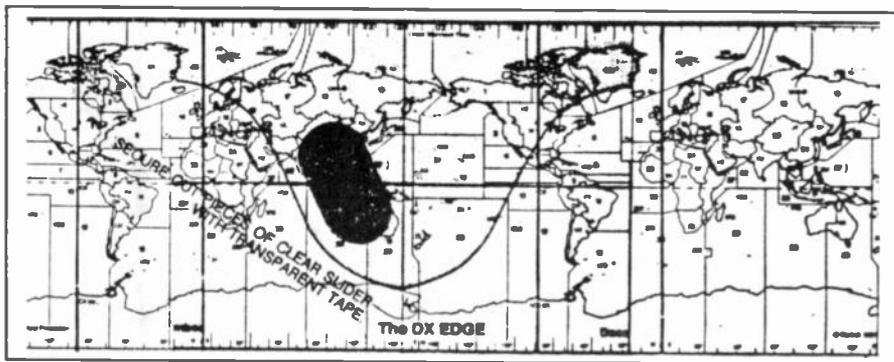


FIGURE 1. DX-EDGE MODIFIED FOR TROPICAL BAND USE. The date shown is December 15. The Sweet Spot shown on the clear slider is assumed to be from 7:30 to 9:00 PM locally on the equator.

Strength

Although we are only midway through our studies, we do feel comfortable saying that the signal enhancement of a mid-evening Sweet Spot at the transmitter in the tropics is quite strong. Careful watching/listening so far leads us to believe that the strength enhancement is an order of magnitude greater than that which we observe due to the "sunset-at-the-transmitter" enhancement. This may not be true from all listening locations, but a picture is beginning to emerge.

Tools for Predicting Sweet Spot Location

Until the advent of some relatively modern diagnostic tools, determining the exact location of a theoretical Sweet Spot on the other side of the world was very difficult. Determining the exact location of a moving Sweet Spot at exact dawn at your location, also changing daily, was virtually impossible. The introduction of the DX Edge about a decade ago was a real breakthrough. Obtainable for \$20 or so from many hobby outlets, it is still one of the least expensive (and most portable) of our tools. If you are

a tropical band DXer, we strongly encourage modifying the clear plastic slides by making a vertical cut in the middle of each slide and rearranging the parts so that mid-night, rather than noon, is at the center of the slide (Figure 1). You might also mark a potential sweet spot on each slide—make a capsule shape centered on 8-9 PM local time at the equator and parallel to the terminator with the straight sides of the capsule running from the Tropic of Cancer to the Tropic of Capricorn. Although the Sweet Spot varies from day to day and we are unsure about its exact location, a shape such as that shown in Figure 1 is a place to start.

Much more detailed and beautiful diagnostic tools are available for those who operate IBM-compatible PCs. These new tools include "DX-Aid" from Peter Oldfield in Canada, and "Geoclock" from Joseph Ahlgren. I reviewed these in the May, July and September 1990 issues of Listener's Library. Figure 2 is an illustration of the registered version of Geoclock which has been set to show a 120-minute-wide twilight zone. Since Geoclock doesn't know about a Sweet Spot, it sets twilight to be the same width at dawn and dusk. It is

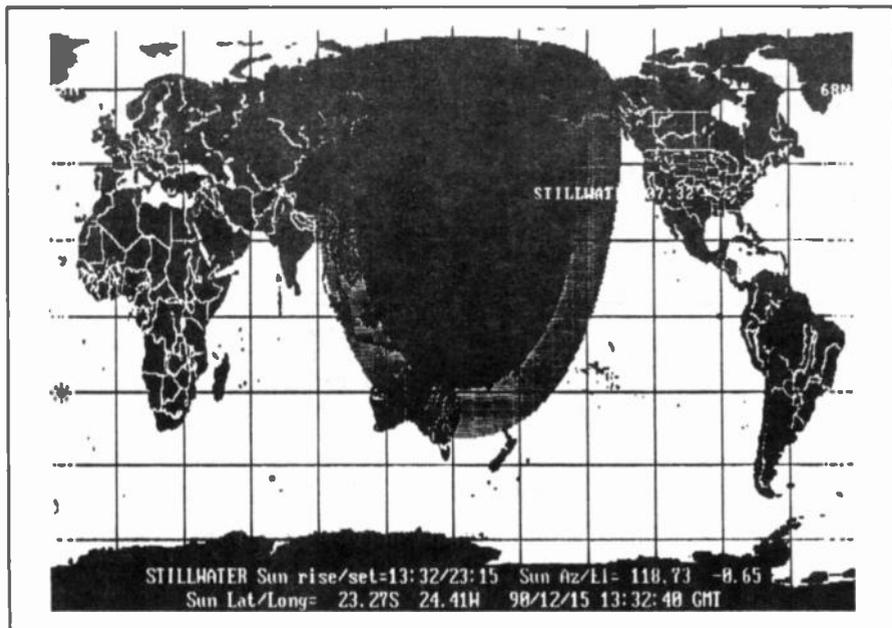


FIGURE 2. *GEOCLOCK SOFTWARE (Registered Version).* Shows the first two hours after sunset before sunrise as a gray zone. This is the picture for 13:32 UTC on 15 December sunrise in Oklahoma. Provides control of the two terminator lines.

from 20 degrees S latitude to 23.5 degrees S and back in the period from 23 November to 20 January—58 days. However, our planetary wobble is most pronounced during that time, moving equatorial sunset from 17 minutes “fast” in November to 14 minutes “slow” in January. So, the terminator and our putative Sweet Spot stay in place about 2 months in the winter, too, but it tends to wiggle around more.

When you remember that the lines on Figure 4 represent the leading edge of a Sweet Spot that extends 30 degrees of latitude or so to the right of the line, you see that my subcontinental season “should” last about 2 months centered around winter solstice, with most Kashmiri reception depending on the Sweet Spot opening earlier than usual. In fact, here at the peak of the solar cycle, it seems that the Subcontinental season is 4-6 weeks long centered about December 21. You will note that there are 2 opportunities to hear most of Indonesia grouped around the two annual equinoctial periods. This also matches our experiences throughout most

of North America. David and I do both note that the Sweet Spot tends to lag behind the terminator more around the Fall Equinox (Indonesian season from mid-September to late October). Finally, given a 30 degree-of-latitude-wide Sweet Spot, a PNG season lasting from March/April until late September is very believable. This also matches our experiences here in central and eastern North America.

My good friend and ace DXer Kirk Allen and I used to wonder how “the season” switched so quickly from central Sumatera to central India—half a continent away—as it does every late fall, and how it switches back so quickly in the spring. We used to talk about how it was almost like throwing a light switch. Notice how the leading edge of our still-theoretical Sweet Spot rolls from its starting position in mid-June—slanted toward the central Pacific and crossing Irian Jaya. It rolls as it moves westward, comes vertical at equinox and continues to advance to the left and rotate until it almost connects Sumatera and India in mid-December. Awfully suspicious, eh?

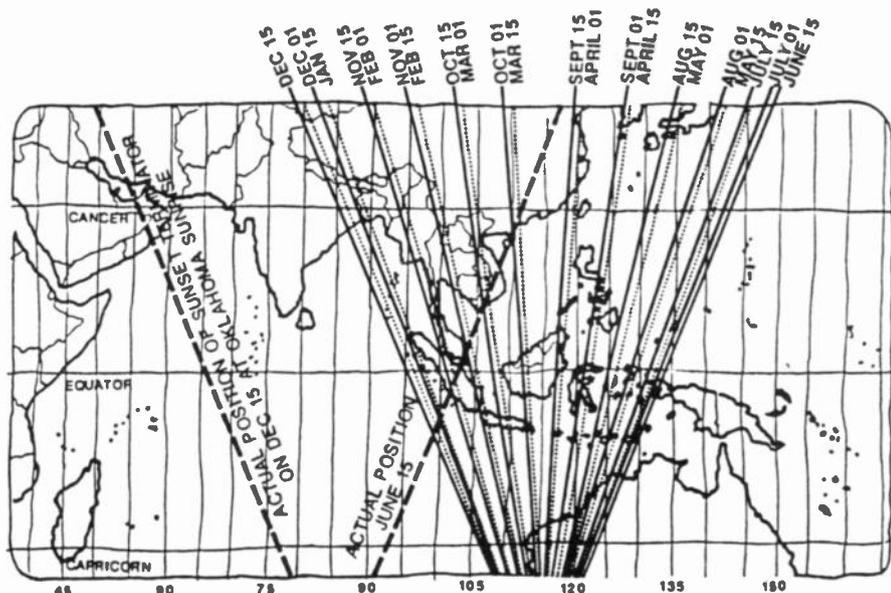


FIGURE 4. DIAGRAM OF THE SEASONAL MOVEMENT OF THE WESTERLY EDGE OF A POTENTIAL SWEET SPOT FROM OKLAHOMA QTH. The assumed westerly edge is at 8 PM local equatorial time at exact ground down in Oklahoma. The intent is to show the seasonal change. Since these lines move based on receiver longitude and latitude, easy conversion of this diagram to other locations is not possible. However, this diagram is somewhat representative of eastern and central North America's probable dawn Sweet Spot.

Why Haven't We Heard About This Stuff Before?

Well, we really don't know for sure. We have not found any reference to a locus of enhancement (Sweet Spot) trailing the tropical zone sunset terminator in any radio amateur or professional literature. Since these phenomena occur in the largely ignored lower section of the HF spectrum, and since they may only affect signals travelling 10,000 km or more, there was little reason for professional people in propagation to look closely into (or governments to fund research into) dawn enhancement or notice a Sweet Spot, if it indeed exists. Dawn and sunset enhancements have been covered rather superficially in the hobby press for some time. However, no radio amateurs that we have read have discussed a Sweet Spot nor have they associated any enhanced propagation with the spread F phenomenon. The seeming absence of awareness of the Sweet Spot in ham circles is hard to explain. There is some possibility that the Sweet Spot may be a "receive only" phenomenon. We do not know.

After our article in *Proceedings 1990* was published, we were stunned when David found a 1970 article by the well known and respected Scandinavian DXer Anker Petersen. It was published in the English language bulletin of the Danish Shortwave Clubs International. Mr. Petersen undertook an incredibly extensive and very precise year-long study (1969) of 60 meter DX openings from Denmark to the rest of the world. Making thousands of loggings, he compared when each DX circuit "should be open" to the quality and length of actual openings. This is such an important work that we would like to quote a particularly important observation that Mr. Petersen made after the year-long study:

"The signal strength increases steadily from the stations' fade-in at the begin of darkness on the path as absorption becomes lesser. In many cases, but not in all, a peak occurs about two hours after fade-in, followed by 3-4 hours with weaker signal strength. Then the signal strength increases again and stays on a good level until the station fades out when sunrise reaches the first reflection point."

Although this does not exactly describe our Sweet Spot, it comes awfully close. We do not know how this monumental work

became lost in the DXers' Dustbin, but we suggest that NASWA's Company Store seek to offer reprints to all interested DXers.

An Invitation

A year ago when we wrote our *Proceedings 1990* article, we believed that the Sweet Spot was statistically centered around 9 PM at the transmitter—the time, statistically, of the maximum amount and extent of Tropical Spread F. After closer examination, it appears that the Sweet Spot may center around 7:30 PM at the transmitter (the center of the generation phase of spread F) rather than 9 PM (the peak of spread F and the beginning of its decline). Careful monitoring by a number of North American DXers could serve to support or disprove the connection between spread F and the tropical band DX seasons. If you DX with some regularity at dawn and would like to help, watch for when and where "the season" tends to shift and take notes. After about 6 months of study or so, drop one of us a line or write an article for the Forum or *Proceedings 1992*.

Max Dawn & The Enhancements — A Fantasy

As my reward for writing this, and (maybe) your reward for slogging all the way through it, I insist on sharing a very private fantasy with you. You know that "max dawn" is shorthand for maximum dawn enhancement, and of course, now you know our view of some of the other enhancements. However, sometimes I see another reality: Max Dawn and The Enhancements are an early rock and roll group. Lead singer Max Dawn is a combination of Ray Charles and Stevie Wonder but drawn like TV character Max Headroom. Max's back-up group, The Enhancements, are five slender, perpetually young ladies who sing like the Supremes and dance like Tina Turner. They make wonderful music and each concert is unique. What's more, they sing their siren songs every morning just about sunrise. Get up and join us at a concert, it's GRAND!!!

Thanks to Joseph R. Ahlgren for permission to use Geoclock graphics to illustrate this column. Those interested in Geoclock may reach Mr. Ahlgren at 2218 N. Tuckahoe St., Arlington, VA 22205-1946.

Easy Listening

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

War In the Gulf

If the traffic in the GENIE Shortwave Listening category of the Radio/Electronics Bulletin Board is any indication of the overall marketplace, interest in shortwave listening has exploded since the morning of January 17th. People appear to be frantically looking for the Sangean ATS-803A/Radio Shack DX-440 without much success. Most of these new listeners say they picked up SW radios to obtain information from or about the Persian Gulf region.

While all major English Language broadcasters include some Persian Gulf coverage in their regimen, I'd like to highlight three Easy Listening targets with extensive Persian Gulf war coverage.

BBC World Service

No surprise here. BBC has extensive correspondent coverage in the region, enabling much "at the scene" coverage. Even within the first few hours of the conflagration, the BBC was incorporating background coverage to try and provide perspective on the war. Meanwhile, most US Television coverage concerned itself only with the immediate events themselves, and really didn't try to put matters in perspective.

Another plus to the BBC is that news from areas other than the Persian Gulf still is covered in depth. Most USA domestic television and radio news has significantly emphasized the Persian Gulf while other regions get little coverage.

I'm not going to highlight specific programs and times due to the dynamic nature of the situation. Rather, I'm going to list the BBC frequencies I consider "first choice" among the many BBC frequencies shown in the frequency schedule. As usual, note that these are based on Eastern Pennsylvania observations. You may find other frequencies more suitable.

0000-0400 UTC 7325,9915 kHz
0400-0500 UTC 5975 kHz
0500-0800 UTC 9640 kHz
1100-1330 UTC 9515 kHz

1600-2000 UTC 15070 kHz
2000-2100 UTC 17760 kHz
2200-2100 UTC 9915 kHz

Christian Science Monitor World Service

The CSMWS has developed a fine reputation for its skill in analyzing and backgrounding news stories. They've announced a modification in their normal two-hour cycle to incorporate additional Persian Gulf coverage. Here's their new program sequence:

First hour:

Live News Update
MonitorRadio (normally heard on USA public radio stations)
Live News on the 1st Half Hour
Second half hour of Monitor Radio

Second hour:

Live News Update
One Norway Street or Curtain Call
Letterbox
Religious Article

The CSMWS broadcast is in repeating two-hour blocks. CSMWS is easily heard in North America from its Maine and South Carolina transmitter locations. Its Saipan transmitter (the former KYOI) is tougher to catch in the Eastern USA, but is probably easy to find in the Western USA.

Here are some times and frequencies:

0000-0200 UTC 13760 kHz
0200-0400 UTC 9455 kHz
0400-0600 UTC 9840 kHz
0600-0800 UTC 9455 kHz
1200-1400 UTC 9495 kHz

Please consult Tom Sundstrom's column for additional times and frequencies.

Thanks to Michael Batchelor—Systems/Operations Engineer, WSHB (a Christian Science Monitor WS Station) and NASWA member Allan Courtney, who submitted the schedule change information via GENIE.

Kol Israel

I've included them in this Persian Gulf section due to their breaking coverage on the as it affects Israel. The typical news-plus-features program is preempted when warranted, as it was last week when the missile attacks started. Listeners could eavesdrop on Israel's Civil Defense alerts regarding air raid sirens, the need to don cartridge respirators ("gas masks"), and the like. I found myself frighteningly close to the action.

Following are my best frequencies and times for Kol Israel in Eastern Pennsylvania:
0000, 0100, 0200, 2230 UTC - 9435 kHz

Radio Sofia

Bulgaria hasn't been quite as radical as Hungary, Czechoslovakia, Romania, or the former East Germany in its transition to a market economy. However, a recent listen showed unusual journalistic independence for a country that used to reflect Soviet thinking in mirror-like fashion.

The broadcast in question was the day following the armed takeover of Lithuania's broadcast facilities. Sofia condemned the military action in very harsh terms - more so than Radio Moscow. Perhaps one reason Sofia can take such liberties is that it doesn't rely on USSR transmitters for its external services; rather, much of Radio Moscow's easily heard North American programming is beamed from transmitters in Plovdiv, Bulgaria's second largest city.

In addition to world news, Bulgarian news, and commentary, the program incorporated *Tourism '91*, a 5-minute feature/advertisement on a specific tourist stop, and *Music of Bulgaria*, an indigenous music program. Bulgarian Folk music has some elements in common with Greek and Turkish folk music. I don't have details regarding how often these programs air.
Best bet: 0400 - 0500 UTC, 7115 kHz.

Tuning tip: On my Sangean ATS-803A, I tune to 7117 kHz and set the bandwidth to "narrow". This provides decent audio with less QRM. I find this approach helpful since the female announcer appears to work out of a studio with a poor quality microphone.

Music on Shortwave

NASWA member Bob Swan of LaVale, Maryland sent along a nice note and included

some of his favorite music programs available on shortwave:

Jazz Place, Radio Havana Cuba, 0030 - 0100 UTC Monday, 11820 kHz

Jade Bells and Bamboo Pipes, Voice of Free China via WYFR, 0335 - 0350 UTC Friday, 9680 kHz

Musica del Ecuador, HCJB, Quito, 0053 - 0120 UTC Saturdays, 15155 kHz

Dan Cashin of Havertown, PA suggests the following:

Radio Prague, Czechoslovakia, 0300 - 0330 and 0400 - 0430 UTC Monday, 5930 kHz. Classical, Folk, Popular music rotate each week.

Voice of America, African Service. Consult Tom Sundstrom's schedule for frequencies.

BBC World Service, 0445 - 0500 UTC Friday on 5975 kHz, 1345 - 1400 UTC Thursday on 12095 kHz - Folk in Britain, Jazz Scene UK alternate.

Paul Kling of Amarillo, Texas adds **Concert Hall**, 1515 - 1600 UTC Sundays on 11775 and 15260 kHz as one of his favorites.

Editor's note: the BBC features music of diverse types...more on those in a future column.

Other Acknowledgements

I'd like to thank Paul Kling of Amarillo, Texas for his correspondence - he was glad to find a fellow BBC World Service fan who didn't 'fess up to being a DXer. In addition to Concert Hall, shown above, Paul especially enjoys **Letter from America**, 1645 UTC Sundays also on 11775 // 15260 kHz.

I also received a note of encouragement from David Snyder of NYC via Compu-Serve.

Please keep those cards, letters, and E-mail messages coming. Your contributions help add variety and completeness to this column, plus help to motivate the editor!

I'm especially interested in your input on music programs and Science/Technology features. I plan to highlight these programs in the near future.

Good Listening and 73 — Richard

Listener's Classroom

Dr. Charles A. Wootten
11424 Great Branch Drive
Chester, VA 23831-1663
Compuserve 76476.1556



Ben Mancine writes to say that he agrees that participation is what makes NASWA work, so he thought he'd participate! Well, Ben, you couldn't be more welcome. Ben's first question asks about taped reports.

The advantage of a taped report is that the station can hear the actual conditions of reception and judge the results for itself. This is sometimes a disadvantage to the station because it takes longer to listen to a tape than read a written report. Whether to send a tape or a written report rests on the shoulders of the DXer and the station policy.

Ben, I would suggest that if you want to send a taped report to a station, write to them before you send a tape. You may want to ask whether they would like to have a taped report, a written report, or both. Ask what type of tape they would prefer—a reel-to-reel at a specified speed or a standard cassette. The station will respond with answers and may suggest to you that certain of their frequencies could be monitored over a specified period. Some years ago on a DX Program this was the topic of discussion. An interesting remark that has stayed with me is that perhaps the station would like to test the voice quality of their station personalities. Perhaps Tirana and Pyongyang should take this under advisement?

Once you receive the authorization from the station, start the tape by clearly stating your name and address. Ask them to return the tape to you upon completion of their testing. Occasionally stations have decided to return the tape with music from their country beautifully recorded on it. I have such a tape from Brazil from some years ago. Do not count on the station taking the time to record interesting stuff on your tape. Still, you can ask for a short comment to help improve your service to them.

Before doing the actual recording state the date, time, and frequency. After all, just a simple recording of a portion of the transmission does no one any good if you don't identify it, especially if the reception conditions are bad.

Radio Nacional de Brazilia (now Radio Bras) suggested that I should record segments of not longer than two or three minutes. I think they said that to avoid the temptation to fast forward

the tape, thus missing any statement that I may have inserted into the program recording.

The recording hardware is equally important. After all, a dirty recording head will introduce distortion into a transmission that is less than studio quality. Take time to clean it. Ensure your tape is new, or somewhat so, and that it lacks breaks at any point.

The connection to the receiver also should be checked. Most shortwave receivers have a "receive out" jack under that name or similar names. At that particular jack the audio output is set at a standard level so you don't need to worry about adjusting the gain. A recording made with a microphone in front of the speaker should only be done as a last resort. You'd be surprised, Ben, how much extraneous noise can be picked up even by a poor microphone. This would render all of your hard work useless.

If your receiver does not have a recording jack available, a little study of the technical manual will show you the proper place to construct one on your own. You can use the external speaker connection of the receiver and the microphone input of the recorder with a short piece of shielded audio cable. Add a friend who can put a capacitor and a couple of resistors together and you're in business.

Keep in mind, Ben, that when your taping is perfect it's because you haven't ignored the points made in this lesson:

- Record your name, address, and anything you want to ask at the very beginning of the tape.
- State the date, time (UTC), frequency, and your interpretation of frequency quality before each recording session.
- Make each recording session short.
- Record the same program for at least three consecutive days and on the same frequency. Do this unless the station tells you otherwise.
- Do not allow the recording to sit for more than ten days. You do not want useless information to arrive at the station.
- Mail the tape airmail. This may cost a little more but the investment is worth it.

73's!

Latin Destinations

Don Moore
20108 Hayes Road
Big Rapids, MI 49307



Hola amigos! Welcome to Latin Destinations. This month we're going to journey to one of the more remote corners of Peru and look at one of my favorite Peruvian stations - Radio Quillabamba, 5025 kHz. The city of Quillabamba is the capital of La Convencion province, which occupies the northern third of Cuzco department. Quillabamba is, literally, at the end of the line. From Cuzco, the railroad snakes its way north through the narrow Urubamba river valley. Most travelers get off about 100 km later, at the famous Incan ruins of Machu-Picchu. From there, the railroad continues another 90 kilometers, finally ending on the opposite side of the river from Quillabamba, to which it is connected by a footbridge. Quillabamba is so remote that this last stretch was not completed until 1978. Previously, the only way in or out of the city was a very rough dirt road, or by boat down the Urubamba towards Iquitos and the Atlantic ocean.

To look at this interesting station, we're going to delve into and condense an article on the station in a little-known Spanish language radio book, *Radio y Comunicacion Popular en el Peru*. As we'll see, Radio Quillabamba is more than just another radio station that plays great folk music!

STATION HISTORY

Radio Quillabamba had its beginnings not in Quillabamba, but 225 miles to the east in Puerto Maldonado, capital of the regional Roman Catholic Vicarate. There, in 1958, Dominican missionaries installed Radio Madre de Dios (still heard on 4950 kHz). The success of this station convinced the fathers of the importance of radio as the only means of communication in remote eastern Peru. However, their new station was not powerful enough to be heard in the western half of the Vicarate - the upper Urubamba river region centering on Quillabamba. By the mid 1960s the padres began thinking of a second station in Quillabamba, and Padre Joaquin Barriaes, manager of Radio Madre de Dios, was sent to Quillabamba to scout out the area.

There was already one small AM station in Quillabamba - Radio Quillabamba, founded May 20, 1959. The station was barely operat-

ing, and having trouble renewing its licence. The owner was willing to negotiate, and the padres bought the station on October 12, 1966. Not that the padres got much - a little office furniture, a frequently-broken 300 watt transmitter, and, most importantly, the licence. This all happened so quickly, that the padres didn't even have time to plan for the new station. They kept the same name, but moved the station to the parroquial building. The next investment was a turntable and a few records.

The padres worked hard and by 1969 had a 1 kw transmitter on the air. But, they knew this wasn't enough to reach the vast expanse of La Convencion province. Contacts were made with international Catholic agencies, and gradually the money was raised for a new, better Raspa 1 kw AM transmitter, a brand new Bauer 5 kw shortwave transmitter, and new studio equipment. On September 15, 1971, Radio Quillabamba was granted a shortwave licence, and early 1972 the new equipment arrived, about the same time as the new director, Padre Joaquin Barriaes from Puerto Maldonado.

RADIO QUILLABAMBA TODAY

As difficult as it may be to imagine life in such a remote area as Quillabamba, it is equally difficult to imagine how important something as simple as a radio station can be in such an area. "In this zone, radio is the telephone, the telegraph, the post office, the newspaper, the magazine, and the record player. With reason, a peasant said when the station was off the air that they had lost 'their bread'" (Lobo & Encinas). Radio Quillabamba started out as a Bible and prayer station, then developed into an educational station of radio schools and health classes. Finally, like many parts of the Catholic church in Latin America, Radio Quillabamba evolved into something else - a voice for the common people in their fight against poverty and oppression. It became a "radio popular", a peoples' station, not just broadcasting to the people, but putting the people on the air to communicate to each other. As the padres put it, they became "la voz de los que no tenian voz" - the voice for those without a voice.

The belief behind this is that for democracy to work, everyone, not just a privileged few,

must have access to mass communications. In rural Peru, radio is the mass communication that counts. Radio Quillabamba sees its role as working with the common people of La Convencion province. Time is regularly given at no cost to cover, sometimes even transmit, meetings and conventions of local peasant federations, trade unions, schools, and social agencies. Twice a day there are half hour programs of announcements from these organizations, again transmitted free of charge. A number of organizations, including the Provincial Peasant Federation, the Provincial Trade Union Federation, the Provincial Council, the local human rights group, and several agricultural cooperatives are given 15 or 30 minutes blocks of time once or twice a week.

All this is not to say that Radio Quillabamba has lost sight of its religious purpose. Fundamental to Roman Catholic "liberation theology", for people to be good Christians, their basic physical needs must be met and they must have control over their own lives and their own society. Radio Quillabamba sees its social role as an extension of its religious role. Furthermore, Radio Quillabamba works very strongly with numerous "comunidades cristianas campesinas" (Christian base communities) in La Convencion province. These CCC groups teach Christian values and encourage the peasants to share and work together for their common good. In some ways, these are a lot like the old Puritan villages of early New England. Radio Quillabamba assists in regional CCC meetings and gives four half-hour slots each week to the CCCs for their own radio programming.

The trust that the local populace has in Radio Quillabamba is perhaps best shown in its role as an unofficial post office - yes, post office. Because mail service to surrounding villages, even to much of Quillabamba city itself, is poor, people direct letters for friends or relatives to Radio Quillabamba. Hearing that they have a letter, people can then go in or send a friend to pick up the letter.

Although Radio Quillabamba is a religious station, it does take advertising to help pay for the station's upkeep. But in keeping with its religious character, it refuses ads for alcohol and tobacco products. Like most small town Latin American radio stations, additional income is made by selling station time direct to listeners through record dedications and personal announcements. In the early days, these were Radio Quillabamba's primary means of support, but commercial advertising has since become more important. The two daily two-hour programs of record dedications and "mensajes"

are among Radio Quillabamba's most popular programs.

HEARING THE DX

Radio Quillabamba isn't as easy to hear as it once was, since it's now usually covered by cochannel Radio Rebelde from Cuba. But occasionally a few lucky DXers catch Radio Quillabamba signing on early with terrific Peruvian folk music, around 0900 or 0930, before Rebelde comes on the air. For years, Radio Quillabamba issued one of the most beautiful station pennants ever made; a lush jungle scene with a snow covered mountain in the background. I received mine in 1974, and they were still sending the same design out until at least a three or four years ago. They may still be using it.

If you can read Spanish and would like to know about this station and other Roman Catholic stations in Peru, the book is available through inter-library loan. Those who don't read Spanish may be interested in NASWA Reprint L-1, a collection of articles by Pitt McNeil who visited several cities in southern Peru, including Quillabamba.

BIBLIOGRAPHY

Lobo, Padre Rufino and Padre Alfredo Encinas. Radio Quillabamba: Una Experiencia de Comunicacion Popular en La Convencion. In Radio y Comunicacion Popular en el Peru. 1987. Eduardo Ballon, ed. CEPES (Centro Peruano de Estudios Sociales), Lima.

CONTEST TIME AGAIN

Well, it looks like we have space for another contest this month. This time, there is just one question, and it isn't too hard. A quick perusal of the log column, PWBR, or WRTH should give you the answer. Here's the question:

Name any one 60 or 90 MB Latin American station that has an English broadcast. Stations in countries that are nominally English speaking (e.g. Belize and Guyana) don't count.

Write your answer on a postcard and send it to the mast head address to arrive no later than March 20th. I will hold a drawing of all correct answers. The prize this time will be a cassette of Latin American station IDs I recorded locally on the road in Latin America.

Well amigos, that's it for this month. Hasta luego!

Don

Listener's Library

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



Wow, what a difference a month makes! It's rather safe to guess that each of our listening patterns changed rather radically in the latter part of January. Most of us have probably been splitting our time between the truly excellent television news coverage of happenings in the Gulf and the more in-depth coverage of the area available via our radios. Many of us have friends and relatives in the Middle East. NASWA has several members serving with the forces, as well. One can only hope that the situation will reach a just conclusion in a short time, with as little loss of life on all sides as possible.

FROM PROCEEDINGS

Those of us who own *fine tuning's PROCEEDINGS 1989* have probably been wearing out the pages of Hans Johnson's excellent article "DXing the Arab World." Hans has a strong academic background in the Middle East, as well as being fluent in Arabic. In his article, Hans suggested several books which should be available to most libraries. Although none of these are of direct radio application, many of us in and out of radio are struggling to understand the current conflict from various regional viewpoints as well as our own. I'm sure that Hans would not mind sharing that list and his comments on the references with fellow NASWAns:

Goldschmidt, Arthur, Jr. *A Concise History of the Middle East*. Boulder, CO: Westview Press, 1983. A good one-volume treatment.

Gibb, H.A.R. *Mohammedanism*. London: Oxford University Press, 1980.

Baumont, Peter. *The Middle East, a Geographical Study*. John Wiley and Son, 1980. An excellent volume.

Kritzeck, James. *Anthology of Islamic Literature*. New York: New American Library, 1975. Good selection of Arabic poetry.

Rahman, Fazlur. *Islam*. Chicago: University of Chicago Press, 1966. This deals with the history of Islam.

Lamb, David. *The Arabs*. New York: Random House, 1987. Some light reading on the Arabs by an American author.

WHO WAS DAT MASKED MAN?

I had a wonderful phone call from Peter Barr of Chicago last week. Peter is a recent "returnee" to the hobby after a hiatus of 17 years (Et tu Brute?) It seems that he has been trying to rebuild his radio reference library and noted my October remarks about Dexter's incomparable *Shortwave Radio Listening with the Experts* (Sams, 1986) now out of print. Peter canvassed the country calling every known hobby outlet trying to find a copy. No luck! Finally he placed a notice in *The Journal* offering to pay DOUBLE the retail price for a used copy! He got a couple of calls from sympathetic owners, but no real offers of sale. Then one day he arrived home from work and found an anonymous call on his answering machine informing him that a rather obscure electronic parts house in the Chicago area had a copy! They were "closing it out" for less than list price. Needless to say, Peter is now the proud owner of one of the last available copies of the Dexter book and feels that he owes a real debt to whoever called. Who was that masked man?

TO THE STACKS!!!

Pat Fogerty dropped by the Library in December with a great reference suggestion, particularly for those of us hunting transmitter sites in various parts of the world. He recently ran across *Chambers World Gazetteer*. (ed.: D. Munro, and published by Cambridge)

The flyleaf notes that it contains 20,000 entries with various information (including latitude and longitude!), 150 line maps, and a 120 page color atlas. This is the fifth edition (1988), the first being published in 1895! While it doesn't cover every hamlet or wadi, this book has proved useful to Pat (and to me!). Pat found it while exploring his favorite bookstore, Haslam's Book Store in St. Petersburg, FL. The price was \$34.50 plus tax, not cheap but reasonable for the quality. For those not familiar with a gazetteer, all entries are listed alphabetically by their most common geographic name and each is followed by geographic coordinates and by some brief descriptors about the area.

By the way, the entry for Stillwater is as follows:

"Stillwater, 36 07N 97 04W, pop (1980) 38,268, county seat of Payne county, N central Oklahoma, United States; 96 km W of Tulsa; settled in 1889; university (1891); railway; economy: market centre for a farming area."

Pat, that's an excellent description of Stillwater, except this hasn't been much of a farming town for 50 years.... make that "college town" and the citation would be perfect.

Karl Forth from Chicago checked in with another super suggestion that has also been suggested by several other recent contributors. This NASWA favorite is *Outposts* (Simon Winchester, Hodder & Stoughton Ltd., London, 1985.) *Outposts* chronicles author Simon Winchester's journeys to the surviving British colonies around the world. He travels to the better-known colonies, such as Hong Kong and Gibraltar, but also visits places well-known to DXers, such as the Falkland Islands, Ascension Island, and Tristan da Cunha. He describes some of the history of each place and what life there is like today. Sometimes, the difficult journey to the place in question is half the story, as in the chapter on Tristan de Cunha.

If you read only one "general" book this year suggested by Listener's Library, make this the one. The chapter on Tristan alone is worth the purchase price... After hearing St. Helena, reading about Tristan was almost too much for the Old Librarian! Thanks to all of you who suggested *Outposts*. It's a KEEPER!

MORE FOR LATIN LOVER'S

Several folks have written recently asking for resource suggestions related to Latin America. One of the best DXers references I know of with station listings, correct addresses, verie signers and recent QSL records is the excellent *Latin American Radio World* prepared by our Latin colleagues Anderson and Barrera, reviewed in June 1990's Listener's Library. I was very impressed with the first edition and understand that a Second Edition has been announced. I do not know of any being received in North America, yet. Any volunteer reviewers for Edition Dos???

The other major publication news related to SWLing Latin America is the recent publication of *Latin America by Radio* by the well known European DXer, Henrik Klemetz. Although I admire *LABR* a great deal, I don't really feel qualified to review such a major work. Luckily, NASWA's own Latin DESTINATIONS editor Don Moore, was kind enough to volunteer an indepth review.

A MUST BOOK FOR SERIOUS LATIN AMERICAN DXERS

Reviewed by Don Moore

Klemetz, Henrik. *Latin America by Radio*. (Espoo, Finland: Tietoteos Publishing Company, 1989. 168p.)

Henrik Klemetz's new book on LAM DXing is clearly the best and most complete tome on that subject yet written. A Swedish DXer, Klemetz has been writing on LAM DXing going back to at least 1973, and has logged numerous miles visiting stations all over Latin America. Without a doubt, he is the "dean" of LAM traveling DXers.

Latin America By Radio is not so much a "how to" book for beginners, but rather a collection of useful information for the DXer who already has some experience in LAM DXing - and a working knowledge of Spanish. The book starts out with some interesting background information on radio's role in LAM. The next chapter looks at how stations identify and the meanings of some station names. The names, however, are not translated, so a dictionary or some knowledge of Spanish is needed.

The value of this book is not as a good armchair read, but in the long lists and explanations useful to the LAM DXer that fill-up the remainder of the book. The topics are too numerous to list here, but include a discussion of regional speech patterns, a long list of common radio advertisers and advertising words, sports words, and formats for time announcements. The section explaining regional music styles lists some of the most popular groups for each style. There is even a brief chapter on QSLing that will teach even the most experienced LAM DXer a few new tricks.

On the negative side, *LABR* has almost no station photos, something I find hard to accept as Klemetz has visited many stations personally. There are a lot of station logos & promotional items as illustrations, but these are common in club bulletins. One list, 17 pages of AM/FM station lists in 17 LAM cities, ostensibly for tourists, is a complete waste of space.

However, the most important drawback to *LABR* is its price tag. Casual DXers may have difficulty justifying the book's \$23.95 cost. But, *LABR* is, without a doubt, a "must have" for the serious and somewhat experienced DXer of Latin American short or medium wave radio stations.

Thank you very much, Don! Personally, given the history of really important hobby references going out of print, I'm gonna buy a copy of *LABR* this month and stock-pile it for when I run out of new Indo stations to hunt. Come to think of it, I may buy two... one to sell to Peter Barr at twice the price a few years from now, hi, hi!

THE CATALOGUE FILE

If you have any interest at all in tube radios, the history of radio or restoring old radios, you simply **MUST** get the catalogue from Antique Electronic Supply of Tempe, Arizona. Each year, their catalogue cover features a framable full color picture of a beautiful antique radio. Inside, they offer very reasonable prices on all sorts of vacuum tubes as well as carrying a myriad of very hard to get supplies for truly antique radios. Their offering of books on the history of radio and on collecting and restoring antique radios is the most extensive that I know. They will be happy to send you a catalogue:

ANTIQUÉ ELECTRONIC SUPPLY
6221 S. Maple Ave.
Tempe, Arizona 85283
Ph: 602-820-5411

NASWAN Gerry Dexter's *Tiare* Publications has published Catalogue #5 with many new offerings. *Tiare* is certainly the most active publishing house focused directly on our hobby. However, they are quietly becoming a multi-dimensional mail order house, as well. They now handle a number of hobby-oriented software packages as well as a number of other rather unique hobby aids. I am purchasing Gerry's new series of *Tiare* InfoCards (a buck a piece for them, if you order at least five) with all sorts of hard find information on them. I'm particularly interested in InfoCard #102 on "Emission Designators." He has another that lists handy FCC phone numbers and locations. (If that local 250 watter on 780 here starts putting out S-9 fifth harmonics again, I'M GONNA KNOW EXACTLY WHO TO CALL!! Great Idea, Ger! *Tiare* asks a very reasonable \$1.00 for their latest Catalogue Number 5. Highly recommended:

TIARE PUBLICATIONS
P.O. Box 493
LaKE Geneva, WI 53147

There will be more from the catalogue file next month, with superb entries from "the Moonies"... Moonbeam Publications in New York and Moon Publications in California as well as several others of note.

MORE ON PROCEEDINGS

For those of you considering buying *fine tuning's Proceedings 1990* or the back issues: FT Special Publications still has a limited number of copies of the 1988, 1989 and 1990 volumes in stock. They each cost \$19.50 plus \$2.00 S & H within North America. When current stocks run out, FT will probably reprint the volumes again. However, since small press runs make each copy cost a good deal more, future reprint prices may have to be raised to the \$25 range. Since each volume is completely different, I will be happy to send any NASWAN an informative flyer and a copy of the Table of Contents of each volume. Please enclose a SASE and mail to my masthead address. If you have been putting this purchase off, you might want to consider acting very soon.

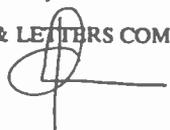
AN INVITATION

The FT crew is already hard at work on *Proceedings 1991*, with another super collection of articles in the works. One of the feature articles will be a compendium of modifications to the NRD 515 and 525 receivers. These will vary from rather extensive internal modifications to simple uses of stick-on dots and velcro to make the front panel of the 525 more comprehensible. If you have made any modifications to either of these vaunted DX machines and would like to share your success/failure with the rest of us, please contact Guy Atkins, 205 SW Clark, #C-4, Issaquah, WA 98027. Rough drafts of submittals will be due to Guy on 31 March 1991. We expect that submittals will vary in length from a few paragraphs to a few pages. No kidding, if you have had some success making these receivers even better, drop Guy a note and get involved.

A BIG THANK YOU!

This rather nutty column has been more successful than any of us ever expected. Your comments to me and to the rest of the staff indicate that most of us like to read almost as well as we like to radio. Further, the contributions to this column have been very high quality and more numerous than we had hoped. KEEP IT UP! Thanks to the leadership of The Journal, we now have a three page Library in most issues. A big THANK YOU to Bill Oliver, Bob Brown, our EinC Harold Cones, and an even larger THANK YOU to each of you out there.

KEEP DOZ CARDS & LETTERS COMING!



NASWA Portraits

Jerry Klinck
43 Lein Road
West Seneca, NY 14224



Hi again! Hope everyone had a great holiday season and were able to cash in on some nights of excellent African DX that we experienced here in December. We were able to log three new countries on the "Dark Continent". Now for the tough part!

This month we take a trip to a fellow NASWAN's home in the beautiful state of North Carolina. He's our "new" Distributing Editor, C. Vernon Hyson and his Shortwave activities date way back to 1952.

"My interest in radio was started by my dad's Philco console which had BCB and SW. However, it had never breathed shortwave until I put a wire on that funny thing called 'aerial' and son-of-a-gun, all sorts of new sounds erupted. Until then, I was an avid listener of Captain



Midnight, Fred Allen, Jack Benny and The Lone Ranger, etc. My first receiver was a Hallicrafters S-38C on which I verified 76 countries. A 5-tube whiz! Now I use an NRD-525, after using a National NC-125, a Hammarlund HQ-100, an Allied SX-190 and a Yaesu FRG-7000. Current accessories are an MFJ959 Tuner/Preamp, and an MFJ732 Audio Filter. I use an inverted L antenna, approximately 35' high and 80' long. I built the T2FD antenna, but still working on the XYL to allow such a monster in the back yard. Because of my work with the county MEDIC, I use a Bearcat 210XL for scanning.

"At times I think I am the only one in the

hobby to use an Apple Computer, having a Laser 128EX clone. I am 54 years old and a commercial insurance underwriter, married to a great lady who does not see any beauty to wires of any type and who still wonders why reception of any stations that I want to hear can't be at a civilized time!

"Some of the pleasures I have had since 1952, when I got serious about this hobby, are meeting and talking with Ken Boord, Grady Ferguson and other old timers of our

hobby as well as contemporaries of my generation such as Berg, Dexter, Jensen (yes guys, WE are becoming the old-timers). I also was on the board of directors of the Newark News Radio Club for two years.

"Other interests include refinishing old furniture, photography, and defying the laws of reason

by playing golf. Currently I have heard 214 countries and verified 203. I think I can be classified as a shortwave listener and a DXer since I enjoy both. While I do have 38 states verified, I am a died-in-the-wool SWBC listener who just dabbles in HAM, BCB and 'pirate stations'. NASWA has been a great help in my hobby activities and I am very happy to be a member and hopefully I can be of help to others through my editorship."

Thanks for the visit, Vern, and yes you certainly are being of help to others. Keep up the fine work.

Thanks to the members who have responded to our call for profiles. We have received several! Till next time, 73.



A Balanced Outlook

One of the most popular antennas in shortwave use today is the dipole antenna, whether it is used as a horizontal dipole, or as an inverted "V," the dipole is an invaluable contribution to the SWL's arsenal of gain antennas. But why go to all the trouble of erecting a gain antenna, if only to lose some of that gain to an imbalanced antenna/feedline situation?

OK. Now that I have you worked up like a snake oil hawker at a carnival, let me preface this column by saying that what will be described here won't be the answer to all your signal capturing problems, and may not even help you at all - depending on your individual situation. But in many cases it will make a noticeable improvement in your overall reception.

The device we will explore is known as the BALUN. The term "BALUN" is short for "BALanced-UNbalanced." This means that the device will match an unbalanced impedance to a balanced one. *Oh!* There's that horrible word *impedance* again! I know, I promised not to use it again for a while. Think of a balanced or unbalanced impedance as a balanced antenna and unbalanced feedline, if you are more comfortable with that. The point is that our favorite antenna, the dipole, is an inherently balanced antenna. Under normal conditions, the current flowing on one half is the same as the current flowing on the other half. On the other hand, coaxial cable - most often used with antennas because of its convenience - is inherently unbalanced. Current tends to flow in greater strength in the outer shield than in the center conductor. Without getting too deeply into impedance and loads, we can assume that energy (signal) is lost when a balanced load is connected to an unbalanced line.

There is something that we can do to make the transition from a balanced antenna to an unbalanced line more efficient - and therefore preserve more of that all-precious signal. We can connect a BALUN between the antenna and the line. And better still, you can build such a BALUN yourself! I'll do my best to show you how.

THE THEORY

A BALUN is a type of transformer. But instead of the transformation of voltage or current levels, this transformer transforms impedances. A look at Figure 1 shows what is actually being transformed.

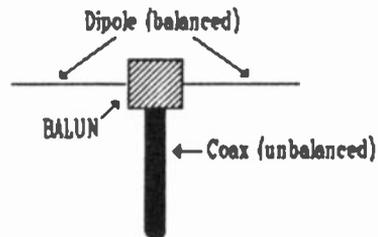


Figure 1 - A BALUN "Balancing"

Here we have a balanced antenna, in which current flows evenly in each half or conductor, and an unbalanced cable, in which more current flows in the shield than in the center conductor. As you can imagine, this transformer is going to have to possess rather unique qualities. First, it will have to use material for its core that will not inhibit the flow of current at the frequencies we are dealing with. Second, it will have to be self-shielding, so it will not waste energy by re-radiating it, or be influenced by outside fields. Finally, it will have to be compact, because we will have to put it at the antenna, and we certainly don't want a heavy coil or

device hanging down from the center of our dipole antenna.

THE TOROID

There exists a special kind of transformer that exactly fits our requirements. It is known as the toroidal transformer, named after the geometric form known as the toroid. This doughnut-shaped form is compact, can be made of materials favorable to high frequencies, and is self shielding. This last feature - that of self-shielding - is due to the fact that windings on one side are opposite in direction to windings on the other side. So the field each winding creates is neutralized by the winding on the opposite side (see Figure 2).



Figure 2 - Cancellling Fields

Not just the core is different in this transformer, though. The way the "primary" and "secondary" is wound is different than in the traditional transformer.

Figure 3 shows the schematic of a traditional transformer. Note that it has a single continuous winding for the primary and the secondary.



Figure 3 - Traditional Transformer

Figure 4 shows the schematic of a toroidal transformer in the 1:1 BALUN configuration. This is the type of BALUN you would use to match a dipole antenna to 52 ohm coaxial cable, and is also the type we will build later.

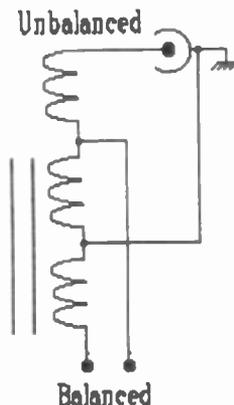


Figure 4 - BALUN Schematic

The schematic shown in figure 4 may strike you as that of an autotransformer - that in which there is a direct electrical connection between the "primary" and "secondary" of the transformer. And you are right. This is a type of autotransformer. But it is not only the way in which the windings are connected. Our BALUN is wound with "tri-filar" windings. Tri-filar refers to the fact that the winding is a single bundle of three separate wires or filaments (see Figure 5).

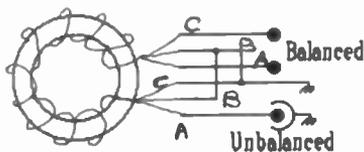


Figure 5 - BALAN Diagram

Obviously, this winding is a little tricky, so you will need to be very careful to keep the strands straight. Some people find it easier to simply wind the bundle first, and then use an ohm meter to sort the individual strands out. This is fine. Note that it is not critical how many windings around the toroid that you take - 4 or 5 turns is fine.

JUST DO IT

To begin making your BALUN, obtain a ferrite toroid (several sources are listed at the end of this column). Anything with a diameter of 3/4" or larger will work - be sure to note the recommended frequency range of each toroid. You

want something good between 1-30 MHz. Then cut six pieces of enameled covered magnet wire (available from Radio Shack) in lengths of about 2 feet. Use 22 gauge wire for maximum strength. After cutting the wire twist the wires together to form a bundle. Then wrap the bundled wire around the toroid 4 or 5 times. You will be passing the bundle through the center of the toroid, then out and around the outside and back in through the center for about 4 or 5 times (see Figure 6).



Figure 6 - Winding the BALUN

Once you have wound the BALUN you should trim the ends to within about 3" of the toroid - just enough lead to work with without getting in the way. Once you have trimmed the leads, use some fine sandpaper to remove the enamel insulation from the last 1/4" of each lead - do this until the lead ends are shiny. Then, if you haven't kept track of which lead is which, or aren't sure, use an ohmmeter to check for continuity of each lead end as shown in Figure 5. You might want to use pieces of tape to label each lead with the same letters as in Figure 5. Then connect the leads that join each other as in Figure 5. Solder each connection for strength. It is important that the connections be soldered, so if you don't feel comfortable soldering ask someone to help you. Select a small plastic box, like the project boxes sold at Radio Shack. Drill three holes in the box, two for the antenna leads and one for the coax. Now pass the two ends of your dipole antenna elements through two of the holes in the plastic box. Solder each dipole element to one of the leads labelled "balanced" in Figure 5. Then prepare one end of your coaxial cable by stripping off about 2" of insulation, and separating the braid from the center conductor. Then remove about 1/4" of center insulation (see Figure 7).

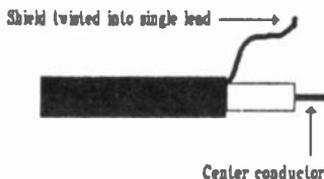


Figure 7 - Preparing the Coax

Pass the prepared end of the coax through the third hole in the plastic box. Solder the center conductor to the lead labelled "A" in Figure 5, and solder the shield to the lead labelled "C" in Figure 5. Now it is best to make the whole thing secure and water tight. You can do this by purchasing some "auto body filler" from any auto supply store. This compound is supplied in two parts, which you mix when ready to use. After mixing the compound thoroughly, pour it into the plastic box. Allow the entire thing to cure for the time recommended on the instructions that come with the filler before you disturb the assembly. Then simply hoist the ends of the dipole up, and enjoy improved reception through science!

VARIATIONS ON A THEME

Earlier I mentioned that the BALUN we were building was a 1:1 BALUN. What did that mean, and are there other kinds? Well, the BALUN we built simply transformed a balanced impedance to an unbalanced impedance. It assumed that the actual impedance of the balanced end was the same as that of the unbalanced end. With a dipole and 52 ohm coax this is the case. But what if we had a log periodic antenna with an impedance of 250 ohms or so. Could we still use our 52 ohm coax with this antenna? Sure! We would use a slightly different wiring scheme than that shown above to yield a 4:1 BALUN. This little marvel would not only match balanced to unbalanced impedances, but at the same time would match 250 ohms to 52 ohms (or at least pretty closely).

What would the schematic look like for this BALUN? Figure 8 shows us.

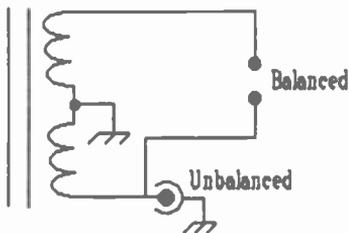


Figure 8 - 4:1 BALUN Schematic

There are, of course, balun arrangements for just about any impedance combination you can imagine. And BALUNS themselves appear where you'd never expect. For example, many of us have a small matching transformer to connect the cable TV signal to the screw terminals on the back of our TV sets. Inside the little cylindrical object that connects the two impedances is a tiny BALUN. It is converting the 75 ohm cable impedance to the 300-600 impedance the TV expects at the screw terminals. Sets with a cable connector already installed have their BALUNS inside them.

SOME OTHER DETAILS

Although it is not a consideration when using a BALUN for receiving only, you might be interested in some other aspects of BALUNS and toroids. Ham radio operators often use BALUNS for matching a transmitter to an antenna with power levels up to 1500 Watts. What factors are important to them? First, the toroid must be very large, so that whatever heat generated by inefficiency of the core material will not collect quickly enough to crack the core. Typical cores for this application are over an inch thick, and several inches in diameter! Also, the material the core is made of is very important. At high power levels, the core of the toroid can actually "saturate." This condition can also occur in traditional transformers, and occurs when the flux lines passing through the material are too dense, and the material in the core - instead of helping the transfer of magnetic flux - actually hinders it. Power is lost in useless heating of the core.

How do they control the material used in making toroids? They mix it, much like cake batter (well, not exactly...).

Powdered iron can be used at very low frequencies, but tends to be very inefficient at shortwave frequencies. For these and other higher frequencies, a special material known as ferrite is used. Ferrite also contains iron, but in the form of a ceramic mixture. The ratio of iron to ceramic, type of ceramic, etc. can be adjusted to obtain exactly the characteristics desired. Whatever the mixture, it is baked and annealed (cured) in special ovens. The it is painted in some color that indicates the material type. Each manufacturer supplies a color chart for their toroids, along with all the technical information needed to select the proper toroid for your application.

TOROID SUPPLIERS

The following is a partial list of companies that supply toroid coil forms by mail. They supply other interesting and useful component as well, so why not request a catalogue from each of them?

Amidon Associates
12033 Oswego St.
North Hollywood, CA 91601

Ferroxcube Corp. of America
5083 Kings Hwy.
Sugerties, NY 12477

Palomar Engineers
P.O. Box 455
Escondido, CA 92025

Radiokit
P.O. Box 411
Greenville, NH 03048

LAST BUT NOT LEAST

From time to time I like to appeal to readers to submit articles to Technical Topics. Not only does this give the column a fresh perspective, but allows an exchange of ideas between NASWA members. I have frequently been impressed by the level of expertise our group shows in many areas. How about putting some of your thoughts, observations, or plans in writing for consideration in this column? You, too, could become world famous (within NASWA)!

Company Store

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



1990's hot sellers are still available at the Company Store.

The Spectrum Log - International Broadcast Band Edition: This expanded version of the original Log was developed by Rowland Archer using Ventura Publisher and a personal computer. The International Broadcast Band edition covers the 49, 41, 31, 25, 21, 19, 16, 13 and 11 meter international broadcasting bands. The Log is 41 pages and costs US\$6.00 plus US\$1.00 shipping.

The Spectrum Log - Tropical Band Edition: This older sibling to the International Broadcast Band Edition is the original version created by John H. Bryant with updated graphics courtesy of Rowland Archer. The Log covers 120, 90, 75 and 60 meter tropical broadcasting bands. This version of the Log costs only US\$2.50 plus US\$1.00 shipping.

The sheets included in The Spectrum Log are intended to be master originals which the user may photocopy for personal use. For those hobbyists ordering both editions at one time, we have a special offer. Order The Spectrum Log - International Broadcast Band Edition and the Tropical Band Edition for only US\$7.50 plus US\$1.00 shipping. The NASWA/Fine Tuning Spectrum Log was contributed to the NASWA Company Store by Rowland and John.

The Propagation Predictor: The NASWA/Fine Tuning Propagation Predictor is designed to help listeners follow propagation trends. It consists of two master 11" x 17" originals to be photocopied. The two page Predictor divides the calendar year into 27 day segments for tracking recurring solar patterns. A highly efficient method for keeping tabs on those WWV propagation announcements at 18 past the hour.

The System: Consisting of four 8 1/2" x 11" originals for photocopying. The System was designed to provide high quality masters to help shortwave listeners track their hobby related information. It consists of four separate one page forms - a Reception Report - QSL Log, a Log Book, a QSL Reports, and a Program Notes form.

The Propagation Predictor and The System are priced to sell at only US\$2.00 each. You can order either item for only US\$1.00 each when placing an order for any other NASWA Company Store item.

WINTER SWL FESTIVAL

The third annual Winter SWL Festival is drawing near (check page 67 of January's JOURNAL for details). Once again, the NASWA Company Store will be there. This year Dave Turnick and I are looking for volunteers to help staff the club table. It's a great way to meet other hobbyists since "everybody" passes the table at some point or other. The pay is terrible but the hours are worse. If you can spare an hour or two, I would love to hear from you. Thanks...and see you at the FEST!

LAST CALL AT 1990 PRICES

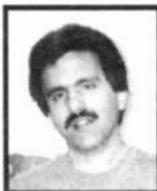
Last month I mentioned about an impending price hike for the clothing line. Next month I will introduce new prices for the entire clothing line (Sweatshirts, T Shirts, Jackets and Golf Hats). However, until the 26th of February you can order at 1990 prices! Let me briefly rundown the entire NASWA clothing line. Our long sleeve sweatshirt costs US\$20.00. The short sleeve T Shirt costs only US\$11.00. The lined Windbreaker Jacket costs US\$24.00. Each item is available in small (S), medium (M), large (L), and extra large (XL). Each item comes in NASWA Royal Blue with the club's logo, in white, appearing over the heart. There is an additional US\$1.00 charge for extra, extra large (XXL) sized T shirts and a US\$2.00 extra charge for XXL Sweatshirts and Windbreaker Jackets. Our Poplin Golf Hat costs only US\$8.00. The above costs include UPS shipping in the United States. Shipping to Canada requires an additional US\$3.50 per item. Overseas members should write for shipping information. We have filled orders for members in Australia and Canada.

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



African Continental DXer (40 African Broadcast Radio Countries)

Walter J. Karcheski, Jr., Holden, MA

Arab World DXer (15 Broadcast Countries with Arabic as the Major Language)

Walter J. Karcheski, Jr., Holden, MA

Asian Continental DXer (30 Asian Broadcast Radio Countries)

Walter J. Karcheski, Jr., Holden, MA

DX Centurion (100 Shortwave Broadcast Radio Countries)

Cris Hazzard, New Hope, PA

Walter J. Karcheski, Jr., Holden, MA

DXer de Pacifica (10 Oceania Broadcast Radio Countries)

Walter J. Karcheski, Jr., Holden, MA

Ecclesiastic DXer (15 Religious Oriented Shortwave Broadcasters)

Rev. William A. Peaks, Buffalo Center, IA

Cary W. Geers, Chicago, IL

European Senior DXer (25 European Broadcast Radio Countries)

Susan Gerberding, Southgate, MI

Master European DXer (35 European Broadcast Radio Countries)

Walter J. Karcheski, Jr., Holden, MA

Master Time Station DXer (20 Time Stations in 6 Continents)

Stephen Canney, Willowdale, Ontario, Canada

Senior DX Centurion (150 Shortwave Broadcast Countries)

Jerry Klinck, Lain, NY

Senior Ecclesiastic DXer (25 Religious Oriented Shortwave Broadcasters)

Sheryl Paszkiewicz, Manitowoc, WI - 45 Station Endorsement!

Walter J. Karcheski, Jr., Holden, MA

Senior Time Station DXer (10 Time Stations in 6 Continents)

Stephen Canney, Willowdale, Ontario, Canada

Walter J. Karcheski, Jr., Holden, MA

South American Continental DXer (10 South American Broadcast Radio Countries)

Walter J. Karcheski, Jr., Holden, MA

World Wide DXer (50 Different Broadcast Countries)

Don-David Lusterman, Baldwin, NY

Award Tidbits

A big welcome to first time Awards Program participants Don-David Lusterman, Steve Canney and Walt Karcheski. Steve's Master Time Station DXer award is only the fourth ever issued. It's a rare one for sure. By a wide margin, Walt was our "big haul" DXer for this month. Fifteen awards/endorsements by 9 different DXers! Nice job by all.

Remember, each award costs US\$2.00 in North America and US\$3.00 overseas (additional overseas awards applied for at the same time cost only US\$2.00 each). Endorsement stickers are available for US\$0.50. International Reply Coupons (IRC's) at a rate of US\$0.50 are also acceptable.

Watch for some new awards to be announced very, very soon!

73 - RAD

NASWA Awards Program: Have you sent in an application lately?

Listener's Notebook

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

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All dates, times and days of the week are UTC (GMT), dates are MM/DD or MM/DD/YY.

It's nice to be back in an editor's seat for WASWA, though Bob Brown exaggerated more than a little with his "chomping at the bit" note. <grin> It's something over 15 years since I served as an editor for WASWA. We'll see if I still have (or finally have?) the editor's touch.

My employer does not object to my serving as a shortwave club editor, but agreed with my suggestion that I include a

DISCLAIMER - Any opinion expressed herein by me is my own, not that of the Voice of America, by which I am employed, but which I here in no way represent. (DF)

AFGHANISTAN - Radio Afghanistan's winter schedule for Europe is 1700-1800 in Pashto and Dari, 1800-1830 in German, 1830-1900 in English, 1930-2000 in French, over three transmitters: 9635 kHz in Kabul, 7215 and 6020 in the USSR. (DXPL 12/29 quoting Edwin Southwell and David Kennedy, British DX Club, via Mike Fern, Covina, CA)

ALASKA - The English transmission from KJLS at 2000-2100 is now carried on 11890, a change from 11700. (RNMN via Harry Riddell via David Clark/ODXA)

ALBANIA - Radio Tirana is soliciting phone calls. The numbers are 232-39 and 243-06. Albania is not on the international direct dialing network. (Jonathan Marks, Media Network, 12/20 via Mike Fern) They've stopped using the "Internationale" as a signature tune. The director of R. Tirana broadcast a New Year's message putting his staff on the side of democracy and soliciting advertising accounts. (RNMN 1/3, via Mike Fern) As the last of the old-guard regimes in Eastern Europe appears to be crumbling, this could make for interesting listening on Radio Tirana. Subject to the announced intention to cut back on certain services (unclear at date of writing), look for half-hour English broadcasts as follows: 2230 on 7215, 9480; 2330 on 9760; 0230 & 0330 on 9760, 11825; and, 0630 on 7205, 9500. (SWLD / RNMN, via David Clark/ODXA & Mike Fern)

The Tirana Home Service relay on 5020 or 5057 kHz has not been heard in the Netherlands for several months. (Andy Sennitt on RNMN, 12/27, via Mike Fern)

ANGOLA - Radio Nacional de Angola has two SW transmitter sites near Luanda, at Mulenvos and Kavenga. 3355 and 7215 kHz, which carry the A program, are at Kavenga. The remaining transmitters are at Mulenvos. (Andy Sennitt, RNMN 12/20, via Mike Fern, Covina, CA)

ANTIGUA - The BBC regards its Antigua transmissions directed to the Caribbean as a shortwave feeder operation, serving about 26 local AM and FM stations. A few of these stations have satellite receivers. Hugh Caskill, producer of the BBC's Caribbean Report, believes shortwave audiences have been declining since the introduction of satellite TV. (Hugh Caskill, interviewed by Jonathan Marks on RNMN 12/20)

ARGENTINA - Radio Belgrano found active in December, usually opening at 1300 and closing at 1900, but extended sked Sundays for futbol. Frequency is 11781. (Jack Jones in Numero Uno)

AUSTRALIA - Radio Australia announced 1/7 at 1300 that they were testing on 25750 kHz from the Darwin transmitter site, daily from 0800-1000 UTC, and requested reports. (John Carson, Norman, OK)

** cf Jan LN, p.29. AUSTMLB, Diggers Rest, NSW, hrd 1/13 at 1552 on 14405. Alternating long dashes & Morse call signs. 810 444, R8T 459. Not hrd here evenings because 14405 is a B MARS channel & a MARS teletype station keeps an idling carrier on freq. AUSTMLB also hrd w/solid sigs on 5470, 7870, 10407 kHz between 0810 & 1500. What at first seems to be interference is actually controlled bursts of square wave pulses, whose purpose I don't know. An addr that might work is Ionospheric Prediction Service, P. O. Box 702, Darlinghurst, NSW 2010, Australia. (Mike Fern, Covina, CA)

AUSTRIA - R.Austria Intl, on 6155 from 1430 in English to 1455; exc sig, strongest Euro on 49 m 12/8, //11780, 13730. (Ernie Behr)

BANGLADESH - Current schedule for Radio Bangladesh: 1230-1300 English (GOS) on 15200, 17750; 1315-1345 Nepali on 7115, 11705; 1400-1430 Urdu on 15255, 17825; 1515-1545 Hindi on 11705, 15255; 1600-1630 Arabic on 11705, 13620, 15520; 1630-1730 Bengali on 11705, 13620, 15520; 1745-1815 English (Voice of Islam) on 9570, 12030; 1815-1900 English (GOS) on 9570, 12030; 1915-2000 Bengali on 9570, 12030. (station via ADXN)

BELGIUM - BRT changes to Africa since 11/11: 0900-1700 (Su) and 1000-1700 (w) on 21815 (ex 21810); 1700-1900 on 15515 (ex 21810)// 17550. (Edwin Southwell & Wolfgang Buschel, via DBWCI)

BOLIVIA - R. Grigota, 4830, *0948-1009, 1/6, finally nailed down ID on this previous UnID. Carrier on 0945, vcl mx opening *0948, ID & TC 0954, "Amigos oyentes de R. Grigota ... 6 minutos para 6 del mañana", in px of uninterrupted mx. Fair sig, tho undermodulated at first. Actually, Tachira threw on their carrier prior to 1000, but Grigota still hrd until Tachira *1009. Been trying for this for 8 years! (Kirk Allen, via NU)
Radio Reyes was heard January 1st on 4409.4 (ex 4422v) at 0120-0335, announcing a schedule of 2200-0330. (SWLD via DMC/ODXA)
R. Eco, 4409.3 kHz, 2315, new Bolivian reported here, location unknown. (John Ekwall, via NU)

BOTSWANA - Radio Botswana has dropped 5954 kHz in favor of the new 9600, at 0530-1530. (Richard Ginbey on RNMN 1/3, via Mike Fern)

BOLIVIA - Radiodifusoras Minería, Oruro, has reactivated on 4985 kHz in June after a long silent period. Manager Jose Carlos Gomez Espinosa says the station welcomes reception reports and will reply promptly. The station uses two 2-kw Collins transmitters on 1290 and 4985 kHz. The schedule is Mon-Fri 1000-1400 and 2030-0200, Sa/Su 1000-2400. Shortwave call is CP213. Address is: Radiodifusoras Minería, Cajon Postal 247, Oruro, Bolivia. (DXPL 12/29, quoting Julian Anderson in Pampas DXing via Mike Fern, Covina, CA)

BRAZIL - R. Nacional da Amazonia, on 6183.2, from 2100 Brazilian mx & ID to 2155*, fair 12/23, //11780 strong. (Ernie Behr)

CAMEROON - Radio Bertoua has been reactivated on 4750 kHz and is usually well heard at s/on 0430. WRTH 90 says 0430-0800 & 1100-2215 w/English 0615-0645 Sun and 1800-1840 weekdays. (Richard Ginbey on RNMN 1/3 via Mike Fern) And at 2230 s/off in French on 4750.2 kHz. (DMC/ODXA)
Radio Garoua has turned up again on 5010 kHz after several years' absence. (Marcel Roberts on R.Nederland Media Network, 12/20, via Mike Fern) [WRTH 90 says Mon-Fri 0455-0800, 1100-1400, 1700-2300; Sa/Su 0700-2300. -- mf]

CHILE - Currently active shortwave stations in Chile:

R. Minería Santiago, 9750 kHz, Mon-Sat 0930-1200, 1530-1800, 2130-2300; Sun 1200-1230, 1300-2300v with sports. Short news bulletins of 5 minutes at 1300, 1400, 1500, 1900, 2000, and 2100 Mon-Sat.

Radio Universidad de Concepcion is now on 6060 kHz (ex 6135) at 1000-2300 daily.

Radio Patagonia Chilena, Coyhaique; 6080 kHz 1100-2300 daily.

Radio Santa Maria, Coyhaique; 6030v kHz, Mon-Sat 0900-0300; Sun 1030-0200.

Radio Esperanza, Temuco; 6090v kHz, Mon-Sat 1300-2000, Sat only 0300-1000.

Radio Esperanza, Comuna La Reina, Santiago; 6815.6 kHz, up from 6812.4. Announces sked as Friday (local day) 2230-0300v, and Sat/Sun 1200-1400.

Radio Triunfal Evangelica, Comuna Cerro Navia, Santiago; on 5825.1 kHz, 2200-0200, except Thursday and Sunday (local day).

Radio Nacional de Chile, Santiago; on 15139.4 kHz, heard daily *0100-0230v* w/religious program "Cristo tu unica Esperanza". Also Sunday from around 1900v. Station says will go inactive on shortwave due to re-structuring of programs and because operation is not "economically productive".

Radio Portales and Radio Agricultura, both in Santiago, and Radio Calama, in Calama, have been inactive on shortwave for some years.

(all above from Gabriel Ivan Berrera, Buenos Aires, Argentina, via Numero Uno)

CHINA - Mid-winter is the ideal time to catch many of the lower frequency provincial stations, especially from the interior. Xinjiang Peoples' Broadcasting Station (located at Urumqi in the extreme north-westerly Province of Xinjiang Uygur) provides a variety of targets. Frequencies in use are adjusted twice per year to reflect propagation conditions and the winter schedule went into effect on November 11th. Here's the rundown, with broadcast periods wherein reception is possible in North America. (Satoru Tauda and Tetsuya Kondo on R-Japan DX Corner / ADXN via DXLD via Mike Fern & DMC/ODXA):

- ** Chinese: 3960, 4500 & 6100 at 2305-0210 and 1030-1650 [PWBR 91 says 2300-0230, 0330-0700 and 1000-1645 -- Mike Fern]
- ** Uighur: 3990, 4735 & 5800 at 2300-0200 and 1030-1645 [PWBR 91 says 2300-0215, 0430-0630, 1000-1645. --mf]
- ** Kazakh: 4330, 4970 & 5440 at 0000-0230 and 1200-1645 [PWBR 91 says 0000-0230, 0530-0700, 1200-1645. --mf]
- ** Mongolian/Kirghiz: 4220, 4980 & 5060 at 2300-0230 and 1130-1645 [PWBR 91 says 2300-0230, 0530-0730, 1130-1645. --mf]

WBI quotes Xinhua news agency to the effect that half of the Chinese people tune to the Central People's Broadcasting Station (CPBS) news service at 6:30 am (2200 UTC) or 8:00 pm (1200 UTC). CPBS will celebrate its 50th anniversary in two weeks.

Fifty years ago CPBS could broadcast only an hour a day from a cave in northwest China's Yan'an. Now with 6 channels, it broadcasts 107 hours daily. The special service for Taiwan broadcasts 37 hours daily. [Not clear if the 37 hours is part of the 107 hours. --df]

Says further that in China "every 2.5 persons owns a radio set or transistor set"; that "CPBS has tried hard in recent years to modernize its equipment and update its traditional services. As a result, more listeners are drawn back from soap operas on TV."

"Sources from the radio station said that next year, CPBS will increase its broadcasting time to 130 hours a day with seven channels. The news on radio will be more updated, service programmes will be closer to life, and music will be more pleasing to the ear, they added. (WBI 12/21/90) [And all the children will be above average? --df]

COLOMBIA - Radio Santa Fe, Bogota, has returned to the air after several years; widely heard on 4965. Initial reports showed some irregularity in operation, but now seems more regular and again appears 24 hours. (Dave Valko, Bill Sparks, et al, in NU)

COMOROS - The Comoros shortwave transmitters on 7260 and 3331 kHz listed in WRTH 90 have not been heard in Nairobi, Kenya for at least a year. The 1089 kHz MW channel is well received after sunset local time. (DXPL 12/29, quoting Chris Greenway, Kenya, in British DX Club "Communications" via Mike Fern, Covina, CA) [WRTH 91 has picked up on this and lists the SW transmitters as inactive. -df]

CONGO - LVRC Brassaville on 5985, from 2100 with hlife mx & French annts, 2200 English news, 2218 more mx to 2250; fair w/RPE QRM 12/19, //4765 strong & clear. This is the UNID on 3265 in Dec LN, p 37. (Ernie Behr, Kenora, Ontario)

COSTA RICA - A series of earthquakes struck southern Costa Rica just before noon local time on Saturday, December 22. According to a brief Radio for Peace International broadcast monitored December 24, the epicenter of the largest quake was 5 to 15 km from the RPPI site. The transmitters are all right but the studio is another matter. Electric power is not reliable yet. Telephone service is expected to be out until December 30. RPPI's broadcasts on 21565, 13630, and 737 kHz will be irregular for the time being. (Michael Schwartzinger, Ohio, on RNHM 12/27, via Mike Fern, Covina, CA) RPPI had planned to start an expanded schedule in January: Mon-Fri 2000-0030, then repeated twice until 0930, Sa/Su 1800-0030. One, two, or all of the three transmitters may be used. The new World of Radio schedule would be Fri 2100, Sat 0130, 1920, Sun 2230, Tue 2330, Wed 0400 & 0830. (All times approximate.) (Glenn Hauser, SWL Digest 12/29, via Mike Fern, Covina, CA)

AWR - Radio Lira International has acquired four additional transmitters (2 X 50 kW and 2 X 20 kW) which were to have been installed in January. Expanded coverage on the 25, 31, 49 and 60 meter bands is planned. (World of Radio via DMC/ODXA)

Radio Reloj on new 4839.5 (ex 4832) from 0130 SP nx & mx, 12/16; good; // 6005.5 in QRM. (Ernie Behr)

DENMARK - R. Denmark, via R. Norway, 15175 & 11870, both USB, from 0530 in Danish to 0555*; v'y strong 12/16. Also using USB at other times. Are all RN & RD bcsts now 888? (Ernie Behr)

DOMINICAN REPUBLIC - Radio Barajona, a new station being heard on 4930, although the transmitter - said to be 5 kW - suffers from modulation and hum problems. Check for this in the evening from 2330+ to closing about 0330 or about 1000 in the mornings. (John Fisher et al in Pine Tuning)

The owners of Radio Variedades (970 MW) in La Vega are said to be planning future shortwave operations on 3205, 4980 and 6190. (WOR via DMC/ODXA)

ECUADOR - I heard a promo on HCJB for a new broadcast/program to the Middle East in English, "Quito Calling," Saturdays and Sundays at 1630, 21480 kHz. "Upbeat and uplifting programs." On the night of the outbreak of the Gulf war, HCJB did quite a bit of live news coverage and reports on the situation, but they did not abandon their religious messages entirely. (Kim Andrew Elliott)
HCJB has moved its Russian morning programs (0230-0430 from 9660 to 6205 kHz. The Uzbek program (0145-0200) remains on 9660. (Heard 12/28-31, Mike Fern, Covina, CA)

Additions to the Ecuadorian Country Survey broadcast 12/15 (see Jan LN, p.32): 3270, Ecos del Oriente, Lago Agrio, recently reactivated, hrd 1150 11/20 w/local news; full ID is "Ecos del Oriente es la Mejor Companera". Another slogan is "Desde Tupingi a Lago Agria, la Radio Via en Ecos del Oriente." 3325, Ondas Quevedenas, Quevedo, recently reactivated, hrd the week of 12/16 for the first time in a few months, at 1146 w/local & district news. ID is "Ondas Quevedenas y estero sonido", which indicates they have an FM outlet as well. (Rich McVicar, DXPL 12/22, via Mike Fern, Covina, CA)

EGYPT/KUWAIT - "Voice of Kuwait" to be launched from Cairo "soon" (WBI, 12/21/90) Egypt has made its 1107 kHz MW xmtr available to an exiled R. Kuwait, 1800-2100. (WBI via SCDX 1/15 via Mike Fern)

EQUATORIAL GUINEA - R. Africa on 7190.45 most days since 12/7, from 2000-2300*v, 12/21 to 2320*. Some days still on 7188.7v. V'y strong sig, maybe new hi-power xmtr. (Ernie Behr) Radio Nacional has returned to 5004 kHz after a period of instability, when it was on 4793 kHz. (Richard Ginbey on RNMN 1/3, via Mike Fern)

ETHIOPIA - Monitoring research 11/6-12/17/90: The Voice of Ethiopia's domestic service from Addis Ababa has been heard on 9706.4 kHz // usual outlets of 7110, 5990 and 873 kHz since 11/6/90. For a while after first heard, the use of 9706.4 kHz was irregular, with the transmitter sometimes off the air or carrying music rather than normal programming. Now, however, use of this frequency seems to have become regular. Although off-channel, the transmitter's frequency is stable. (WBI, 12/21/90) Hrd on new 9706.4 // 7110, from *1458 w/IS, local lang & mx to 1600 f/o. Also from *0328 w/IS & domestic svc to 0400, both fair 12/16. (Ernie Behr) Sked is 0330-0600, 0900-1000, and 1500-2000. (RNMN via Mike Fern & DMC/ODXA)

FRANCE - RFI is poised to begin a major upgrade and expansion of its short wave broadcast capability. Twelve old domestic 100 kW transmitters are to be replaced by sixteen 500 kW units. Another 500 kW transmitter is to be added at the French Guiana relay site, making 5, and two new relay sites are to be established, each of which will be equipped with three 500 kW transmitters - one in Thailand and the other at an unspecified location in East Africa (Comoros was being considered at one time but Djibouti is a more probable candidate /dmc). Each relay station will have three 500 kw shortwave transmitters. RFI plans to start a service in Parsi for Iran. (RNMN via Mike Fern & DMC/ODXA)

GREECE - Current Voice of Greece sked:

0000-0350 GK to Eur/Am on 9395, 9420, 11645 (English 0130-0140 Mo-Sa)
0400-0500 GK to ME on 9425, 9935, 11645
0500-0615 GK to Eur/ME on 7430, 9395, 9425 (Turkish 0600-0610)
0630-0730 GK to Eur on 7430, 9425, 11645 (Italian 0715-0730)
0800-0850 GK to ANZ on 15650, 17535 (English 0840-0850)
0900-0950 GK to Azores on 11645, 15650
1000-1050 GK to Asia on 15650, 17535 (English 1040-1050)
1100-1120 TK to Eur on 9800, 11645
1130-1150 AR to ME on 9800, 11645
1200-1250 GK to Eur/Am on 15625, 15650, 17535 (English 1235-1245)
1300-1350 GK to Afr on 11645, 12105, 15650

1400-1450 GK to C.Asia on 11645 (Russian 1435-1440)
 1400-1450 GK to ME on 12105, 15650 (Arabic 1435-1440)
 1500-1550 GK to Eur/Am 11645, 15650(not Tu), 17535 (EG 1530-1540 SW 1540-1550)
 1600-1620 GK to Eur on 9395(not Tu), 9425, 11645(not Tu)
 1620-1630 Albanian to Eur on 9395(not Tu), 9425, 11645(not Tu)
 1630-1645 Serbo Croat to Eur on 9395(not Tu), 9425, 11645(not Tu)
 1645-1700 Bulgarian to Eur on 9395(not Tu), 9425, 11645(not Tu)
 1700-1710 Romanian to on 9395(not Tu), 9425, 11645(not Tu)
 1715-1755 GK to USSR/Pol on 9425, 11645(not Tu), 12105 (RU 1725, PO 1740, GK 1750)
 1800-1850 GK to Afr on 11645 (not Tu), 12105, 15650(not Tu) (English 1840-1845)
 1900-1950 GK to Eu on 7430, 9395 (English 1920, FR 1930, GW 1940)
 2000-2050 GK to Eu on 7430, 9395 (AL 2003, SC 2015, BU 2025, RO 2035)
 2100-2150 GK to ANZ on 7430, 9425, 11645
 2150-2250 GK to ANZ on 11645
 2200-2300 GK to Am on 9425, 12105 (PT 2215, SP 2230, English 2245)
 2300-2350 GK to Am on 9425, 11645, 12105 (SP 2330-2340)
 (WBI 12/21)

HONDURAS - Sani Radio was recently reported to be active again on 4755 kHz; heard until 2400 s/off. (8WLD via DMC/ODXA)

INDIA - Just when we thought AIR, Port Blair (Andaman Islands) was a "sure bet" on 4760 (subject of course to co-channel interference from Yunnan PBS, Kunming), a recent sked now has Radio Kashmir, Leh (in the northernmost State of Jammu and Kashmir), back on this frequency and 3330 kHz dropped for a MW outlet. Sked is 1130-1630, whereas Pt. Blair usually opens several minutes before 1200 (contrary to their published schedule).

Radio Kashmir (Leh) is the one likely to be heard for the remainder of the sub-continental season (another mid-winter target from this state is Radio Kashmir, Srinagar, on 3277). Back to 4760 - Port Blair will tend to show up after mid-February as we move closer to the equinox. (Kanwarjit Sandu via Universal DX League / dmc)

The rarely reported Azad Kashmir Radio, Muzaffarabad, uses 1 kW on a frequency which has been known to vary anywhere between 3655 and 3665 kHz. Cedric Marshall and I THINK we have logged this on several mornings in the last days of December and early January during better sub-continental openings on 3662.7/8. The timing of the brief signal peak and the sketchy program contents that we have been able to pick out certainly do "fit". It sure would be nice if we could substantiate these loggings! (David M. Clark, Ontario/ODXA)

There is a new AIR station on the air from Gorakhpur. Unfortunately, it's not going to be heard in North America, at least not just now. It started operating in December, replacing a Delhi transmitter for the 0700-0800 transmission in Nepali on 7110 - but that's a mid-day broadcast! (8WLD via DMC/ODXA)

Here is the complete schedule for AIR's External Services in English, valid until March 3/91 (per Manoj Guha via Universal DX League):

- * 1000-1100: on 15050, 17865 & 21735 (to NE Asia); on 15335 & 17387 (to Aus/N. Zealand)
- * 1300-1500: on 9565 & 11760 (to SE Asia) + announced 15335
- * 1800-2000: on 11935 & 15360 (to E Africa)
- * 1845-1945: on 7412, 9950 & 11860 (to W Europe)
- * 2045-2230: on 9730 & 11620 (to W Europe); on 9910, 11715 & 15265 (to Aus/N. Zealand)
- * 2315-0130: on 9535, 11745 & 15110 (to SE Asia); on 9910 & 11715 (to NE Asia)

INDONESIA - Marconi will supply RRI (Radio Republic Indonesia) nine 250-kW transmitters to improve nationwide radio transmission. Transmitters to be at Cimanggis in West Java & Ujung Pandang in South Sulawesi. (WBI 12/14/90)

-- The Voice of Indonesia has become very unreliable on 25 meters (11752v and/or 11784v) since November. At present, the best chance to log Indonesia above the Tropical Bands is the RRI Jakarta outlet on 9680. Sometimes a very strong carrier is present with very low level audio - but when things are working properly, it can be heard easily for an hour or two past sunrise, usually with very enjoyable selections of EZL lagu/pop songs in the period after the news at 1300, until 1400. (David M. Clark/ODXA)

-- RRI-Ambon, stable on 4845.3 for the past year or two (but usually buried by a ute), moved up to 4864 in December [and still on 4863.9 in early January /dmc]. John Bryant confirms the site, having heard a local ID before 1400 news. (Craig Edwards in Australia via 8WLD / Bryant via DMC/ODXA)

-- RRI Gorontalo, Sulawesi, 3264.7+, at 1207 mixing w/RRI Bengkulu (on 3364.8). One with possible Jakarta nx by man (think Gorontalo); the other w/ talk by W. Difficult to

differentiate at almost equal levels & within about 50 Hz of one-another. Gorontalo gone at 1232 re-check (presume usual 1230*, leaving Bengkulu fair/clear. Gorontalo infrequently hrd here. 1/2. (David Clark)

INTERNATIONAL WATERS - Lithuanians may soon be able to receive news from an offshore station on a ship in the Baltic. According to a group in the Netherlands, the station could be on the air within two months. The station would be patterned on Radio Free Europe and broadcast only in Lithuanian. (SCDX 2124, 1/15/91)

** The Voice of Peace, transmitting from a ship off the coast of Israel, was planning to begin operating on shortwave by Christmas Day, using a 500 watt homebrew transmitter on 6265 kHz. (DXPL via DMC/ODXA)

IRAN - VoIRI on 6030.36, from 2030 Spanish to 2129, good 12/16, but causing het., //9022 weaker. (Ernie Behr)

IRAQ - Iraq's Voice of Peace, aimed at the American soldiers in Saudi Arabia, has been heard on a new frequency of 15505 kHz, actually one of Kuwait's 500 kW transmitters. (SCDX 2124, 1/15/91) The Radio Baghdad 2100 English xmsn on 13660 was still being hrd in the US early Jan & hrd in Eur 1/9. (John Barnes & J Marks, RNMN 1/10 via Mike Fern) Went looking for Baghdad's expected 0230-0430 xmsn on 11830 to NA the night the ultimatum ran out (1/16). Hrd instead "Spiridache Radiostantsi Golos Andes, & it was different pgm from 6205 kHz. (Mike Fern)

ISRAEL - As soon as I heard about the first Iraqi SCUD attacks on Israel, about 0020 on 18 January, I tuned to the Kol Israel home service on 9388. They were broadcasting music, which ended abruptly. After a few seconds, then was a siren-like sound followed by two tones. A few more seconds of silence, followed by a clam announcement in Hebrew, then in English, advising listeners to proceed to sealed rooms and put on their gas masks. Instructions on how to put on the gas masks were given. There were several later announcements in English (take off gas masks, put gas masks back on, etc.). Later, during the regular English broadcast at 0200 heard very well on 7465, also broadcast domestically in Israel, the announcer told Israeli listeners that they can take the gas masks off, but to stay in sealed rooms and to keep listening to the radio. It is often advertised that one can "hear news as it happens" on shortwave. This doesn't really happen all that often, but it certainly did this night. On 23 January, 2230, Kol Israel's English broadcast included a dramatic recording, made by one of their correspondents, of the deadly SCUD missile attack of that night. (Kim Andrew Elliott)

The Voice of Israel and Israel's IDP Radio have prepared for emergency broadcasts. According to a report from Tel Aviv relayed by BBC Monitoring, the moment a state of emergency is declared, the two stations will merge into one network, to be called the National Broadcasting Center. (SCDX 2124, 1/15/91)

ITALY - The Voice of Europe is planning to move from 7538 (1 kw) to 13710 where a 10 kW transmitter will be in use 24 hours daily. (PlayDX via DXPL via DMC/ODXA)

JAPAN - Present sked of R. Tampa: 1st pgm 2020-1730 (8a -1630, 8u -1545) on 3925 (10/50 kw), 6055 (50 kw), 9595 (50 kw). 2nd pgm 2300-1300 on 9760 (to 0640, 50 kw), 6115 (to 1000, 50 kw), and 3945 (10 kw). Address: Nihon Shortwave Broadcasting Co., Ltd., 9-15 Akasaka 1-chome, Minato-ku, Tokyo 107, Japan. Tel 81-3-3583-8151. Tampa Net (Personal Computer Service): 81-3-3583-3522. (Yukimasa Matsushita via J8WC) [Differs somewhat from in WRTH-91. -df]

JORDAN - Richard Langley tells us that Radio Jordan's English language broadcast on 13655 kHz is supposed to start at 1200, but sometimes the switch over from the domestic Arabic service is as late as 1232. The frequency changes to 9560 kHz at 1415, which takes from 3 to 5 minutes. English continues until around 1730. There are news programs at 1200 and 1700 and 3 minute news summaries at 1400 and 1600. (SCDX 2124, 1/15/91)

KENYA - The easiest frequency to hear the Kenya Broadcasting Corporation (formerly Voice of Kenya) is 4934 (sometimes 4935) from 0200 a/on; but in the afternoon, you might catch them up to 2114 a/off under co-channel VOA on 6150 kHz. (8WLD via DMC/ODXA)

KOREA (South) - R.Korea seems to have dropped English to S.Asia on 9570 at 1400-1500. Indonesian at 1500 still on the air. The 0600-0700 English to NA is being heard on 9570 & 11830, but signals are weak to fair & subject to QRM from VOA on 9575 & 11835 kHz. (Mike Fern, Covina, CA)

LAOS/USSR - Vientiane's External Service in French to Europe at 1100-1130 is now broadcast on 11870, 11960, 15190, 15420. These transmissions are carried over Radio Moscow transmitters in the USSR and thus can not be counted as Laos for purposes of logging radio countries. (RNMN via Riddell via DMC/ODXA)

LEBANON - Probably Voice of Hope on 6279.2 12/16 from 1430 w/EG rel pgm to 1500 f/out. Also 12/23 from 2130 EG rel pgm & unID NA to 2201*; and 6280 kHz & addr in Calif & England; weak. Again 12/27 from *0500 w/AR pgm. (Ernie Behr)

LIBERIA (or Nigeria) - New station on 7275 hrd 2200 w/Afro & pop mx, 2255 English news from Nigeria, unID NA to 2300*; fair sig 12/21 & 23, but low, distorted audio; new Nigerian Forces station reported here, but from where? for troops in Liberia? (Ernie Behr, Kenora, Ontario) - A mobile shortwave transmitter provided by Nigeria was put on the air on November 15th by the multi-national African peace-keeping force, with the station calling itself "ELBC" (the former government-operated ELBC has been off the air since July due to the civil war). Earlier reports had indicated this station would be called Radio Liberty-Monrovia. Operations may not have been on a regular basis but it was heard by Al Quaglieri on December 30th, signing on at 0759. (8WLD via DMC/ODXA)

ELWA - By July 1 the rebels were five miles from ELWA. 7/3 300 took refuge on ELWA Hospital grounds. The ELWA Academy gym was opened as a shelter. The next day there were 1000, two days later 4000. 7/5 SIM (Sudan Interior Mission) Area Director John Shea ordered ELWA to end its multi-language broadcasts early. The next day was the first day that the station was silent all day in its 36-year history.

In the next few days top priority became housing, feeding and security for the 22,000 refugees in ELWA facilities. By 7/21 there was firing all around & the missionaries could not operate the clinic because of the gunfire. By 10 am 7/21, Taylor forces entered ELWA facilities as church services were beginning for the refugees. Invaders agreed they would not harm refugees as long as they stayed on the compound; otherwise they'd be shot. 7/22 a commander brought 10 bags of rice & promised hundreds more the next day. He also ordered ELWA back on the air so Taylor could address the nation.

As fighting intensified missionary & national leader asked the Patriotic Front commander for safe passage through his territory. Permission was granted. Missionaries remained behind to evacuate 20 patients from the hospital. On 7/27 Patriotic Front leaders ordered 5 missionaries to return to the radio station and put it back on the air so Taylor's men could broadcast a tape Taylor had made. The next day all SIM missionaries left Liberia. Two days later ELWA was severely damaged by rocket fire. Latest reports confirm that the studio and transmitter buildings were destroyed, burned beyond repair. The hospital, however, can be repaired. ELWA -- the continent's strongest Gospel radio voice -- after 36 uninterrupted years of broadcasting -- is now quiet.

SIM has plans to return to Liberia with its academy, hospital and radio station. The first step to reestablish the radio ministry is to purchase a low-power FM transmitter. Then, when it is safe to go back, the FM station will be carried on the plane to Monrovia. (Marlin A. Field, Hillsdale, MI, on publications of SIM)

MALAYSIA - Over the course of the past year, Radio Malaysia has been expanding its air-time on the six main domestic radio networks. Radio 1, 4, 5 and 6 each has a shortwave outlet. Here is the current schedule (South East Asia DX News via DMC/ODXA):

- * Radio 1: in Bahasa Malaysia on 5965 - 24 hours daily
- * Radio 4: in English on 7295 at 2200-0100, 0500-0600 & 0900-1600 (Mon-Thurs);
2200-1600 continuous (Fri-Sun)
- * Radio 5: in Chinese on 6025 at 2200-0100, 0200-0600 & 0700-1600 (Mon-Thurs);
2200-1600 continuous (Fri-Sun)
- * Radio 6: in Tamil on 4845 at 2100-0100, 0300-0700 & 0800-1500 (Mon-Thurs);
2100-1500 continuous (Fri-Sun)

MALI - The Mali transmitter which relays Radio Beijing on 11715 kHz sometimes has rough AC parasitics on 11655 & 11775 kHz from about *0000-0400. I heard them in the spring of 1990, but didn't connect the parasitic on 11775 with 11715 until Bruce MacGibbon pointed out that the Beijing transmitter on 15100 was in Mali, not mainland China. (Heard 12/28-31, Mike Fern, Covina, CA) In Spanish 1/13 2255-2330 on 11790, strong raw A(C spurs on 11730 (interfering w/RCI SWL Digest) & 11850. (Mike Fern)

MAURITIUS - unID station on 4855 at 1730. This used to be Mauritius B/C frequency. Light music and talk in an Indian language which is spoken on Mauritius and which is Ron's wife's native tongue. Mauritius has also used 9710 kHz. (DXPL 12/29, from Benelux DX Club, quoting Ron Abo, via Mike Fern, Covina, CA) ... I suppose anything is

possible but checked 4855 and 9709.4 between 2000 and 2200 for their traditional extended transmission on New Year's Eve - nary a whisper! (David M. Clark)

MEXICO - XEOL Radio Mil, on 6009.94, 0200 LA pops & IDs to 0500, strong 12/16. XEUW, LV de Vera Cruz, on new 6016.25, from 0200 Spanish ads & pop songs to 0500, fair 12/19; few days letter on 6016.7; much weaker than old 6020. (Ernie Behr)

MONTSERRAT - Radio Antilles has salvaged its 20 kw transmitter & is testing on 930 kHz. Reports wanted to P. O. Box 35, Montserrat, West Indies. Connie Osborn, acting mgr of the stn says they've been negotiating w/BBC & should have a 100 kw xmtr by early 1991 to carry the Caribbean program, and to sell time to international broadcasters. Negotiations over "housekeeping money" are continuing. He also expects a contract with the Voice of America for three hours a day. (RNMN 12/20 via Mike Fern)

MOZAMBIQUE - Radio Mozambique has been conducting tests on 17730 often, as a replacement for 11819 kHz. Hours of operation are somewhat flexible. (R.Ginbey on RNMN 1/3 via Mike Fern)

NAMIBIA - The Namibian B/C Corp has increased the National [English] Service's air time & introduced hourly news bulletins. Current sked is Mon-Fri 0405-0600 on 3270 & 3290; 1500-1605 on 7165 & 7190 kHz; plus news at 0700, 0800, 1000, 1100, 1200 & 1300. Also 1900-2000 on 3270 and 2000-2200 on 3270 & 3290 kHz. Educational pgms on 3290 1900-2000. The pgm "Night Shift" continues at 2200-0330 (Sat 0400, Sun 0500) on 3290. The Afrikaans Service has its own 30 minute early morning pgm weekdays 0330-0400.

On 11/5 the English Svc introduced a new interval signal, marked by bird calls, xylophones and guitars.

The English Service is to go on shortwave full time shortly, probably using 3290 & 7190 kHz, which (now?) carries Afrikaans & German.

It's widely reported that the ruling SWAPO party would like its own radio station. The equipment, including transmitters, from the old Voice of Namibia station in Lubango, Angola, is reportedly in storage in Namibia. (Richard Ginbey on RNMN 1/3, via Mike Fern)

NEPAL - Radio Nepal finally started putting in an appearance on their winter frequency, 3230.1 (replacing 7165.3) in late December, //5005. More often than not, the 90mb channel is blocked (at least in Ontario) by a very strong utility carrier about 400 Hz lower.

On December 24th, there was an unusually late opening on 60 meters when Nepal, Bhutan and Bangladesh were still being heard well after 1330. The unique aspect about this was that Cedric Marshall and I noticed that reception was clearly superior on a terminated NW Beverage antenna which has always been our "antenna of choice" for PNG signals (at a bearing of 300 degrees). Two days later on the 26th, Guy Atkins tells me that he had a good log of Nepal-5005 using his 'Farley Loop'. Guy noticed that "the signal nulled close to due North, which would have put the plane of peak signal around 270 degrees - this points right at PNG from my West Coast [Seattle] location!"

The common denominator in all of this is that a Polar Cap Absorption Event began on December 23rd and lasted until the 27th. (Normally, this would have severely inhibited propagation of signals on a great circle path in the general direction of the sub-continent.) This suggests that our mutual loggings within this time frame were probably the manifestation of a rather dramatic example of a "bent path", since the signal must have skirted around the entire polar cap and surrounding northern auroral zone and hooked across the darkness side of the earth. Fascinating! (Guy Atkins / David M. Clark)

NETHERLANDS - As from Jan 15, Radio Nederland will have a new QSL card available titled "Faces Behind the Voices". The group photo of the English reception from Radio Nederland. (Media Network, 12/27, via Mike Fern, Covina, CA)

NEW ZEALAND - Radio New Zealand International may be in a fight for its life. On 1/6, BRT Radio World said the Radio New Zealand International was the target of funding questions due to the large number of breakdowns with its new 100 kW transmitter. Breakdowns had reportedly occurred over 60 times. (John Carson, Norman, OK)

RNZI on January 14th moved the 16 meter frequency moved back up to 17770 [presumably it was determined that Soviet QRM was no longer a problem on this channel] from 17675 with same sked as given in January LN. (Harold Sellers & DMC/ODXA)

Two interesting programs are Tony King's 'Mailbox' at 0330 on the 1st and 3rd Mondays of the month, and 'Travel Pacific' at the same time on the 2nd and fourth Mondays. (RNZ Int'l schedules via Harold Sellers/ODXA)

Tropical Band DXers should be on the lookout for Print Disabled Radio, ZLXA-3935, Levin, which was to return to the air on January 22nd. A weekday transmission has been added on Tuesday at 0530-0900 (same time as for Monday/Wednesday/Thursday) and there are plans to broadcast on Friday as well. The Sunday broadcast continues at 0500-0800. (Arthur Cushen's DX World via DMC/ODXA)

NICARAGUA - Radio Nicaragua (no longer called Voice of Nicaragua) expects to be back on shortwave early in 1991. They have registered with the ITU to use 5950 kHz with 50 kW.

Two other private operations have plans to go on shortwave too. One is Radio Nicaragua International which is not affiliated with the government. The other is Radio REKA ("Radio Informaciones de Centro America") which is planning to use 10 kW on 4920 kHz. One factor which may affect the viability of these plans is the very high cost of electricity in the country. (RNHN via Riddell via DMC/ODXA)

NIGERIA - Text of AN/PANA report from Lagos ... The Nigerian Minister of Information, Chief Alex Akinyele, has declared illegal all satellite dishes for monitoring foreign broadcasts outside those owned by the Nigerian Television Authority (NTA). Answering questions from newsmen at a ministerial briefing in Lagos Friday [14th December], he said the issue was seriously considered at the last meeting of the National Council on Information (NCI) in Lagos two months ago. The minister noted that the proliferation of such dishes posed a great challenge to the nation's cultural development, adding that youths were being infested with a lot of cultural alienation. Chief Akinyele disclosed that the Federal Government was studying the situation and would make a policy statement on the issue. On private ownership of broadcasting organizations in the country, he explained that licenses would be granted as soon as the government deemed it fit to do so. (W8I 12/21/90)

NUMBERS STATIONS - Tim Tyler has reported to CompuServe that there has been a large increase in the so-called numbers broadcasts aimed at spies, especially in the 7 MHz band. Transmissions Tim says are attributed to Israel's Mossad intelligence agency have been more active on 9251 kHz. (SCDX 2124, 1/15/91)

PARAGUAY - Radio Encarnacion, using 500 watts on 11945, is being heard in Europe at 2259 as RCI signs off. (RNHN via Mike Fern & DMC/ODXA)

SAUDI ARABIA - BSKSA (Broadcasting Service of the Kingdom of Saudi Arabia), sked to 3/3/91:

** Arabic Foreign Service: 0300-0830 on 7280, 9720; 0500-1100 on 15140, 15435; 1000-1500 on 7220; 1000-1700 on 6000; 1100-1700 on 21505; 1500-1700 on 11780; 1700-2000 on 7150; 1700-2130 on 9870; 2000-2300 on 7210; 2130-2300 on 9705, 9720, 9885.

** 2nd Program: 0300-1700 on 9570, 1700-2100 on 6020.

** Holy Quran: 0600-0800 on 11730, 21505; 0800-1000 on 21505, 21670; 1000-1400 on 15170; 1500-2100 on 7250; 1900-2100 on 7275, 11935.

** English is scheduled 1600-2100 to Europe & North Africa on 9705 & 9720 kHz.

(Bob Padula, via ADXN)

The Broadcasting Service of the Kingdom of Saudi Arabia announced 1/9 it would begin 24 hours operation. Affects primarily the Arabic language programs, which used to shut down 2300-0300. External Svc listed 1600-2100 on 9705 & 9720 isn't making it into Northwest Europe. RNHN 1/10, via Mike Fern) But is getting to ECNA. (df)

SOUTH AFRICA - The Radio RSA schedule, effective till March 2, 1991:

0400-0500	ENGL	to ECS Afr	11900, 7270
0400-0700	FREN	to CW Afr/Ind Oc	17815, 15365, 15120
0500-0600	PORT	to Angola, Mozambique	11925, 7230
0900-1000(Sa/Su)	Tsonga	to So. Mozambique	9585
1100-1200	ENGL	to ECS Afr	17835, 11900, 11805, 9555
1400-1700	Swahili	to E/C Afr	15365
1500-1800	Lozi	to Caprivi & Zambia	7270
1500-1800	ENGL	to ECS Afr	15270, 7230
1700-1800	ENGL	to W.Afr	17790
1600-1800	Chi-Chewa	to Malawi, Zambia and Mozambique	5960
1800-1900	PORT	to Mozambique	7230
1800-2000	FREN	to W/C & So. Afr	17745, 15365
1900-2100	PORT	to Cape Verde & Angola	11950, 9570

(Radio RSA via John Carson, Norman OK)

SRI LANKA - The Radio Japan relay at Ekala was to begin operating 1/1. English scheduled to S.Asia at 0100-0200 on 11840, at 1400-1500 on 9535; to the Middle East and North Africa at 1700-1800 on 15210 kHz. No other transmissions were mentioned. (Radio Japan DX Corner, 12/22 via Mike Fern) According to the Director General of NHK, Katayama, NHK has increased its total daily output by 2-1/2 hours. NHK hopes to introduce Persian language broadcasts in April. At present NHK is using only one Ekala transmitter at a time, but both are being used. (Victor Goonetilleke on RNMN 1/3 via Mike Fern)

- Four 10 kW transmitters provided by NHK Japan for the SLBC's domestic services went into operation at the Ekala site in late-November or early December. Listed frequencies are: 4870, 4902, 4940 and 5020. [Except for one tentative logging on 4870, you'd have a hard time convincing me that these guys are on the air...perhaps they're only running very low power during the break-in period? /dmc]

Soon, if not by the time this reaches you, the SLBC's own External Services should be making use of the new facilities too. Perhaps in anticipation of this, I noticed that the World Service which had been running from 1835 to 2000 on 15120 was missing in late December and the early days of January. (R.Japan DX Corner / 8CDX / RNMN via Riddell / DMC/ ODXA)

SWEDEN - Latvia's Vice President Dainis Ivans is in Stockholm, where he's been talking to Radio Sweden about broadcasts from here to Latvia should Radio Riga be occupied by Soviet forces. Radio Sweden broadcasts in Latvian for 15 minutes at 19:45 hrs on 1179 and 5975 kHz. Estonian is at 19:30 hrs. The Latvian Vice President wants the Radio Sweden Latvian broadcasts increased to half an hour a day.

On Tuesday, the Swedish Foreign Ministry allocated funds for increased contact with the Baltic region. That includes money to Radio Sweden to begin broadcasts in Lithuanian, at 0 least during the current crisis period.

Beginning January 16th (or whenever hostilities may begin), Radio Sweden will have the following schedule to the Middle East: 0130-0200 Swedish on 9765; 0500-1200, 1300-1330, 1430-1500 in Swedish, 1500-1530 in French & Spanish, all on 21600; 1530-1600 & 1700-1730 Swedish on 11880; 1800-1830 English, 1830-1900 English on 15270, 2100-2130 Swedish on 9655. (8CDX 2124, 1/15/91)

SWITZERLAND - Swiss Radio International is considering conducting SSB tests (with reduced carrier - meaning the signal could still be tuned in AM mode) with their 500 kW transmitter. The Two Bobs said this would be "the first really serious" use of SSB by SRI. (Swiss SW Merry-Go-Round via Harold Sellers via DMC/ODXA)

UNITED KINGDOM - BFBS-Middle East began local FM broadcasts in Saudi Arabia on 12/17: 103.5 MHz at Jubail near Dhahran, and 105.5 MHz in the port area of Jubail. Downlink capabilities from a satellite are planned to facilitate more extensive local coverage from mobile repeater transmitters. The shortwave transmissions were to be scaled back from 1/15 with the 0150-0230 transmission canceled. BFBS continues to broadcast at 0920-1000 on 21735, 17830 & 15245; and at 1330-1400 on 21735, 17695 & 15390, to ensure adequate service for the Royal Navy ships in the Gulf area. "You would not believe the amount of mail from DXers" BFBS London has received. The amount of QSL cards BFBS has had to send out is "absolutely phenomenal." [Only chance for a real UK QSL for most listeners. -- mf] (Richard Asprey, BFBS, on RNMN 1/3 via Mike Fern) BBC on new 15575, 1400-1515* English WS; on new 15590 in Arabic 1400-1615*, also *0500 in English WS. All very strong 12/10. What sites? (Ernie Behr)

USA - KTBN carries the audio feed from the Trinity Broadcasting Network satellite TV channel. The schedule is 1600-0200 on 15590 kHz, and 0200-1600 on 7510 kHz. The mailing address is P. O. Box 18147, Kearns, UT 84118. (Nigel Gibson, Zimbabwe, and Johnny Mitchell, operations, manager, on KTBN, RNMN 12/27 via Mike Fern, Covina, CA) [The phone number mentioned on the air, (714)-731-1000, is the call-in line at TBN Hq in Tustin, CA. George Leaf, engineering supervisor at KTBN, told me the satellite network's mail address, Box A, Santa Ana, CA 92711, will also work. KTBN will hire or train a regular employee to handle short wave listener's mail. He said KUSW engineers often doubled as disk jockeys. He once received 80 letters about one day's program! -- mf]

Radio Free Europe has halted shortwave broadcasts in Czech because it is using a medium-wave transmitter inside Czechoslovakia. (Mike Fern, Covina, CA)

USSR - During 1990, the broadcast output of Radio Moscow's external services was cut back by about 10%. Then on January 1st, without prior notice, the regional services to specific target areas (North America, Great Britain and so on) were eliminated and any

programs having a regional focus are now incorporated in the 24 hour World Service in English. Concurrently, broadcasts in a number of Asian languages were cut back too, as budget constraints seem to have no boundaries! (RNHN via DMC/ODXA)

Listen carefully to Radio Moscow's English broadcasts as the threat the glasnost, independent media, and democratization intensifies in the Soviet Union. More of the old hard-line rhetoric is occasionally heard on the station, but there are still reports on the opposition to the hardliners, now articulated chiefly by Boris Yeltsin. There is apparently a struggle within Radio Moscow concerning its roles as independent news organization and as a mouthpiece for the Communist Party and Soviet central government. For example, on January 20, there were several uses of the old familiar term "bourgeois," in reference to the governments of the Baltic states before they were absorbed by the Soviets in 1940, to the tendencies towards "bourgeois dictatorship" in Latvia, and to the restoration of "bourgeois tendencies" throughout the U.S.S.R. By 21 January, journalistic independence seemed to have returned to Radio Moscow, with fairly straight reports about Baltic developments. Following the news at 1300, on the program "Top Priority," two panelists from the U.S.S.R. Institute for U.S. and Canadian Studies were critical of the use of force in the Baltics and of President Gorbachev for not being in control of the situation. (Kim Andrew Elliott)

ESTONIA - We've reported previously on a station in Estonia called Radio Hope, which operates from a Soviet military base on 747 kHz. The Soviet army claims that station was put on the air on the instructions of the USSR Council of Ministers, and has been given temporarily to the Estonian Inter-Movement, the organization supporting the pro-Moscow minority in Estonia. (SCDX 2124, 1/15/91)

GEORGIA - US-Georgian joint venture for commercial radio station in Tbilisi. Excerpts from report in Radio Moscow World Service in English 2300 UTC 12/6/90: Many joint ventures have cropped up in Georgia over the past few years. We would like to tell you about plans for opening the first commercial radio station in the republic. Taking part in the project are the local Peace Committee, (7Rasmussen) Communications Corp[RCC] from Wisconsin, the United States, and the Ministry of Communications. The idea of setting up a commercial radio station in Georgia was proposed by the RCC vice president, Mr. Philip Bailey, when a delegation of the Georgian Peace Committee was visiting North Carolina. Upon their return to Tbilisi the people Mr. Bailey talked to held negotiations with the Ministry of Communications. Finally they got a license and frequencies and now they believe that the first programme of the commercial radio station in Georgia will go on the air in May. The parties agreed that the American side will bring all the necessary equipment and the Georgian side will be responsible for all the construction work. The three partners will be co-owners. As for programming, the radio station will broadcast local and world news, special programmes for farmers in Georgia, music of different styles and weather forecasts. (WBI 12/14/90)

LATVIA - A similar (see Estonia, above) pro-Moscow station has also started broadcasting from a military base near Riga, in Latvia, on 918 kHz. BBC Monitoring recently reported that Radio Riga International has introduced broadcasts in English, half hour programs on Saturdays at 18:30 and Sundays at 07:00 hrs on 5935 kHz. Rainer Henrich has reported on BITNET that Radio Riga has been heard irregularly in both German and English on 5835 kHz, which seems to be on the air 24 hours.

Latvian radio amateurs have now begun getting the word out. We monitored a transmission at 11:30 hrs UTC Tuesday, on 14151 kHz. (SCDX 2124, 1/15/91)

LITHUANIA - An amateur radio station began relaying news from the Lithuanian parliament Sunday afternoon. The use of amateur radio followed the seizure of Lithuania's radio and television facilities early 1/13 by Soviet troops. Two people were killed and at least 20 injured as the soldiers used tanks and automatic weapons to assault and occupy the building. The amateur radio transmissions became a main link for news from Lithuania. We monitored the signals on 14155 kHz at around 1130 UTC. Later in the day 7060 and 3614 kHz were used, all in single side band. Before the occupation, Radio Vilnius had reported on the unlicensed radio station operated by the Soviet Communist Party in Lithuania, a station called Soviet Lithuania on 864 kHz. (SCDX 2124, 1/15/91)

RUSSIA - Monitoring research 12/10-11/90: The Radio Russia morning segment from 0330-0600 replaces All-Union Radio First Programme broadcasts except for the news at 0500-0515 UTC and a programme preview from 0545-0558 UTC approximately. One of the programmes being replaced by Radio Russia is the longstanding 0400-0415 UTC review of 'Pravda'. The 1100-1300 and 1915-2100 gmt segments have also been confirmed as replacing regular programming on the Mayak service and Third Programme respectively. (WBI 12/14/90)

R.Vatandosh hrd on 11765 & 11975 since 12/3, *0230 exotic IS, C.Asian lang & mx to 0300*, but 11765 continues w/R.Moscow English WS; hrd Vatandosh ID as in DXLD. (Ernie Behr)

VATICAN CITY - A Christmas morning explosion in Rome was aimed at Vatican Radio and not at a nearby US servicemen's club. A caller who claimed responsibility for the blast called the Italian news agency ANSA and said he spoke for an anarchist organization. Entrances were damaged at the Rome USO, Vatican Radio, and the glass doors at the St. Cecilia Music Academy were broken. No one was injured. (DX Party Line 12/29, quoting Reuters, via Mike Fern)

VIETNAM - Complete Voice of Vietnam sked:

0000-0100	Khmer/Lao		9715	9755	
0330-0430	Chinese/Cantonese	9840	12020	15010	
0930-1000	Indonesian		9755	12035	15010
1000-1030	English		9755	12035	
1030-1100	Indonesian		9755	12035	15010
1100-1130	English		9755	12035	
1100-1330	SP/RU/JP/FR	9840	12020	15010	
1100-1700	Cant/Chinese/Russian		10010	12035	
1130-1300	Thai/Khmer/Lao		7416	9755	
1300-1330	Russian		9755	12035	
1330-1500	English/Japanese	9840	12020	15010	
1330-1430	Khmer/Lao		7416	9755	
1500-1530	Thai		7416	9755	
1600-1700	English/Russian	9840	12020	15010	
1800-2300	English/FR/SP/JP	9840	12020	15010	
2300-2330	Thai		9755	12035	15010
2330-2400	English		9840	12020	15010

(Ray Everingham & Don Rhodes, via ADXN, via JSWC)

But that differs from winter schedule of English broadcasts from the Voice of Vietnam (ADXN via South East Asia DX News via DMC/ODXA):

- * 1000-1030 on 9755, 12020
- * 1800-1830 on 9840, 12020 & 15010
- * 1330-1400 on 9840, 12020 & 15010
- * 2330-2400 on 9840, 12020 & 15010
- * 1600-1630 on 9840, 12020 & 15010

Two points to keep in mind: Notwithstanding the published schedule, 15010 is not used during the winter season and correspondingly, 12020 is not used during the summer season. In addition, all frequencies do vary slightly, usually to the low side of the nominal frequency. (David M. Clark/ODXA)

WEST BERLIN - This still counts as a separate country for DXing purposes. From 0600 onwards for about two hours, try for RIAS on 6005 or any of the other regionals which operate on 6085, 6190 and 7265. (8WLD via DMC/ODXA)

ZAIRE - OZRT Lubumbashi, tentative, on 4750.15, 2200-2231* pop songs & French anmts, UNID NA; good 12/23, but no clear ID. (Ernie Behr)

BOOKS

The DSWCI Clandestine Stations List was updated in August, 1990. It contains 16 pages and lists all known stations. Pinn Krone is the author. Copies are 6 IRCs by seammil, & IRCs by airmail. The address is DSWCI, Betty Nansens Alle 49, I, TV., DK-2000 Fredriksberg, Denmark. (DX Party Line 12/29, quoting British DX Club "Communications", via Mike Fern, Covina, CA)

Media Network has dropped the ILG station list, published in Hamburg, from its book list because of frequent complaints about the publisher's failure to make prompt refunds. The book is well researched, but appears too late to be of much use. (Jonathan Marks on RNMN 12/27, via Mike Fern, Covina, CA)

Billboard Publications will introduce a new book in 1991 which will feature satellite and TV broadcasting with much more detail than WRTH now carries. WRTH will continue to carry satellite and TV listings. (Andy Sennitt on RNMN 12/27, via Mike Fern, Covina, CA)

CLANDESTINE

ANGOLA - Voice of the Resistance of the Black Cockerel; hrd on 7100 from 2000 Port talk & mx, NA to 2227*v, 12/7; Tu/Th/Su has Intl sv; hrd 12/23 from 2030 in English, 2058 in French, 2128 Portuguese & mx to 2233*; all times vary widely, 12/13 to 2302*, 12/21 to 2253*; very strong signal, announcing location as Jamba, Angola. (Ernie Behr, Kenora, Ont)

Voz de Resistencia do Galo Negro, the UNITA station in southern Angola, has ceased using low power transmitters that used to operate on 4880, 6135 and 7125. High power transmitters remain active with the following schedule: 0500-0830 on 9700, 1100-1430 on 11830, and 1800-2200 on 7100. As Gerry Dexter points out, this station could soon disappear from the airwaves - a tentative agreement was signed in December by UNITA and the Angolan government to end the 15 year-long civil war and cease fire negotiations were to have begun in January. (Richard Ginbey on RNMM / Clandestine Confidential, via DMC/ODXA)

IRAQ - The Voice of Free Iraq appeared on January 1st. The station says it is broadcasting to Iraq on one medium wave and three shortwave frequencies contributed by the radio services of Syria, Egypt, Saudi Arabia, and the Gulf Co-operation Council states. BBC Monitoring says it can be heard at approximately 0330-0805 and 1430-2020 hrs on 17940, 15600, and somewhere between 9560 and 9570 kHz. (SCDX 2124, 1/15/91)

The Voice of Free Iraq operating from 1/1 in classical Arabic and the Iraqi dialect 0330-0800 & 1430-2000 using 17940, 15600, and 9569 kHz. Also announces 1053 kHz MW. (R.Japan's DX Corner 1/13)

EUROPIRATE (and probable Europirate) loggings made over the Christmas holiday period--any help identifying the Unids appreciated. All were logged using a 50-degree "mini-beverage" (unterminated, approx. 200 feet long, 3-4 feet above the ground, using matching xformer as described in proceedings 1988); most were inaudible on the three other antennas I use. (Kevin Atkins)

- ** 6206 R. Orang Utan, 0852-0910 Xmas pgm w/ seasonal mx & greetings, pops, IDs/TCs. S-7!! 12/23
- ** 6206.8 UNID, 0736 pop mx pgm awash in 6205 QRM. Maybe Orang Utan up 800 Hz from 2 nights before, but if so, much weaker. 12/25
- ** 6219.8 DNID, 0821-0838 vy weak pops, incl Bowie's "Modern Love" 0838. Only anmt made out was a "7-0-4" during 0915-0930 recheck; maybe part of addr. 12/23
- ** 6220.5 UNID, 0803-0845* vy weak M tik & pops, incl "Nothing's Gonna Stop Us Now"; carrier was back on at 0853 recheck. 12/25
- ** 6239.9 Weekend Music R., 0905-0925 pop vcls & IDs, F-G. 12/25
- ** 6284.2 Pirate Freaks Broadcasting Svc, 0414-0432* testing to NA w/ pops, frequent IDs/addr. Ancd // 9985 but nothing there. 12/25
- ** 6304.1 UNID, 0641 pop vcls occ. up through CID splatter. Never made useable lvl. 12/23
- ** 6315.2 R. East Coast Holland, fading up 0420-0505*. Numerous IDs, Europops. No audio on ancd // 11490. Tnx Dave Valko tip. 12/23

MISCELLANEOUS - When I discovered we'd be only about 40 miles apart 12/31, I arranged to meet Gordon Darling & his family in Kissimmee, Florida. We had a very enjoyable lunch. [df]

Special thanks to Bruce MacGibbon, who forwarded a large amount of material that had been sent to him prior to the announcement of the change in editors, and to Mike Fern for the summaries of many of the DX programs on the air. Also to David Clark, editor of the World Radio Report in DX Ontario, who, knowing the logistics problems that can arise in changing editors, provided an advance copy, via EMail, of his February column.

Credits: DMC is David Clark. DSWCI is Danish Shortwave Clubs International. DXFL is HCBJ's DX Party Line. ODXA is Ontario DX Association. RNHN is Radio Nederland Media Network. SCDX is Sweden Calling DXers. SWLD is RCI's SWL Digest. WOR is Glenn Hauser's World of Radio.

Material for LN may be submitted to the address on the masthead either on paper or as an MS-DOS text file on diskette (5-1/4 in 360 K or 1.2 Meg, or 3-1/2 in 720 K or 1.4 Meg) or by EMail on CompuServe (ID 76702,771). EMail can also reach me on CompuServe through the gateways from Internet and MCI Mail. GENie mail address is D.FERGUSON14. Thanks for your support. Dan

QSL Reports



Sam Barto
47 Prospect Place
Bristol, CT 06010

PLEASE NOTE: I figure if I put this request at the start of the QSL Column more of you may read it. Hope I get an answer. I will be in NJ at Princeton University from 2/21 to 2/23. Can anyone in the area recommend a decent, clean and somewhat inexpensive hotel or motel to stay at? It will be appreciated. Please call collect after 5 PM at (203) 589-0083. Thank you...Sam.

Thank you for your report on the reception of

ACTION RADIO

This certifies your report of our

DATE: August 19, 1990

TIME 0524-0527 UTC

FREQ. 7415.0KHz

POWER 35 watts

ANTENNA 1/2 wave dipole

MODE AM

BROADCAST

ACTION RADIO

REQUEST LINE

412-981-7392

via
D'Angelo

QSL
ACTION RADIO



"Private Radio From The City of Three Rivers"

ALASKA: KMLS 7365 f/d cd. in 2 wks. for ms.w/ schedule and a personal ltr.(Grenier-NV). f/d "Map" cd. w/ ltr. and sked. in 33 ds. for ms.(Washburn-ME). 7355 same in 1 mo. for ms. Schedule rcvd.(Palmerheim-MN).

ALBANIA: Radio Tirana 11825 f/d cd. w/ schedule, postcard and pin in 44 ds.(Nagengast-MN).

ALGERIA: Radio Algerienne 9535 f/d cd. in 40 ds.(Blumstein). 15215 f/d cd. in 22 ds. for ms.(Turnick-PA).

ANGOLA (Cabinda): Emissora Regional de Cabinda 4969.8 f/d

* R.N.A. cd. w/ verie ltr. in 33 mo (after 3rd rpt.) for a PT rpt. and \$1.00. v/s Lourdes de Almeida, O Chefe de Sector. (Kusalik-ALB). **Radio Nacional de Angola** 4950 f/d cd. w/ ltr. for 2 IRCs for a 1986 reception. v/s is same as above and includes Luzia Fancony.(Weber-OH).

ANTIGUA: Deutsche Welle 6040 n/d "Tricomalee Relay" cd. w/ schedule in 79 ds. (Nagengast-MN).

ARGENTINA: Radio Continental 9115 f/d cd. in 30 ds. for a SP rpt. and \$1.00. Also rcvd. tourist info., sticker and other data via registered mail.(Hart-FL). **RAE** 11710 f/d cd. in 40 ds.(Hazzard-PA).

ARMENIA: Radio Rodina 17700 via **Yerevan** f/d cd. in 4 mo. v/ ltr. in RS.(Barto-CT).

ASIATIC RUSSIA: Radio Moscow 15580 via **Irkutsk** f/d "Arbat

Square" cd. w/ station

brochure in 71 ds.

(Butcher-MA). **Radio**

Rodina 21525 via

Vladivostok f/d cd.

in 3 mo. (Barto-CT).

21505 via **Chita** f/d

cd. in 3 mo.(Barto). 17695

via **Nikolaevsk-on-Amur** f/d cd.

in 3 mo. w/ ltr. in RS.(Barto-CT).

AUSTRALIA: Radio Australia 9580 f/d cd. w/ schedule,

ltr. and tourist brochures in 30 ds.(Poland-MI).

f/d ltr. w/ schedule in 27 ds. for 1 IRC.(Hart-FL).

6015 f/d cd. in 13 dg.(Blumstein). 21740 f/d ltr.

in 40 ds. w/ schedule and a 50th anniversary fold-

er.(MacHarg). **VLSA** 2310 via **Alice Springs** f/d "ABC

Map" cd. in 65 ds.(Hart-FL). **VLAB** 2325 via **Tennant**

Creek same type cd. in 65 ds. for \$1.00.(Hart-FL).

VLSK 2485 via **Katherine** same in 65 ds. (Hart-FL).

BELGIUM: BRT 9925 f/d cd. in 162 ds.(Levison-PA). f/d

"Madonna and Child" cd. w/ schedule in 57 ds.(Nag-

engast-MN). "House and Workhouse" cd. in 59 ds. w/

schedule and stickers.(MacHarg).

BOLIVIA: Radio La Cruz del Sur 4875.8 f/d cd. w/ personal

ltr. and a prepared cd. in 25 ds. for a SP rpt. and \$1.00.

Pennant rcvd. v/s Pastor Rodolfo Moya J. (Allen-OK).





NATIONAL
BROADCASTING
COMMISSION OF PAPUA NEW GUINEA

PO 13-40
GWS/10

Phone 421711 Cable WPTGND NCDP221 Tele. 01 42111 P.O. Box 1762
TAP

Feb. 1978, 1980

Richard A. D'Angelo,
2114 Burbury Drive,
Myrtle Station, PA 17619,
U.S.A.

Post No. D'Angelo.

I am pleased to verify your reception of Radio Norway on the 1st broadcast, 1980 between 1119 - 1134 UTC on 2111 - 2134 local time. The programme recognized is 2115 hours of music presented in the lingua-franca (FRANCE) recognized by S. Toffler.

For further verification, 99 broadcasts on the frequency of 2230 kHz with an aerial power of 10,000 Watts. No broadcast daily from 0530 - 0730 kHz to 100,000 population of Norway Province.

99 is one of 16 Provincial Stations and operated by NBC in Papua New Guinea. We have no QR. Card please accept this letter as official verification of map on above data.

Yours faithfully,

Al Muick....Is this the former NASWA member that I know?...Sam...via PLAY/DK.

Richard A. D'Angelo
Station Manager
Radio Norway

BOINAIRE: Radio Nederland 15560 f/d "Holland in Blumenschuck" cd. w/ sticker in 20 ds. (Grenier). f/d "Outside Broadcast Van" cd. in 27 ds. for 2 IRCs. (Name?) 9630 f/d cd. in 20 ds. (Blumstein). 15330 (USB) f/d cd. w/ USB notation in 26 ds. for Oct. 90 test transmission. (Washburn-ME). **Trans World Radio** 11815 f/d "Bonaire Underwater Paradise" cd. w/ ltr. and schedule in 27 ds. (Washburn-ME).

BRAZIL: Rdf. Aquidauana 4795 n/d ltr. w/ tourist folder in 351 ds. for a 1979 reception. * v/s Walter Georg Keppler, Coordenador Administrativo. The v/s says that he took over in August from the previous owners and came across my rpt. while cleaning up. (Moore).

QSL
card no 18
(photo 17)

Dear listener

We thank you for your report and are pleased to confirm that you have heard
Radio Norway International
via Mike Fern

in 7615 on 2-28 23:9 90
UTC: DATE: MONTH: YEAR

Sincerely yours,
Mike Fern
RAI/NORWAY INTERNATIONAL
(7140 (151)) 1, NORWAY

* **Radio Calari** 4785 f/d prepared cd. w/ sticker and a personal ltr. in 3 wks. after a f/up rpt. in PT. v/s Carlos Alberto Diniz Martins, Gerente Geral. (Moore). **Radio Alvorada de Londrina** 3335 f/d prepared cd. w/ ltr. in 24 ds. for a PT rpt. and \$1.00. Also rcvd. very large station pennant. v/s P. Dilermando Luiz Cozatti, Director. (Hart-FL). **Radio Bras** 11745 n/d form ltr. w/ sticker and schedule in 66 ds. (Nagengast-MN).

BOLGARIA: Radio Sofia f/d "Folk Costume" cds. w/ schedule in 63 ds. for 2 IRCs. (Name?) 11660 cd. w/ ltr. in 27 ds. (Nagengast-MN).

SHORTWAVE HOT FLASH!!!: Radio Baghdad has reported that Saddam Hussein, in an effort to sag up his economy due to the United Nations embargo, has developed a dual-purpose medicine known as **Preparation Hussein**. It is guaranteed! not only to remove unwanted hemorrhoids but within 10 minutes you will Shlute your brains out.

CAMEROON: CRTV - Yaounde 4850 p/d "Logo" cd. in 127 ds. for \$1.00. (Washburn-ME).

CANADA: CFCX 6070 f/d cd. in 14 ds. (Westdol-CA). p/d cd. in 16 ds. (Blumstein). f/d "Logo" cd. in 7 1/2 mo. for 1 IRC. (Wallace-CT). f/d cd. in 125 ds. for ms. v/s David Simon, Engineering. (Turnick-PA). same in 20 ds. for 2 IRCs. (Simon)...Dave, please remember to write your name at the end of each contribution...Sam. **CFCZ** 6160 p/d cd. in 6 ds. (Blumstein). **CBC Northern Quebec Service** 9625 n/d personal ltr. w/ schedule and station info. in 15 ds. (Nagengast-MN). **Radio Canada International** 5960 and 9755 f/d "450th Anniversary of Discovery of Canada" cd. in 12 ds. (Simon).

Station Manager of the Radio Norway
19-01-90



We thank you for your receipt and are pleased to confirm that you have heard our station on 10-08-90 at 23:00 - 23:15 GMT on 13855.114

Sincerely yours,
Rifikútvarpíð

Mr. Kurt L. Cox
15111 McKenzie HWY
Leahurst, Oregon
97149-9415 U.S.A.

RÍKISÚTVARPIÐ
1171 AND STATE BROADCASTING SERVICE
REYKJAVIK, ICELAND

CELEBES: KRI Kendari 4000.2 p/d ltr. in 73 ds. for ms. v/s Sjahbuddin.(Paszklewicz-WI).

CHILE: Radio Esperanza CB609 6089 f/d personal ltr. in * 6 wks. for a SP rpt. and \$1.00. v/s Eleazar Jara, Jefe Depto. Programacion. Addr: Casilla 830, Temuco, Chile.(Allen-OK). f/d prepared cd. w/ p/d ltr. in 45 ds. for \$1.00. (Palmerheim-MN).

CGV Time Signal Station f/d "Map" cd.

in 27 ds. for \$1.00. v/s German Valdivia Ibarra.(Palmerheim-MN).

CHINA, PEOPLES REP. OF: Radio Beijing

11840 f/d cd. in 2 mo.(Boulden-CA).

f/d cd. in 18 ds. w/ 2 panda dollies! (Blumstein). 17705 and 15110 f/d cd. w/ paper cuts in 20 ds.(Levison-PA). Turnan Peoples

Broadcasting Station 4760 f/d cd. in 51 ds.(Hart-FL). RFM 10000 f/d cd. w/ form ltr. in 23 ds. for a f/up rpt. on an 88 reception.(Moore).

CLANDESTINE: Voice of Unity / Radio Muslim Mujahideen of Afghanistan 15685 p/d "Map" * cd. in 10 mo. for 2 IRCs. Addr: P.O. Box 2605, 2000 Hamburg 60, Germany. (Hart-FL).

COLOMBIA: Biseca Armonias del Caqueta 4915 f/d cd. w/ ltr. and a personal note in 39 ds. for a SP rpt. and ms. v/s P. Alvaro Serna Alzate, Director.(D'Angelo-PA).

* Caracol Bogota 4755 f/d cd. after 3 f/up rpt. in SP in 89 ds. Station sticker and stamps were rcvd.(D'Angelo-PA).

COSTA RICA: Radio Lira International TIANR 9725 p/d personal ltr. w/ schedule in 46 ds. (Nagengast-MN). Radio For Peace International 21565 f/d "Logo" cd. in 175 ds.(Washburn-ME).

CUBA: Radio Havana 11765 f/d cd. in 2 mo. w/ calendar.(Boulden). Radio Moscow 11840 via Habana 11820 f/d "Lenin Park" cd. in 101 ds.(Kurrasch-NY). f/d cd. w/ schedule in 68 ds. (Kurrasch-NY).

CYPRUS: British Forces Broadcasting Service 15195 f/d cd. w/ prepared cd. in 56 ds. v/s Richard Astbury, Station Manager.(Rusalik)

CZECHOSLOVAKIA: Radio Praha International 7345 f/d

"Cesky Sternberk Castle" cd. in 42 ds.(Levison)

f/d "Lesser Town's Bridge Tower" cd. in

31 ds.(Nagengast). 5930 f/d cd.

in 32 ds.(Blumstein). 7345 and

5930 f/d "Cottage in Rohanov"

cd. in 47 ds. for 2 IRCs.(Name?)

DJIBOUTI: Radio TV Djibouti 4780 p/d cd. in 7 wks. for a FR rpt. and ms. C/V #150! (Kohlbrenner-PA).



THE
VOICE OF MALAYSIA
(SUARA MALAYSIA)

PLEASE NOTE: I have about 10 copies left of the South American section of the publication titled Station Pennants of the World. It contains approximately fifty (50) pages of listings and illustrations of South American station pennants. The book is spiral bound. You can have yours by writing to your QSL Editor and enclosing a check for \$5.00....Sam.

DOMINICAN REPUBLIC: Radio Amnecor International 6024.9 f/d ltr. w/ prepared cd. in 156 ds. for a SP rpt. and \$1.00. v/s Rosa O. Alcantara, Secretaria.(Hart-FL). Radio Clarin

n/d cd. in 118 ds. for a SP rpt. and ms.(Turn-

DUBAI: UAE Radio and Television 21605 ick-PA). f/d cd. w/ schedule and pennant in 25 ds.

(Westdol). same in 5 wks. w/ pennant and

schedule.(Nibecker-MEX). 15400 same in 1 mo.

v/s K.F. Fenner, Chief Engineer.(Name?)

ECUADOR: FEJB 15155 f/d "Mt. Antisana" cd. in 69 ds. for ms.(Name?) 25950 (SSB) f/d "Iliniza

Norte" cd. in 68 ds. for 2 IRCs.(Name?) f/d

"Horseman" cd. in 41 ds.(Blumstein). Radio

Catolica Nacional 5030 n/d ltr. w/ sticker

via a NZ DXer, Paul Edwards, who was visiting

the station and pulled my report out of their

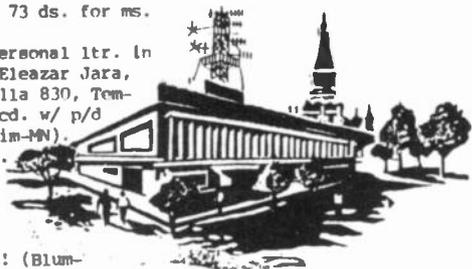
files. I did the same for him in 85 at La Voz

de Cutervo. (Moore). Radio Quito 4920 f/d prepared

cd. w/ pennant in 222 ds. for a SP rpt.

and ms. v/s Jose Almeida, SubGerente.(Turnick-

PA).



— LAO NATIONAL RADIO —

REPUBLIQUE DE BURUNDI

MINISTRE DE L'INFORMATION
ET DE LA CULTURE

DIRECTION DE LA RADIO/TELEVISION
NATIONALE DE BURUNDI

BO 2 P. 7029 UJALABOUBOU 00

Recu avec le plaisir de confirmer
votre rapport d'écoute

du 11/11/88 de 14h 11

1471

1471

1471

1471

Jerry Kluck
43 Lein Road
West Seneca, N.Y. 14224
USA



Dear Mr. John... D. Basta...

This Card verifies your reception of :

Syrian Arab Republic Broadcasting Service

On 11-24-1989

At 20:30 - 21:00 GMT

Frequency 9950 Kcs Damascus, SYRIA

Power 200 KW

Thank you

Director General of Broadcasting & Television

also sent in by Bill Taylor and others

Handwritten signature

ds.(Butcher). 15425 f/d cd. in 65 ds.(Name?) 17810 f/d cd. in 68 ds.(Kurraech-NY). 11850 via Ryazan f/d "Lenin Mausoleum" cd. in 75 ds.(Butcher). Radio Rodina 17880 via Tula f/d cd. in 3 mo.(Barto-CT). Radio Station Atlantika 12035 via Moscow f/d cd. in 3 mo.(Barto). 15125 via Zhigulevsk f/d cd. in 3 mo.(Barto-CT).

FRANCE: RFI 17620 f/d "Paris" cd. in 22 ds. w/ schedule.(Blumstein).

GEORGIAN SSR: Radio Moscow 21715 via Tbilisi f/d "Arbat Square" cd. in 60 ds. w/ schedule.(Butcher). 15305 f/d cd. in 22 wks.(Klinck-NY).

NOTES: Kris Field reports that his third son was born in mid-November. Well I guess you now have a new hobby!...Sam. Congratulations from all of us! Kirk Allen in OK says that as the cold weather is starting to set in he now has much more time for DXing. He is also starting to send out quite a few more reports than usual. Colin Nagengast sent a reception report to Radio Kuwait 3 days before the invasion. He received his report back marked "Mail Service Temporarily Suspended." Maybe it will be honored at a later date...Sam. Fred Kohlbrenner says that after he started using mint stamps for return postage he received replies from Algeria, Angola, Cook Islands, Djibouti and Grenada. Fred says it made the difference...Sam. Jerry Klinck says that he is very pleased with his Radio Damascus QSL. What a difference a common enemy makes!...Sam.

GERMAN DEMOCRATIC REP: RFI 9730 f/d cd. in 66 ds.(MacHarg). p/d cd. for 1 IRC.(Wallace-CT). f/d "Peoples River" cd. in 34 ds. for \$1.00. v/s Angelika Shultz.(Palmerseheim-MN). 13770 f/d cd. in 43 ds. for 2 IRCs.(Name?) 13610 f/d "Wernigerode" cd. in 2 wks.(Nagengast). 6080 and 11890 via Nauzen, 13610 via Leipzig and 15240 and 13760 via Knigevusterhouse p/d "Broadcasting House" cd. in 39 ds.(D'Angelo-PA). Did I spell it?

GHANA: GBC 4915 f/d "Golden Jubilee" cd. in 33 ds. for \$1.00. Schedule rcvd.(Hart-FL). same in 35 ds. for 1 IRC.(Wallace-CT).

GREECE: Voice of Greece 11645 f/d "Santorini Island" cd. w/ schedule in 41 ds.(Nagengast-MN).

GUAM: AMR-ASIA f/d cd. in 59 ds. w/ pennant, sticker and schedule for 1 IRC.(MacHarg).

GUATEMALA: Radio Buenas Nuevas 4800 p/d cd. in 50 ds. for a SP rpt. and \$1.00. (Paszkiewicz-WI). Radio R'ekchi 4845 f/d personalltr. in 1 mo. for a SP rpt. and ms. v/s Gliberto Sun Xicol, Gerente. Pennant and schedule rcvd.(Orcutt-NY).

HAWAII: WHVH 10000 f/d cd. in 2 wks.(Boulden-CA).

HUNGARY: Radio Budapest 15160 and 9520 via Jaszbereny f/d cd. w/ site in 2 mo. (Kusalik). 9585 via Szekefehervar f/d "Museum" cd. w/ site in 2 mo. w/ pennant and schedule.(Kusalik). 6110, 9835 and 11910 via Diod f/d cd. w/ site in 2 mo.(Kusalik). 9520 f/d cd. in 25 ds.

INDIA: AIR 11620 f/d "Gopal" (Poland-MI). Bhawan" cd. in 44 ds.(Blumstein).

ISRAEL: IBA 9435 f/d cd. in 35 ds. w/ schedule.(Blumstein).

ECUADOR: Pucelias Radiofonicas Populares 5015 p/d ltr. in 30 ds. for a SP rpt. and ms. v/s Juan Perez. (Hazzard-PA). Radio Centro 3290 p/d ltr. w/ prepared cd. in 23 ds. for a SP rpt. and ms. Sticker rcvd. v/a Luis A. Gamba T., Director - Gerente.(Hart-FL).

ENGLAND: BFBS 7125 p/d "Gulf" cd. in 33 ds. for \$1.00.(Hart-FL). 17695 p/d cd. in 41 ds. for \$1.00.(Washburn). 21735 same in 67 ds. for 2 IRCs.(Weber-OH). 17695 and 21735 f/d cd. in 56 ds.(Kusalik-ALB).

EUROPEAN RUSSIA: Radio Moscow 9655 f/d cd. in 1 mo.(Name?) 9520 via Moscow f/d cd. in 80 ds.(Butcher-MA). 15205 and 15500 f/d cd. in 75



PERU 106.9 FM JTEBO

RADIO REPUBLICA OMA COSTA RADIO INTERNACIONAL DE 19 ESTADOS 6,000 KILOGHERTS

RADIO REPUBLICA OMA COSTA YUCUCO, REPUBLICA DE CHILE

Radio station information for Yucuco, Chile, including frequency 106.9 FM, power 1000W, and address Calle Luis Duran 9107.



COPIA: Enclosed Mr. Allen, gracias por hacer la grabacion de esta carta... para enviarlo por correo de la Republica de Chile...

REPUBLICA ARGENTINA

CERTIFICADO DE RECEPCION DE TRANSMISIONES

17a. 10 de Agosto de 1.990. - 21.05 - 21.40 Ha Argentina

FRECUENCIAS: 4588 Y 9115 KHZ.
LONGITUD DE ONDA: 65 Y 33 mts.
POTENCIA: 5 KW. BLU.
500 RTM. Antena Horizontal 105.5 MTR. Frecuencia "Cruzada"
SR: Frank F. Piccuti
"Buenos Aires"
Buffalo, NY 14210
"Continental Station"

CONTINENTAL

15-RADIO CONTINENTAL S.A. Bv. Suquia 825 11099
Tel. 131 7110 7311 16433 Bn. Argentina

f/d "Olympic Park" cd. in 29 ds. for 2 IRCs. Schedule w/ calendar in 26 ds. (Panderys-OH).

LIBYA: Radio Jamhuriya 9600 f/d "Rainbow" cd. w/ schedule in 36 ds. (Blumstein). **Voice of the Libyan People** 9490 f/d "RJ" cd. w/ all data on it. (Price)...Am I mistaken or is this station an anti-Radio Jamhuriya outlet???...Sam. Received a f/d cd. from **Radio Jamhuriya** w/ dates, times and frequencies for receptions in 1976 and 1978 corresponding to **La Voix de la Patrie Arabe** 6185, **Voice of the Sudan People** 6185 and **Voice of the Peoples Front for the Liberation of Oman** 11700. (Barto-CT). Very pleased with this QSL...Sam.

MALAGASY REPUBLIC: Radio Television Malagasy 5010 f/d prepared cd. w/ ltr. in 183 ds. * for a FR rpt. and \$1.00. v/s Mile Rakotoningy Soa Herimanitia, Secretaire de Direction. The v/s is 22 yrs. old and collects stamps. Go get em! (D'Angelo-PA)...Great QSL Rich - a very hard one to get!...Sam. **Radio Nederland** 15560 f/d "Satellite" cd. in 44 ds. (Kurrasch-NY).

MALI: Radio TV Mali 5995 f/d "Map" cd. in 6 1/2 mo. for a FR rpt. and 1 IRC. (Wallace-CT). **Radio Beijing** 11715 p/d cd. w/ desk calendar in 1 mo. for 1 IRC. (Wallace-CT).

MOCOCO: Radio Mil 6010 f/d prepared cd. in 3 wks. for a SP rpt. v/s Jaime Pontones, * Ing. (Moore). **Radio Universidad de Sonora** 6115 f/d prepared cd. w/ blank station cd. in 20 ds. for a SP rpt. and \$1.00. This was after 1 f/up rpt. I also rcvd. 2 post-cards of the Sonoran beaches w/ handwritten message on back, "Playas de Iraq? Noooo!"

NEWFOUNDLAND: CQZN 6160 f/d folder cd. in 7 ds. for 1 IRC which was sent (Moore). back. v/s Shawn R. Williams, Regional Engineer. (Hazzard-PA).

NEW ZEALAND: Radio New Zealand International 17675 f/d cd. in 14 ds. for 3 IRCs. (West-dol-CA). 9855 p/d "Sheep Hearing" cd. in 2 wks. w/ schedule. (Blumstein). same w/ paper pennant in 3 wks. (Boulden).

Radio East Sepik
"Nek Bilong Sepik"



NO. RICHARD A.D. ARSULO
1316 BERRY AVE
WYOMING, PA 19610



Phone: 910-222
Cable: WYOMRADIO
P.O. Box 100
P.O. Box 100
P.O. Box 100
Sepik Dist. Hq. 1974

RECEPTION VERIFICATION.

Dear Sir,

I am writing with a pleasure to confirm your reception report of October 9th, 1989.

I have verified your report correspond to the station log and confirmed that the details of your report were correct.

Therefore, on the 9th October 1989, you were listening to Radio East Sepik local programming.

For your information, Radio East Sepik is one of the sixteen Provincial Radio Stations of the National Broadcasting Commission of Papua New Guinea. Radio East Sepik begins daily local transmissions at 0515 - 0700 hours in the morning and resume evening transmissions at 1845 - 2000 hours in the evening on a frequency of 5375 kilohertz in the 50 metre band.

We also relay National community School programs from National Radio Service on our daytime frequency of 6140 kilohertz in the 16 metre band from 0600 to 0700hrs.

Therefore, thank you very much for your interesting report, and may the LORD bless you and family.

Yours Sincerely,
.....
ELIAS ALBERT - ADP - P.O. BOX 1447 (Hq.)

ISRAEL: IBA 11655 f/d cd. w/ schedule in 1 mo. (Boulden-CA).

JAPAN: Radio Tampa 9760 f/d cd. in 3 wks. w/ schedule. (Boulden). **Radio Japan** 15195 n/d "Clay Figure" cd. in 23 ds. (Blumstein). **Radio Canada International** 11705 via **Yamata** "DIY Forestry" cd. in 18 ds. (Washburn). **JJY Time Signal Station** 8000 f/d cd. in 12 ds. (Blumstein). f/d cd. in 12 ds. for 1 IRC. (Westdol).

KAZAKH: Radio Station Atlantika 17645 via **Alma Ata** f/d cd. in 3 mo. (Barto-CT).

KOREA, REPUBLIC OF: Radio Korea 9570 f/d "Dancer" cd. in 20 ds. (Blumstein). 15575

NIGERIA: Voice of Nigeria 7255 2 f/d cds. w/ schedule and a personal ltr. in 7 mo. for ms. This after 1 f/up rpt. v/s Babatunde Olalekan Raji. (Klinck-NY).

NORWAY: Radio Norway International 11735 f/d "Romsdalshorn Mountain" cd. w/ schedule in 57 ds. (Nagengast-MN).

OMAN: HEC Eastern Med. Relay 15310 f/d cd. in 396 ds. for \$1.00. v/s Paddy O'Reilly. (Palmerheim-MN).

PARAGUAY: Radio Nacional del Paraguay 9735 p/d ltr. w/ schedule and tourist info. in 5 wks. for a SP rpt., tape and \$1.00. v/s Lic. Augusto Ocampos Caballero, Director General. all arrived via registered mail. (Klinck-NY).

PERU: Radio Tarum OCKAR 4775 f/d cd. w/ personal ltr. in 98 ds. for a SP rpt. and \$1.00. v/s Mario Monteverde Pomareda, Gerente General. Also rcvd. a form ltr.

* (D'Angelo-PA). **Radio Cora QAZAN** 4915 p/d cd. w/ ltr., schedule and station sticker in 5 wks. for a SP rpt., tape and \$1.00. v/s Juan Ramirez Lazo. (Klinck-NY). **Radio Satellite** 6727 f/d cd. w/ ltr. and a personal note in 54 ds. for a SP rpt. and \$1.00. v/s sabino Llano Chavez, Gerente. this was after a f/up rpt. in SP. (D'Angelo-PA)...Great reports!...Sam.

RIO MURI: Radio Africa 7189 f/d "Logo" cd. in 6 wks. for ms. All arrived via the Cupertino, CA address. (Orcutt-NJ).

ROMANIA: Radio Bucharest 11940 f/d "Folk Costume of huned-ara, Central Romania". sticker and schedule was rcvd. (Carson-OK). f/d "Folk Costume" cd. in 168 ds. for 4 IRCs. Also rcvd. stamps and stickers. (Carson-OK). f/d "Flowers" cd. w/ schedule in 168 ds. (Levison-PA). f/d "Folk Costume of Eastern Romania" cd. w/ decal and coaster in 4 mo. for 1 IRC. (Wallace-CT). 11940, 11810, 9570, 6155, 5990 and 9510 f/d "Svceava Folk Costume Area" cd. in 3 mo. for an 83 reception. (Barto-CT).

ROMANIA: Deutsche Welle n/d "Globe" cd. in 57 ds. (Blumstein).

SAIPAN: KHBI 17555 f/d "DIY Antenna" cd. in 25 ds. for ms. v/s M.L. Khoury. (Brouillette-IL). 9530 f/d "Antenna" cd. in 48 ds. for 2 IRCs. (Name?). same cd. in 34 ds. (Washburn-ME).

VOIX DU SAHEL
OFFICE DE RADIO-DIFFUSION. TELEVISION
DE LA REPUBLIQUE DU NIGER

INSTITUT NATIONAL DE LA RADIO ET DE LA TELEVISION

11 02 1970. 50000. 0570. 0500 40

JEAN-PAUL... KURT C... COX... KEAL...
JACKSON... NIKY... LEAGOR... DAWSON
Dns d'inscriptions: 11 02 1970. 50000. 0570. 0500
Vus d'inscriptions: 05000 6.8 007 0500

RECEIVED
11 02 1970
STATION 0570 0500 40
COMMUNICATIONS SECTION
POSTER à l'attention de M. J. S. ...
COMMUNICATIONS SECTION



SCOTLAND: World Music Radio
6310.4 2 f/d cds. w/ form ltr., personal ltr. and station info. sheet in 8 wks. for 2 IRCs. This was after a f/up rpt. for an 89 reception. v/s Jack Russel. (Moore). f/d red cd. in 2 mo. w/ sticker and info. sheet. 100 watts. (Barto-CT) 6235.6 f/d yellow sheet in 2 mo. w/ sticker. (Barto-CT).

SEYCHELLES: BBC Indian Ocean Relay 6005 p/d personal ltr. in 1 mo. v/s Steve Welch for P.J. Loveday. (Orcutt-NY).

SOLOMON ISLANDS: SIBC 9545 "Logo" cd. in 36 ds. for 2 IRCs and \$1.00. (Westal-CA). f/d cd. in 53 ds. (Blumstein). 5020 f/d cd. in 72 ds. for 1 IRC. (Hazzard-PA).

SPAIN: Radio Nacional de Espana 9630 f/d cd. w/ pennant in 2 mo. (Boulden). 11880 * f/d "Olympia" cd. in 58 ds. (Blumstein). BBC Time Signal Station 12008 f/d prepared cd. in 20 ds. for ms. and \$1.00. (returned). (Turnick-PA).

SRI LANKA: Sri Lanka Broadcasting Corporation 11835 f/d cd. in 6 wks. for ms. (Klinck-NY). 15120 f/d cd. in 55 ds. (Dawson-IL).

SWEDEN: Radio Sweden International 9695 f/d cd. w/ schedule and decal in 3 wks. (Roul-den). 11705 f/d cd. w/ schedule in 16 ds. (Poland-MI). f/d cd. in 12 ds. (Blumstein).

SWITZERLAND: Swiss Radio International 6135 f/d "Lausanne" cd. in 15 ds. (Washburn-ME).

13685 same cd. in 47 ds. w/ schedule. (Palmer-sheim-MN). 6190 f/d "Chateau" cd. w/ schedule in 17 ds. (Kurrasch-NY). 12035 f/d cd. in 29 ds. w/ schedule for 1 IRC. (Tucci-MA). 12035, 9885, 9650, 6135, 6095 and 17730 (via Brasilia) f/d "Lausanne" cd. w/ schedule in 14 ds. for 1 IRC. (Brouillette-IL). 13685 f/d cd. w/ schedule in 17 ds. (Poland-MI).

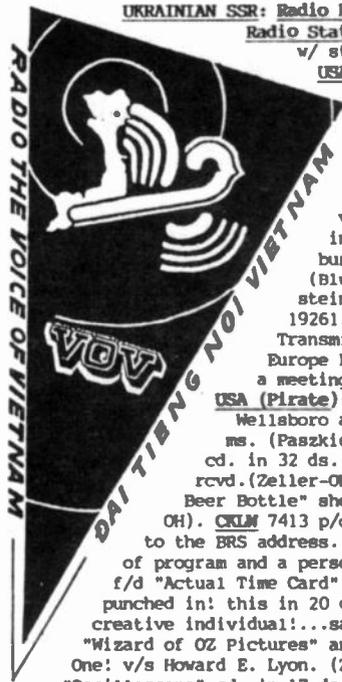
SYRIA: Radio Damascus 12085 f/d "Map" cd. w/ a copy of the Syrian Times and a station pin via registered mail. This was after several f/up rpt. v/s Mr. Afaf, Director General of Broadcasting and Television. (Woloch-QUE). 15095 and 17710 via Mira f/d cd. w/ sticker in 9 mo. (Barto-CT).

TURKEY: Voice of Turkey 9445 f/d cd. in 31 ds. w/ schedule. (Blumstein). f/d cd. in 360 ds. w/ sticker, schedule and tourist info. (Fanderys).

UKRAINIAN SSR: Radio Moscow 21630 via Starobelsk f/d "Arbat Square" cd. in 80 ds. (Butcher-MA). 15475 via Siniferopol f/d "Friendship House" cd. in 2 1/2 mo. (Barto). 21685 f/d cd. in 60 ds. w/ station brochure. (Butcher-MA). 17585 via Vinnitsa f/d cd. in 68 ds. (Kurrasch-NY). 12030 and 17585 f/d cd. in 71 ds. (Butcher-MA).

ESCUELAS RADIOFONICAS POPULARES DEL ECUADOR
"ERPE"
CANTO DE SUDOR Y REBELDIA

La Resistencia Latinoamericana se Fortalece con el Canto.
LEONIDAS PROAÑO
vive entre el pueblo pobre.
RIOBAMBA-ECUADOR



UKRAINTIAN SSR: Radio Rodina 15570 via Lwow f/d cd. in 3 mo.(Barto-CT).

Radio Station Atlantika 15135 via Vinnitsa f/d cd. in 3 mo. w/ station schedule.(Barto-CT).

USA: KUSW 15590 f/d "Scenery" cd. in 10 ds.(Westdal).

WCSN 9850 f/d "Transmitter Site" cd. in 28 ds. (Washburn-ME). f/d cd. in 30 ds.(Nagengast-MN). 21640 same cd. in 43 ds. v/s Ed Cockburn.(Name?)

Radio New York International 7520 via WOCR f/d "Pirate Ship" cd. in 23 ds. for SASE.(Blumstein). same f/d cd. in 26 ds. for SASE. Schedule was rcvcd. v/s Randi Steele.(Palmersheim-MN). **WSHB** 9455 f/d cd. in 30 ds.(Nagengast-MN). 9410 same cd. in 40 ds.(Washburn-ME). **KCEI** 15280 f/d "San Francisco" cd. in 37 ds. (Blumstein). **WYFR** 11705 f/d "Globe" cd. in 21 ds.(Blumstein). **WJNB** 15145 f/d cd. in 11 ds.(Blumstein). **VOA** 19261.5 (LSB) via Bethany f/d "Photo of Transmitters and Transmitter Building" cd. in 32 ds. for a report on VOA Europe LSB feeder of a special broadcast on the occasion of a meeting of the EDXC in 1990.(Washburn-ME).

USA (Private): Radio USA f/d "Uncle Sam" cd. in 15 ds. via the Wellsboro address. (Moore). **WTMN** 7410 f/d sheet in 56 ds. for 3 ms. (Paszkievics-WI). **Omega Radio** 7407 f/d multi-colored "Logo" cd. in 32 ds. for a rpt. to the Wellsville address. Ltr. was also rcvcd.(Zeller-OH). **East Coast Beer Drinkers** 7415 f/d "Blue Pirate Beer Bottle" sheet in 16 ds. for a report to the BRS address.(Zeller-OH). **OKLN** 7413 p/d "Detroit Highway Map/Logo" sheet in 43 ds. for a rpt. to the BRS address. v/s John C. Lodge. Also rcvcd. color studio photo, tape

of program and a personal ltr.(Zeller-OH). **WOKR** 7401 f/d "Actual Time Card" w/ reception report times punched in! this in 20 ds.(Zeller-OH)...now there is a creative individual!...sam. Voice of OZ 7411 f/d green "Wizard of OZ Pictures" and a map of OZ in 55 ds. QSL # One! v/s Howard E. Lyon. (Zeller-OH). **WHDA** 7415 f/d blue "Oscilloscope" cd. in 17 ds. (Zeller-OH).

UZBEK: Radio Tashkent 15460 p/d "Map" cd. w/ schedule and 3 postcards in 113 ds. for 2 IRCs.(Wallace-CT).

VATICAN: Radio Vatican 6248 f/d cd. in 6 wks. (Moore)...

Don points out that the transmitter site for 6248 is actually located on Vatican territory while all of the other frequencies utilized by Radio Vatican emanate from Santa Maria Galeria, outside of Roma...Sam.

VENEZUELA: Radio Nacional de Venezuela 11862 p/d folder cd. w/ ltr. in 1089 ds. after a f/up rpt. in SP for 2 IRCs and ms. Station sticker was rcvcd. v/s Mei-Ling Talavera Rojas, Supervisor de Produccion and Ivan Russa Crespo, Jefe del Canal Onda Corta.(Brouillette-IL).

VIETNAM: Hoang Lien Son Radio 5596.1 and 6720.2 p/d cd. in 5 mo. w/ Voice of Vietnam pennant and schedule.(Barto-CT).

YUGOSLAVIA: Radio Jugoslavia 11735 f/d "Pula" cd. in 37 ds.(Blumstein). 9620 and 7240 f/d "Dunav Fest" cd. in 3 mo. for a 76 reception.(Barto-CT).

NOTES: Don Weber says that the QSLing business is starting to become very hard. We all know that to be too true...Sam. **Jerry Klincek** finally hit the C/V 150 mark this past month. Jerry uses an R-5000 as his primary receiver an an HQ-180EX as a backup. Good receivers Jerry...Sam. **Brian Boulden** of 480 Pacific Avenue, Fairfield, CA 94533 checks in for the first time with some excellent QSLs. Glad to have you with us Brian...Sam. **Michael Woloch** in Quebec was very pleased with his recent QSL from Syria. He is still waiting for Rio Muni. International relations work wonders. Ever notice how closely related foreign governments are with their radio stations and other responses to inquiries from listeners such as ourselves?...Sam. **Mike Westdal** of Sacramento, CA also checked in with several nice reports to the QSL Column. Keep sending in those reports. We can use all of them...Sam.

Until next time.....best of QSLing.

Sam



Contributors' Page



Vernon Hyson
9835 Lone Eagle Lane
Charlotte, NC 28215

LOGGINGS CONTRIBUTORS - FEBRUARY 1991 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	RK641 Indoor LW
Dino BLOISSE, Jersey City, NJ	NRD525 SPR4 AD Sloper 500' Beverage
Brian BOULDEN, Fairfield, CA	R5000 Sloper
John CARSON, Norman, OK	NRD525 Antenna Farm
Edward CICHOREK, New Brunswick, NJ	
David CLARK, Newmarket, ONT	
David COPP, Rockford, IL	
Kurt COX, Leaburg, OR	SX190
Patrick CRUMHORN, Austin, TX	NRD525 LW
Kenneth DUPERE, Point Blank, TX	
Rich D'ANGELO, Wyomissing, PA	R70 AD Sloper
Richard FOLAND, Grand Rapids, MI	DX440 LW
Harold FRODGE, Midland, MI	R71A LW Trap Dipole
Ed GIBBS, Virginia Beach, VA	
Pete GRENIER, Sparks, NV	FRG7 MFJ1020A
Vincent HAVRILKO, Myrtle Beach, SC	FRG7700 AD270
Eric JOHNSON, Philadelphia, PA	R5000 AD Sloper
Jerry JOHNSTON, Lexington, KY	NRD525 Eavesdropper
Rufus JORDAN, Pittsburg, PA	DX302
W. KARCHESKI, Holden, MA	
Jerry KLINCK, West Seneca, NY	R5000 LW 60m Dipole
Bill KURRRASCH, Ontario, NY	R5000 LW
Harold LEVISON, Philadelphia, PA	R70
John LYON, White Bear Lake, MN	TS940S 40m Dipole
Robert MONTGOMERY, Levittown, PA	R390 LW
David MORBY, Clifton Park, NY	NRD525 AD Sloper
Dale PARK, Honolulu, HI	R5000
Sheryl PASZKIEWICZ, Manitowoc, WI	NRD515
Martin PECK, Bronx, NY	R71A
John PRATH, Ft. Lauderdale, FL	NRD525
Ronald PURDUE, Byron, MN	FRG8800 AD370
Greg RAVENHORST, Walker, MN	
Jim RENFREW, Rochester, NY	ICF2010 LW
Daniel SAMPSON, Arcadia, WA	FRG7700
Dan UNRUH, Ellensburg, WA	
Wallace TREIBEL, Seattle, WA	NRD525
Mike WESTDAL, Sacramento, CA	
Mike WOLFSON, Ashland, OH	R5000 LW
Juichi YAMADA, Nara, JAPAN	NRD525
Robert ZILMER, Rio Rancho, NM	NRD525

While building an antenna recently, I came to realize first hand an old Law - "Any wire cut to length will be too short" - trust me on this one.

I've been taping Radio Baghdad & Kol Israel for the local NBC station here...boy is commercial broadcasting a very different world! It took me 3 weeks to convince them that there is a difference between a Ham & a SWL/DXER. I'm not sure that battle is over yet. I'll be glad when they no longer have an interest in the Middle East except for how many wives the Sultan has.

Only 2 late loggings this month!! We'll catch you next month. Thanks for all your sharings!! Good DX y'all!

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



Welcome to another great Tropical Loggings section, thanks to all of you. Our prayers go out to all the families involved in the Persian Gulf War. We hope that peace won't be far off.

- 1620 PIRATE, WJDI, 12/25, 0155 w/spirituals, ID, asked for rpts. SIO=313. (Levison-PA) 12/25, 0417-0458° w/pop mx, ID, "5000 watts," fake ads, Box 3821, Kingston, NY 12401 addr, s/off w/NA. (Alexander-PA)
- 2310 AUSTRALIA, VL8A, 12/1, 0928 ID, nx, "Sentimental Journey" pgm. SIO=252. (Frodge-MI) 12/27, 1400 w/C&W mx //2485. (Zilmer-NM)
- 2340 CHINA, Fujian PBS, 12/28, 1330-1400 w/EG lang lessons. (Zilmer-NM)
- 2390 MEXICO, R. Huayacocotla tent, 12/30, 0045 w/mariachi mx, severe QRN, singing & flutes. (Peck/Bianco-NY) 12/4, 0055, tlks, nx 0101, ID & "La Voz de la Santa Cruz," NA to 0115° (Karcheski-MA)
- 2410 NEW GUINEA, R. Enga, 12/22, 1244 tlk in Pidgin, mx, still audible 1305. Also 12/26, 1256 tlk, guitar, anmts & ment Enga, PNG anthem 1259. (Clark-ON)
- 3200 SWAZILAND, TWR, 12/10, 0258, IS, ID, rel mx, tlk in Ndebele. (Klinck-NY)
- 3205 INDIA, AIR Lucknow, 12/25, 1237 subcont mx, fairly strong, this and AIR Kurseong 3355 best on band. (Clark-ON) Also 12/13, 1243 w/tlk, subcont mx, fair-good sig. Well over PNG station. 1st time hrd this season. (Clark-ON) 1/1, 1635-1740 w/long mx in vern, 1730 TP, EG home nx, 1735 Hindi home nx to 1740° (Yamada-JAPAN)
- 3214.9 SULAWESI, RRI Manado, 1/6, 1244+ w/Hawaiian guitar mx, nice peaks during fade ups at sunrise. (Clark-ON) 12/15, 1330-1410 w/Western pop mx, 1400 ID, nx, 1407 mx, 1409 closing anmt, mx to s/off. SIO=333. (Yamada-JAPAN)
- 3215 SOUTH AFRICA, R. Orange, 12/12, 0322 w/AK & EG pop mx, AK ad, EG TC. (Frodge-MI)
- 3224.9 SUMATRA, RRI Tanjung Pinang, 1/5, 2242 tlk by YL, good sigs from Sumatra on 90 meters, each w/own pgm. (Clark-ON)
- 3235 INDIA, AIR Guwahati, 12/25, 1235 EG nx, lcl mx, have yet to hear this & 3375 on same day, tho supposed to be separate pgms. (Clark-ON)
- 3241.5 MOLUCCAS, RRI Ambon, 12/28, 1250 fade up, tlk by M&W, choral mx across the hour, weak sig. (Clark-ON)
- 3250 HONDURAS, R. Luz y Vida, 12/8, 0235, SP ID, Big Ben chimes, guitar mx, tlk by 2 men. (Peck/Bianco-NY)
- 3264.7v SULAWESI, RRI Gorontalo, 1/2, 1207 mixing w/RRI Bengkulu, Jul nx, hard to differentiate since equal sig strength. Gorontalo gone at 1232 recheck. Seldom hrd here (Clark-ON)
- 3280 CHINA, Vo Pujiang, 12/6, 1150-1218 fade, instl mx, 1200 ID, nx, tlks at 1216 //4950. SIO=252. (D'Angelo-PA)
- 3290 NAMIBIA, NBC, 12/28, 0258 EG ID, pop mx pgm (Klinck-NY)
- 3300 GUATEMALA, R. Cultural, 12/28, 0245 IDs, promos, Xmas mx, rel mx, 0300 EG ID, Back to Bible pgm. (Carson-OK) 12/6, 0300 EG Back to Bible pgm, freq anmt. (Price-PA) 12/21, 0400 Insight for Living pgm, ID. (Foland-MI) 12/14, 1150-1230 SP tlk, hymn, ID, SIO=242. (Yamada-JAPAN)
- 3304.5 UNID, AIR Ranchi most likely, good carrier, about same strength as PNG & Dili nearby. Also AIR Kohima on 3268 at 1320. Both 12/30 & 1/1. (Clark-ON)
- 3306 TIMUR, RRI Dili, 12/14, 1335-1405 w/tlk, lcl pops, 1359 chime, ID 1400, nx, SIO=333-232. (Yamada-JAPAN)
- 3315 ADMIRALTY ISLANDS, R. Manus, 12/7, 1158 Pidgin, pop mx, ID, nx, mx, clear ID & TC 1204, fair-good. (Karcheski-MA)

- 3315 INDIA, AIR Bhopal, 12/30, 1321 w/subcont vcls by YL. Seldom hrd this season. (Clark-ON)
- 3316 SIERRA LEONE, SLBS, 1/2, 2218-2231° EG ID, C&W mx, good today. (Morby-NY) 12/1, 2219 reggae & hilife mx, SLBS ID 2259, TC, drums, nx 2300, sked, mx, rel messages, band anthem to s/off 2332. (Frodge-MI) 12/12, 2224 EG mx, ID, TC 2225, rel sermon, FC, NA to 2230° Fair. (Karcheski-MA)
- 3320 NORTH KOREA, Pyongyang PBS, 12/28, 2220 w/tlks, patriotic choral mx, //3350 (KCBS Pyongsong). Other Korean outlets also hrd, 1st showing of 90m outlets. (Clark-ON)
- 3320 SOUTH AFRICA, R. Suid Afrika, 12/28, 0305 AK mx variety pgm, anmts. (Klinck-NY)
- 3324.8 GUATEMALA, R. Maya de Barillas, 12/16, 1220 SP tlk, guitar mx, fair. (Lyon-MN)
- 3326 NIGERIA, R. Nigeria Lagos, 2240 EG soul mx, creamed by ute at 2255. (Lyon-MN) Date?
- 3345 KASHMIR, R. Kashmir tent. 12/25, 1238-1240 w/Hindi nx // 3355, fade by 1245, mixing w/mx pgm (prob. Ternate) Today one of best 90m openings to India. Would've liked to have a Farley loop antenna this day. (Clark-ON)
- 3355 INDIA, AIR Kurseong, 12/22, 1128 IS, subcont chants, good w/YL tlk 1151, fanfare, mx, 1230 EG nx. Also hrd 12/25 & 1/1. Best indicator for 90m AIR reception. (Clark-ON)
- 3365 INDIA, AIR Delhi, 12/25, 1252 overpowering nearby utility w/YL subcont vcls. (Clark-ON)
- 3375 INDIA, AIR Guwahati, 12/30, 1242 tlk by OM, drums/mx 1246, YL tlk, poss. carrier on 3235 too. (Clark-ON) Also 1/2, 1220 w/mx breaks btwn tlks, good yet 1242 UTC. (Clark-ON)
- 3377.4 JAPAN, NHK Osaka, 12/25, 1215 unbelievably good sig, choral mx, JP tlk 1220, 1230, no pips 1300 but choral chant to 1301° Sig vastly superior on SW beverage. (Clark-ON)
- 3380 GUATEMALA, R. Chortis, 12/8, 0150 SP lcl mx, ID, ment. Jocotan. (Prath-FL)
- 3385 LESSER SUNDAS, RRI Kupang, 1/6, 1307 weak w/Jak nx, anthem, faded, infrequent in mid-winter. (Clark-ON)
- 3385 NEW BRITAIN, R. East New Britain, 12/6, 0805 ending EG nx, tlk in Pidgin. (Clark-ON)
- 3394.8 ECUADOR, R. Zaracay, 12/9, 1045 SP HC mx, IDs. (Klinck-NY)
- 3394.8 SUMATRA, RRI Tanjungkarang, 1/2, 2205 Jak nx, anthem 2206, generic ID 2209, strong but distorted at 2225. (Clark-ON)
- 3473y BOLIVIA, R. Padilla, 12/30, 2331 w/nx or PSAs, ment Padilla, fanfare & ID 2335, vcls, noisy 2350 & fading (Clark-ON)
- 3662.7y AZAD KASHMIR, Azad Kashmir R., tent but definitely suspect this, 12/30, 1254, mx & OM tlk to 1255 fade. the carrier fair past 1300. 12/31 at 1246 w/subcont mx, OM tlk to 1255 fade. 1/2, 1240 bits of tlk, subcont vcls, very poor. This has been rptd by Roland Schulze in FT at 0040 s/ons. (Clark-ON) A fantastic logging even if tentative. This is the only outlet coming direct from the radio country of Azad Kashmir. Other AK stations are Pakistan relays. Believe yours & Roland's logs are only I've ever seen.--sp
- 3904.8 SUMATRA, RRI Banda Aceh, 12/28, 2257 SCI, Jak nx, nx cut off 2315, then tlk after break, vcls, fair at times. (Clark-ON)
- 3925 JAPAN, R. Tanpa, 1/6, 0930 JP w/YL tlks. (Grenier-NV) 1/2, 1341 JP tlks, rock mx, ID 1405, more tlks, SIO-222. (Carson-OK)
- 3945 VANUATU, R. Vanuatu, 1/2, 0855 w/IS, nx, R. New Ireland also good on 3905 at this time. (Clark-ON)
- 3955 ENGLAND, BBC, 12/19, 2004-2020 EG nx, ID, fair. (Yamada-JAPAN)
- 3985.9 IRIAN JAYA, RRI Manokwari, 12/28, 1305 hrd thru ham QRM, lcl nx. (Clark-ON)
- 4000 SOUTH KOREA, R. Korea, 11/29, 1133-1159 EG nx, SW Feedback. Sig broke up at lcl sunrise. They QSL'd this but did not reply as to whether a relay or what. SIO=433 but this not shown in skeds. Very unusual. (Gibbs-VA)
- 4002.7 SUMATRA, RRI Padang, 12/30, 2255 tlk by YL, lcl ID, SCI, pause before Jakarta pgm but not nx. (Clark-ON)

- 4635 TADZHIK SSR, Dushanbe, 12/8, 0155 w/folk mx, flute, ID
200 w/tlks by YL. (Peck/Bianco-NY)
- 4719.3 CULAWESI, RRI Ujung Pandang, 12/6, 1143 w/tlk, nice mx,
fair & still audible 1245. (Roupe-WV) 12/13, 1551 w/EZL
mx, tlk, SCI to 1600° (Park-HI) 12/31, 1623-1640 tlks,
chorus, special New Year pgm SIO=444. (Yamada-JAPAN)
- 4740 USSR, R. Afghanistan relay, 12/30, 0142 in Dari w/ Qur'an,
polar flutter. Tlks & ment Afghanistan. (Peck/Bianco-NY)
12/16, 0230 w/TPs, ID, tlks. (Prath-FL)
- 4750 CAMEROON, R. Bertoua, 12/9, 2123-2231° vern/FR. Afr.
hilife mx, tlks, pop mx, NA to s/off. (Alexander-PA)
- 4750t TIBET, CPBS Lhasa, 12/3, 1155 CH vcl mx, poor & audible
only in LSB. (Karcheski-MA)
- 475j SULAWESI, RRI Ujung Pandang, 12/31, 2110 fade in, also
at 2200 on 1/1. Has remained steady on 4719.3 in the
mornings. (Clark-ON) 12/18, 2112-2125 tlks, ID 2121,
Islamic mx pgm, SIO=443. (Yamada-JAPAN)
- 4755 HONDURAS, Sani Radio, 12/20, *1200-1211 SP/Miskito, orch
anthem, ID, anmts, lcl mx. SIO=2+52+ (D'Angelo-PA) 12/1,
2315 SP variety mx, several IDs. (Prath-FL) 12/13, 2330-
2400° ballads/pops, steel drum mx. Canned IDs by YL, OM
DJ. Closing anmts & mx to s/off, weak. (Alexander-PA)
- 4765 CONGO, RTV Congolaise, 12/13, *0355-0407 FR w/IS, OM ID,
anmts, FC, hilife mx, Russian relay on 4760 this night.
SIO=353. (D'Angelo-PA) 12/28, 2140-2246 FR tlks but EG
ID at start & end of nx. Mx. SIO=343. (Yamada-JAPAN)
12/21, 2204 nx in EG & ID, then into FR. SIO=333.
(Cichorek-NJ) 12/28, 2215 EG political cmtry, mx. (Klinck)
12/10, 2345 FR pop mx, ID, NA to s/off, very good. (Lyon-MN)
- 4770 NIGERIA, R. Nigeria Kaduna, 12/16, 2116 EG cmtry on Liberia,
ID 2118, vcls, TC, ID, "Christian Songs of Praise." SIO=322
(Cichorek-NJ)
- 4780 DJIBOUTI, R. Djibouti, 11/27, 0317, nx, Somali ID, Afr. &
AR mx, RTTY QRM, only audible in LSB. 1st time after many
tries. (Brown-PA) Congrats!!--sp. 12/31, 2057-2130 w/ME
style mx, one Western ballad, tlks. (Clark-ON) 12/16, 2200
FR w/ME type mx, tlks, ment Djibouti. (Klinck-NY)
- 4783.9 MALI, RTV Malienne, 12/15, 0655-0720 FR, Afr. mx, nx 0700
774835, 5995.1. (Alexander-PA)
- 4785 AZERBAIJAN SSR, Radio Baku, 12/22, 0235 w/folk mx w/glottal
trilling characteristic of Turkish mx, tlks. (Peck-NY)
- 4785 USSR, R. Moscow? 12/16, 0300 RS "Govorit Moskva" ID, NA,
nx, tlks, thot Baku would be here. (Prath-FL) Could've been
an RM relay via Baku--sp.
- 4790.4t INDIA, AIR Shillong, 12/13, 1601 EG w/nx, sounds Indian
accented, very poor sig. (Park-HI)
- 4790 PERU, R. Atlantida, 12/9, 0913 SP lcl mx, tlk, ID (Klinck-NY)
- 4795 USSR, R. St. Peace & Progress, 12/6, 2200-2210 EG nx, ute
QRM covered it 2210, SIO=322. (Roupe-WV) 12/1, 2200 EG
ID, nx, cmtry on Lithuania. (Prath-FL) Site may be Kharkov-sp
1/4, 2206, tlk abt aid to USSR, etc. (Cichorek-NJ)
- 4799.8 GUATEMALA, R. Buenas Nuevas, 12/22, 1159 w/Silent Night,
ID, Little Drummer Boy, etc. (Cichorek-NJ) 1/5, 1215, long
tlk, ID, band mx, marimbas, chang to lang 1230. (Lyon-MN)
12/1, 2330 SP, ID, lcl mx, tlk. (Prath-FL)
- 4800 LESOTHO, R. Lesotho, 12/28, 0328 lang w/Afr. mx, tlks
(Klinck-NY) 12/17, 0345-0410 w/mx & tlk, ID 0350 in lang.
SIO=454. (Cox-OR)
- 4810 ARMENIA, RM 1st Pgm, 12/8, 0200-0230 w/instls, TP, ID,
anthem to nx, orch & MOR mx, very poor. (Jordan-PA)
- 4810 SOUTH AFRICA, SABC, 12/27, 0345 AK w/tlk btwn 2 OM.
(Grenier-NV)
- 4815 BURKINA FASO, RTV Burkina, 12/19, 0536-0605 FR lcl mx,
reggae, ID 0601, PSAs, SIO=343-212. (Cox-OR) 12/8, 0606,
hilife & pop mx, good sig. (Lyon-MN)
- 4820t HONDURAS, HRVC, 12/15, 0157 SP, rel mx, SIO=222. (Peck-NY)

- 4829v MONGOLIA, R. Ulanbataar, 1/6, 1155 //4850, 4995. Relay of Moscow pgm, 6 TP 1200 & into lcl pgm (Clark-ON)
- 4835 MALI, RTV Malienne, 12/19, 0610-0640 FR & lang w/mx & tk by OM. SIO=444. (Cox-OR)
- 4839.5 COSTA RICA, R. Reloj, 0845-0855 on 12/9 SP IDs, TCs, off their usual freq of 4832. (Alexander-PA)
- 4839.5 VENEZUELA, R. Valera, 0251 tk, mx, ID on 12/17 (Johnston-KY) 12/17, 0913 w/EG ID, "R. Valera, broadcasts to the world." Rpts to include 2 IRCs. (Brown-PA)
- 4844.8 GUATEMALA, R. K'ekchi', 12/30, 0230 w/marimbas, vcls, full ID, addr 0237, into Indian lang pgm. (Prath-FL)
- 4845 MALAYSIA, RTM, 12/9, 0759 Tamil w/tlks & SE Asian mx. (Klinck-NY)
- 4845 MAURITANIA, ORTM, tent on 12/6, 0320 AR w/prayers, group vcls, no ID, seemed to be off at 0352. (Jordan-PA)
- 4850 CAMEROON, CRTV Yaounde, 12/30, 0442-0533 EG w/rel pgm, ID 0500, 0530, SIO=353. (Kurrasch-NY) 12/24, 0526 cmtry hilife & Frank Sinatra mx alternating. (Lyon-MN) 12/25, 0532-0546 EG rel svc & choir, SIO=454. (D'Angelo-PA) 12/11, 2105-2115 EG nx, several IDs, good. (Morby-NY) 12/16, 2101 EG ID, nx, poor, 2107 ID. (Cichorek-NJ) 12/27, 2245 EG interview, pop mx, good. (Copp-IL)
- 4850t INDIA, AIR Kohima, 1/1, 1230 seemed //3355 for EG nx, subcont vcls but 3355 continued w/Hindi nx. Wiped out by QRM 1239. (Clark-ON)
- 4855.9 SUMATRA, RRI Palembang, 12/23, 2235 w/YL tk, mx past 2240. (Clark-ON)
- 4860 INDIA, AIR Delhi, 12/8, *0022-0040* tsst tone, IS 0028, 6 TP 0030, tk, too weak to ID lang, weak. (Alexander-PA) 12/23, 1310 vcls, tones, TC, ID, nx, fair-good. (Lyon-MN)
- 4860 USSR, R. Moscow, 12/29, 2200 RS ID, nx //4765 (Prath-FL)
- 4863.9p MOLUCCAS, RRI Ambon, 1/5, 1305 Jak nx, anthem 1312, poss. lcl ID, YL anncr at 1315 peak, maybe //3241.5. Also 1/6 w/"Rock of Ages," etc., couldn't make out ID. Lower level to 1405 Love Ambon & s/off. Rare to hear this late. (Clark)
- 4870 BENIN, ORTB, 1/1, 2148-2222 FR w/mx, nx, tk, sev. IDs, SIO=444 but faded. (Kurrasch-NY) 12/21, 2155 FR pop vcls, 2159 ID, lively vcls, SIO=322. (Cichorek-NJ)
- 4870 ECUADOR, R. Rio Amazonas, 12/30, 0210 w/Andean mx, tk, ID by OM. (Prath-FL)
- 4875t BRAZIL, R. Timbira, 12/5, 2325 fast tk, poss jingle ID 2326. (Johnston-KY)
- 4875 CHINA, Vo Jinling, 12/24, tlks in CH, SIO=333. (Cichorek-NJ) Time?
- 4877 CHINA, Vo Jinling, 12/31, 1215-1250 w/lcl mx, ID 1230, tk. Since this moved from 4875, we can hear RRI Sorong. SIO=443. (Yamada-JAPAN) 12/27 at 1300 up from 4875, still here 1/1. (Clark-ON)
- 4880 BANGLADESH, R. Bangladesh, 12/26, 1218-1243 fade in Bengali discussion, IS, ID 1230, nx by OM, some CW QRM. (D'Angelo) 12/24, 1324 w/tlks, ID, nx, fanfare. Also hrd Bhutan & Nepal. (Clark-ON)
- 4883 CHINA, R. Beijing, 12/13, 1156-1208 in Mongolian pres., vcls, IS, ID, nx & into mx 1206, poor. (D'Angelo-PA)
- 4885 COLOMBIA, Ondas del Meta, 1/4, 1140 SP cmtry, ID, pop mx at 1146. (Crumhorn-TX) 12/8, 2315 pop mx, promos, phone number, IDs. (Prath-FL)
- 4894.7 VIETNAM, Hanoi w/continuous VT mx //10058.7, fair-good. Home Service in VT. (Treibel-WA)
- 4904.5 CHAD, Rdf. Nat. Tchadienne, 12/31, 0505-0600 FR mx, nx, tk, sev. IDs. SIO=343. (Kurrasch-NY) 12/24, 0600 vern, ID, AR mx, good. (Lyon-MN) 12/1, 2058 noted previous days but not today. (Johnson-MD)
- 4905.1 CHINA, CPBS1, Beijing, 1/2, 2313 strong w/tlk, mx break 2314, //4460. (Clark-ON) 12/25 tent at 2330 w/tlks at poor-fair level, then faded. (Prath-FL)

- 4905.3 BRAZIL, R. Relogio Federal, 12/8, 2345 tlk, TPs & anmts every minute, ID. (Prath-FL)
- 4911 ECUADOR, Emisoras Gran Colombia, 12/16, 0130 w/upbeat LAM mx, ID, phone number (Prath-FL) 12/9, 0130-0205 mx, ads, jingles, ID 0202, soccer 0425, good sig. (Alexander-PA)
- 4915 GHANA, GBC-1, 12/31, 0607-0645 EG & lang w/nx, sports, cmtry, sev. IDs. SIO-444. (Kurrasch-NY) 12/30, 2143 ID, TC, rel mx, "We are the Children." (Cichorek-NJ) 12/22, 2244 EG nx, IDs, armchair copy. (Klinck-NY) 12/11, 2247 EG nx, TC, ID. (Foland-MI)
- 4920 AUSTRALIA, ABC Brisbane (VLM4), 12/4, 1200 tlk, ID, nx, "Yellow Submarine," fair. (Karcheski-MA) 12/29, 1250 mx, Allen Sherman songs, "Layla," TP 1300, ID, nx. (Cichorek-NJ) 12/22, 1703-1720 ID & mx, SIO-343. (Yamada-JAPAN)
- 4926 RIO MUNI, RN, 1/2, 2150-2201 SP LA mx, 2158 NA to 2201* (Copp-IL) Good to hear from you again, Dave--sp.
- 4926.9 SUMATRA, RRI Jambi, temporarily off the air last week of December and 1/1. (Clark-ON)
- 4930 DOMINICAN REPUBLIC, R. Barahona, 12/20, 0015-0115 SP vcls, IDs, anmts, ads, xmtr hum. (Jordan-PA) 12/25, 2310 sev. IDs, good sig but bad hum. (Prath-FL)
- 4935t KENYA, KBC, 12/1, 2048 EG Western pops, ID & nx, cmtry, anthem to 2110* (Klinck-NY)
- 4939.6 VENEZUELA, R. Continental, 12/16, 0010 pops, nx, bank ads, phone number. (Prath-FL) 12/17, 0204 tlk, ID, het QRM. (Johnston-KY) 12/18, 0300 salsa mx, IDs, QRM from strong intermittent carrier on 4940. (Crumhorn-TX) Tnx for contributing--sp. 12/24, 0515-0525 mx w/ID, anmts, very good for listed 1 kw. (Morby-NY) 12/24, 0645-0745 mx, Elton John tune, EG ID 0721, addr, offered QSL card, very good. (Alexander-PA)
- 4945 BRAZIL, Rdf. Pocos de Caldas, 12/5, 0157 ID, anmts, partial song hrd before faded out 0200. (Johnson-MD)
- 4950 SARAWAK, RTM Kuching, 12/30, 2228 EZL vcls in GR, OM anmts 2237, fade 2240. Also 12/31, 2159 w/anthem, tlk abt Hong Kong, EZL mx. (Clark-ON)
- 4955 BRAZIL, R. Marajoara, 12/15, 0200-0300 OM DJ, lively pops, echo anmts, ads, 3 IDs, QTH references. (Jordan-PA)
- 4975 BRAZIL, R. Iguatemi, 12/22, 0810-0835 Braz. pops, screaming anncr, ID 0823, fair w/RTTY QRM. (Alexander-PA)
- 4976 UGANDA, R. Uganda, 12/28, 0358 EG ID, nx. (Klinck-NY) 12/23, 2031 EG chorus, ID, brief NA, weak. (Cichorek-NJ)
- 4990 INDIA, AIR Madras, 12/8, *2357-0008 IS, tlk in lang, subcont mx, very weak. (Alexander-PA)
- 4995 MONGOLIA, R. Ulanbataar, 12/16, 1115 fair & clear w/domestic mx //4081.1, 7262.4. 1145 flute IS to 1147 tlk. (Clark-ON)
- 4995.8 PERU, R. Andina, 12/9, 1035 lcl mx, IDs by OM. (Klinck-NY)
- 5003.5 RIO MUNI, RN, 12/23, 2120-2203* SP tlk, closing anmts & NA to s/off. (Alexander-PA) 12/2, 2122-2204* long tlk, brief mx bridge, ID & NA. (D'Angelo-PA)
- 5005 NEPAL, R. Nepal, 12/24, 1315 TP & still audible 1404 w/ domestic vcls, anmts by YL. Also 1/1 just fair thru ute at 1126. (Clark-ON)
- 5010 CAMEROON, R. Garoua, 12/2, 2255-2301* FR tlk, closing anmt, NA. Also hrd at 2135 w/tlk in lang & Afr. folk mx. (Alexander-PA)
- 5010 SINGAPORE, SBC, 12/29, 2228 at nice level w/EZL mx, Radio One ID 2235, going down by 2240 //5051.9 (Clark-ON)
- 5011.1 ECUADOR, Esc. Radiofonias Pop, 12/29, 0911-0920 ID, rustic Andean mx, ment Riobamba. (Alexander-PA)
- 5012 CAMEROON, R. Garoua, 12/26, 0535 FR w/OM DJ, good sig. (Copp-IL)
- 5015 USSR, R. Moscow, 12/30, 0400 RS w/ID, nx, ute QRM. (Prath-FL) Arkhangelsk R. tent, 12/8, 0440 RS tlk & ment Arkhangelsk, ute QRM & polar flutter. (Peck/Bianco-NY)
- 5020 NIGER, LV du Sahel, 12/31, 0645-0658* FR mx & tlk, ID, SIO-333, ute QRM. (Kurrasch-NY)

- 5025 BENIN, ORTB Parakou regional station, 12/24, 0642 good w/tlk & ment Benin, Parakou, still going w/hilife across the hour. Also 12/31, 2130. Seems to be very irregular-- on for holidays? (Clark-ON)
- 5034.4 CENTRAL AFRICAN REPUBLIC, RTV Centafricaine, 12/1, 2130 FR hilife mx, ID, anmts. (Klinck-NY)
- 5040 ECUADOR, LV del Upano, 12/15, 0012-0300* SP w/EG lang lesson, ads, jingles, ballads, anthem but not NA at 0255. (Alexander-PA) 12/30, 0155 tlk, ment Ecuador, pontifical march by Gounod w/orch. (Peck/Bianco-NY) 12/18, 0245 romantic mx, rel tlk, ID. (Crumhorn-TX) 12/9, 1111 fair w/ tlk, ID 1130. (Klinck-NY)
- 5040 GEORGIAN SSR, Tbilisi, 12/15, *0257-0330 RS IS, gongs, anthem, ID 0302, mx from Porgy & Bess. (Alexander-PA) 12/14, 0326 w/Megrelian, Georgian & Svanetian folk songs, ID, IS 0328. (Peck-NY) What, no Georgian drinking songs?-sp
- 5044.8 IRIAN JAYA, RRI Jayapura, 12/22, 1312 better than usual w/ songs. Nabire also in well on 5055.4 (Clark-ON)
- 5050t INDIA, AIR Aizawl possibly, 1/3, 1325 subcont mx, briefly over Nanning. Chinese dominated from 1330. Never had a definite log of Aizawl--always covered by China (Clark-ON)
- 5055.4 IRIAN JAYA, RRI Nabire, 1/6, 1342 organ mx, EZL vcls, closing amt 1354, 1cl IS, then moved to 6127.5. A repeat performance of 12/15 when Nabire also lasted to close on 60 meters. (Clark-ON)
- 5085 PAKISTAN, R. Pakistan, 12/8, 0048-0105 subcont mx, 3 TP O100, tlk in lang, weak. (Alexander-PA)
- 5256.3 SUMATRA, RRI Sibolga, 12/30, 2258 as good as I've ever hrd them this late, amt, SCI, Jak pgm but not nx //4002.7. Fade by 2305. (Clark-ON)
- 5260 KAZAKH SSR, Kazakh Radio, 12/8, 0210 folk mx, tlks, Jew's harp, stringed instruments, chorus. (Peck/Bianco-NY)

Thanks again and welcome to all the newcomers. Feel free to contribute often. Just got back from vacation and want to cover a few points before monitoring events in the Gulf.

Don Thornton of SPEEDX called 11/23 to tip me off re the Baghdad Betty station (Voice of Peace). Thanks a lot, Don.

Several more replies re Papua vs. New Guinea. JIM ROSCOE of the Univ. of Maine wrote and gave an interesting history of the area. The main island is split between the country of Papua New Guinea and the Indonesian province of Irian Jaya. Thus, there is no longer a division between Papua & New Guinea territories. While this is true & to eliminate further confusion, remember that the listings in this column refer to radio countries as outlined by the radio country list compiled by NASWA. This results in more possible radio targets for DXers than the amount of political countries on the map. You will notice that where the transmitter site is known, I will denote, for instance, Armenia, Georgian SSR, Tadzhik SSR, etc., instead of USSR. That is because each republic counts as a separate radio country under NASWA rules. Likewise, you will rarely see a listing under Indonesia here but rather under the name of the island group such as Moluccas, Sulawesi, Lesser Sundas, etc. What were formerly the territories of Papua & New Guinea now count as two separate radio countries. I list them like this as an aid in determining what radio country a station counts toward. Regarding abbreviations, PNG stands for Papua New Guinea, SCI is Song of the Coconut Islands. MARTIN PECK wishes me to mention that his loggings are on an Icom R71A, while the Peck/Bianco logs are on Dean Bianco's NRD-515. JERRY KLINCK also got a non-QSL reply from BBC Lesotho. Seems to me if they took the time to send the non-QSL, they could send the real thing.

Once again, there was an overflow of loggings. That's good! I am saving the January logs that didn't appear here till next month. Wonder if Radio Baghdad is still on? While searching for it, I found A Voz Resistencia do Galo Negro on 15500 doing a test broadcast! Bye.

International Band Loggings

5901-30000 kHz

Wallace C. Treibel
357 N.E. 149th Street
Seattle, WA 98155



- 5930 CZECHOSLOVAKIA RPI in EG 0310, Xmas in Czech, nx (Prath FL 12/25, Unruh WA)
 5935 USSR LATVIA R Riga in Latvian 0409, local mx, tlks, ID (Klinck NY 12/13)
 5955 YUGOSLAVIA RY in EG 2100, Ham R pgm (Carson OK) in Home Svce 2100 (Renfrew NY)
 5960 GERMANY D Welle in EG 0526, "Random Selection", vg, //9700 (Carson OK 1/7)
 5960 CANADA RCI in EG 0035, "SWL Digest" - 700th edition (Bloisse NJ 11/17)
 5975 SO. KOREA RK in EG 1600, nx, cmtry, //9870 (Zilmer NM 12/25)
 59843 SUMATERA RRI Pekanbaru in IN 2210, tlk, relig chants, p (Clark ONT 12/28)
 5990 ITALY RAI in EG 2225*, mx - "Theme from Star Wars", ID at s/off (Prath FL 12/29)
 6005 CANADA CFCX Montreal in EG 0103, wx rpt, casual ID's, p (Cichorek NJ 12/30)
 6005 ASCENSION IS. BBC relay in EG 0420, nx of military call-up (Unruh WA 12/28)
 60102 BRAZIL R Inconfidencia in PT 0020, BR pops/ballads, promos (Alexander PA 12/23)
 60148 TANZANIA VOT Zanzibar in SH 0345, chants/drums, nx re Iraq, ID (Clark ONT 12/26)
 6015 CANADA R Austria relay in EG 0530, nx, folk mx, exc (Unruh WA 12/18)
 60152nf? COLOMBIA R Mira in SP 0445, tlk, ID, ment Caracol network (Johnston KY 12/30)
 6025 IRAN(ε) IRIB Kamalabad in FS 0408, choral mx, prayers, tlks, p (Jordan PA 12/19)
 6025 DOMINICAN REPUBLIC R Amanecer Int in SP 1300, ezl mx, ID (Prath FL 12/31)
 6030 GERMANY SDR Stuttgart in GM 0700, nx, mx, tlk, ID's, GRM (Kurrasch NY 12/31)
 6035 GERMANY D Welle in EG 0206, nx, "European Journal", ID, //7285 (Wolfson OH 12/18)
 6040 ANTIGUA D Welle relay in EG 0124, welcome to "old" RBI listeners (Carson OK 1/1)
 6045 INDIA AIR Delhi in HD 1520, sub-cont mx, ID, f (Cox OR 12/19)
 6060 CHILE R Univ de Concepcion in SP 1130, current nx, ID (Bloisse NJ 11/25)
 6080 AUSTRALIA RA in EG 1205-1401, "International Report" (Carson OK, Prodge MI)
 6115 INDIA AIR Madras in HD 1400+, sub-cont mx, //9615, variety, f (Clark ONT 12/29)
 6120 FINLAND RF in EG 0730, "Northern Report", press review, f (Carson OK 12/21)
 6150 KENYA KBC in SH 2053-2111*, tlk, Afr vocals, choral NA* (Alexander PA 12/15)
 6160 CANADA CKZU Vancouver in EG 0804, Sat nite blues pgm, TC, GRM from SRI, blocked by DW Antigua carrier 0850 (D'Angelo PA 12/16, Renfrew NY 12/9)
 6175 CANADA BEC relay Sackville in EG 0320, nx mostly on China, exc (Unruh WA 12/18)
 6180 CYPRUS BBC relay in EG 0426, nx re the Persian Gulf crisis (Havrliko SC 12/22)
 6185 VATICAN STATE VR in EG/Latin 0630, ID, Mass in Latin w/translations (Carson 1/5)
 6190 GERMANY Sender Freies Berlin in GM 0737, US & Euro pops, f-g (Kurrasch NY 12/31)
 6190 GERMANY R Bremen in GM 0800, ID, mx, tlk, nx, +31 pips 0900, splatter from BBC on 6195 (Renfrew NY 12/15, D'Angelo PA 12/16)
 6190 SWITZERLAND SRI in EG 2250, "Dateline", tlks re Xmas (Prath FL 12/24)
 6248 VATICAN STATE VR in IT 0600 (Renfrew NY 12/9) in RO 0257, relig mx (Wolfson OH)
 62792 LEBANON King of Hope in EG 2144-2200*, relig pgm, ID, addresses & freqs, NA (Paszkiwicz WI, Alexander PA, Karcheski MA) in AR 0518, folk mx (Peck NY 12/15)
 6933 CHINA R Beijing in SP 2205, L Am nx, remote from Mexico, f (Prodge MI 11/30)
 7105 CONGO RTV Congolaise in FR *0655, IS, ID, Afr mx, DJ, p (Alexander PA 12/30)
 7110 ETHIOPIA VOE in Amharic *0328, IS, lcl mx, //97064, p (Alexander PA 12/24)
 71104 IRAN VOIRI in TK *0400, NA, lcl mx, tlk, f, //9022, 15084 (Alexander PA 12/9)
 7125 UNITED KINGDOM BFBS in EG 0210, pop mx, tlk, requests (Westdal CA 12/30)
 7125 VATICAN STATE VR in EG 0145, tlk on global pollution, f-p (Carson OK 1/1)
 7135 CYPRUS BBC relay in EG 0218, tlk on aid to the Soviets (Havrliko SC 12/14)
 7135 AUSTRALIA RA in VT 1328, IS, ID, into presumed nx, CWGRM, p (Cichorek NJ 12/23)
 7189v EQUATORIAL GUINEA R Africa in EG 2247, relig pgm, Gospel Hour (Copp IL 12/24)
 7240 AUSTRALIA RA in EG 0850-1030, local nx, cmtry, ID (Prodge MI, Klinck NY 12/9)
 7265 GERMANY Sudwestfunk in GM 0815, DJ's w/EG pop mx, f-g (Prodge MI 11/30)
 7270 POLAND RP in EG 2230, s/on w/nx, "What We Said" (Prath FL 12/8)
 7275nf? LIBERIA ELBC in EG *0800-0830*, NA, ID "Welcome to ELBC, the voice of peace, harmony & reconciliation..", pop mx, relig tlk (Alexander 1/1, Kurrasch 12/31)
 7285 GERMANY D Welle in EG 0220, Christmas mx & stories (Prath FL 12/25)
 7345 CZECHOSLOVAKIA RPI in EG 0300, nx, mx, ID (Cox OR, Purdue MN, Unruh WA 12/17)
 7370 TURKEY Turkish Police R in TK 0506, mx, annmts, ID (Paszkiwicz WI, Klinck NY)
 7412 INDIA AIR in lang? 1245, folk-style songs (Crumhorn TX 1/2) in EG 2200, nx, cmtry, on-off problems w/xmtr (Prodge MI 12/28, Poland MI 12/4)
 7465 ISRAEL Kol Israel in PT/EG 0150, tlks, //9435, 11605 (Johnston KY 12/25) in HB & EG 0055, Israeli reggae, cmtry on Gulf situation, ID, exc (Peck NY 12/30)

7510nf USA KTNB Salt Lake City in EG 0200-0400+, ID as TBN "Trinity Bcstg Network", ex-KUSW which left air 12/15, 15590 after 1600 (Alexander PA, Johnston KY 12/23)

7600 ECUADOR HD210A time sta in SP 0432-0500*, time anmnt on min, exc (Cox OR 12/5)

7670 BULGARIA Bulgarian R Stolnik in EG 0440, rock mx, tlk, waltzes (Peck NY 12/14)

9334 UNITED KINGDOM AFRYS feeder in EG 0310, nx, fqys, ID, sports rpt (Jordan PA 1/2)

9435 ISRAEL Kol Israel in EG 2005, nx, travel, nx, fqys & skeds (Copp IL, Unruh WA)

9480 MORACO TWR Monte Carlo in EG 0810, rig pgm, ID, "Words of Hope" (Carson OK 1/5)

9500 ALBANIA R Tirana in EG 0649, Albanian mx, NA at 0657 s/off, f (Carson OK 12/13)

9510 ROMANIA RRI in EG 0400, econ aid to Romania, folk mx, f, //9570 (Carson 1/5)

9515 BRAZIL R Novas de Paz in PT 2300, tlk, ID, freqs, mx (Johnston KY 12/29)

9535 SWITZERLAND SRI in EG 0745, nx, into FR 0800, g (Boulden CA 12/4)

9560 JORDAN RJ in EG 1500-1600, nx, mx requests for the holidays, ID, sked, tlk on Palestine issue (Zilmer NM, Cichorek NJ) in AR 2220, drama, g (Copp IL 12/22)

95651 INDIA AIR in EG 1330, nx, cmtry, sked, folk mx (Crumhorn TX, Zilmer NM 12/29)

9570 ROMANIA RRI in 0225, tlk re Xmas in Romania (Prath FL 12/25) in SP 0340, Xmas carols, ID, IS, address, xmsn sked, QRM (Wolfson OH 12/31)

9575 ITALY RAI in IT 0140, IS, ID, sked, nx (Wolfson OH) in EG 0105 (Havrliko SC)

9590 NETHERLAND ANTILLES R Nederland relay in EG 0415, tlk on Dutch police (Unruh WA)

9595 JAPAN R Tanpa Tokyo in JP 0829, EG lessons, lots JP tlk, //6055 (Renfrew NY)

9605 VATICAN STATE VR in EG *0049-0109*, Xmas Around the World (Kurrasch NY 12/26)

9615 INDIA AIR Bombay in lang 1359, vocals, tlks, ID/fqys?, //6115 (Clark ONT 12/30)

9615 NORWAY RNI in EG 0210, mailbag, interview, ID, address (Wolfson OH 12/23)

9620 YUGOSLAVIA RY in EG 0105, ID, tlk re problems of Albania, travel info (Peck NY)

9655nf? CHINA R Beijing in CH 1230-1256*, tlks, Asian vocals, ID, f-g (Jordan PA 12/7)

9660 VENEZUELA R Rumbos in SP 0243, ID, songs, tlks, DJ, bad QRM (Wolfson OH 12/23)

9670 PHILIPPINE IS. FERB in VT(p) 1310, choral singing, sermon, p (Cichorek NJ 12/30)

9685 TURKEY VOT in EG 2315, Xmas mx, tlk re meaning of Xmas, //9445 (Prath FL 12/24)

9695 SWEDEN RS in EG 0332, nx, wx, sports (Carson OK) in EG 1400, travel (Zilmer NM)

97064nf ETHIOPIA VoE in Amharic(p) 0350-0425, IS, ID, long tlk, lcl mx, nx, IS sounded like "jack-in-the-box" toy, chimes, //7110 under Iran (Clark ONT, Alexander PA)

9710 ITALY RAI in EG *1935, ID, YL with nx, better sig on 11800 (Prath FL 12/25)

9735 PARAGUAY RN del Paraguay in SP 0900, ID, nx bulletin, local mx (Bloisse NJ)

9745 ECUADOR HCJB Quito in EG 0325-0600, ID, nx, relig pgm (Purdue MN, Unruh WA)

9750nf USSR R Yerevan in AM 0331, ID "Yerevannu Khoosm", folk mx, f (Peck NY 12/30)

9760 AUSTRALIA RA in EG 0820, IS, pop mx, ID, sports roundup, f (Carson OK 1/5)

9760 ALBANIA R Tirana in EG 0230, director offers to accept ads on RTI (Carson 1/1)

9770 AUSTRALIA RA in EG 1430, cmntry on Australia's communications, f (Carson 12/30)

9770 MALI R Beijing relay in EG 0300, nx on development of China, g (Unruh WA 12/19)

9815 ITALY IRRS in EG 0830-0900*, old transcription from Chicago, ID, req rpts, UN radio pgm, mailbag, Xmas hymns (Johnson PA, Frodge MI, Paszkiewicz WI 12/22)

9860 AUSTRALIA RA in EG 1600, nx, cmntry re Australia, wx, many //'s (Zilmer NM 12/25)

9870 AUSTRIA RAI in GM 0101, ID, nx re Gorbachev (Havrliko SC 12/14)

9900 EGYPT R Cairo in AR 0236, tlk, mentions of Iraq, ID (Havrliko SC 12/12)

9915 UNITED KINGDOM BBC London in EG 0035, mx from "Guys and Dolls", g (Levison PA)

9925 BELGIUM BRT in EG *0030-0053*, DX pgm "Radio World" (Kurrasch NY, Prath FL)

9950nf SYRIA R Damascus in EG *2107-2209*, string IS, NA, ID, lcl mx, sked of upcoming pgms, nx 2114, s/off w/NA, //12085, both vg (Alexander PA 12/23)

10260 CHINA CPBS-2 Beijing in CH 1300-1400, IS, tlks, ID's, nx (Jordan PA 12/14)

11000 CHINA CPBS Taiwan 2 in CH 0354, IS, ID, martial choral mx, tlk (Peck NY 12/8)

11040 CHINA CPBS 2 in CH 0133, ethnic mx, classical mx, f (Levison PA 12/8)

11100 CHINA CPBS 2 Taiwan 2 Beijing in CH 1215, tlk, ID?, //15710 (Prath FL 12/29)

11330 CHINA CPBS 1 in CH 0410, tlks w/occasional blasts of UTE QRM, p (Peck NY 12/8)

11335 NO. KOREA R Pyongyang in SP 2333, martial mx, tlk re artists, f (Peck NY 12/8)

11580nf NO. MARIANAS KBI Saipan in EG 1700, ID, pgm notes, nx (Treibel WA 1/14)

11620 INDIA AIR in EG 1940, "Quiz Time", mx, g (Copp IL 12/22) in EG 2107, nx re USA aid to USSR, ID, sub-cont vocals, f (Cichorek NJ 12/22)

11680 BULGARIA R Sofia in EG 0000, ID, nx, lcl mx (Prath FL 12/30, Carson OK 12/23)

11685 CHINA R Beijing Kuming in CH 2353, CH folk mx, ID, IS, p (Peck NY 12/14)

11695 FRENCH GULIANA R Beijing relay in EG 0430, current affairs, vg (Boulden CA 12/12)

11700nf NO. KOREA R Pyongyang in SP 0000, electronic bells IS, ID, tlk, f (Peck 12/15)

11710 ARGENTINA RAE in EG 2315-0205, tlk, ballads, Andean mx, bells IS 0059, multilang ID's 0100, into EG 0102, into FR 0202 (Alexander PA 12/13, Jordan PA 12/5)

11715 SWEDEN RS in EG 1248, tlks re religion in Sweden, //17740, 21570 (Prath FL 12/1)

11715 MALI R Beijing relay in EG 0051-0325, cmntry, lecture, nx, ID, press clippings, travel tlk, CH cooking (Wolfson OH 12/23, Unruh WA 12/18, Levison PA 12/26)

11720 AUSTRALIA RA in EG 1500, world & Australian nx, mx, many //'s (Zilmer NM 12/20)

11735 FRENCH GULIANA R Japan relay in EG 2300, IS, nx, cmntry, exc (Carson OK 12/29)

11750 SINGAPORE BBC relay in EG 2040, tlk re Vienna-based musicals (Cichorek NJ 12/22)

11760 INDONESIA RRI Jakarta in IN 1059, IS, nx, ID, pop mx, //9680 (Yamada JAPAN 12/21)

11760 OMAN BFBS in EG 0436, taped messages to Gulf soldiers, p (Frodge MI 12/2)

11785 BRAZIL R Guaiba in PT 0902, nx, ID, fanfare, mx pgm, f (Yamada JAPAN 12/15)

11810nf7 SEYCHELLES FEBA in SH 0313, IS, relig chorals, annmnts (Clark ONT 12/30) NOTE:
Both WRTH 1991 & PWBR list this xmen at 11820. Did they move up 1 kHz?

11815 POLAND R Polonia in EG 1429, IS, ID, sked, nx re Poland's econ (Cichorek 12/29)

11830 IRAQ R Baghdad in EG 0245, AR mx, tlk, ID, propoganda (Prath FL 12/25, Purdue MN)

118348 URUGUAY R El Espectador in SP 2253-0105, long tlks, ads, jingles, ID, continuous
vocals & string, pop songs (Alexander PA 12/14, D'Angelo 12/24, Copp IL 12/24)

11865 SEYCHELLES FEBA in Kannada 1355-1400*, YL singing, ID 1358, IS (Wolfson OH 12/9)

11865 NORWAY R Denmark relay in DN 1530, IS, ID in EG, fgys, nx, f (Cichorek NJ 12/22)

11870 PHILIPPINE IS. VOA relay in EG 2115, SWL pgm, ID, nx issues, f (Cichorek 1/5)

11880 ZAMBIA ZNBC in EG 0500, pipe, nx, ID, Afr mx, --Sunday only (Alexander PA 12/16)

11890 OMAN R Oman in AR 1650, AR mx, ID on the hr, nx (Klinck NY 1/2)

11930 NETHERLAND ANTILLES TWR in EG 0307, "Caribbean Connection", f (Carson OK 12/30)

11935 SAUDI ARABIA BSK Riyadh in AR 1907, Holy Qu'ran pgm, chants (Wolfson OH 12/9)

11938 CAMBODIA VoPeople Phnom Penh in Laotian 1245, local mx, tlk (Klinck NY 12/13)

11940 ROMANIA RRI in EG 1300, IS, nx, tlk re changes in Romania, //21665 (Prath FL)
in EG 0400-0428*, mx of young Romanian composers, f (Carson OK 1/7)

11945 HONG KONG BBC relay in EG 2352, "1990 Music Countdown", nx (Kurraach NY 12/26)

11985 UNITED ARAB EMIRATES Abu Dhabi in AR 1713, AR mx, ID's, nx (Klinck NY 1/2)

12000 AUSTRALIA RA in EG 1950, ID, TC, pop reggae mx, international nx (Copp IL 12/27)

12010 AUSTRIA RAI in EG 1745, pgm of classical mx, ID, //13730 (Prath FL 12/25)

12015 MONGOLIA R Ulan Bator in EG 0939*, folk mx, ID, IS, into CH pgm *0950, muffled
audio. Beware of China, also on this freq (Alexander PA 12/16)

120184 VIETNAM VoV Hanoi in EG 2345, ID, tlks re Khmer Rouge (Prath 12/24) in EG 2047,
ID, "Welcome to Music Program", choral singing, into FR 2100 (Cichorek NJ 12/22)

12085 SYRIA R Damascus in EG 2010, Mideast mx, ID, nx (Poland MI, Cichorek NJ 12/31)

12105 GREECE VOG in EG 2339, ID, mx pgm, //9425 (Prath FL 12/29)

13610 GERMANY D Welle in EG 1500, "Newsline Cologne", African nx, sports (Zilmer NM)

13625 NO. MARIANAS KHBI Saipan in EG 2135, "News Focus", mail (Frodge MI, Kurraach NY)

13635 SWITZERLAND SRI in EG 1345, tlk re different religions (Prath FL 12/25)

13660 IRAQ R Baghdad in EG 2115, lcl pop mx, ID's, mail (Alexander 12/23, Cichorek NJ)

13665 PAKISTAN RP in EG 1600, nx, cmntry, nx in slo speed, //175546 (Zilmer NM 12/31)

13675 UNITED ARAB EMIRATES Dubai in EG 1630, fgys, nx, wx, //11795, 15320, 21605, into
AR 1640 (Zilmer NM 12/26) in EG 0330, nx, drama readings, p (Boulden CA 12/17)

13720 GUAM KSDA Agat in EG 0215, "AMR Magazine", "DX Asiawave" (Yamada JAPAN 12/16)

13780 GERMANY D Welle in GM 1453, ezl mx, IS, ID, nx, f (Cichorek NJ 12/22)

15020 INDIA AIR in Sinhala 1315, nx(p), cmntry, exc (Crumhorn TX 12/14)

15095 SYRIA R Damascus in EG 2045, nx, mx, //12085 (Boulden CA 12/16)

15130nf NEW ZEALAND RNZ in EG 1755, IS, ID, Xmas Day service, bible reading, move from
15485 (Zilmer NM 12/25) in EG 1907, lottery results, "Morning Report" (Clark ONT)

151706 SOCIETY IS. RPO Tahiti in FR 0320, island pop mx, tlk (Peck NY 12/8)

15180 USSR R Vilnius Lithuania in EG 2300, Xmas address & traditions, f (Sampson WI)

15180 USSR R Yerevan in EG 0353, mx, nx, ID (Poland MI 12/10)

15180 USSR R Kiev in EG 0015, ID, vocals, lecture (Unruh WA 12/19, Cichorek NJ 12/30)

15210nf SRI LANKA R Japan relay in EG 1735, first day of operation, p (Clark ONT 1/1)

15215 ALGERIA RTVA in SP 2247-2254*, "LV de Sahara" pgm, pop mx, f (Jordan PA 12/4)

15230 JAPAN RJ Tokyo in EG 2305, nx, cmntry (Grenier NV 12/26)

15250 SEYCHELLES FEBA in Amharic 0329, IS, ID, fanfare, mx theme, vg (Clark ONT 12/30)

15260 CANADA RCI in EG 1910, African svce, nx, wx, g (Unruh WA 12/17)

15270 SOUTH AFRICA RSA in EG 1700, nx, cmntry, mx, //17790 (Zilmer NM 12/26)

15275 NO. MARIANAS KHBI Saipan in EG 2155, CSM pgming, IS, severe QRM (Frodge MI)

15325 FRENCH GULANA R Japan relay in JP 0232, cmntry, JP mx, exc (Levison PA 12/12)

15365 ROMANIA RRI in EG 1730, IS, nx, tlks, ID (Prath FL 12/25)

15405 NO. MARIANAS KHBI Saipan in EG 2157, CSM pgms, QRM from VOA & DW (Frodge MI)

15425 SRI LANKA SLBC in EG 1315, under RCI w/TS & ID, Billy Graham (Clark ONT 12/26)

15430 AUSTRIA RAI in EG 1135, "Shortwave Panorama", mx, annmnts (Yamada JAPAN 12/16)

15435 UNITED ARAB EMIRATES R Dubai in EG 0330, Mideast mx, nx, ID, f (Purdue MN 12/5)

15450 PHILIPPINE IS. FEBC in EG 0130, ID, nx, relig pgm (Yamada JAPAN, Poland MI)

15470 USSR R Tashkent in EG 1217, cooperative efforts in medicine, ID (Cichorek 12/30)

15500 CHINA CPBS Beijing in CH 0113, CH singing, ID 0123, reading (Wolfson OH 12/23)

15505 IRAQ V of Peace in EG 1815, US pop mx, ID's, into AR 1900 (Alexander PA 12/30)

15530nf AUSTRALIA RA in EG, nx, cmntry, f (Levison PA 12/14)

15550 CHINA CPBS Beijing in CH 0308, tlk, nice CH folk mx w/orch (Peck NY 12/8)

15575nf CYPRUS BBC relay in EG 1530, "Way of All Flesh", rx, f (Carson OK 12/20)

15590nf USA RTBN Salt Lake City in EG 0135, tlk re Jewish holidays (Paszkiwicz 12/20)
 in EG 2158, relig pgm (Grenier NV 1/3) "Behind the Scenes" 1755 (Carson 12/18)

15590nf CYPRUS BBC relay in AR 1450, AR mx, Big Ben 1500, nx (Crunchhorn TX 12/23)

15650 GREECE VoGreece in EG 1530, nx to 1539, then GR to 1550* (Zilmer NM 12/22)

17535 GREECE VoGreece in EG 1530, nx to 1539, then GR to 1549*, //11645 (Zilmer 12/17)

17575 MADAGASCAR R Nederland relay in EG 1503, "Media Network", f (Carson OK 12/20)

17595 MOROCCO RTVM Rabat in FR 1420, AR vocals, "Top 40" format, ID's appr each 1/4 hr
 into EG 1530, f-g (Jordan PA 12/7) in EG 1606, nx, recipe, pope, g (Copp IL 1/3)

17675 NEW ZEALAND RNZ in EG 0224, ad, sked annot for "Scoreboard" pgm (Peck NY 12/30)

17695 UNITED KINGDOM BFBS via BBC in EG *1330-1400*, ID, xmsn to Gulf area, messages
 to troops, end w/"Gulfink" pgm (Jordan PA 12/7, Frodge MI 12/2, Poland MI 1/1)

17720 ROMANIA RRI in EG 1315, ID, tlk by YL, mx, //21665 (Prath PL 12/29)

17740 SWEDEN RS in EG 1232, tlk on Iceland "land of ice & fire", ID (Cichorek NJ)

17760 NORWAY RNI in EG 1705, letters to Santa Claus, exc (Sampson WI 12/22)

17785 TURKEY VoTurkey in EG 1330, IS, pipe, s/on hrd under heavy QRM (Prath PL 12/25)

17790 SOUTH AFRICA RSA in EG 1702, nx, ID, info on So. Africa (Poland MI 12/10)

17810 ANTIGUA D Welle relay in GR 2000, ID in EG, nx in GR (Havrliko SC 12/22)

17860 RWANDA D Welle relay in GR 1953, tlk, Xmas mx w/Bing Crosby (Havrliko SC 12/22)

17870 VATICAN STATE VR in EG 1545-1600*, relig pgm, nx, //11715 (Zilmer NM 12/29)

21485 VATICAN STATE VR in SP 1358, IS, bells, L Am mx, tlk, f (Carson OK 12/30)

21500 SWEDEN RS in EG 1530, IS, ID, cutback in SW welfare, //17875, f (Cichorek 12/23)

21566 COSTA RICA RFPPI in EG 0130, DX pgm (Montgomery PA) nx of UN 1908, ID (Poland MI)

21570 SWEDEN RS in EG 1245, review of Nordic mx stories of 1990 (Prath FL 12/29)

21660 ASCENSION IS. BBC relay in EG 1850, game show, nx, comedy, g (Lyon MN 12/25)
 in EG 2012, tlk on Islamic/Christian parallels, f (Cichorek NJ 12/22)

21675 IRAQ VoPeace in AR/EG 1643, IS, ID, propaganda to US troops, p (Cichorek 12/30)

21700 GABON R Japan relay in EG 1500, nx, "Magazine Hour" (Zilmer NM, Levison PA)

21730 NORWAY RNI in EG *1600-1629, "Norway Today" (Zilmer 12/22) NOTE: in EG Sun only

21735 UNITED ARAB EMIRATES Abu Dhabi in AR 1300, prayer chants, lengthy tlks, nx?,
 sels of Mideast mx, poetry discussion, g (Jordan PA 12/21)

21770 FRANCE RFI in EG/FR 1406, nx, press review, interview, g (Carson OK 12/13)

21810 BELGIUM BRT in EG 1405, press review, "Radio World" f-g (Carson OK 1/7)

25690nf? UNITED ARAB EMIRATES Abu Dhabi in AR 0835, tlk, mx, ID's, //21735 (Yamada JAPAN)

CLANDESTINE STATIONS

6315 En Pueblo Respundi in SP 0048-0115*, tlk, LA & Xmas mx, ID (Alexander PA 12/24)

63251sb Voice of the Khmer in Khmer 1140, tlk, vocals, ID?, drama (D'Angelo PA 12/9)

7340 La Voz del Cid in SP 1059, ID, tlk, Warner Bros. parody (Havrliko SC 12/24)

7890 VoTigre Revolution(t) in Tigrinya? 0445, folk mx, chorus, tlk, p (Peck NY 12/15)

9570 VoFree Iraq in EG/AR 0615-0745, ID, US & western mx, rpts on Gulf issues, inter-
 views, sked, statement of stn purpose, into AR 0700, nx, ID's, p (Jordan PA 1/7)

117103 Radio SPLA in AR 1350-1358*, instrum mx, closing ancncts in EG (Alexander 12/22)

PIRATE STATIONS

62116 Pirate Radio UK 0615-0624*, rock mx, ID's, vg (Alexander PA 12/25)

62398 Weekend Music Radio in EG 0145-0300, ID's, phone #'s, pop mx (Alexander 12/25)

62832v Pirate Freaks BCS 0150-0300, pop mx, rpts to Holland addr (Alexander 12/25)

6840usb Radio Two in EG 0630, relay of legitimate stn in UK, Xmas mx (Alexander 12/25)

7413 WORK in EG 2326, rock mx, "Workers Operating Radio Knobs" (Sampson WI 12/24)

7414 Hope R Intl chat w/R Free Earth & Danny Boy 2329 (Renfrew NY, Frodge MI 12/1)

7415 WLIS "We Love Interval Signals", IS, rock mx 2041 (Frodge MI 12/29)

7415 Radio Fluffernut Not-so-Top 40 rock mx 2140-2213* (Frodge MI 12/29)

7415 Radio USA via Radio Hope in EG 0131, mx, cmtry (Poland MI 12/11)

7415 Action Radio In EG 2251, mx, tribute to KUSW (Poland MI 12/25)

7416 Radio USA with 2 other unid stns 0240 in EG, Xmas Eve bcst (D'Angelo PA 12/25)

7416 Action Radio "Cheers" theme repeated, pop mx, comedy 2231 (Frodge MI 12/22)

7437 Voice of Intoxication ID "Wellsville, NY" 0715, New Years greeting (Aden ID 1/1)

15040 Weekend Music Radio? in EG 0318 w/pop & Xmas mx, no ID, p (Clark ONT 12/25)

150507 Hope Radio International in EG 2129, special Xmas xmsn (Johnston TX 12/24)

 Please note that I start typing this column about the 15th of the month. Some of you send your loggings directly to me. If you do, be sure to allow mail delivery lead time in order to arrive here no later than the 15th.

English Schedules

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Prepared 01/26/91 at 10:26 AM.

Thanks to John Carson (OK), Kris Field (PA), Kim Elliott (VA), Steve Forrest (OH) and Joe Hanlon (NJ) for the material received.

The Gulf War

Bob Brown and I noted Radio Baghdad on the air to Europe January 16 closing at 2300 on 13660. A few hours later, around 2 a.m. Baghdad time January 17, the first reports of US and allied activity over the city surfaced on Kol Israel, CNN and the three USA networks. The BBC MS reported on *Media Network* that the NA service on the 19th was heard at 0230 UT, but the entire external service has since disappeared.

Kol Israel has been airing live newscasts, suspending regular programming, during the normal broadcast times. Additional frequencies of 12025 and 11585 have been added to some of the English time blocks. Bob Brown first alerted me to the 12025 usage at 2230, and I found it used in the following releases.

Based on a tip from Andy Sennitt reporting Radio Dubai using 13675 at 2330 with English, I found four frequencies in use at 2130 and 2330. These are new English releases. The frequencies were not announced.

Notes

Unrest in Lithuania during the week of January 7 had the R Vilnius announcers wondering if they would be back on a day to day basis. On the 12th, there was

live reporting of events. At signoff the female announcer said "We hope to be with you tomorrow again, so goodbye until then." (*Thanks to Steve Forrest for the telephone call and tape.*) R Vilnius failed to appear on Sunday, January 13. Somber orchestral music appeared without station identification at 2230 on 6100 and all five frequencies at 2300. On the 22nd, Jonathan Marks told me that R Vilnius the SW outlet was now only on 9710 (Kaunas) since January 13 but neither Jonathan or I can hear this outlet.

Kim Elliott alerted me on New Year's Eve that the Radio Moscow *North American* service appeared to be a continuation of *World Service* programming. Precise frequency announcements are missing. We found the specialized programs previously included in the *African*, *UK* and *NA* services are now included on all frequencies at the old times. The *NA Service* is mentioned as one block of time at 23-06, and the separate ENA and WNA releases are gone. Three good *WS* frequencies cover the day and night here: 17810 09-18, 9765 17-03 and 7150 21-06.

My work schedule and looking for R Riga finally came together on the 25th. There was a very good signal on 5935, with news in English 2130-2135, news in German to 2140, orchestral music to 2200, then news in presumed Estonian, and more talk until at least 2230. IDs were noted in all languages.

I give up. Radio for Peace International's schedule is impossible to track. No schedule is announced, frequencies don't follow any logical pattern, and shows don't start on the hour or half-hour. Thanks to John Carson, we have

a printed schedule showing 2000-0930 M-F and 1800-0030 Sa-Su. I suggest you check any and all frequencies at any given time.

Last month one of the print media or DX shows -- I don't remember the source -- reported that AIR, India, was using a new frequency of 15335 at 1330. On January 6 the sign-on heard on 9565 was heard. An open carrier briefly flipped on and off twice, but in between I only heard the two listed frequencies -- 11760 and 9565 -- and meter bands announced. I did not hear a third frequency or meter band mentioned. Some sources are touting a new schedule for Mongolia that includes 1445 on 13780 and 9950, but in checking vacant 9950 all I hear -- a surprise -- is the *Home Service* of AIR with an interval signal and news commencing at 1450 and 1530 (parallel 7412 also heard).

From Joe Hanlon came the tip that R Yerevan's broadcast moved up one hour to 0250 and R Stn *Peace & Progress* with a new release at 0130-0200, both on 7400 and 15180. In checking this out, we found three other frequencies too. Joe also tipped us to Vatican Radio at 0145, using new 11890 but still announcing old 11750.

ORF, Austria, has dropped *Shortwave Panorama* for lack of programming time and resources, given the expanded Gulf coverage, according to Glenn Hauser on *World of Radio* January 25.

Postal Costs & Alternatives

On February 3 the postal rates are going up again. For those with computers and modems, electronic mail becomes an attractive alternative.

I am a great fan of MCI Mail as a low-cost, efficient electronic mail system that additionally provides gateways to other providers, fax and telex services. MCI Mail, CompuServe and InterNet

all exchange electronic mail with the other systems (but the sender must know the recipient's user ID on the other system). My InterNet address is 2446376@mcimail.com.

The fax machine is on a dedicated telephone line (609-859-3226). If you send something via fax, call during *your* economy period and save money. The machine additionally supports fine, superfine and grayscale transmission modes for transmitting pictures or multi-colored schedules.

Abbreviations

Some correspondence to HQ asks about abbreviations used in this column. For the most part I follow the conventions detailed in the new member packet.

The target abbreviations include continent abbreviations and some areas, e.g., Am = Americas, ME = Middle East, Aus/NZ = Australia & New Zealand, GOS = General Overseas Service. I'll add compass abbreviations as necessary.

Notes Abbreviations: The days of the week are Su, M, Tu, W, Th, F, Sa. 24-hour UTC is abbreviated to the first two digits, e.g., 0200 = 02, when referring to the top of an hour. Note on the first page of each list the frequency columns are numbered. The number following the # symbol refers to frequency column number 1 through 8. For example, "#1&2 v USSR" means the first two frequencies are relayed via the USSR. Sometimes I will have to abbreviate the country. "#9 Gab|#6 Fr Guinea": the ninth frequency is relayed via Gabon and the sixth is relayed via French Guinea. Occasionally you will see a reference to frequency #9 or #10. I carry 10 frequencies in the database record but the page formatting constraints for the *Journal* limit the amount of data printed herein. Not all frequency data can be printed.

Prepared 01/26/91 at 12:15 PM.

An Alpert Exclusive

As I was getting ready to walk out the door to deliver the column to the publisher, the fax machine awoke with material from NASWA member David Alpert of ABC News, Nicosia, Cyprus. Fascinating stuff, and supplements what you heard on *Media Network* January 24. It doesn't get any more current than this...

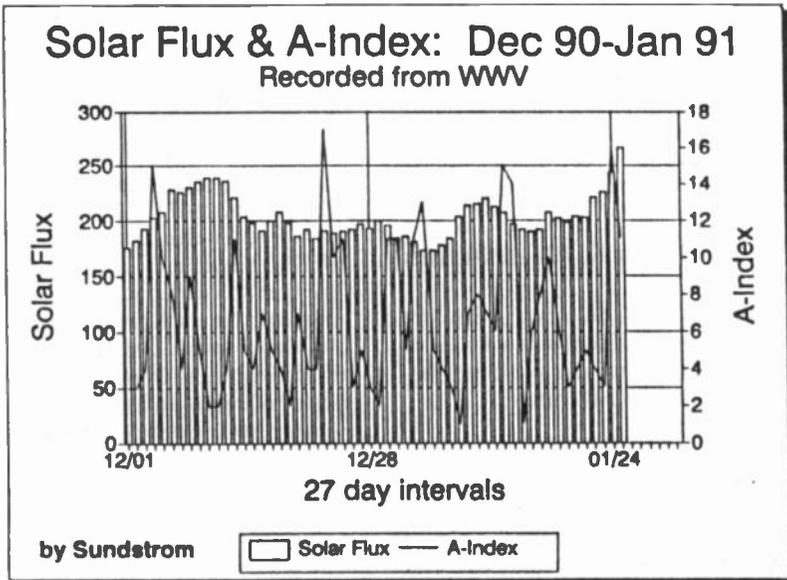
January 26 0745 UT "Broadcasting Service of the Iraqi Republic -- Voice of the Masses": "*Sawt Al Jamahir*" noted on 8350. "Radio of the Mother of Battles": "*Idhaat Umm Al Marrik*" -- a new ID not heard before -- on 15600 and 11989. Both these stations are pro-Saddam. "Voice of Free Iraq" not heard.

January 26 0837 UT A Reuters Press Service item (HF RTTY) on the fighting included "BAGHDAD ALSO REPORTED IT HAD RESERVED ONE RADIO FREQUENCY FOR THE +MOTHER OF ALL BATTLES RADIO+. +THE IRAQUIS HAVE NO ALTERNATIVE TO THE SHOWDOWN. TEH IRAQUIS WILL EMERGE VICTORIOUS IN THE NAME OF GOD AND JUSTICE. + AN ANNOUNCER SAID IN INTRODUCING THE RADIO."

January 26 0945 UT Radio Baghdad 17940 15600 11989 -- 17940 provides the best reception. No audio on 8350.

January 26 1500 UT "Voice of Free Iraq" 17955 loud and clear.

Prepared by Tom Sundstrom. Any mistakes in transcribing are mine.



Changes entered between 12/29/90 and 01/26/91.

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

Start Time (UTC)	End Time (UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000	0030	Israel	Kol Israel	12025	11605	9435	7465					NA		01/24/91
0000	1110	New Zealand	R New Zealand Int'l	17770								Pacific	Su	01/13/91
0000	0100	USA	VOA/ME	15405	15225	11805	6125					ME/W Af/Eu		01/14/91
0000	0100	USSR	R Moscow	17700	17665	17605	15425	9765	9685	7150	7115	ENA	#10 -05 v Cuba	01/05/91
0100	0150	Fed Rep Germany	R Deutsche Welle	15440	13770	13610	11890	11865	9565	6155	6145	NA		12/31/90
0100	0130	Israel	Kol Israel	12025	11605	9435	7465					NA		01/25/91
0100	0200	Japan	R Japan	17845	17835	17810	15195	11840				GOS/Asia	#5 v Sri Lanka	12/29/90
0100	0200	USA	VOA/ME	15405	15225	11805	9740	6125	6095			ME/W Af/Eu		01/14/91
0100	0300	USA	VOA/S As	21550	17740	15250	11705	9740	7205	7115		South Asia		01/14/91
0130	0200	USSR	R Stn Peace & Progress	17720	17690	15180	9750	7400				NA		01/12/91
0145	0200	Vatican State	Vatican Radio	11890	9650	7125						As/Aus/NZ		01/25/91
0200	0230	Israel	Kol Israel	12025	11605	9435	7465					NA		01/25/91
0200	0300	USA	VOA/ME	17895	15225	11805	9740	6125	5965			ME/W Af/Eu		01/14/91
0250	0300	USSR	R Yerevan	17720	17690	15180	9750	7400				NA	News/Eng	01/10/91
0300	0350	Fed Rep Germany	R Deutsche Welle	15440	13770	13610	11890	9605	9545	6120	6085	NA		12/31/90
0300	0400	USA	VOA/Af	21600	17715	15350	11835	9655	9585	9575	6035	Africa		01/14/91
0300	0330	USA	VOA/ME	17895	17810	15160	11905	5965				ME/W Af/Eu		01/14/91
0330	0425	Netherlands	R Nederland	11720	6165							WMA	v Bonsaire	01/21/91
0400	0500	Canada	R Canada Int'l	11925	9555							ME	#1 v ORF #2 v DW	01/20/91
0400	0450	Fed Rep Germany	R Deutsche Welle	15440	15265	13695	13770	13610	11890	11765	9765	S&C&E Afr	also 7150 & 6040	12/31/90
0400	0500	South Africa	Radio RSA	11900	7270							E&C&S Afr		01/12/91
0400	0430	Switzerland	Swiss R Int'l	12035	9885	9650	6135					NA/ME	#3 ME	01/25/91
0400	0430	USA	VOA/Af	21600	17715	15350	11835	9575	6035			Africa		01/14/91
0400	0500	USSR	R Moscow	12055	12025	11785	11755	9765	9685	7310	7150	World Service	#9 v Cuba	01/05/91
0430	0500	USA	VOA/Af	21600	17755	17715	15350	9575	6035			Africa		01/14/91
0500	0550	Fed Rep Germany	R Deutsche Welle	15440	13770	13610	11890	9700	9670	6120	5960	NA		12/31/90
0500	0515	Israel	Kol Israel	17575	11655	11605	9435	7465	7410			Aus/Aa/NA/WMA		01/19/91
0500	0600	USA	VOA/Af	17715	15350	9575	6035					Africa		01/14/91
0500	0600	USA	VOA/ME	15205	11825	9715	9700	9670	7200	7170	6140	ME/W Af/Eu		01/14/91
0500	0600	USSR	R Moscow	13705	12055	11785	9685	7310	7150			World Service		01/05/91
0530	0535	USSR	R Riga	5935								Eu	news	01/25/91

0600	0700	USA	VOA/Af	17715	15350	9575	9530	6125	6035		Africa		01/14/91	
0600	0630	USA	VOA/ME	15205	11825	11805	7325	7170	6140	6095	6060	ME/W Af/Eu		01/14/91
0600	0700	USSR	R Moscow	15465	15280	13705	12055	11785	7310			World Service		01/05/91
0630	0700	USA	VOA/ME	15205	11825	11805	7325	7170	6140	6095	6060	ME/W Af/Eu		01/14/91
0705	1110	New Zealand	R New Zealand Int'l	9700								Pacific	M-Sa	01/13/91
0800	1000	USA	VOA Europe	21700	21570	15195	15160	11735				Eu/ME		01/14/91
0828	0855	Netherlands	R Nederland	15560								Alb	M-Se v Bonaire	01/21/91
0900	0950	Fed Rep Germany	R Deutsche Welle	21680	21650	21600	17820	17780	15410	11780	11740	Alb/As/S&C&E Afr		12/31/90
1000	1200	USA	VOA/Am	11915	9590	6075						Caribbean/Americas		01/14/91
1000	1100	USA	VOA/ME	21700	21570	15225	15160	11735				ME/W Af/Eu		01/14/91
1100	1150	Fed Rep Germany	R Deutsche Welle	21600	17800	17765	15410	11890				W Afr		12/31/90
1100	1130	Switzerland	Int'l Red Cross	7210								Eu	2nd & last Su/mo	01/25/91
1100	1200	USSR	R Moscow	17880	17840	17810	17565	15550	15480	15280	15175	World Service	#10 v Cuba	01/05/91
1130	1225	Netherlands	R Nederland	21520	21480	17575	9715	5955				SE As/Eu	#2&3 v Madagascar	01/21/91
1130	1200	USA	VOA/ME	21700	21550	15225	15160	11735				ME/W Af/Eu		01/14/91
1200	1630	Ecuador	KCJB	25950	21455	17890	15115	11740				NA	#1&2 USB #5 -1500	01/25/91
1200	1330	USA	VOA/E As	15425	15155	11715	9760	6110				E As/SE As/Pac		01/14/91
1230	1300	USA	VOA/ME	21700	21550	15400	15225	11735				ME/W Af/Eu		01/14/91
1230	1235	USSR	R Riga	5935								Eu	news	01/25/91
1330	1400	USA	VOA/ME	21700	21550	15400	15225	11905				ME/W Af/Eu		01/14/91
1400	1500	Japan	R Japan	11815	9535	9505						GOS/As/Am	#2 v Sri Lanka	12/29/90
1400	1500	USA	VOA/E As	15425	15160	9760	6110					E As/SE As/Pac		01/14/91
1400	1500	USA	VOA/ME	21700	21540	17885	15300	11905				ME/W Af/Eu		01/14/91
1400	1500	USA	VOA/S As	15395	15205	9645	7125	6110				South Asia		01/14/91
1400	1500	USSR	R Moscow	17840	17810	17790	17690	17670	15480	15465	15345	World Service	#10 v Cuba	01/01/91
1430	1525	Netherlands	R Nederland	17605	17575	15150	13770	5955				SW As/Eu	#2&3 v Madagascar	01/21/91
1450	1515	India	AIR	9950	7612							Home Svc	news/features	01/12/91
1500	1550	Fed Rep Germany	R Deutsche Welle	21600	17765	13610	11965	9760	9735			S&C&E Afr		12/31/90
1500	1630	USA	VOA/ME	15205	9700							ME/W Af/Eu		01/14/91
1500	1800	USA	VOA/S As	15395	9700	9645	7125	6110				South Asia		01/14/91
1500	1600	USSR	R Moscow	17810	17790	17780	17670	15465	15345	15280	13705	World Service	#9 v Cuba	01/01/91
1530	1600	India	AIR	9950	7612							Home Svc	news/features	01/12/91
1600	1650	Fed Rep Germany	R Deutsche Welle	17825	15595	15240	15105	11785	9615	7225	6170	S As		12/31/90
1600	1700	USSR	R Moscow	17810	17790	17670	15450	11840				World Service	#5 v Cuba	01/01/91
1630	1725	Netherlands	R Nederland	15570	6020							EBS Afr	v Madagascar	01/21/91
1630	1700	USA	VOA/ME	15245	15205	11710	9760	9700	6180			ME/W Af/Eu		01/14/91
1700	1800	Japan	R Japan	15210	11815	9505	7140					GOS/ME/Af/As/Am	#1 Sri Lanka #2 Gab	12/29/90
1700	1730	Switzerland	Int'l Red Cross	7210								Eu	No after 2nd/last Su	01/25/91
1700	1730	USA	VOA/ME	15205	9760	9700	6040	3980				ME/W Af/Eu		01/14/91
1700	1800	USSR	R Moscow	17810	17790	15450	12030	11840	9720	7170		World Service	#5 v Cuba	01/01/91

1730	1800	USA	VOA/ME	15205	9760	9700	6180	6040		ME/N Af/Eu		01/14/91		
1800	0030	Costa Rica	R for Peace Int'l	21565	13630					LA/NA	Sa-Su	01/12/91		
1800	1900	USA	VOA/ME	15205	9760	9700	6180	6040		ME/N Af/Eu		01/14/91		
1800	1900	USSR	R Moscow	15450	11840	9765	7170			World Service	#2 v Cuba	01/01/91		
1900	1950	Fed Rep Germany	R Deutsche Welle	17810	15390	15350	13790	11810	11785	9760	W Afr	12/31/90		
1900	2100	USA	VOA/ME	15205	11710	9760	9700	6180	6040	ME/N Af/Eu		01/14/91		
1900	2000	USSR	R Moscow	11840	9765	9720	9685	7170		World Service	#1 v Cuba	01/01/91		
2000	0930	Costa Rica	R for Peace Int'l	21565	13630	7375				LA/NA	M-F #3 USB chk all	01/12/91		
2000	2100	USSR	R Moscow	11840	9765	9685	7170			World Service	#1 v Cuba	01/01/91		
2100	2200	China	R Beijing	15110	11715	11500	9920			EBS Af/Eu	#1&2 v Mali -2130	01/15/91		
2100	2150	Fed Rep Germany	R Deutsche Welle	15350	13780	11785	9765	9670		Aus/As		12/31/90		
2100	2200	USA	VOA/ME	15205	11960	11710	9760	9700	6180	6040	ME/N Af/Eu	01/14/91		
2100	2200	USSR	R Moscow	15130	12060	11840	11685	9765	9720	9685	7170	World Service	#3 v Cuba	01/01/91
2111	0705	New Zealand	R New Zealand Int'l	17770						Pacific	M-Fr	01/13/91		
2130	2200	United Arab Emirates	R Dubai	15400	15320	13675	11795			Eu/N Af		01/25/91		
2130	2135	USSR	R Riga	5935						Eu	news	01/25/91		
2200	2400	USA	VOA/E As	17820	17735	15305	15290	15185	11760	9770	7120	E As/SE As/Pac	01/14/91	
2200	2300	USSR	R Moscow	17665	9765	9685	9720	7170	7150	6045	6030	World Service	01/01/91	
2230	2300	Israel	Kol Israel	17575	12025	11655	11605	9635	7465			Af/LA/NA/M Eu	01/24/91	
2230	2300	USSR	R Vilnius	9710						Eu	from mid-Jan	01/24/91		
2300	2330	USSR	R Vilnius	9710						Eu	from mid-Jan	01/24/91		
2330	2400	United Arab Emirates	R Dubai	15400	15320	13675	11795			Eu/N Af		01/22/91		

Changes entered between 12/29/90 and 01/26/91.

ENGLISH LANGUAGE DX SHOWS: By Day of Week

Compiled by Thomas R. Sundstrom, W2XX

Shortwave DX Program	Show Xmas		Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Target Area	Notes re DX Show	Record
	Start Time	Time												Last Updated
** DAY OF THE WEEK: Sunday														
World of Radio	0130	0100	USA	WCR	7520									01/24/91
** DAY OF THE WEEK: Monday														
Listeners' Corner	0136	0000	Canada	R Canada Int'l	9755	5960							USA	occ has sked data 01/20/91

PC Software by W2XQ

W2XQ
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English Language SW Broadcast Schedules

- Schedules by country and time, DX shows by day of the week.
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3rd Annual LENINGRAD HAMVENTION Announced

For one exciting week next August, radio enthusiasts from around the world will meet in Leningrad at the USSR's largest international radio festival, the 1991 Leningrad Hamvention.

International Broadcasters to Attend

For the first time, the Leningrad Hamvention will offer special sessions for international SW listeners (SWLs). Ian McFarland, award-winning host of Radio Canada International's "The SWL Digest", will deliver the keynote seminar. Known as the Voice of Canada throughout the world, McFarland will also coordinate the event's International Broadcasters Forum. This forum will allow Hamvention attendees to ask the panel of on-air personalities questions pertaining to shortwave broadcasting.

Radio Moscow and Radio Prague

Hamvention attendees will also have the privilege of touring the stations of Radio Moscow and Radio Prague. Explore the amateur radio communities in these exciting cities.

Exciting Itinerary Highlights

----- July 29 -----
Depart New York City or Montreal.

----- July 30 -----
Arrive in Moscow. Experience breathtakingly illuminated Red Square and St. Basil's Cathedral.

----- July 31 -----
As VIP guests of the USSR State Committee for Radio and Television, visit Radio Moscow's headquarters. Attend meeting of local radio club.

----- August 1 -----
Tour the Kremlin and shop for souvenirs on Arbat Street. Participate in roundtable discussions with Soviets on equipment availability, clandestine broadcasts and utility station monitoring.

----- August 2 -----
Arrive in Leningrad. Hamvention check-in and accreditation. Enjoy a tour of the city.

----- August 3, 4 -----
Participate in the 1991 Leningrad Hamvention. Relax during late afternoon sightseeing excursions. Mix

with fellow radio enthusiasts at evening banquets and socials.

----- August 5 -----
Those on the Budget-Saver Tour return to New York or Montreal. Participants on the Comprehensive Tour visit the incomparable Hermitage Museum, Catherine the Great's winter palace.

----- August 6 -----
Tour shortwave radio installations in Leningrad. Visit the parks and palaces of Pushkin, St. Isaac's Cathedral and Peter and Paul Fortress. Celebrate at a farewell dinner with Inter-Radio members.

----- August 7 -----
Fly to Prague. Tour the historic old town, including Wenceslas Square, the Charles Bridge and Hradcany Castle.

----- August 8 -----
Visit and tour the facilities of Radio Prague. Meet with Czech radio clubs.

----- August 9 -----
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